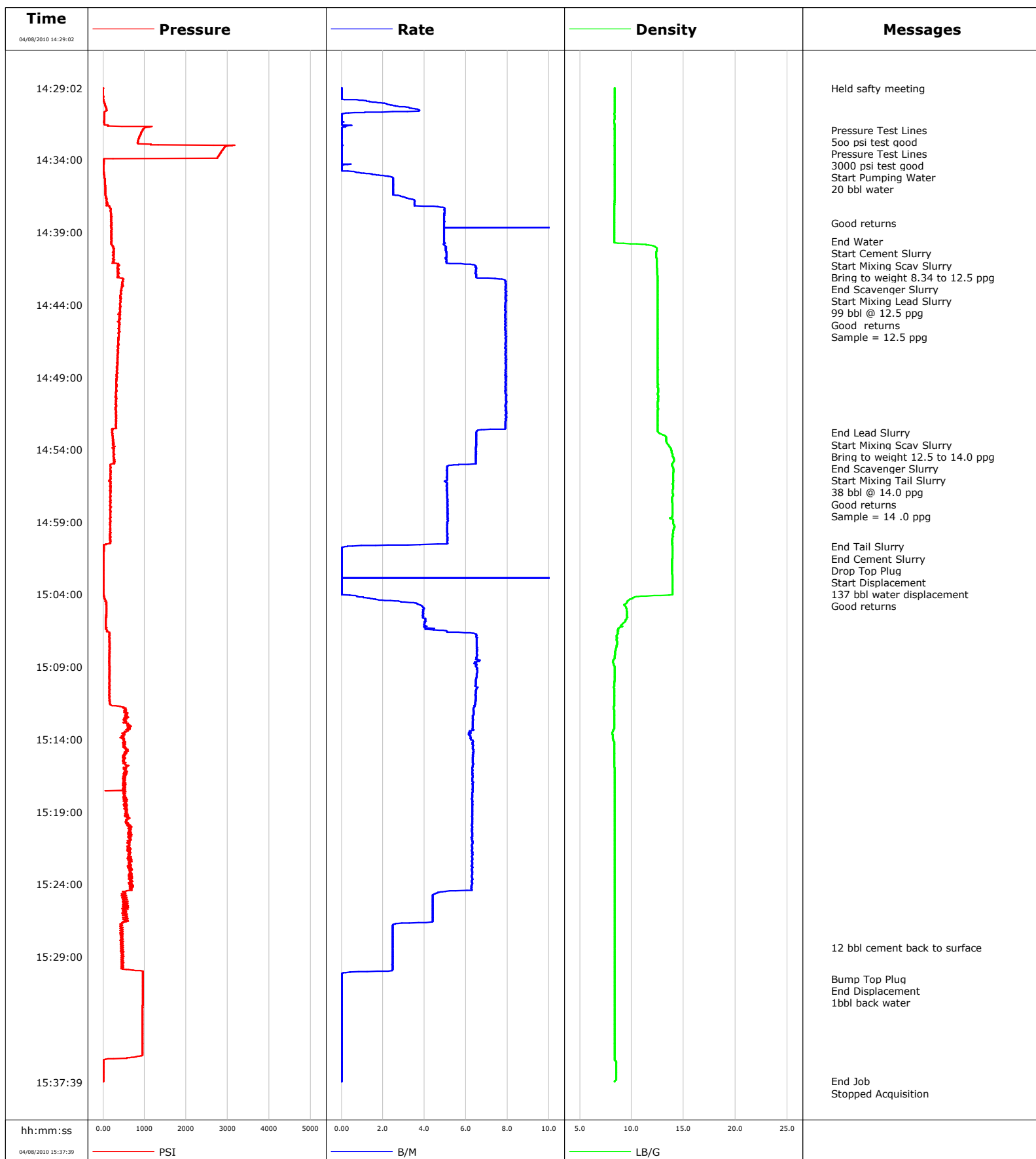


Well WF08D021 K22 596,1
Field N Parchute
Engineer Terry Borg
Country United States

Client eNCANA
SIR No. B2K7-00046
Job Type 9 5/8 Surface
Job Date 04-08-2010

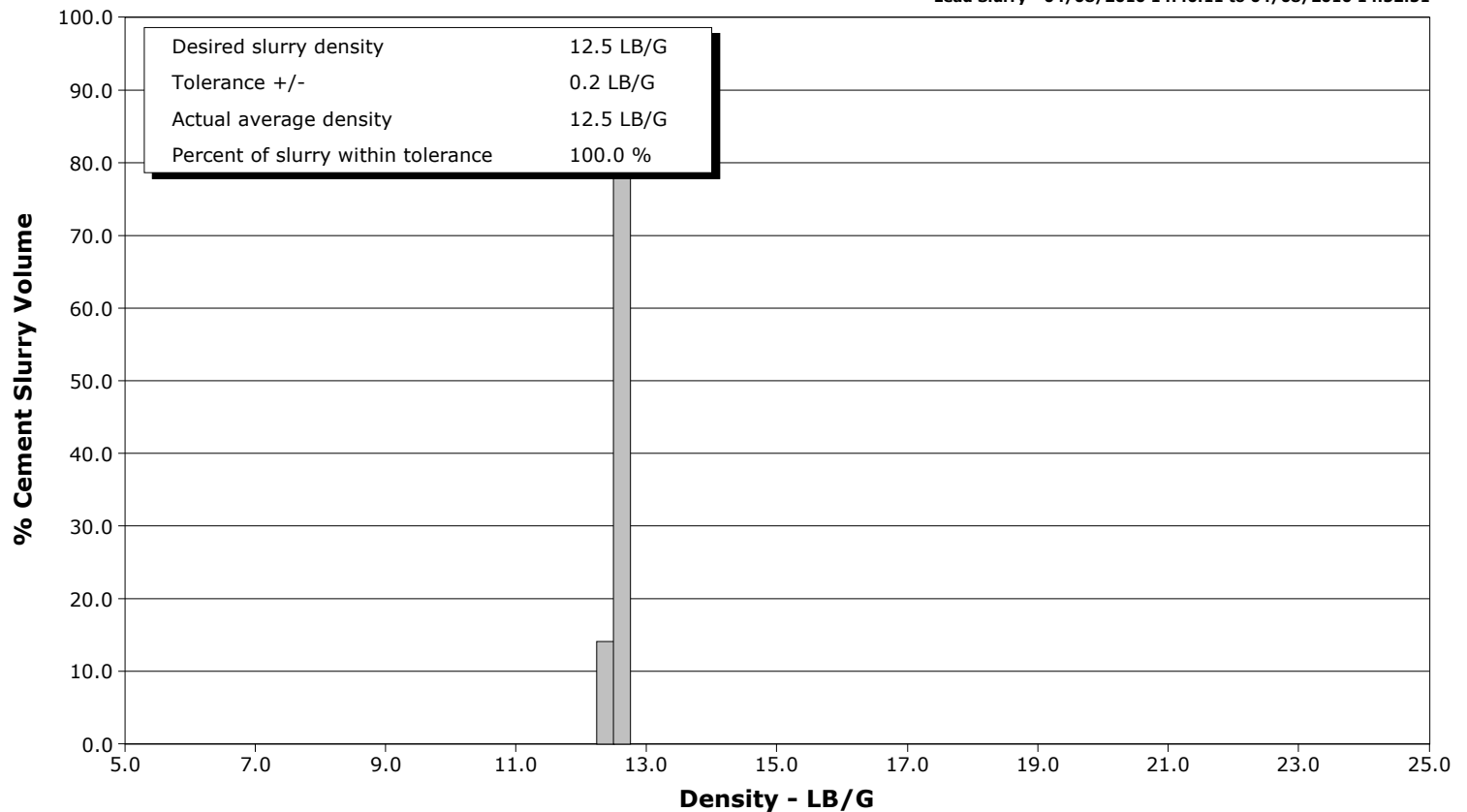


Schlumberger Cementing Qa/Qc Density Report

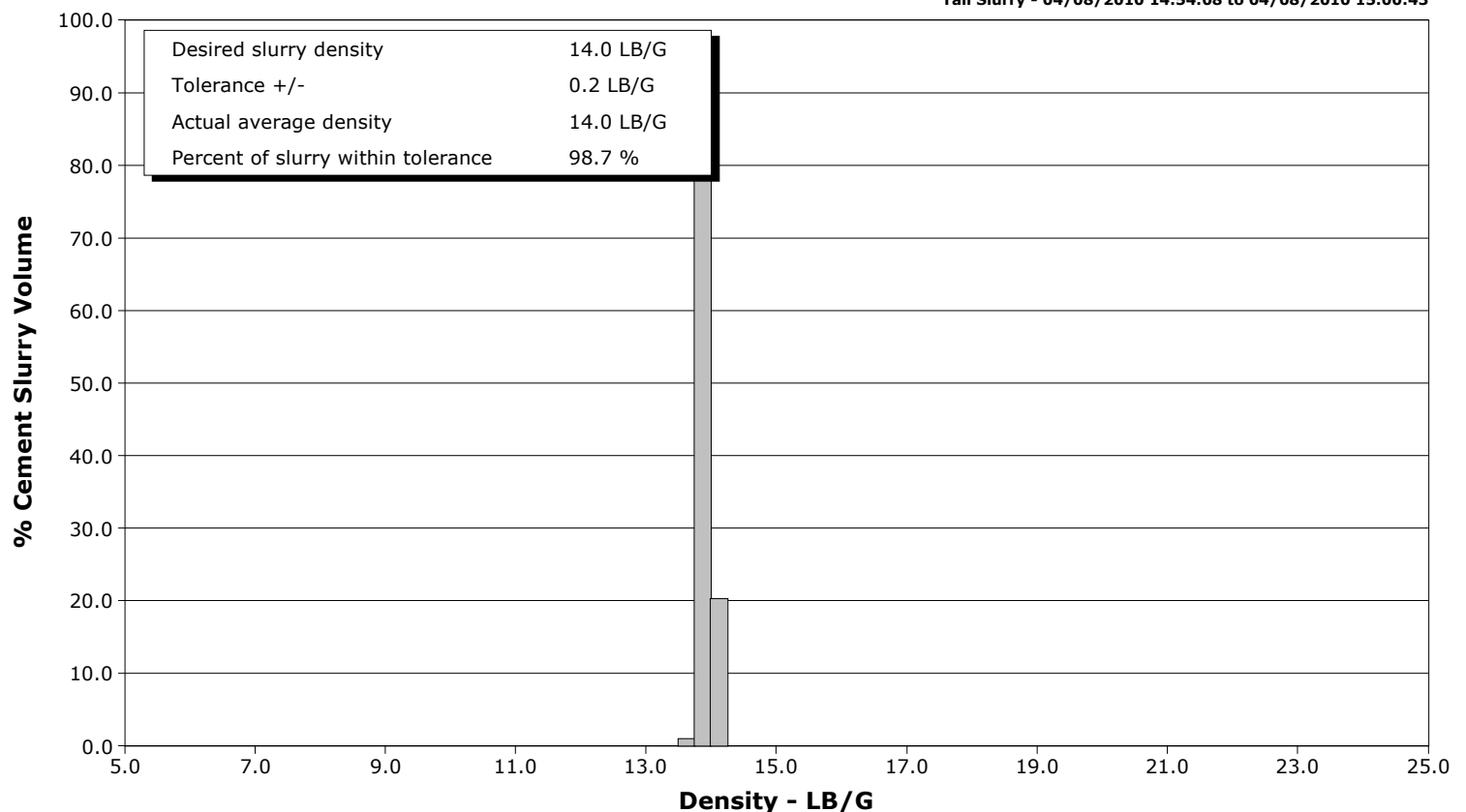
Well WF08D021 K22 596,1
Field N Parchute
Engineer Terry Borg
Country United States

Client eNCANA
SIR No. B2K7-00046
Job Type 9 5/8 Surface
Job Date 04-08-2010

Lead Slurry - 04/08/2010 14:40:11 to 04/08/2010 14:52:51



Tail Slurry - 04/08/2010 14:54:08 to 04/08/2010 15:00:43





Cementing Service Report

				Customer eNCANA			Job Number B2K7-00046		
Well WF08D021 K22 596,1 K22 596,1			Location (legal) K22 596,1		Schlumberger Location GCO			Job Start Apr/08/2010	
Field N Parachute		Formation Name/Type		Deviation	Bit Size 12.3 in		Well MD 1820.0 ft		Well TVD 1820.0 ft
County Garfield		State/Province Colorado		BHP	BHST 100 degF	BHCT 87 degF	Pore Press. Gradient		
Well Master 0631173130		API/UWI							
Rig Name Patterson 303	Drilled For Gas	Service Via Land	Casing/Liner						
			Depth, ft	Size, in	Weight, lb/ft	Grade	Thread		
Offshore Zone	Well Class New	Well Type Development	1820.0	9.630	36.0	J55	8RD		
			0.0	0.000	0.0				
Drilling Fluid Type Bentonite		Max. Density	Plastic Viscosity	Tubing/Drill Pipe					
				Depth,	Size,	Weight,	Grade	Thread	
Service Line Cementing	Job Type 9 5/8 Surface								
Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection 9 5/8	Perforations/Open Hole						
			Top,	Bottom,		No. of Shots	Total Interval		
Service Instructions Cement 1820ft of 9 5/8" Surface Casing 25% Excess 20bbls Water 263 sks 12.5ppg G (TOL @ surface) 139 sks 14.0ppg G (TOT @ 1150ft) Displace with water							Diameter		
			Treat Down Casing	Displacement 137.0 bbl		Packer Type		Packer Depth	
			Tubing Vol.	Casing Vol. 140.0 bbl		Annular Vol. 133.0 bbl		Openhole Vol. 261.0 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 900 psi				Shoe Type Guide			Squeeze Type		
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1820.0 ft			Tool Type		
No. Centralizers 22		Top Plugs 1	Bottom Plugs	Stage Tool Type			Tool Depth		
Cement Head Type Single				Stage Tool Depth			Tail Pipe Size		
Job Scheduled For Apr/08/2010 10:00		Arrived on Location Apr/08/2010 13:30		Leave Location Apr/08/2010 16:30		Collar Type Diff-Fill		Tail Pipe Depth	
						Collar Depth 1775.0 ft		Sqz. Total Vol.	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
04/08/2010	14:08:07					Started Acquisition			
04/08/2010	14:29:02	-1	0.0	8.34	0.0				
04/08/2010	14:29:03					Held safty meeting			
04/08/2010	14:29:03	-1	0.0	8.34	0.0				
04/08/2010	14:31:57					Pressure Test Lines			
04/08/2010	14:31:57	958	0.0	8.34	2.3				
04/08/2010	14:31:59					500 psi test good			
04/08/2010	14:31:59	950	0.0	8.33	2.3				
04/08/2010	14:33:07	2934	0.0	8.34	2.3				
04/08/2010	14:33:33					Pressure Test Lines			
04/08/2010	14:33:33	2826	0.0	8.34	2.3				
04/08/2010	14:33:36					3000 psi test good			
04/08/2010	14:33:36	2816	0.0	8.34	2.3				
04/08/2010	14:34:22					Start Pumping Water			
04/08/2010	14:34:22	14	0.1	8.34	2.3				
04/08/2010	14:34:24					20 bbl water			
04/08/2010	14:34:24	10	0.0	8.34	2.3				
04/08/2010	14:38:07	201	4.9	8.33	13.0				
04/08/2010	14:38:24					Good returns			
04/08/2010	14:38:24	207	5.0	8.33	14.4				
04/08/2010	14:39:39					End Water			

Well WF08D021 K22 596,1 K22 596,1			Field N Parchute		Job Start Apr/08/2010		Customer eNCANA		Job Number B2K7-00046	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G		Volume BBL		Message	
04/08/2010	14:39:42								Start Cement Slurry	
04/08/2010	14:39:42	221		4.9	8.33		21.0			
04/08/2010	14:39:43								Start Mixing Scav Slurry	
04/08/2010	14:39:43	202		4.9	8.33		21.0			
04/08/2010	14:39:49								Bring to weight 8.34 to 12.5 ppg	
04/08/2010	14:39:49	202		4.9	9.90		21.5			
04/08/2010	14:40:10								End Scavenger Slurry	
04/08/2010	14:40:10	246		5.0	12.42		23.3			
04/08/2010	14:40:11								Start Mixing Lead Slurry	
04/08/2010	14:40:11	254		5.0	12.43		23.4			
04/08/2010	14:40:13								99 bbl @ 12.5 ppg	
04/08/2010	14:40:13	252		5.0	12.42		23.5			
04/08/2010	14:40:16								Good returns	
04/08/2010	14:40:16	262		5.0	12.41		23.8			
04/08/2010	14:40:20								Sample = 12.5 ppg	
04/08/2010	14:40:20	263		5.0	12.39		24.1			
04/08/2010	14:43:07	425		7.9	12.52		42.2			
04/08/2010	14:48:07	344		7.9	12.52		81.7			
04/08/2010	14:52:51								End Lead Slurry	
04/08/2010	14:52:51	216		6.5	12.62		118.9			
04/08/2010	14:52:53								Start Mixing Scav Slurry	
04/08/2010	14:52:53	214		6.5	12.66		119.1			
04/08/2010	14:52:57								Bring to weight 12.5 to 14.0 ppg	
04/08/2010	14:52:57	219		6.5	12.90		119.5			
04/08/2010	14:53:07	244		6.5	13.28		120.6			
04/08/2010	14:54:06								End Scavenger Slurry	
04/08/2010	14:54:06	256		6.5	13.84		127.0			
04/08/2010	14:54:08								Start Mixing Tail Slurry	
04/08/2010	14:54:08	259		6.5	13.85		127.2			
04/08/2010	14:54:15								38 bbl @ 14.0 ppg	
04/08/2010	14:54:15	255		6.5	13.86		128.0			
04/08/2010	14:54:18								Good returns	
04/08/2010	14:54:18	251		6.5	13.91		128.3			
04/08/2010	14:54:21								Sample = 14 .0 ppg	
04/08/2010	14:54:21	270		6.5	13.92		128.6			
04/08/2010	14:58:07	182		5.1	13.93		148.7			
04/08/2010	15:00:43								End Tail Slurry	
04/08/2010	15:00:43	15		0.2	13.94		161.5			
04/08/2010	15:00:44								End Cement Slurry	
04/08/2010	15:00:44	14		0.1	13.94		161.5			
04/08/2010	15:00:46								Drop Top Plug	
04/08/2010	15:00:46	15		0.0	13.94		161.5			
04/08/2010	15:00:47								Start Displacement	
04/08/2010	15:00:47	14		0.0	13.94		161.5			
04/08/2010	15:00:49								137 bbl water displacement	
04/08/2010	15:00:49	13		0.0	13.94		161.5			
04/08/2010	15:00:50								Good returns	
04/08/2010	15:00:50	14		0.0	13.94		161.5			
04/08/2010	15:03:07	8		0.0	13.91		164.2			
04/08/2010	15:08:07	152		6.5	8.40		183.0			
04/08/2010	15:13:07	678		6.3	8.33		215.2			
04/08/2010	15:18:07	548		6.3	8.34		246.8			
04/08/2010	15:23:07	641		6.3	8.34		278.2			
04/08/2010	15:28:07	478		2.5	8.34		300.1			

Well			Field		Job Start		Customer		Job Number	
WF08D021 K22 596,1 K22 596,1			N Parchute		Apr/08/2010		eNCANA		B2K7-00046	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
04/08/2010	15:28:22	465	2.5	8.34	300.7					
04/08/2010	15:30:32					Bump Top Plug				
04/08/2010	15:30:32	959	0.0	8.34	304.7					
04/08/2010	15:30:33					End Displacement				
04/08/2010	15:30:33	960	0.0	8.34	304.7					
04/08/2010	15:30:37					1bbl back water				
04/08/2010	15:30:37	959	0.0	8.34	304.7					
04/08/2010	15:33:07	952	0.0	8.34	304.7					
04/08/2010	15:37:35					End Job				
04/08/2010	15:37:35	2	0.0	8.38	304.7					

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl				
Slurry 5.6	N2	Mud 0.0	Maximum Rate 161.3		Total Slurry 137.0	Mud 0.0	Spacer 20.9	N2	
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum 3177	Final 1000	Average 402	Bump Plug to 1000	Breakdown	Type		Volume		Density
Avg. N2 Percent		Designed Slurry Volume 137.0 bbl		Displacement 137.0 bbl	Mix Water Temp 70 degF		Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 12.0 bbl
						Washed Thru Perfs <input type="checkbox"/>		To	
Customer or Authorized Representative Ed Asuchak				Schlumberger Supervisor Terry Borg				Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>
								-	-