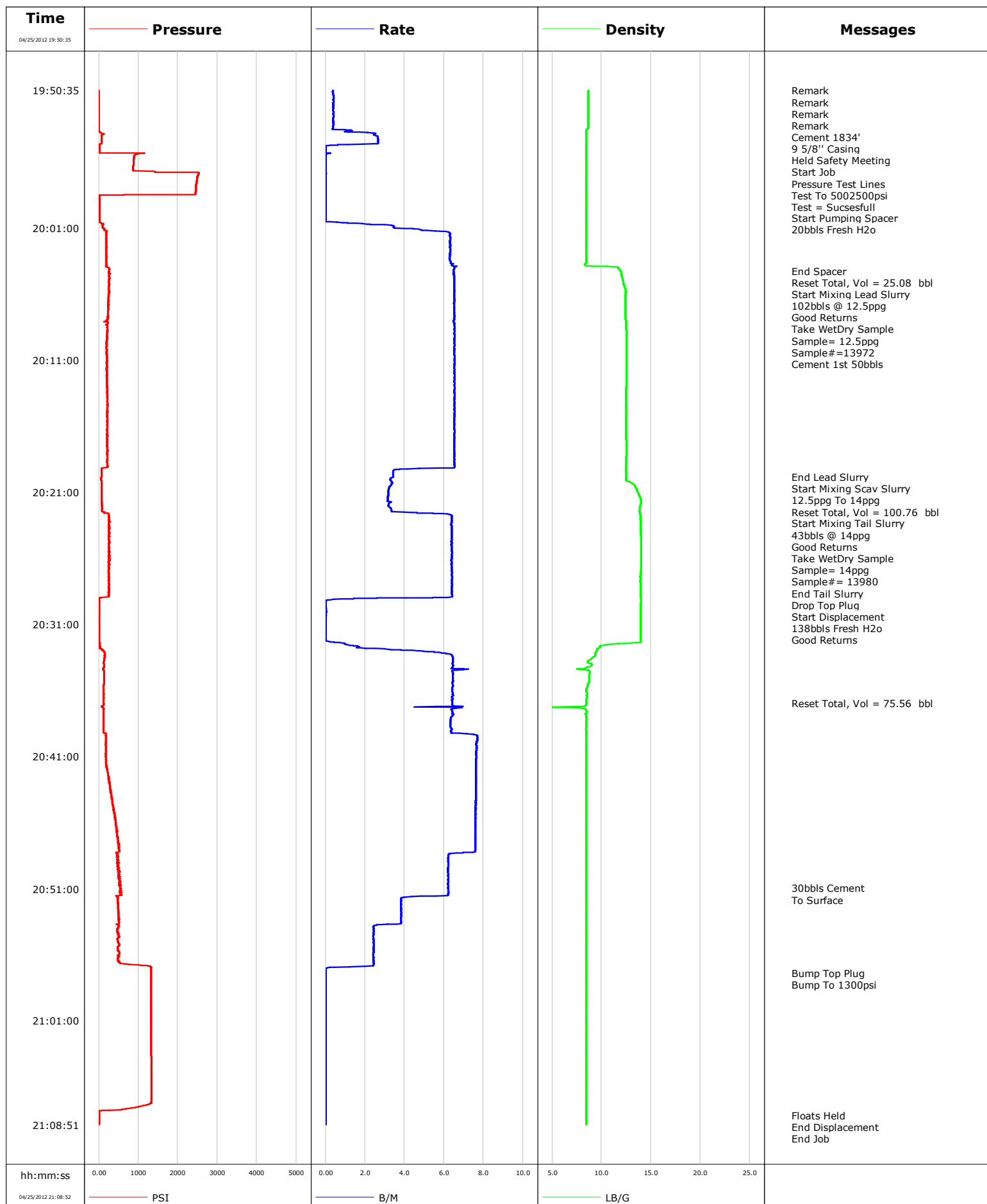


<b>Well</b>	EF09F-27	<b>Client</b>	ENCANA
<b>Field</b>	N PARACHUTE	<b>SIR No.</b>	C4HD-00129
<b>Engineer</b>		<b>Job Type</b>	SURFACE
<b>Country</b>	United States	<b>Job Date</b>	04-25-2012

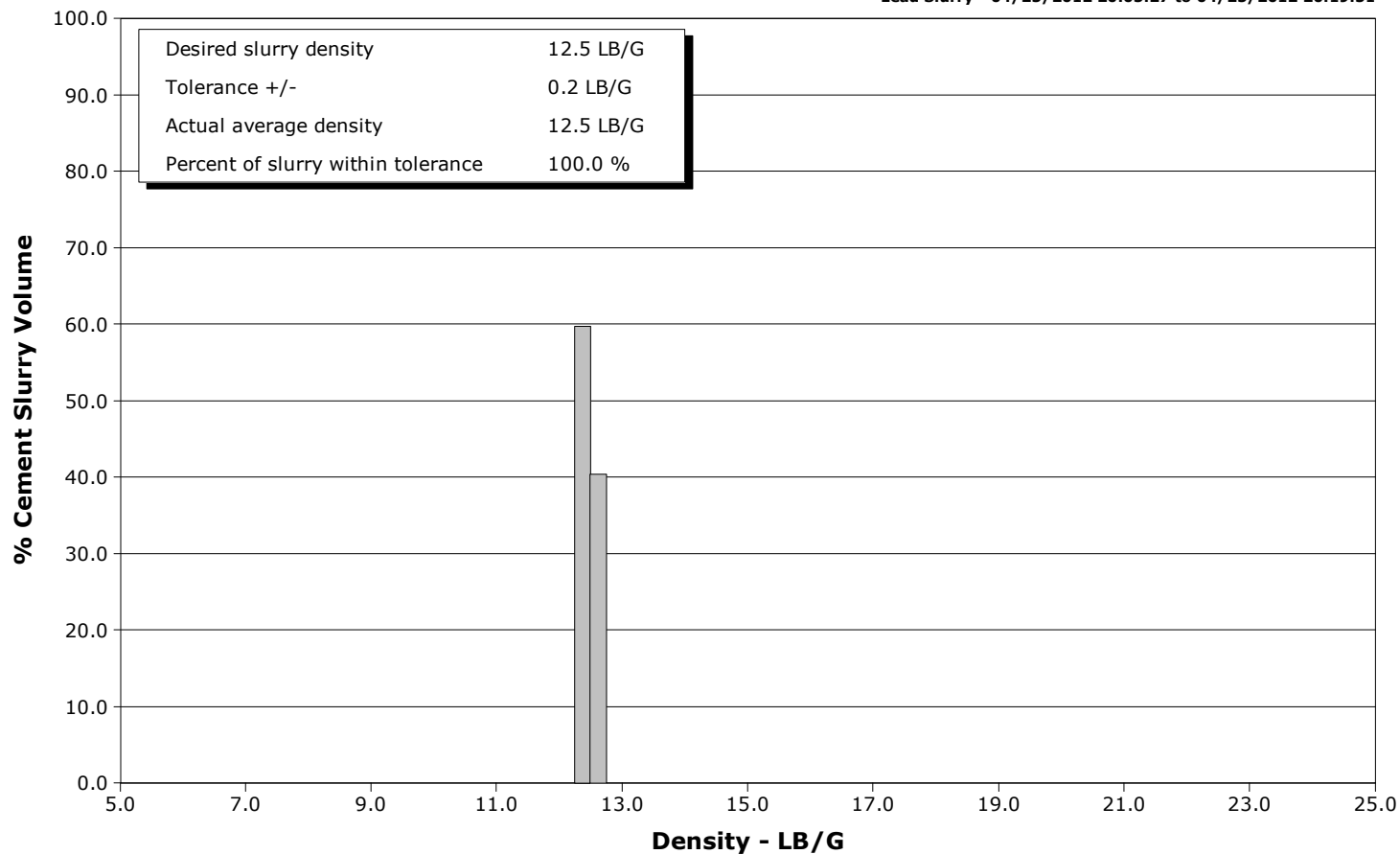


# Schlumberger Cementing Qa/Qc Density Report

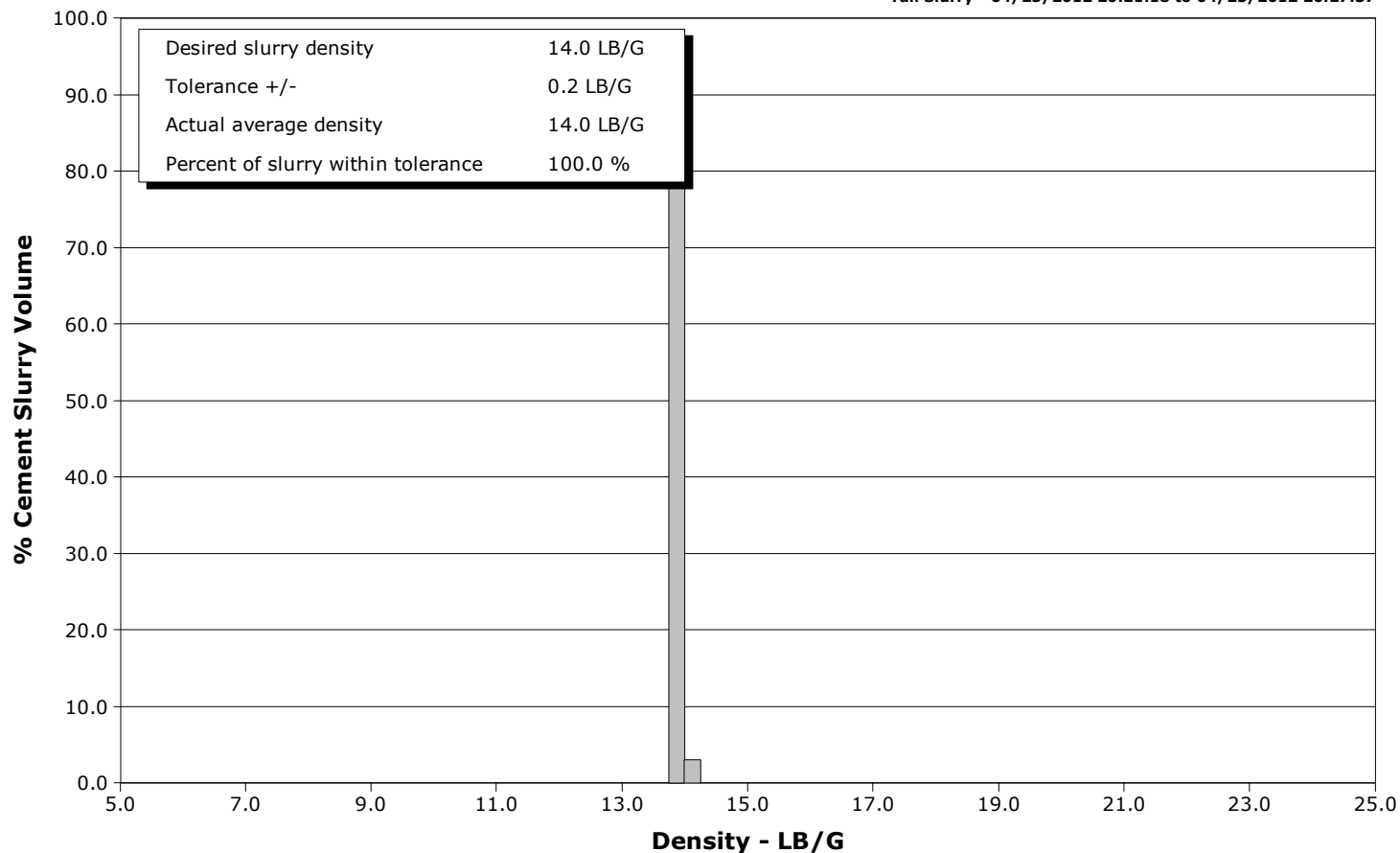
**Well** EF09F-27  
**Field** N PARACHUTE  
**Engineer**  
**Country** United States

**Client** ENCANA  
**SIR No.** C4HD-00129  
**Job Type** SURFACE  
**Job Date** 04-25-2012

**Lead Slurry - 04/25/2012 20:05:27 to 04/25/2012 20:19:51**



**Tail Slurry - 04/25/2012 20:21:18 to 04/25/2012 20:27:37**





# Cementing Service Report

				Customer ENCANA			Job Number C4HD-00129								
Well EF09F-27			Location (legal) N PARACHUTE			Schlumberger Location GCO			Job Start Apr/25/2012						
Field N PARACHUTE		Formation Name/Type			Deviation		Bit Size		Well MD		Well TVD				
County GARFILED		State/Province Colorado			BHP		BHST		BHCT		Pore Press. Gradient				
Well Master 0631244194		API/UWI													
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	
						1834.0		9.630		36.0		J55		8RD	
Drilling Fluid Type		Max. Density		Plastic Viscosity		Tubing/Drill Pipe									
						Depth,		Size,		Weight,		Grade		Thread	
Service Line Cementing		Job Type SURFACE													
Max. Allowed Tub. Press		Max. Allowed Ann. Press		WH Connection		Perforations/Open Hole									
						Top,		Bottom,				No. of Shots		Total Interval	
Service Instructions 272sks 12.5ppg lead 2.11ft3/sk 158sks 14ppg tail 1.54ft3/sk														Diameter	
						Treat Down Casing		Displacement 138.0 bbl		Packer Type		Packer Depth			
Tubing Vol.		Casing Vol. 141.0 bbl		Annular Vol. 112.0 bbl		Openhole Vol. 263.0 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 907 psi				Shoe Type Guide				Squeeze Type							
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1834.0 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 Apr/25/2012		Arrived on Location Apr/25/2012		Leave Location Apr/25/2012		Collar Type Diff-Fill				Tail Pipe Depth					
						Collar Depth 1787.0 ft				Sqz. Total Vol.					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message									
04/25/2012	19:03:39					Started Acquisition									
04/25/2012	19:50:35	-2	0.4	8.67	0.0										
04/25/2012	19:50:37					Remark									
04/25/2012	19:50:37	-2	0.4	8.67	0.0										
04/25/2012	19:50:38					Remark									
04/25/2012	19:50:38					Remark									
04/25/2012	19:50:38					Remark									
04/25/2012	19:50:38					Cement 1834'									
04/25/2012	19:50:38					9 5/8" Casing									
04/25/2012	19:50:38					Held Safety Meeting									
04/25/2012	19:50:38	-2	0.4	8.67	0.0										
04/25/2012	19:50:40					Start Job									
04/25/2012	19:50:40	-2	0.4	8.67	0.0										
04/25/2012	19:50:43					Pressure Test Lines									
04/25/2012	19:50:43	-2	0.4	8.67	0.1										
04/25/2012	19:50:44					Test To 5002500psi									
04/25/2012	19:50:44					Test = Sucsesfull									
04/25/2012	19:50:44	-2	0.4	8.67	0.1										
04/25/2012	19:51:39	-2	0.4	8.67	0.4										
04/25/2012	19:53:39	0	1.4	8.45	1.3										
04/25/2012	19:55:39	890	0.0	8.45	3.8										

Well			Field		Job Start		Customer		Job Number	
EF09F-27			N PARACHUTE		Apr/25/2012		ENCANA		C4HD-00129	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
04/25/2012	19:59:39	21	0.0	8.45	3.8					
04/25/2012	20:00:13					Start Pumping Spacer				
04/25/2012	20:00:13	21	0.0	8.45	3.8					
04/25/2012	20:00:14					20bbls Fresh H2o				
04/25/2012	20:00:14	21	0.0	8.45	3.8					
04/25/2012	20:01:39	190	6.3	8.45	8.6					
04/25/2012	20:03:39	186	6.3	8.45	21.2					
04/25/2012	20:04:14					End Spacer				
04/25/2012	20:04:14	259	6.5	11.89	25.0					
04/25/2012	20:04:15					Reset Total, Vol = 25.08 bbl				
04/25/2012	20:04:15	256	6.5	11.89	25.1					
04/25/2012	20:05:27					Start Mixing Lead Slurry				
04/25/2012	20:05:27	255	6.5	12.33	32.9					
04/25/2012	20:05:29					102bbls @ 12.5ppg				
04/25/2012	20:05:29					Good Returns				
04/25/2012	20:05:29					Take WetDry Sample				
04/25/2012	20:05:29					Sample= 12.5ppg				
04/25/2012	20:05:29					Sample#=13972				
04/25/2012	20:05:29	251	6.5	12.34	33.1					
04/25/2012	20:05:39	253	6.5	12.41	34.2					
04/25/2012	20:07:39	241	6.5	12.44	47.2					
04/25/2012	20:07:59					Cement 1st 50bbls				
04/25/2012	20:07:59	189	6.5	12.45	49.4					
04/25/2012	20:09:39	195	6.5	12.54	60.2					
04/25/2012	20:11:39	203	6.5	12.54	73.3					
04/25/2012	20:13:39	212	6.5	12.50	86.3					
04/25/2012	20:15:39	213	6.5	12.49	99.4					
04/25/2012	20:17:39	221	6.5	12.52	112.4					
04/25/2012	20:19:39	66	3.4	12.48	124.1					
04/25/2012	20:19:51					End Lead Slurry				
04/25/2012	20:19:51	67	3.4	12.49	124.7					
04/25/2012	20:20:08					Start Mixing Scav Slurry				
04/25/2012	20:20:08	62	3.3	12.51	125.7					
04/25/2012	20:20:09					12.5ppg To 14ppg				
04/25/2012	20:20:09	62	3.3	12.60	125.7					
04/25/2012	20:20:11					Reset Total, Vol = 100.76 bbl				
04/25/2012	20:20:11	62	3.3	12.70	125.8					
04/25/2012	20:21:18					Start Mixing Tail Slurry				
04/25/2012	20:21:18	68	3.2	13.85	129.5					
04/25/2012	20:21:20					43bbls @ 14ppg				
04/25/2012	20:21:20					Good Returns				
04/25/2012	20:21:20					Take WetDry Sample				
04/25/2012	20:21:20					Sample= 14ppg				
04/25/2012	20:21:20					Sample#= 13980				
04/25/2012	20:21:20	69	3.2	13.87	129.6					
04/25/2012	20:21:39	69	3.1	13.98	130.6					
04/25/2012	20:23:39	252	6.4	13.95	140.5					
04/25/2012	20:25:39	279	6.4	13.98	153.2					
04/25/2012	20:27:37					End Tail Slurry				
04/25/2012	20:27:37	258	6.4	13.95	165.8					
04/25/2012	20:27:38					Drop Top Plug				
04/25/2012	20:27:38					Start Displacement				
04/25/2012	20:27:38	258	6.4	13.95	165.9					
04/25/2012	20:27:39	259	6.4	13.95	166.0					

Well			Field		Job Start	Customer		Job Number
EF09F-27			N PARACHUTE		Apr/25/2012	ENCANA		C4HD-00129
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
04/25/2012	20:27:46					Good Returns		
04/25/2012	20:27:46	257	6.4	13.91	166.7			
04/25/2012	20:29:39	5	0.0	13.93	174.8			
04/25/2012	20:31:39	2	0.0	13.94	174.8			
04/25/2012	20:33:39	130	6.5	8.97	180.0			
04/25/2012	20:35:39	124	6.5	8.56	192.9			
04/25/2012	20:36:58					Reset Total, Vol = 75.56 bbl		
04/25/2012	20:36:58	121	6.4	8.45	201.4			
04/25/2012	20:37:39	118	6.4	8.48	205.8			
04/25/2012	20:39:39	173	7.7	8.45	219.0			
04/25/2012	20:41:39	188	7.6	8.46	234.2			
04/25/2012	20:43:39	306	7.6	8.46	249.5			
04/25/2012	20:45:39	404	7.6	8.46	264.7			
04/25/2012	20:47:39	498	7.6	8.46	279.8			
04/25/2012	20:49:39	490	6.2	8.46	293.1			
04/25/2012	20:50:56					30bbls Cement		
04/25/2012	20:50:56	528	6.2	8.46	301.1			
04/25/2012	20:51:05					To Surface		
04/25/2012	20:51:05	559	6.2	8.46	302.0			
04/25/2012	20:51:39	480	4.0	8.46	305.4			
04/25/2012	20:53:39	505	3.8	8.46	313.0			
04/25/2012	20:55:39	485	2.4	8.46	318.0			
04/25/2012	20:57:24					Bump Top Plug		
04/25/2012	20:57:24	1320	0.0	8.46	321.0			
04/25/2012	20:57:25					Bump To 1300psi		
04/25/2012	20:57:25	1320	0.0	8.46	321.0			
04/25/2012	20:57:39	1318	0.0	8.46	321.0			
04/25/2012	20:59:39	1320	0.0	8.46	321.0			
04/25/2012	21:01:39	1321	0.0	8.46	321.0			
04/25/2012	21:03:39	1324	0.0	8.46	321.0			
04/25/2012	21:05:39	1326	0.0	8.46	321.0			
04/25/2012	21:07:39	683	0.0	8.47	321.0			
04/25/2012	21:08:09					Floats Held		
04/25/2012	21:08:09					End Displacement		
04/25/2012	21:08:09	3	0.0	8.47	321.0			
04/25/2012	21:08:12					End Job		

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 5.4	N2	Mud 0.0	Maximum Rate 7.7		Total Slurry 321.0	Mud 0.0	Spacer 24.9	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 2536	Final 1319	Average 323	Bump Plug to 1300	Breakdown	Type		Volume	Density		
Avg. N2 Percent		Designed Slurry Volume 146.0 bbl		Displacement 155.2 bbl		Mix Water Temp 62 degF		Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume
								Washed Thru Perfs <input type="checkbox"/>		To
Customer or Authorized Representative CODY HUSEBY				Schlumberger Supervisor JASON CRICK				Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
								-		-