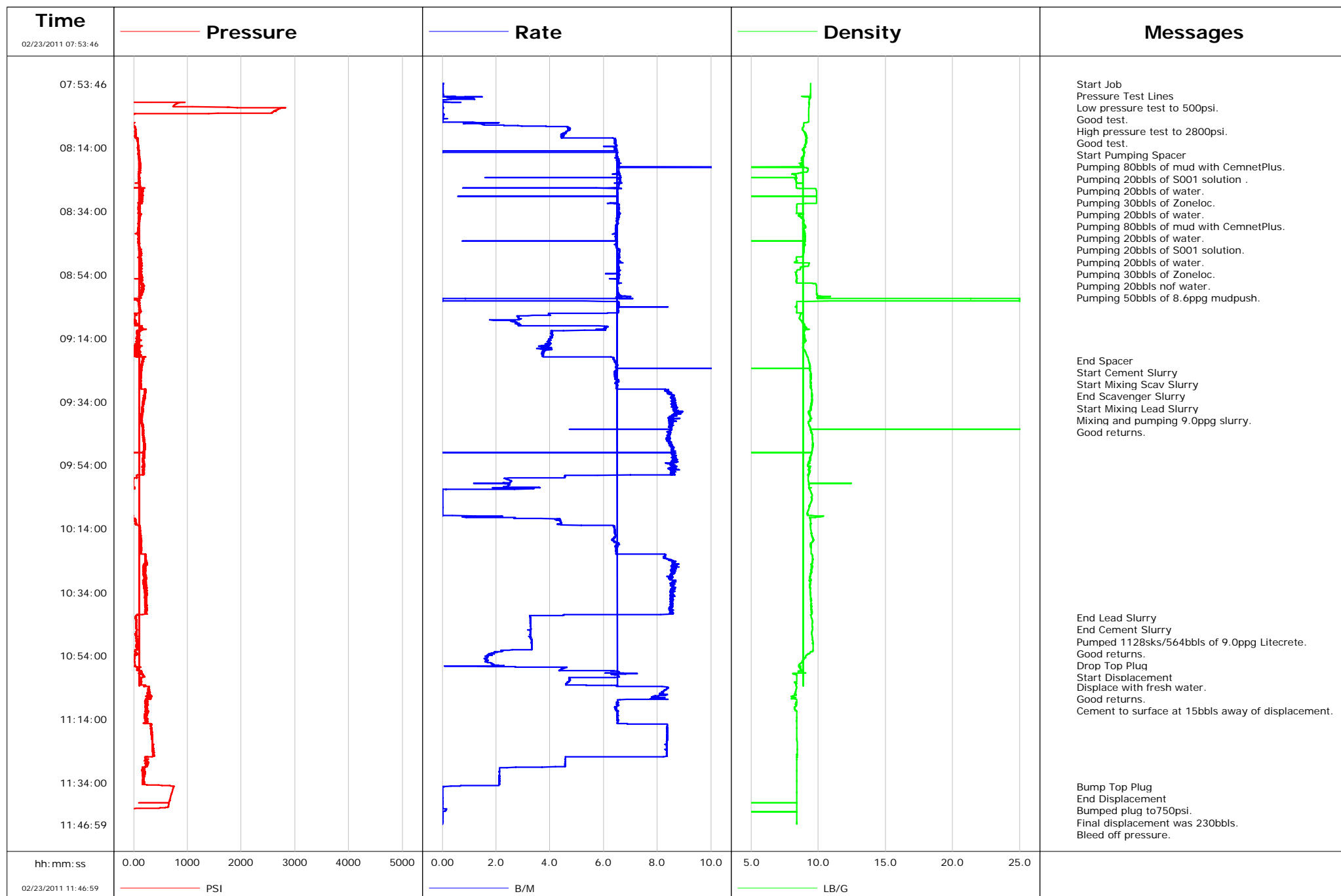


**Well** SGU 8515F-24  
**Field** STORY GULCH  
**Engineer** JEFF PATTERSON  
**Country** United States

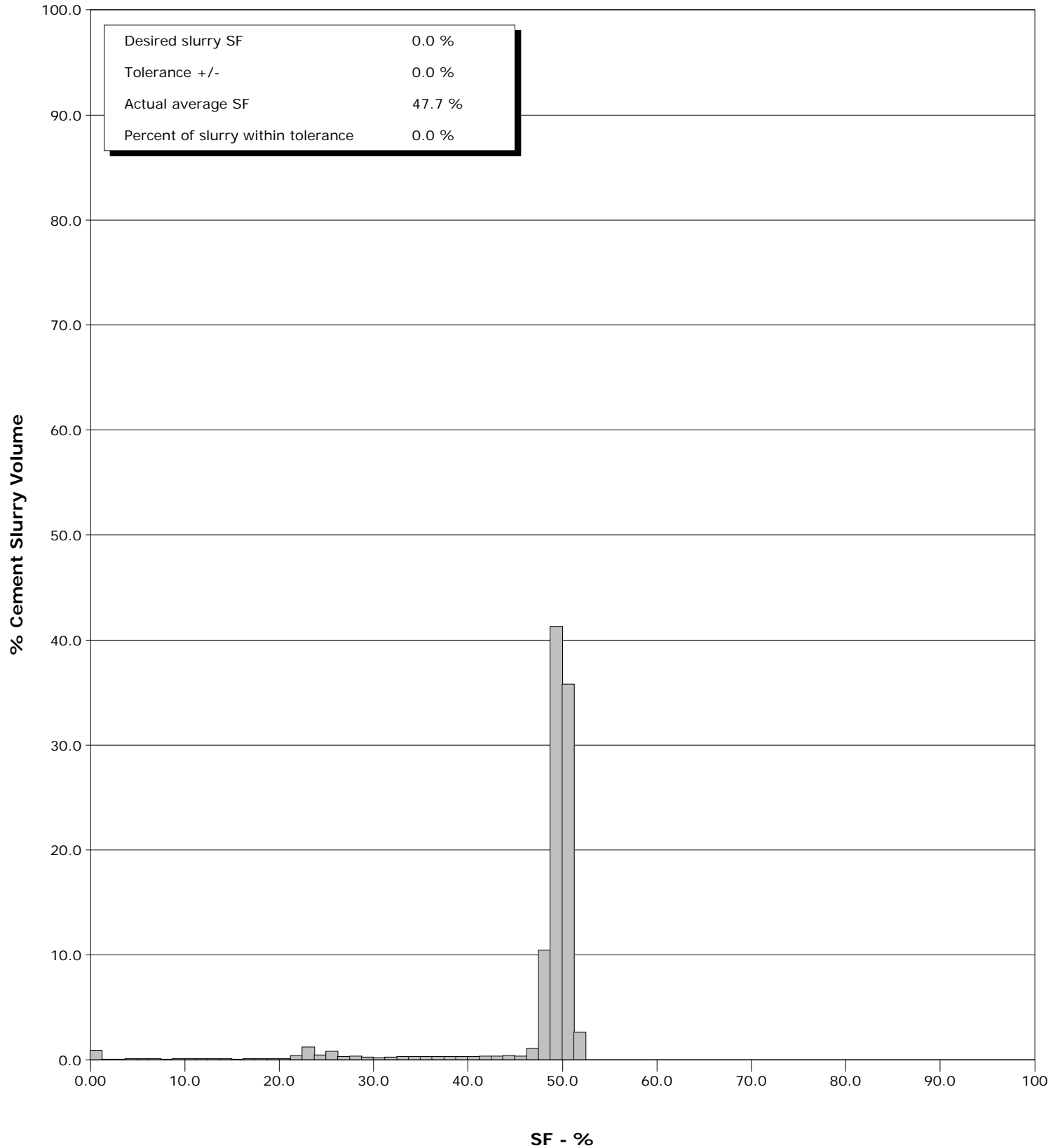
**Client** ENCAN  
**SIR No.** BJ90-00153  
**Job Type** 9 5/8" SURFACE  
**Job Date** 02-23-2011



**Well** SGU 8515F-24  
**Field** STORY GULCH  
**Engineer** JEFF PATTERSON  
**Country** United States

**Client** ENCANA  
**SIR No.** BJ90-00153  
**Job Type** 9 5/8" SURFACE  
**Job Date** 02-23-2011

Cement Slurry - 02/23/2011 09:21:03 to 02/23/2011 10:41:57



# Cementing Service Report

				Customer ENCANA				Job Number BJ90-00153			
Well SGU 8515F-24 SGU 8515F-24			Location (legal) F25			Schlumberger Location GRAND JUNCTION, COLORADO			Job Start Feb/23/2011		
Field STORY GULCH		Formation Name/Type SHALE		Deviation deg		Bit Size 14.8 in		Well MD 3021.0 ft		Well TVD 3021.0 ft	
County GARFIELD		State/Province Colorado		BHP psi		BHST 115 degF		BHCT 95 degF		Pore Press. Gradient lb/gal	
Well Master 0631238408		API/UWI									
Rig Name PATTERSON 306		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		3021.0		9.6		36.0	
						0.0		0.0		0.0	
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
										Weight, lb/ft	
										Grade	
										Thread	
Service Line Cementing		Job Type 9 5/8" SURFACE									
Max. Allowed Tub. Press 3000 psi		Max. Allowed Ann. Press psi		WH Connection 9 5/8" CEMENT HEAD		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
										No. of Shots	
										Total Interval ft	
										Diameter in	
						Treat Down Casing		Displacement 230.2 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 233.6 bbl		Annular Vol. 384.0 bbl	
										Openhole Vol. 635.0 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 1495 psi				Shoe Type Guide				Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 3021.0 ft				Tool Type			
No. Centralizers		Top Plugs 1		Bottom Plugs		Stage Tool Type				Tool Depth ft	
Cement Head Type Single						Stage Tool Depth ft				Tail Pipe Size in	
Job Scheduled For Feb/23/2011		Arrived on Location Feb/23/2011		Leave Location Feb/23/2011		Collar Type Float				Tail Pipe Depth ft	
						Collar Depth 2977.0 ft				Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message					
02/23/2011	07:53:46	-63	0.0	9.44	0.1	Started Acquisition					
02/23/2011	07:53:47	-63	0.0	9.44	0.1	Start Job					
02/23/2011	07:53:49	-63	0.0	9.44	0.1	Pressure Test Lines					
02/23/2011	07:53:50	-63	0.0	9.44	0.1	Low pressure test to 500psi.					
02/23/2011	07:53:51	-63	0.0	9.44	0.1	Good test.					
02/23/2011	07:53:53	-63	0.0	9.44	0.1	Start Pumping Spacer					
02/23/2011	07:53:55	-63	0.0	9.44	0.1	Pumping 80bbls of mud with CemnetPlus.					
02/23/2011	07:53:56	-63	0.0	9.44	0.1	Pumping 20bbls of water.					
02/23/2011	07:53:57	-63	0.0	9.44	0.1	Pumping 30bbls of Zonoloc.					
02/23/2011	07:55:26	-63	0.0	9.44	0.1						
02/23/2011	07:57:06	-66	0.0	9.44	0.2						
02/23/2011	07:58:46	-49	1.2	9.35	0.9						
02/23/2011	08:00:26	776	0.0	9.31	1.1						
02/23/2011	08:02:06	2672	0.0	9.30	1.1						
02/23/2011	08:03:46	-13	0.1	9.30	1.1						
02/23/2011	08:05:26	-26	0.0	9.29	1.2						
02/23/2011	08:07:06	-6	2.3	8.92	2.9						
02/23/2011	08:08:46	39	4.6	8.91	10.3						
02/23/2011	08:10:26	28	4.5	9.08	17.8						
02/23/2011	08:12:06	77	6.4	9.09	27.3						
02/23/2011	08:13:46	85	6.5	9.03	38.1						

Well SGU 8515F-24 SGU 8515F-24			Field STORY GULCH		Job Start Feb/23/2011	Customer ENCANA	Job Number BJ90-00153
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
02/23/2011	08:17:06	92	6.5	8.86	59.6		
02/23/2011	08:18:46	102	6.6	8.80	70.5		
02/23/2011	08:20:26	121	6.6	9.13	81.5		
02/23/2011	08:22:06	109	6.6	8.64	10.5		
02/23/2011	08:23:46	113	6.6	8.38	2.0		
02/23/2011	08:25:26	107	6.6	8.38	13.0		
02/23/2011	08:27:06	144	6.5	9.82	1.3		
02/23/2011	08:28:46	136	6.5	9.87	12.2		
02/23/2011	08:30:26	144	6.5	9.87	23.0		
02/23/2011	08:32:06	105	6.6	8.40	3.7		
02/23/2011	08:33:46	111	6.6	8.39	14.6		
02/23/2011	08:35:26	129	6.5	8.58	2.4		
02/23/2011	08:37:06	107	6.5	8.92	13.3		
02/23/2011	08:38:46	101	6.5	9.05	24.1		
02/23/2011	08:40:26	101	6.5	8.98	34.9		
02/23/2011	08:42:06	91	6.5	9.01	45.6		
02/23/2011	08:43:46	83	6.5	8.97	56.4		
02/23/2011	08:45:26	97	6.5	8.94	67.2		
02/23/2011	08:47:06	115	6.6	8.93	78.1		
02/23/2011	08:48:46	125	6.6	8.38	89.1		
02/23/2011	08:50:26	158	6.5	9.33	1.4		
02/23/2011	08:52:06	143	6.5	8.69	12.3		
02/23/2011	08:53:46	136	6.5	8.33	2.5		
02/23/2011	08:55:26	133	6.5	8.40	13.4		
02/23/2011	08:57:06	153	6.5	9.85	2.2		
02/23/2011	08:58:46	175	6.5	9.88	13.0		
02/23/2011	09:00:26	148	6.6	9.90	23.9		
02/23/2011	09:02:06	69	0.0	25.00	31.2		
02/23/2011	09:03:46	110	6.6	8.39	9.0		
02/23/2011	09:05:26	123	6.5	8.39	19.9		
02/23/2011	09:07:06	23	2.8	8.65	1.7		
02/23/2011	09:08:46	21	2.6	8.80	6.2		
02/23/2011	09:10:26	134	6.1	8.98	11.8		
02/23/2011	09:12:06	78	4.1	8.95	20.9		
02/23/2011	09:13:46	91	4.1	8.97	27.7		
02/23/2011	09:15:26	64	4.0	8.98	34.3		
02/23/2011	09:17:06	51	4.0	8.87	40.8		
02/23/2011	09:18:46	12	3.8	9.10	47.2		
02/23/2011	09:20:26	188	6.4	9.25	6.6		
02/23/2011	09:21:02	165	6.4	9.29	10.4	End Spacer	
02/23/2011	09:21:03	168	6.4	9.29	10.5	Start Cement Slurry	
02/23/2011	09:21:04	168	6.4	9.30	10.6	Start Mixing Scav Slurry	
02/23/2011	09:22:06	141	6.5	9.36	17.2		
02/23/2011	09:22:21	153	6.5	9.38	18.9	End Scavenger Slurry	
02/23/2011	09:22:22	159	6.5	9.38	19.0	Start Mixing Lead Slurry	
02/23/2011	09:22:23	166	6.5	9.39	19.1	Mixing and pumping 9.0ppg slurry.	
02/23/2011	09:22:24	151	6.5	9.37	19.2	Good returns.	
02/23/2011	09:23:46	138	6.5	9.39	28.1		
02/23/2011	09:25:26	117	6.4	9.45	38.8		
02/23/2011	09:27:06	124	6.5	9.44	49.6		
02/23/2011	09:28:46	134	6.5	9.45	60.4		
02/23/2011	09:30:26	209	8.3	9.50	71.8		
02/23/2011	09:32:06	209	8.6	9.54	85.9		
02/23/2011	09:33:46	190	8.6	9.54	100.2		

Well SGU 8515F-24 SGU 8515F-24			Field STORY GULCH		Job Start Feb/23/2011		Customer ENCANA		Job Number BJ90-00153	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
02/23/2011	09:37:06	156	8.8	9.35	128.9					
02/23/2011	09:38:46	157	8.6	9.42	143.4					
02/23/2011	09:40:26	154	8.6	9.27	157.6					
02/23/2011	09:42:06	185	8.5	9.39	171.8					
02/23/2011	09:43:46	182	8.5	9.50	185.9					
02/23/2011	09:45:26	186	8.4	9.56	199.9					
02/23/2011	09:47:06	200	8.5	9.61	213.9					
02/23/2011	09:48:46	193	8.6	9.58	228.1					
02/23/2011	09:50:26	197	8.5	9.52	242.4					
02/23/2011	09:52:06	175	8.6	9.41	256.8					
02/23/2011	09:53:46	194	8.5	9.25	271.0					
02/23/2011	09:55:26	181	8.7	9.26	285.3					
02/23/2011	09:57:06	156	8.6	9.29	299.6					
02/23/2011	09:58:46	-4	2.5	9.26	306.0					
02/23/2011	10:00:26	-10	2.5	9.32	310.1					
02/23/2011	10:02:06	-44	0.0	9.42	313.4					
02/23/2011	10:03:46	-45	0.0	9.55	313.4					
02/23/2011	10:05:26	-45	0.0	9.50	313.4					
02/23/2011	10:07:06	-46	0.0	9.34	313.4					
02/23/2011	10:08:46	-35	0.0	9.22	313.4					
02/23/2011	10:10:26	-30	0.9	9.80	314.3					
02/23/2011	10:12:06	41	4.4	9.44	320.7					
02/23/2011	10:13:46	112	6.4	9.43	329.6					
02/23/2011	10:15:26	128	6.4	9.50	340.3					
02/23/2011	10:17:06	134	6.4	9.60	351.0					
02/23/2011	10:18:46	127	6.5	9.45	361.7					
02/23/2011	10:20:26	138	6.5	9.46	372.5					
02/23/2011	10:22:06	203	8.2	9.55	383.3					
02/23/2011	10:23:46	233	8.5	9.61	397.2					
02/23/2011	10:25:26	249	8.7	9.51	411.5					
02/23/2011	10:27:06	222	8.6	9.48	425.8					
02/23/2011	10:28:46	230	8.5	9.41	440.1					
02/23/2011	10:30:26	219	8.7	9.35	454.3					
02/23/2011	10:32:06	206	8.5	9.42	468.5					
02/23/2011	10:33:46	245	8.6	9.39	482.8					
02/23/2011	10:35:26	217	8.5	9.45	497.0					
02/23/2011	10:37:06	222	8.5	9.47	511.2					
02/23/2011	10:38:46	234	8.4	9.50	525.4					
02/23/2011	10:40:26	232	8.5	9.52	539.6					
02/23/2011	10:41:56	47	3.3	9.49	548.2	End Lead Slurry				
02/23/2011	10:41:57	36	3.3	9.49	548.2	End Cement Slurry				
02/23/2011	10:41:59	38	3.3	9.50	548.3	Pumped 1128sks/564bbls of 9.0ppg Litecrete.				
02/23/2011	10:42:02	36	3.3	9.50	548.5	Drop Top Plug				
02/23/2011	10:42:03	37	3.3	9.50	548.6	Start Displacement				
02/23/2011	10:42:06	35	3.3	9.50	548.7					
02/23/2011	10:43:46	46	3.3	9.56	554.2					
02/23/2011	10:45:26	47	3.3	9.58	559.6					
02/23/2011	10:47:06	53	3.3	9.53	565.1					
02/23/2011	10:48:46	61	3.3	9.58	570.6					
02/23/2011	10:50:26	58	3.3	9.61	576.1					
02/23/2011	10:52:06	64	3.3	9.61	581.7					
02/23/2011	10:53:46	21	1.8	9.13	0.1					
02/23/2011	10:55:26	8	1.7	8.85	2.9					
02/23/2011	10:57:06	30	2.2	8.57	5.8					

Well SGU 8515F-24 SGU 8515F-24			Field STORY GULCH		Job Start Feb/23/2011		Customer ENCANA		Job Number BJ90-00153	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G		Volume BBL	Message		
02/23/2011	11:00:26	190		6.5	8.42		23.0			
02/23/2011	11:02:06	119		4.7	8.42		31.7			
02/23/2011	11:03:46	279		8.2	8.39		40.3			
02/23/2011	11:03:53	275		8.4	8.39		41.3	Displace with fresh water.		
02/23/2011	11:03:54	275		8.4	8.39		41.4	Cement to surface at 15bbls away of displacement.		
02/23/2011	11:05:26	300		8.2	8.30		54.1			
02/23/2011	11:07:06	311		8.2	8.29		67.6			
02/23/2011	11:08:46	252		6.5	8.38		79.6			
02/23/2011	11:10:26	242		6.4	8.21		90.5			
02/23/2011	11:12:06	257		6.5	8.41		101.3			
02/23/2011	11:13:46	230		6.5	8.41		112.1			
02/23/2011	11:15:26	223		6.5	8.41		123.0			
02/23/2011	11:17:06	335		8.4	8.41		136.8			
02/23/2011	11:18:46	339		8.4	8.41		150.7			
02/23/2011	11:20:26	347		8.4	8.41		164.6			
02/23/2011	11:22:06	353		8.3	8.46		178.5			
02/23/2011	11:23:46	347		8.3	8.44		192.4			
02/23/2011	11:25:26	354		8.3	8.42		206.3			
02/23/2011	11:27:06	205		4.6	8.42		215.5			
02/23/2011	11:28:46	228		4.6	8.41		223.1			
02/23/2011	11:30:26	191		2.1	8.41		227.5			
02/23/2011	11:32:06	177		2.1	8.41		231.1			
02/23/2011	11:35:08	747		0.1	8.40		237.2	Bump Top Plug		
02/23/2011	11:35:09	751		0.1	8.40		237.2	End Displacement		
02/23/2011	11:35:11	749		0.0	8.40		237.2	Bumped plug to750psi.		
02/23/2011	11:35:12	749		0.0	8.40		237.2	Floats held.		
02/23/2011	11:35:13	749		0.0	8.40		237.2	Good returns for most of the job.		
02/23/2011	11:35:26	742		0.0	8.40		237.2			
02/23/2011	11:37:06	711		0.0	8.40		237.2			
02/23/2011	11:38:46	682		0.0	8.40		237.2			
02/23/2011	11:40:26	658		0.0	8.40		237.3			
02/23/2011	11:42:06	212		0.0	8.40		237.3			
02/23/2011	11:43:46	-58		0.0	8.40		237.4			

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl				
Slurry 5.7	N2	Mud	Maximum Rate 1246.4	Total Slurry 1279.2	Mud 0.0	Spacer 436.6	N2		
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum 2818	Final -58	Average 195	Bump Plug to 750	Breakdown	Type	Volume bbl	Density lb/gal		
Avg. N2 Percent %		Designed Slurry Volume 0.0 bbl		Displacement 273.8 bbl	Mix Water Temp 75 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 215.0 bbl		
						Washed Thru Perfs <input type="checkbox"/>	To ft		
Customer or Authorized Representative FLOYD ROBERTS			Schlumberger Supervisor JEFF PATTERSON			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>		
						-	-		