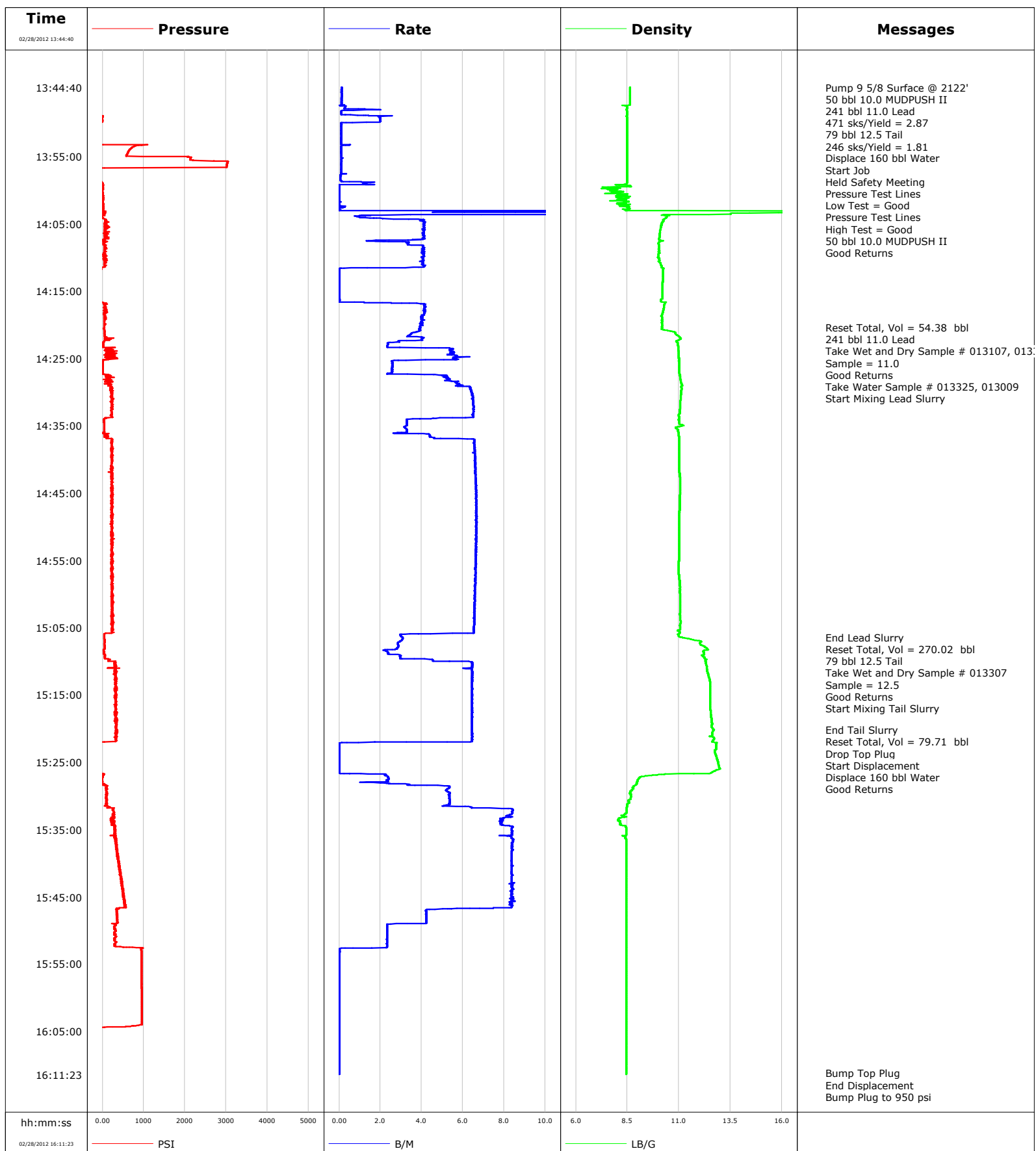


Well SGU 8509B-21
Field STORY GULCH
Engineer Tom Leduc
Country United States

Client ENCANA
SIR No.
Job Type 9 5/8 SURFACE
Job Date 02-28-2012





Cementing Service Report

				Customer ENCANA		Job Number COBA-00253		
Well SGU 8509B-21 8509B			Location (legal) N22		Schlumberger Location Grand Junction		Job Start Feb/28/2012	
Field STORY GULCH		Formation Name/Type Shale		Deviation 0 deg	Bit Size 14.8 in	Well MD 2122.0 ft		Well TVD 2122.0 ft
County GARFIELD		State/Province Colorado		BHP	BHST 110 degF	BHCT 91 degF	Pore Press. Gradient	
Well Master 0631363325		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	2122.0	9.630	36.0	K55	8rd	
			0.0	0.000	0.0			
Drilling Fluid Type Bentonite		Max. Density 9.00 lb/gal	Plastic Viscosity 20.000 cP	Tubing/Drill Pipe				
				Depth,	Size,	Weight,	Grade	Thread
Service Line Cementing	Job Type 9 5/8 SURFACE							
Max. Allowed Tub. Press 3000 psi	Max. Allowed Ann. Press 1000 psi	WH Connection Single Cement head	Perforations/Open Hole					
			Top,	Bottom,		No. of Shots	Total Interval	
Service Instructions							Diameter	
			Treat Down Casing	Displacement 160.0 bbl	Packer Type	Packer Depth		
Tubing Vol.	Casing Vol. 164.0 bbl	Annular Vol. 259.0 bbl	Openhole Vol. 425.0 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 1050 psi			Shoe Type Float			Squeeze Type		
Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>	Shoe Depth 2122.0 ft			Tool Type			
No. Centralizers 20	Top Plugs 1	Bottom Plugs 0	Stage Tool Type			Tool Depth		
Cement Head Type Single			Stage Tool Depth			Tail Pipe Size		
Job Scheduled For Feb/28/2012 11:00	Arrived on Location Feb/28/2012 11:00	Leave Location Feb/28/2012 19:00	Collar Type Float			Tail Pipe Depth		
			Collar Depth 2076.0 ft			Sqz. Total Vol.		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
02/28/2012	13:44:40					Pump 9 5/8 Surface @ 2122'		
02/28/2012	13:44:40					50 bbl 10.0 MUDPUSH II		
02/28/2012	13:44:40	-52	0.1	8.64	0.0			
02/28/2012	13:44:41					241 bbl 11.0 Lead		
02/28/2012	13:44:41					471 sks/Yield = 2.87		
02/28/2012	13:44:41					79 bbl 12.5 Tail		
02/28/2012	13:44:41					246 sks/Yield = 1.81		
02/28/2012	13:44:41					Displace 160 bbl Water		
02/28/2012	13:44:41	-52	0.1	8.64	0.0			
02/28/2012	13:44:43					Start Job		
02/28/2012	13:44:43					Held Safety Meeting		
02/28/2012	13:44:43	-52	0.1	8.64	0.0			
02/28/2012	13:44:44					Pressure Test Lines		
02/28/2012	13:44:44	-52	0.1	8.64	0.0			
02/28/2012	13:44:45					Low Test = Good		
02/28/2012	13:44:45	-52	0.1	8.64	0.0			
02/28/2012	13:44:47					Pressure Test Lines		
02/28/2012	13:44:47	-52	0.1	8.64	0.0			
02/28/2012	13:44:48					High Test = Good		
02/28/2012	13:44:48	-52	0.1	8.64	0.0			
02/28/2012	13:44:49					50 bbl 10.0 MUDPUSH II		

Well			Field		Job Start		Customer		Job Number	
SGU 8509B-21 8509B			STORY GULCH		Feb/28/2012		ENCANA		COBA-00253	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G		Volume BBL		Message	
02/28/2012	13:44:49	-52		0.1	8.64		0.0			
02/28/2012	13:46:45	-51		0.1	8.64		0.3			
02/28/2012	13:48:50	-41		0.5	8.48		0.9			
02/28/2012	13:50:55	-33		0.1	8.48		3.1			
02/28/2012	13:53:00	-33		0.1	8.49		3.3			
02/28/2012	13:55:05	2067		0.1	8.48		3.5			
02/28/2012	13:57:10	-30		0.1	8.48		3.7			
02/28/2012	13:59:15	-32		0.0	8.10		4.4			
02/28/2012	14:01:20	-12		0.0	8.11		4.4			
02/28/2012	14:03:25	41		11.8	13.86		7.4			
02/28/2012	14:05:30	167		4.1	10.12		15.9			
02/28/2012	14:07:35	-22		2.1	10.16		24.0			
02/28/2012	14:09:40	22		4.1	10.01		32.0			
02/28/2012	14:11:45	-7		0.0	10.24		39.6			
02/28/2012	14:13:50	-36		0.0	10.21		39.6			
02/28/2012	14:15:55	-34		0.0	10.20		39.6			
02/28/2012	14:18:00	36		4.1	10.23		44.9			
02/28/2012	14:20:05	39		4.0	10.18		53.3			
02/28/2012	14:20:21								Reset Total, Vol = 54.38 bbl	
02/28/2012	14:20:21								241 bbl 11.0 Lead	
02/28/2012	14:20:21								Take Wet and Dry Sample # 013107, 013312	
02/28/2012	14:20:21	40		3.9	10.16		54.4			
02/28/2012	14:20:22								Sample = 11.0	
02/28/2012	14:20:22								Good Returns	
02/28/2012	14:20:22								Take Water Sample # 013325, 013009	
02/28/2012	14:20:22	40		3.9	10.17		54.4			
02/28/2012	14:21:34								Start Mixing Lead Slurry	
02/28/2012	14:21:34	54		3.4	10.93		58.9			
02/28/2012	14:22:10	68		4.0	11.06		61.2			
02/28/2012	14:24:15	138		5.4	10.99		69.1			
02/28/2012	14:26:20	11		2.6	11.01		77.5			
02/28/2012	14:28:25	196		5.8	11.08		85.6			
02/28/2012	14:30:30	225		6.5	11.09		98.5			
02/28/2012	14:32:35	239		6.5	11.05		112.0			
02/28/2012	14:34:40	42		3.3	11.02		123.1			
02/28/2012	14:36:45	106		4.6	11.01		130.5			
02/28/2012	14:38:50	217		6.6	11.02		143.8			
02/28/2012	14:40:55	212		6.6	11.01		157.5			
02/28/2012	14:43:00	235		6.6	11.06		171.3			
02/28/2012	14:45:05	244		6.6	11.05		185.1			
02/28/2012	14:47:10	212		6.7	11.03		199.0			
02/28/2012	14:49:15	211		6.7	11.01		212.8			
02/28/2012	14:51:20	239		6.6	11.02		226.7			
02/28/2012	14:53:25	239		6.6	11.02		240.5			
02/28/2012	14:55:30	224		6.6	11.00		254.3			
02/28/2012	14:57:35	227		6.6	11.02		268.1			
02/28/2012	14:59:40	227		6.6	11.05		281.8			
02/28/2012	15:01:45	229		6.6	11.06		295.5			
02/28/2012	15:03:50	257		6.5	11.07		309.2			
02/28/2012	15:05:55	62		3.8	11.01		322.7			
02/28/2012	15:06:26								End Lead Slurry	
02/28/2012	15:06:26	40		3.1	11.10		324.3			
02/28/2012	15:06:28								Reset Total, Vol = 270.02 bbl	
02/28/2012	15:06:28								79 bbl 12.5 Tail	

Well			Field		Job Start	Customer	Job Number
SGU 8509B-21 8509B			STORY GULCH		Feb/28/2012	ENCANA	C0BA-00253
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
02/28/2012	15:06:28					Sample = 12.5	
02/28/2012	15:06:28					Good Returns	
02/28/2012	15:06:28	41	3.1	11.17	324.4		
02/28/2012	15:08:00	51	2.8	12.33	328.9		
02/28/2012	15:08:01					Start Mixing Tail Slurry	
02/28/2012	15:08:01	52	2.8	12.33	328.9		
02/28/2012	15:10:05	327	6.4	12.32	335.3		
02/28/2012	15:12:10	301	6.5	12.44	348.7		
02/28/2012	15:14:15	348	6.5	12.52	362.2		
02/28/2012	15:16:20	312	6.4	12.51	375.6		
02/28/2012	15:18:25	340	6.4	12.57	389.1		
02/28/2012	15:20:10					End Tail Slurry	
02/28/2012	15:20:10	323	6.5	12.69	400.3		
02/28/2012	15:20:30	329	6.5	12.63	402.5		
02/28/2012	15:20:45					Reset Total, Vol = 79.71 bbl	
02/28/2012	15:20:45	361	6.4	12.61	404.1		
02/28/2012	15:20:46					Drop Top Plug	
02/28/2012	15:20:46					Start Displacement	
02/28/2012	15:20:46	356	6.5	12.61	404.2		
02/28/2012	15:20:47					Displace 160 bbl Water	
02/28/2012	15:20:47					Good Returns	
02/28/2012	15:20:47	356	6.5	12.61	404.3		
02/28/2012	15:22:35	-37	0.0	12.79	412.2		
02/28/2012	15:24:40	-38	0.0	12.86	412.2		
02/28/2012	15:26:45	45	1.8	10.34	412.3		
02/28/2012	15:28:50	82	5.3	8.77	418.4		
02/28/2012	15:30:55	96	5.4	8.57	429.5		
02/28/2012	15:33:00	260	8.2	8.30	444.4		
02/28/2012	15:35:05	294	8.4	8.44	461.2		
02/28/2012	15:37:10	318	8.4	8.44	478.7		
02/28/2012	15:39:15	370	8.4	8.44	496.1		
02/28/2012	15:41:20	427	8.4	8.44	513.6		
02/28/2012	15:43:25	494	8.4	8.44	531.0		
02/28/2012	15:45:30	533	8.4	8.44	548.5		
02/28/2012	15:47:35	358	4.2	8.44	562.4		
02/28/2012	15:49:40	311	2.3	8.44	569.9		
02/28/2012	15:51:45	339	2.3	8.44	574.7		
02/28/2012	15:53:50	946	0.0	8.44	576.7		
02/28/2012	15:55:55	948	0.0	8.44	576.8		
02/28/2012	15:58:00	952	0.0	8.45	576.8		
02/28/2012	16:00:05	954	0.0	8.44	576.8		
02/28/2012	16:02:10	958	0.0	8.45	576.8		
02/28/2012	16:04:15	649	0.0	8.45	576.9		
02/28/2012	16:06:20	-39	0.0	8.45	576.9		
02/28/2012	16:08:25	-40	0.0	8.45	576.9		
02/28/2012	16:10:30	-41	0.0	8.45	576.9		
02/28/2012	16:11:10					Bump Top Plug	
02/28/2012	16:11:10	-41	0.0	8.45	576.9		
02/28/2012	16:11:11					End Displacement	
02/28/2012	16:11:11	-42	0.0	8.45	576.9		
02/28/2012	16:11:12					Bump Plug to 950 psi	
02/28/2012	16:11:12	-41	0.0	8.45	576.9		
02/28/2012	16:11:13					Bled Off Pressure	
02/28/2012	16:11:13					0.5 bbl Back	

Well SGU 8509B-21 8509B			Field STORY GULCH		Job Start Feb/28/2012		Customer ENCANA		Job Number COBA-00253	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
02/28/2012	16:11:13					70 bbl Cement to Surface				
02/28/2012	16:11:13					Wait On Parasite Line				
02/28/2012	16:11:13	-41	0.0	8.45	576.9					
02/28/2012	17:11:13					Pump 10 bbl Sugar Water Through Parasite Line				
02/28/2012	17:11:13					Rig Down				

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 4.3	N2		Mud 0.0	Maximum Rate 12.0	Total Slurry 576.9	Mud 0.0	Spacer 58.9	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 3042	Final 0	Average 334	Bump Plug to 800	Breakdown	Type		Volume		Density	
Avg. N2 Percent		Designed Slurry Volume 320.0 bbl		Displacement 172.8 bbl		Mix Water Temp 65 degF		Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume
								Washed Thru Perfs <input type="checkbox"/>		To
Customer or Authorized Representative RICHARD MITCHELL				Schlumberger Supervisor Tom Leduc				Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
								-		-