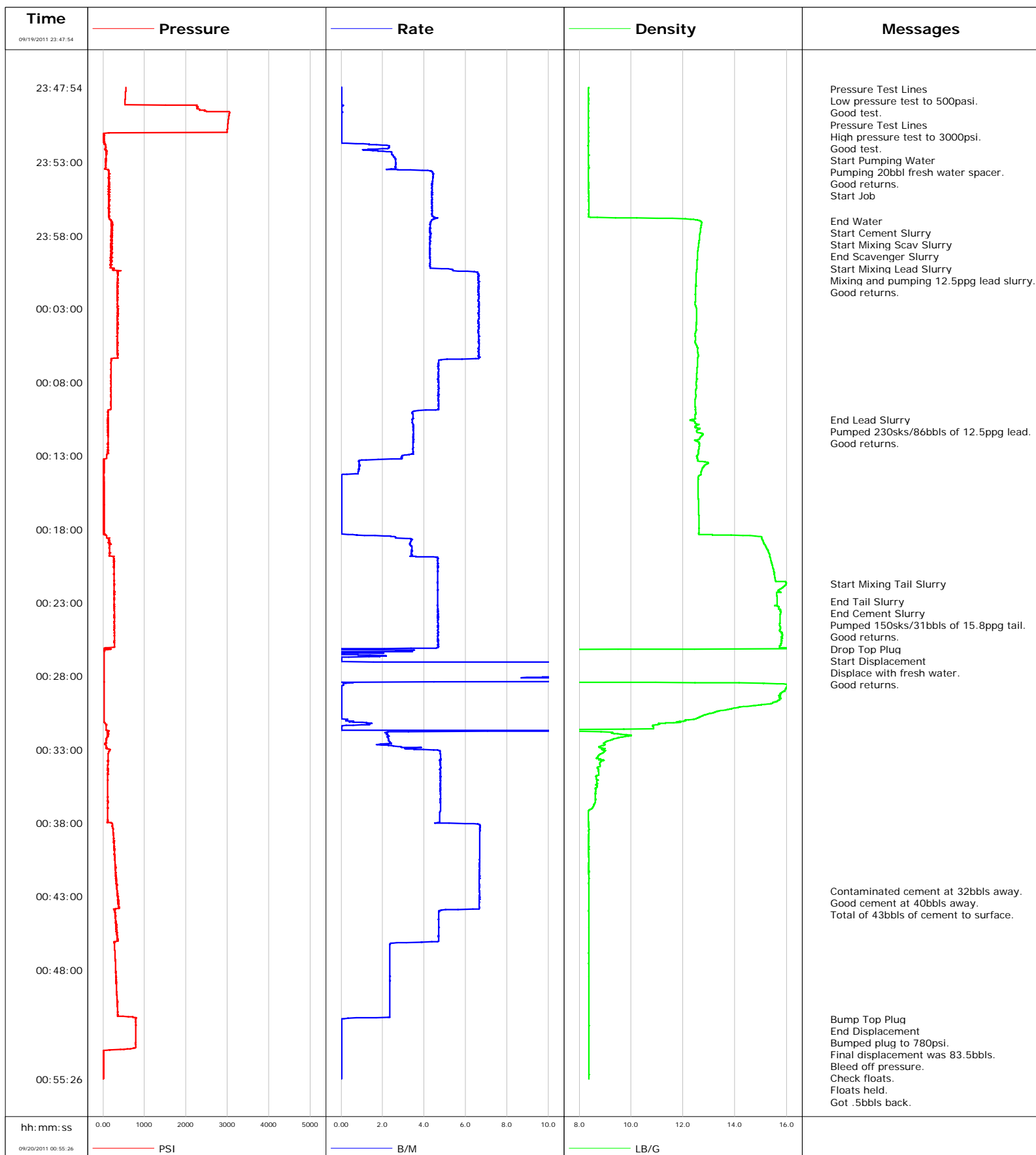


**Well** FEDERAL 25-5B  
**Field** S. PARACHUTE  
**Engineer** Jeff Patterson  
**Country** United States

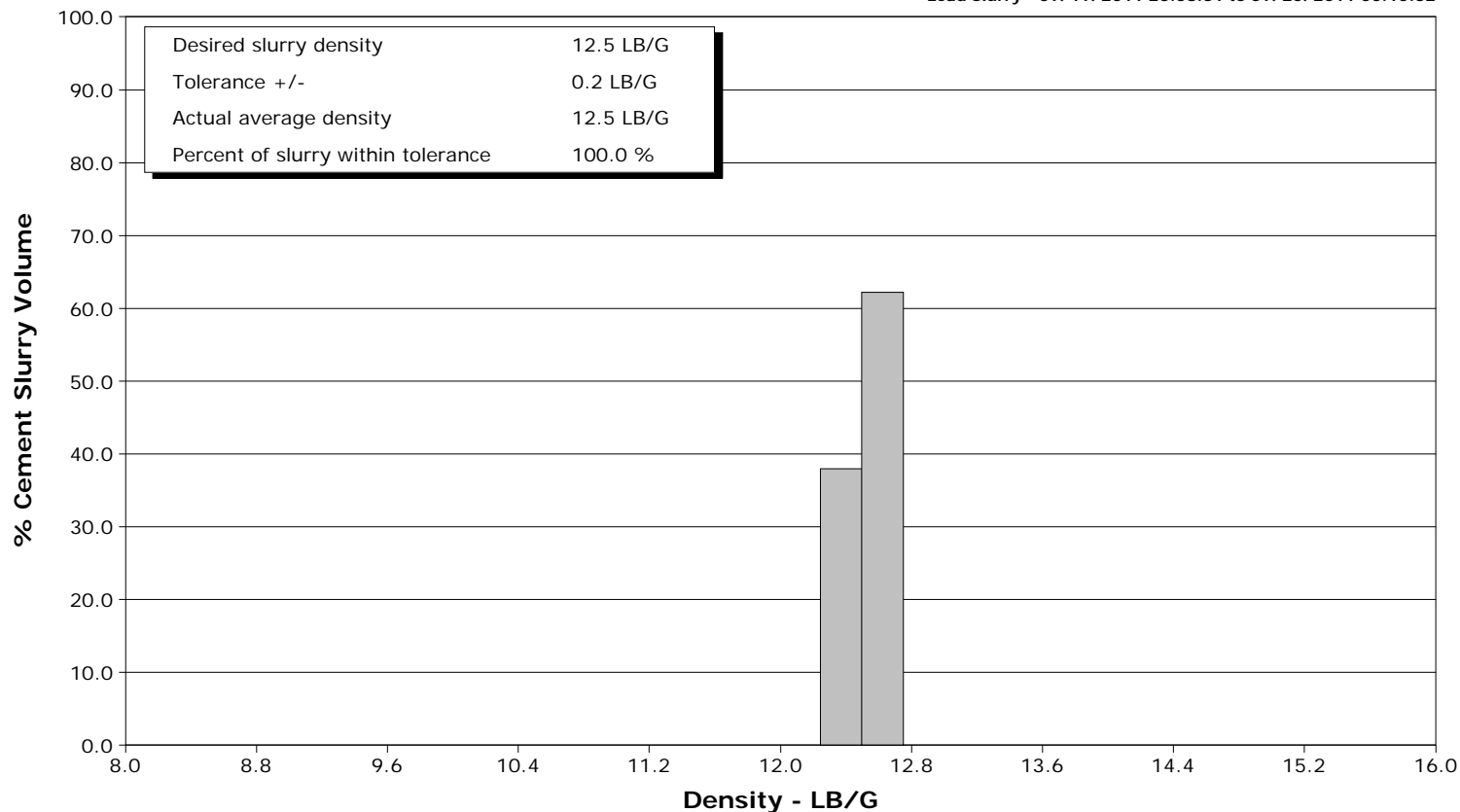
**Client** ENCANA  
**SIR No.** BQMF-00162  
**Job Type** 9 5/8" SURFACE  
**Job Date** 09-19-2011



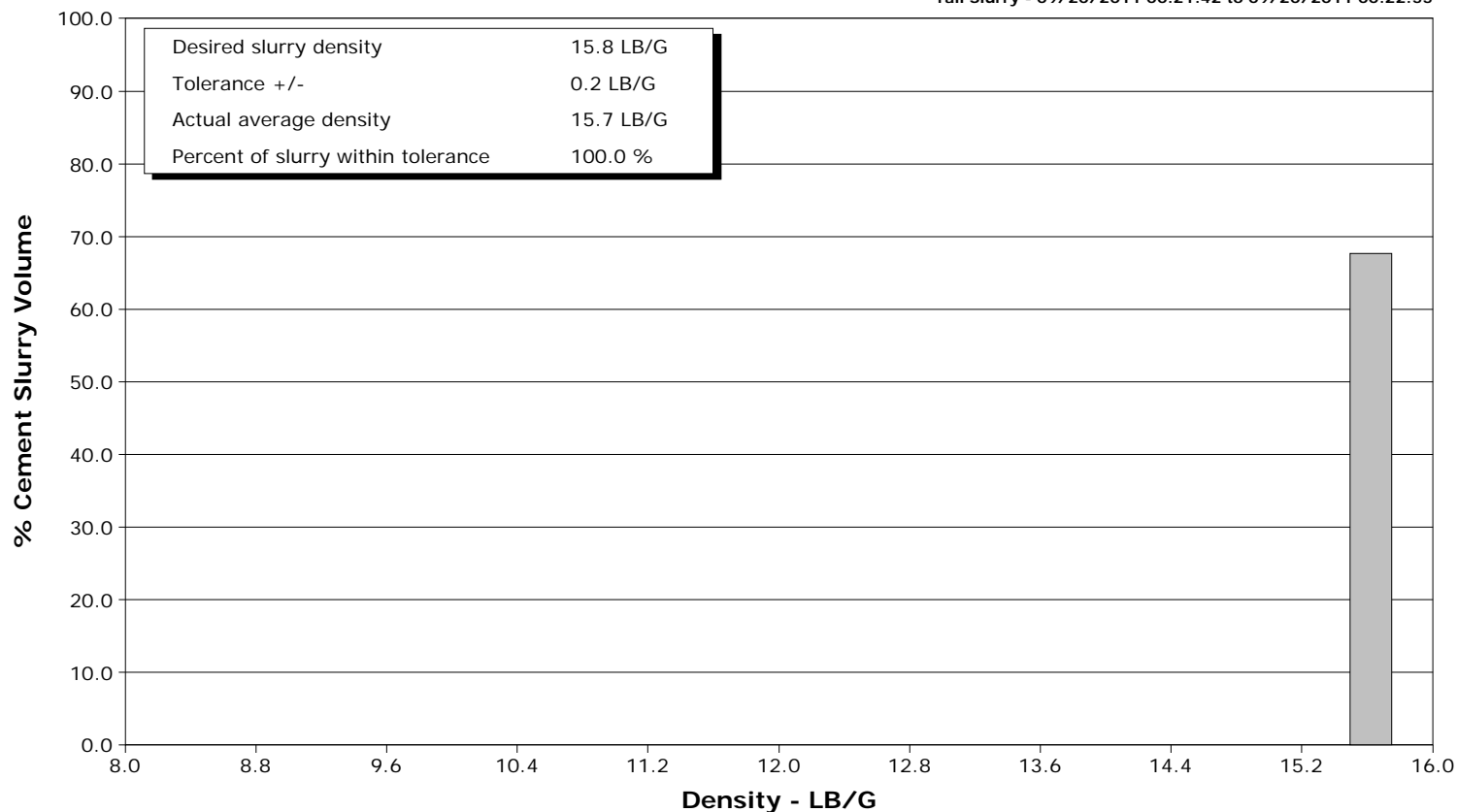
**Well** FEDERAL 25-5B  
**Field** S. PARACHUTE  
**Engineer** Jeff Patterson  
**Country** United States

**Client** ENCANA  
**SIR No.** BQMF-00162  
**Job Type** 9 5/8" SURFACE  
**Job Date** 09-19-2011

Lead Slurry - 09/19/2011 23:58:31 to 09/20/2011 00:10:32



Tail Slurry - 09/20/2011 00:21:42 to 09/20/2011 00:22:55





# Cementing Service Report

				Customer ENCANA		Job Number BQMF-00162	
Well FEDERAL 25-5B FEDERAL 25-5B			Location (legal) PE25		Schlumberger Location Grand Junction, Colorado		Job Start Sep/19/2011
Field S. PARACHUTE		Formation Name/Type SHALE		Deviation 0 deg	Bit Size 12.3 in	Well MD 1128.0 ft	Well TVD 1128.0 ft
County GARFIELD		State/Province Colorado		BHP	BHST 95 degF	BHCT 81 degF	Pore Press. Gradient
Well Master 0631277950		API/UWI					
Rig Name PATTERSON 330		Drilled For Gas	Service Via Land	Casing/Liner			
				Depth, ft	Size, in	Weight, lb/ft	Grade
Offshore Zone		Well Class New	Well Type Development	1128.0	9.630	36.0	J55
				0.0	0.000	0.0	
Drilling Fluid Type		Max. Density	Plastic Viscosity	Tubing/Drill Pipe			
				Depth,	Size,	Weight,	Grade
Service Line Cementing		Job Type 9 5/8" SURFACE					
Max. Allowed Tub. Press 3000 psi		Max. Allowed Ann. Press	WH Connection 9 5/8" CEMENT HEAD	Perforations/Open Hole			
				Top,	Bottom,	No. of Shots	Total Interval
							Diameter
				Treat Down Casing	Displacement 83.0 bbl	Packer Type	Packer Depth
				Tubing Vol.	Casing Vol. 87.0 bbl	Annular Vol. 66.0 bbl	Openhole Vol. 157.0 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 558 psi				Shoe Type Guide		Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1128.0 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 Sep/19/2011		Arrived on Location Sep/19/2011	Leave Location Sep/19/2011	Collar Type Float		Tail Pipe Depth	
				Collar Depth 1084.0 ft		Sqz. Total Vol.	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
09/19/2011	22:37:39					Started Acquisition	
09/19/2011	23:47:54	557	0.0	8.36	0.0		
09/19/2011	23:48:01					Pressure Test Lines	
09/19/2011	23:48:01	553	0.0	8.36	0.0		
09/19/2011	23:48:05					Low pressure test to 500psi.	
09/19/2011	23:48:05					Good test.	
09/19/2011	23:48:05	552	0.0	8.36	0.0		
09/19/2011	23:48:09	550	0.0	8.36	0.0		
09/19/2011	23:48:39	538	0.0	8.36	0.0		
09/19/2011	23:49:09	2257	0.1	8.36	0.0		
09/19/2011	23:49:39	3053	0.0	8.36	0.0		
09/19/2011	23:49:41					Pressure Test Lines	
09/19/2011	23:49:41	3049	0.0	8.36	0.0		
09/19/2011	23:49:42					High pressure test to 3000psi.	
09/19/2011	23:49:42	3048	0.0	8.36	0.0		
09/19/2011	23:49:43					Good test.	
09/19/2011	23:49:43	3048	0.0	8.36	0.0		
09/19/2011	23:49:46					Start Pumping Water	
09/19/2011	23:49:46	3042	0.0	8.36	0.0		
09/19/2011	23:49:48					Pumping 20bbl fresh water spacer.	
09/19/2011	23:49:48					Good returns.	

Well FEDERAL 25-5B FEDERAL 25-5B			Field S. PARACHUTE		Job Start Sep/19/2011	Customer ENCANA	Job Number BQMF-00162
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
09/19/2011	23:50:09	3021	0.0	8.36	0.0		
09/19/2011	23:50:39	3003	0.0	8.36	0.0		
09/19/2011	23:51:09	21	0.0	8.36	0.0		
09/19/2011	23:51:39	23	0.0	8.36	0.0		
09/19/2011	23:52:09	70	1.3	8.36	0.8		
09/19/2011	23:52:39	72	2.5	8.36	1.9		
09/19/2011	23:53:09	70	2.7	8.36	3.2		
09/19/2011	23:53:39	139	4.4	8.36	4.7		
09/19/2011	23:54:04					Start Job	
09/19/2011	23:54:04	138	4.4	8.36	6.5		
09/19/2011	23:54:09	142	4.4	8.36	6.9		
09/19/2011	23:54:39	128	4.4	8.36	9.1		
09/19/2011	23:55:09	151	4.4	8.36	11.3		
09/19/2011	23:55:39	136	4.4	8.36	13.5		
09/19/2011	23:56:09	143	4.4	8.36	15.7		
09/19/2011	23:56:39	146	4.4	8.36	17.9		
09/19/2011	23:57:00					End Water	
09/19/2011	23:57:00	202	4.4	12.65	19.4		
09/19/2011	23:57:03					Start Cement Slurry	
09/19/2011	23:57:03	200	4.3	12.69	19.6		
09/19/2011	23:57:04					Start Mixing Scav Slurry	
09/19/2011	23:57:04	200	4.3	12.70	19.7		
09/19/2011	23:57:09	204	4.3	12.72	20.1		
09/19/2011	23:57:39	204	4.3	12.67	22.2		
09/19/2011	23:58:09	193	4.3	12.63	24.4		
09/19/2011	23:58:30					End Scavenger Slurry	
09/19/2011	23:58:30	197	4.3	12.61	25.9		
09/19/2011	23:58:31					Start Mixing Lead Slurry	
09/19/2011	23:58:31	191	4.3	12.61	25.9		
09/19/2011	23:58:33					Mixing and pumping 12.5ppg lead slurry.	
09/19/2011	23:58:33	229	4.3	12.60	26.1		
09/19/2011	23:58:34					Good returns.	
09/19/2011	23:58:34	186	4.3	12.60	26.2		
09/19/2011	23:58:39	200	4.3	12.60	26.5		
09/19/2011	23:59:09	218	4.3	12.56	28.7		
09/19/2011	23:59:39	195	4.3	12.55	30.8		
09/20/2011	00:00:09	182	4.3	12.54	32.9		
09/20/2011	00:00:39	350	6.6	12.51	35.8		
09/20/2011	00:01:09	351	6.6	12.50	39.1		
09/20/2011	00:01:39	355	6.6	12.49	42.4		
09/20/2011	00:02:09	343	6.6	12.49	45.7		
09/20/2011	00:02:39	340	6.6	12.47	49.0		
09/20/2011	00:03:09	356	6.7	12.52	52.3		
09/20/2011	00:03:39	345	6.6	12.52	55.7		
09/20/2011	00:04:09	348	6.6	12.51	59.0		
09/20/2011	00:04:39	352	6.6	12.48	62.3		
09/20/2011	00:05:09	352	6.7	12.48	65.6		
09/20/2011	00:05:39	346	6.6	12.57	68.9		
09/20/2011	00:06:09	351	6.6	12.59	72.2		
09/20/2011	00:06:39	193	4.7	12.57	75.1		
09/20/2011	00:07:09	193	4.7	12.54	77.5		
09/20/2011	00:07:39	193	4.7	12.53	79.8		
09/20/2011	00:08:09	191	4.7	12.51	82.1		
09/20/2011	00:08:39	194	4.7	12.48	84.5		

Well FEDERAL 25-5B FEDERAL 25-5B			Field S. PARACHUTE		Job Start Sep/19/2011	Customer ENCANA	Job Number BQMF-00162
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
09/20/2011	00:09:39	193	4.7	12.47	89.2		
09/20/2011	00:10:09	128	3.5	12.50	91.2		
09/20/2011	00:10:32					End Lead Slurry	
09/20/2011	00:10:32	122	3.4	12.35	92.6		
09/20/2011	00:10:36					Pumped 230sks/86bbls of 12.5ppg lead.	
09/20/2011	00:10:36					Good returns.	
09/20/2011	00:10:36	118	3.4	12.33	92.8		
09/20/2011	00:10:39	115	3.4	12.43	93.0		
09/20/2011	00:11:09	121	3.5	12.65	94.7		
09/20/2011	00:11:39	121	3.5	12.71	96.4		
09/20/2011	00:12:09	120	3.5	12.63	98.2		
09/20/2011	00:12:39	123	3.5	12.58	99.9		
09/20/2011	00:13:09	88	2.9	12.55	101.5		
09/20/2011	00:13:39	21	0.9	12.84	102.2		
09/20/2011	00:14:09	22	0.8	12.70	102.6		
09/20/2011	00:14:39	13	0.0	12.59	102.7		
09/20/2011	00:15:09	15	0.0	12.58	102.7		
09/20/2011	00:15:39	15	0.0	12.58	102.7		
09/20/2011	00:16:09	15	0.0	12.60	102.7		
09/20/2011	00:16:39	15	0.0	12.60	102.7		
09/20/2011	00:17:09	14	0.0	12.61	102.7		
09/20/2011	00:17:39	14	0.0	12.62	102.7		
09/20/2011	00:18:09	14	0.0	12.62	102.7		
09/20/2011	00:18:39	137	3.4	15.04	103.3		
09/20/2011	00:19:09	162	3.4	15.19	104.9		
09/20/2011	00:19:39	149	3.4	15.32	106.6		
09/20/2011	00:20:09	259	4.6	15.39	108.7		
09/20/2011	00:20:39	264	4.7	15.47	111.0		
09/20/2011	00:21:09	271	4.7	15.52	113.3		
09/20/2011	00:21:42					Start Mixing Tail Slurry	
09/20/2011	00:21:42	267	4.7	15.99	115.9		
09/20/2011	00:22:09	267	4.7	15.68	118.0		
09/20/2011	00:22:39	268	4.7	15.62	120.3		
09/20/2011	00:22:55					End Tail Slurry	
09/20/2011	00:22:55	272	4.7	15.62	121.6		
09/20/2011	00:22:57					End Cement Slurry	
09/20/2011	00:22:57	269	4.7	15.63	121.7		
09/20/2011	00:22:58					Pumped 150sks/31bbls of 15.8ppg tail.	
09/20/2011	00:22:58	266	4.7	15.63	121.8		
09/20/2011	00:22:59					Good returns.	
09/20/2011	00:22:59	269	4.6	15.63	121.9		
09/20/2011	00:23:04					Drop Top Plug	
09/20/2011	00:23:04	272	4.6	15.63	122.3		
09/20/2011	00:23:05					Start Displacement	
09/20/2011	00:23:05	270	4.6	15.63	122.3		
09/20/2011	00:23:06					Displace with fresh water.	
09/20/2011	00:23:06					Good returns.	
09/20/2011	00:23:06	270	4.6	15.62	122.4		
09/20/2011	00:23:09	272	4.6	15.62	122.6		
09/20/2011	00:23:39	282	4.7	15.77	125.0		
09/20/2011	00:24:09	274	4.7	15.74	127.3		
09/20/2011	00:24:39	275	4.7	15.75	129.6		
09/20/2011	00:25:09	276	4.7	15.82	132.0		
09/20/2011	00:25:39	277	4.7	15.79	134.3		

Well FEDERAL 25-5B FEDERAL 25-5B			Field S. PARACHUTE		Job Start Sep/19/2011	Customer ENCANA	Job Number BQMF-00162
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
09/20/2011	00:26:39	27	1.9	0.16	137.1		
09/20/2011	00:27:09	27	25.0	-0.02	139.5		
09/20/2011	00:27:39	27	25.0	-0.02	151.7		
09/20/2011	00:28:09	26	15.4	0.10	162.5		
09/20/2011	00:28:39	25	0.0	16.02	168.0		
09/20/2011	00:29:09	25	0.0	15.79	168.0		
09/20/2011	00:29:39	28	0.0	15.71	168.0		
09/20/2011	00:30:09	28	0.0	14.13	168.0		
09/20/2011	00:30:39	26	0.0	12.87	168.0		
09/20/2011	00:31:09	32	0.6	11.74	168.1		
09/20/2011	00:31:39	76	0.0	6.30	168.4		
09/20/2011	00:32:09	99	2.2	9.67	170.6		
09/20/2011	00:32:39	45	1.9	8.97	171.7		
09/20/2011	00:33:09	139	4.8	8.96	173.4		
09/20/2011	00:33:39	123	4.8	8.83	175.8		
09/20/2011	00:34:09	114	4.8	8.81	178.2		
09/20/2011	00:34:39	117	4.8	8.75	180.5		
09/20/2011	00:35:09	114	4.8	8.67	182.9		
09/20/2011	00:35:39	113	4.8	8.61	185.3		
09/20/2011	00:36:09	118	4.8	8.63	187.7		
09/20/2011	00:36:39	120	4.8	8.61	190.1		
09/20/2011	00:37:09	116	4.8	8.37	192.5		
09/20/2011	00:37:39	118	4.8	8.36	194.9		
09/20/2011	00:38:09	232	6.7	8.36	197.5		
09/20/2011	00:38:39	249	6.7	8.36	200.8		
09/20/2011	00:39:09	260	6.7	8.36	204.1		
09/20/2011	00:39:39	274	6.7	8.36	207.5		
09/20/2011	00:40:09	282	6.7	8.36	210.8		
09/20/2011	00:40:39	287	6.7	8.36	214.2		
09/20/2011	00:41:09	303	6.7	8.36	217.5		
09/20/2011	00:41:39	319	6.7	8.36	220.8		
09/20/2011	00:42:09	332	6.7	8.36	224.2		
09/20/2011	00:42:37					Contaminated cement at 32bbbs away.	
09/20/2011	00:42:37					Good cement at 40bbbs away.	
09/20/2011	00:42:37	340	6.7	8.36	227.3		
09/20/2011	00:42:39	348	6.7	8.36	227.5		
09/20/2011	00:43:09	358	6.7	8.36	230.8		
09/20/2011	00:43:14					Total of 43bbbs of cement to surface.	
09/20/2011	00:43:14	353	6.7	8.36	231.4		
09/20/2011	00:43:39	380	6.7	8.36	234.2		
09/20/2011	00:44:09	294	4.7	8.36	237.0		
09/20/2011	00:44:39	308	4.7	8.36	239.3		
09/20/2011	00:45:09	319	4.7	8.36	241.7		
09/20/2011	00:45:39	336	4.7	8.36	244.0		
09/20/2011	00:46:09	283	3.2	8.36	246.3		
09/20/2011	00:46:39	281	2.4	8.36	247.5		
09/20/2011	00:47:09	297	2.4	8.36	248.7		
09/20/2011	00:47:39	301	2.3	8.36	249.9		
09/20/2011	00:48:09	310	2.4	8.36	251.1		
09/20/2011	00:48:39	318	2.4	8.36	252.2		
09/20/2011	00:49:09	323	2.4	8.36	253.4		
09/20/2011	00:49:39	332	2.4	8.36	254.6		
09/20/2011	00:50:09	341	2.4	8.36	255.8		
09/20/2011	00:50:39	352	2.3	8.36	256.9		

Well FEDERAL 25-5B FEDERAL 25-5B			Field S. PARACHUTE		Job Start Sep/19/2011		Customer ENCANA		Job Number BQMF-00162	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G		Volume BBL		Message	
09/20/2011	00:51:20								Bump Top Plug	
09/20/2011	00:51:20	783		0.1	8.36		258.4			
09/20/2011	00:51:21								End Displacement	
09/20/2011	00:51:21	790		0.0	8.36		258.4			
09/20/2011	00:51:22								Bumped plug to 780psi.	
09/20/2011	00:51:22								Final displacement was 83.5bbbls.	
09/20/2011	00:51:22	786		0.0	8.36		258.4			
09/20/2011	00:51:23								Bleed off pressure.	
09/20/2011	00:51:23								Check floats.	
09/20/2011	00:51:23								Floats held.	
09/20/2011	00:51:23								Got .5bbbls back.	
09/20/2011	00:51:23								Good returns for entire job.	
09/20/2011	00:51:23	794		0.0	8.36		258.4			
09/20/2011	00:51:24								Total cement to surface is 43bbbls.	
09/20/2011	00:51:24	792		0.0	8.37		258.4			
09/20/2011	00:51:39	788		0.0	8.36		258.4			
09/20/2011	00:52:09	790		0.0	8.36		258.4			
09/20/2011	00:52:39	789		0.0	8.36		258.4			
09/20/2011	00:53:09	787		0.0	8.37		258.4			
09/20/2011	00:53:39	5		0.0	8.37		258.4			
09/20/2011	00:54:09	7		0.0	8.37		258.4			
09/20/2011	00:54:39	7		0.0	8.37		258.4			
09/20/2011	00:55:09	7		0.0	8.37		258.4			
09/20/2011	00:55:24								End Job	
09/20/2011	00:55:24	7		0.0	8.37		258.4			

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 6.0	N2	Mud	Maximum Rate 8.0		Total Slurry 118.0	Mud	Spacer 20.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 3000	Final 780	Average 200	Bump Plug to 780	Breakdown	Type		Volume		Density	
Avg. N2 Percent		Designed Slurry Volume 118.0 bbl		Displacement 83.0 bbl	Mix Water Temp 65 degF		Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 43.0 bbl		
						Washed Thru Perfs <input type="checkbox"/>	To			
Customer or Authorized Representative ARVID MOSNES			Schlumberger Supervisor Jeff Patterson			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>			
						-		-		