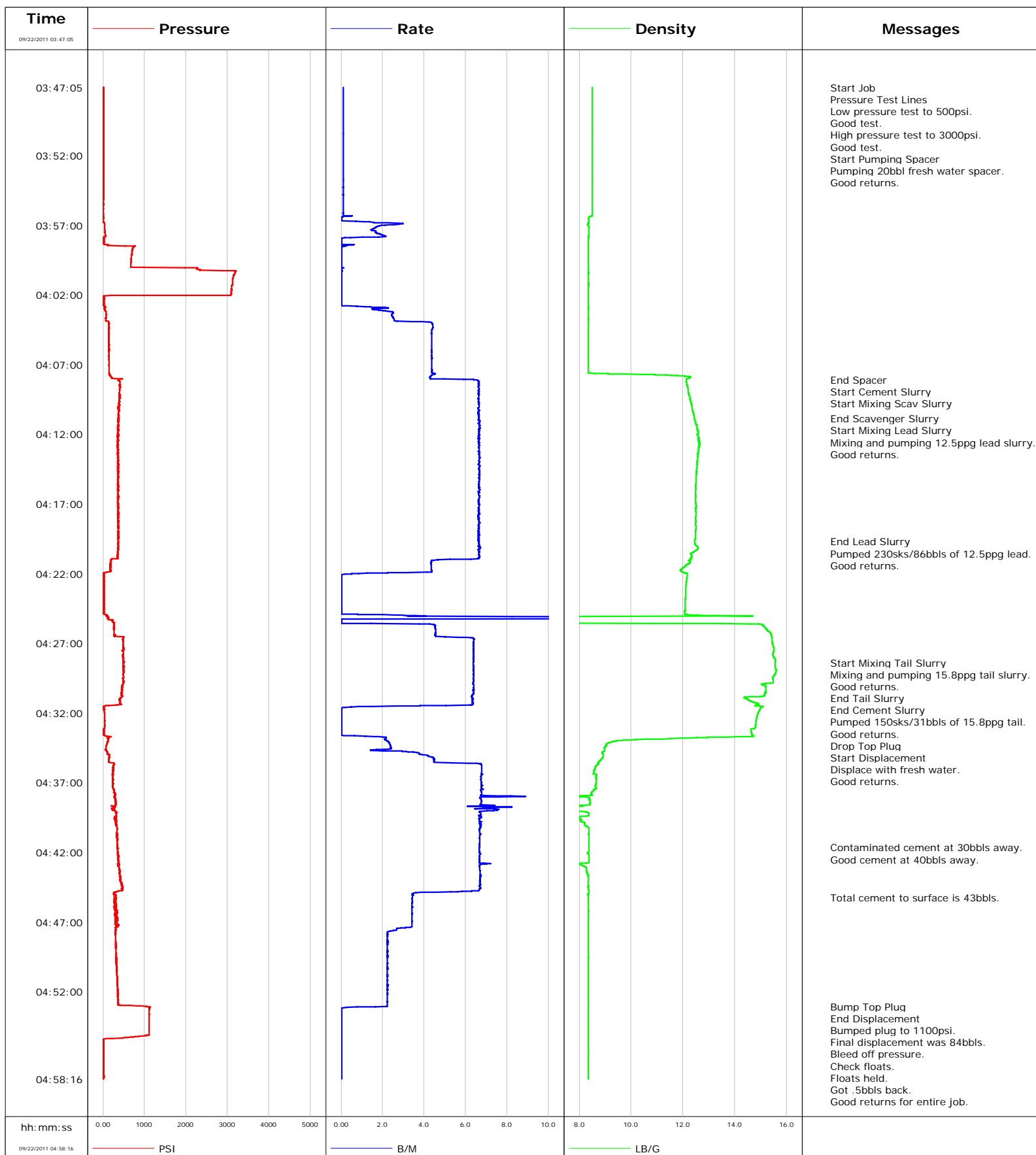


Well FEDERAL 25-4D
Field S. PARACHUTE
Engineer Jeff Patterson
Country United States

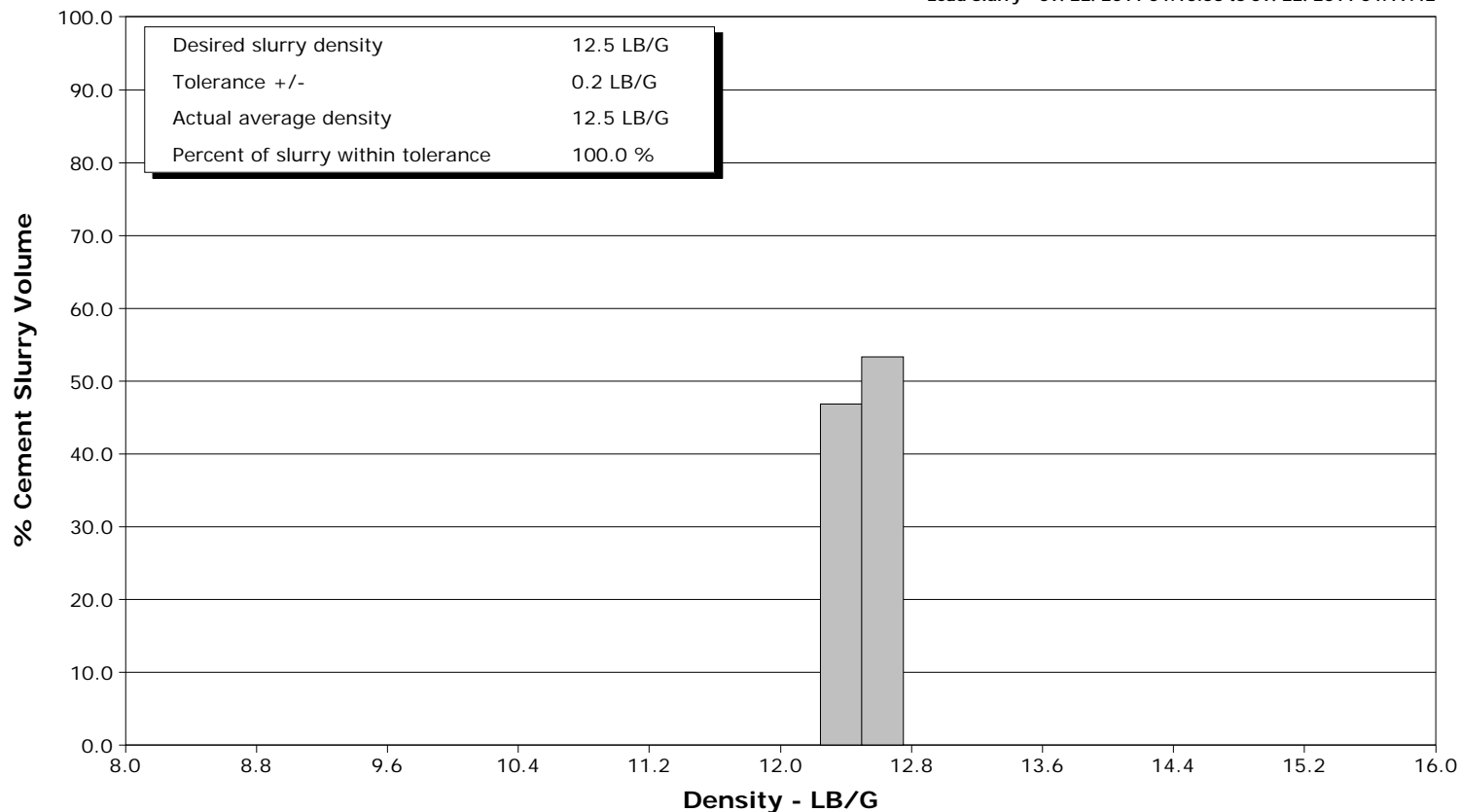
Client ENCANA
SIR No. BQMF-00164
Job Type 9 5/8" SURFACE
Job Date 09-21-2011



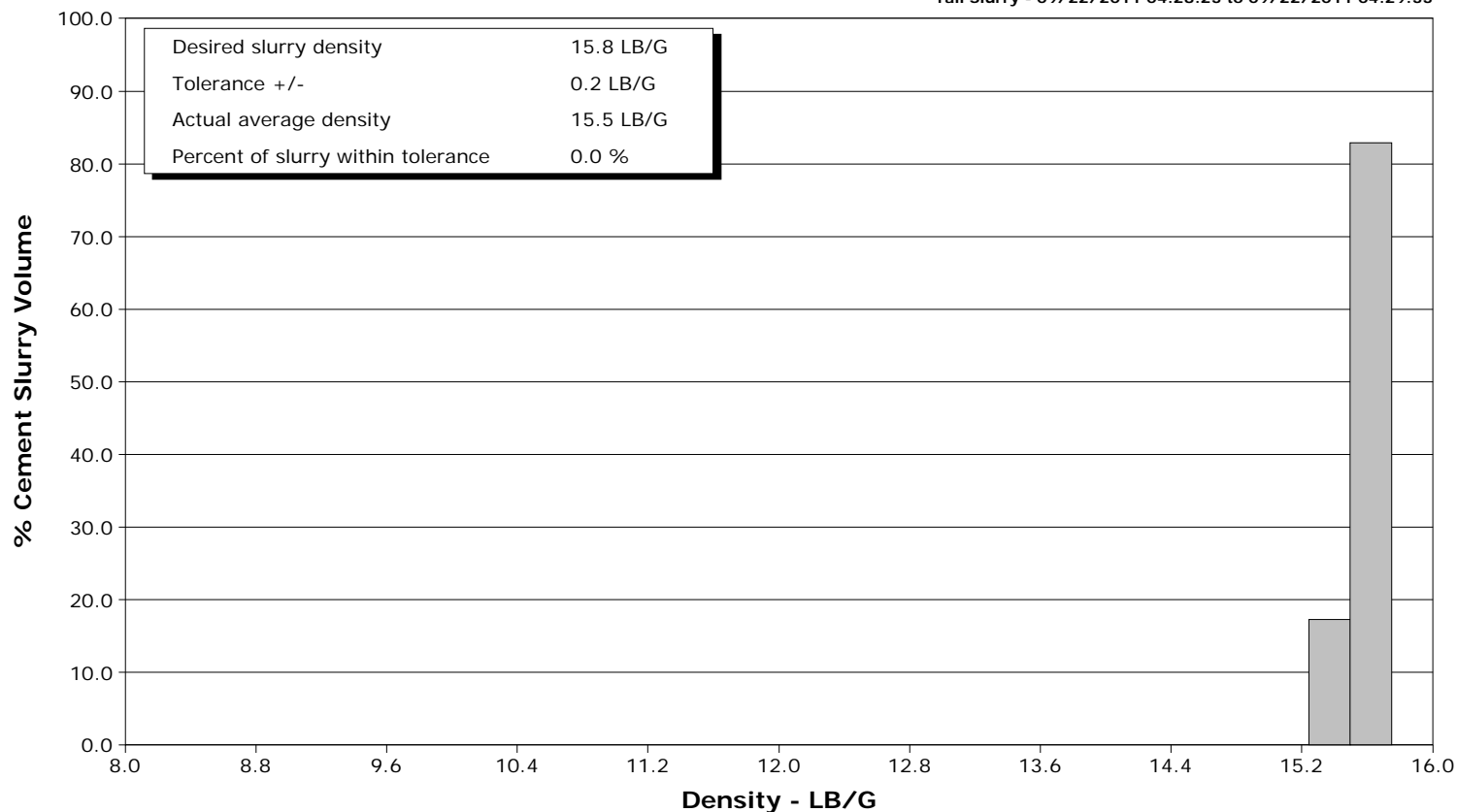
Well FEDERAL 25-4D
Field S. PARACHUTE
Engineer Jeff Patterson
Country United States

Client ENCANA
SIR No. BQMF-00164
Job Type 9 5/8" SURFACE
Job Date 09-21-2011

Lead Slurry - 09/22/2011 04:10:53 to 09/22/2011 04:19:42



Tail Slurry - 09/22/2011 04:28:23 to 09/22/2011 04:29:33





Cementing Service Report

				Customer ENCANA		Job Number BQMF-00164		
Well FEDERAL 25-4D FEDERAL 25-4D			Location (legal) PE25		Schlumberger Location Grand Junction, Colorado		Job Start Sep/21/2011	
Field S. PARACHUTE		Formation Name/Type SHALE		Deviation 0 deg	Bit Size 12.3 in	Well MD 1125.0 ft		Well TVD 1125.0 ft
County GARFIELD		State/Province Colorado		BHP	BHST 95 degF	BHCT 81 degF	Pore Press. Gradient	
Well Master 0631277971		API/UWI						
Rig Name PATTERSON 330	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	1125.0	9.630	36.0	J55	8RD	
			0.0	0.000	0.0			
Drilling Fluid Type		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 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 83.6 bbl	Packer Type	Packer Depth		
			Tubing Vol.	Casing Vol. 87.0 bbl	Annular Vol. 66.0 bbl	Openhole Vol. 156.0 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 557 psi		Shoe Type Guide	Squeeze Type					
Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>	Shoe Depth 1125.0 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/21/2011	Arrived on Location Sep/21/2011	Leave Location Sep/21/2011	Collar Type Float	Tail Pipe Depth				
			Collar Depth 1081.0 ft	Sqz. Total Vol.				
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
09/22/2011	03:46:35					Started Acquisition		
09/22/2011	03:47:05	3	0.1	8.50	0.0			
09/22/2011	03:47:06					Start Job		
09/22/2011	03:47:06	3	0.1	8.50	0.0			
09/22/2011	03:47:08					Pressure Test Lines		
09/22/2011	03:47:08	3	0.1	8.50	0.0			
09/22/2011	03:47:10					Low pressure test to 500psi.		
09/22/2011	03:47:10					Good test.		
09/22/2011	03:47:10					High pressure test to 3000psi.		
09/22/2011	03:47:10	3	0.1	8.50	0.0			
09/22/2011	03:47:11					Good test.		
09/22/2011	03:47:11	3	0.1	8.50	0.0			
09/22/2011	03:47:13					Start Pumping Spacer		
09/22/2011	03:47:13	3	0.1	8.50	0.0			
09/22/2011	03:47:14					Pumping 20bbl fresh water spacer.		
09/22/2011	03:47:14					Good returns.		
09/22/2011	03:47:14	2	0.1	8.50	0.0			
09/22/2011	03:47:35	3	0.1	8.50	0.1			
09/22/2011	03:48:05	3	0.1	8.50	0.1			
09/22/2011	03:48:35	2	0.1	8.50	0.2			
09/22/2011	03:49:05	3	0.1	8.50	0.2			

Well FEDERAL 25-4D FEDERAL 25-4D			Field S. PARACHUTE		Job Start Sep/21/2011	Customer ENCANA	Job Number BQMF-00164
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
09/22/2011	03:50:05	3	0.1	8.50	0.3		
09/22/2011	03:50:35	4	0.1	8.50	0.4		
09/22/2011	03:51:05	4	0.1	8.50	0.4		
09/22/2011	03:51:35	4	0.1	8.50	0.5		
09/22/2011	03:52:05	4	0.1	8.50	0.5		
09/22/2011	03:52:35	3	0.1	8.50	0.6		
09/22/2011	03:53:05	3	0.1	8.50	0.6		
09/22/2011	03:53:35	3	0.1	8.50	0.7		
09/22/2011	03:54:05	3	0.1	8.50	0.7		
09/22/2011	03:54:35	4	0.1	8.50	0.8		
09/22/2011	03:55:05	3	0.1	8.50	0.8		
09/22/2011	03:55:35	1	0.1	8.50	0.9		
09/22/2011	03:56:05	-0	0.1	8.50	0.9		
09/22/2011	03:56:35	1	0.0	8.36	0.9		
09/22/2011	03:57:05	46	1.7	8.36	1.7		
09/22/2011	03:57:35	54	1.8	8.36	2.5		
09/22/2011	03:58:05	23	0.0	8.36	3.1		
09/22/2011	03:58:35	732	0.0	8.36	3.1		
09/22/2011	03:59:05	685	0.0	8.36	3.1		
09/22/2011	03:59:35	680	0.0	8.36	3.1		
09/22/2011	04:00:05	2279	0.0	8.36	3.1		
09/22/2011	04:00:35	3151	0.0	8.36	3.1		
09/22/2011	04:01:05	3128	0.0	8.36	3.1		
09/22/2011	04:01:35	3095	0.0	8.36	3.1		
09/22/2011	04:02:05	15	0.0	8.36	3.1		
09/22/2011	04:02:35	13	0.0	8.36	3.1		
09/22/2011	04:03:05	47	1.8	8.36	3.6		
09/22/2011	04:03:35	73	2.5	8.36	4.8		
09/22/2011	04:04:05	140	4.4	8.35	6.4		
09/22/2011	04:04:35	138	4.4	8.36	8.6		
09/22/2011	04:05:05	138	4.4	8.36	10.8		
09/22/2011	04:05:35	149	4.4	8.36	13.0		
09/22/2011	04:06:05	150	4.4	8.36	15.1		
09/22/2011	04:06:35	144	4.4	8.36	17.3		
09/22/2011	04:07:05	151	4.4	8.36	19.5		
09/22/2011	04:07:35	143	4.4	8.36	21.7		
09/22/2011	04:08:03					End Spacer	
09/22/2011	04:08:03	372	5.9	12.14	23.8		
09/22/2011	04:08:04					Start Cement Slurry	
09/22/2011	04:08:04	386	6.4	12.13	23.9		
09/22/2011	04:08:05					Start Mixing Scav Slurry	
09/22/2011	04:08:05	392	6.4	12.13	24.0		
09/22/2011	04:08:35	411	6.6	12.17	27.3		
09/22/2011	04:09:05	388	6.6	12.22	30.6		
09/22/2011	04:09:35	393	6.6	12.29	33.9		
09/22/2011	04:10:05	368	6.6	12.35	37.2		
09/22/2011	04:10:35	390	6.6	12.41	40.5		
09/22/2011	04:10:52					End Scavenger Slurry	
09/22/2011	04:10:52	379	6.6	12.44	42.4		
09/22/2011	04:10:53					Start Mixing Lead Slurry	
09/22/2011	04:10:53	368	6.6	12.44	42.5		
09/22/2011	04:10:55					Mixing and pumping 12.5ppg lead slurry.	
09/22/2011	04:10:55					Good returns.	
09/22/2011	04:10:55	376	6.7	12.44	42.8		

Well FEDERAL 25-4D FEDERAL 25-4D			Field S. PARACHUTE		Job Start Sep/21/2011	Customer ENCANA	Job Number BQMF-00164
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
09/22/2011	04:11:35	356	6.7	12.55	47.2		
09/22/2011	04:12:05	370	6.7	12.58	50.5		
09/22/2011	04:12:35	369	6.6	12.60	53.8		
09/22/2011	04:13:05	369	6.6	12.60	57.2		
09/22/2011	04:13:35	367	6.7	12.58	60.5		
09/22/2011	04:14:05	360	6.6	12.54	63.8		
09/22/2011	04:14:35	375	6.7	12.52	67.1		
09/22/2011	04:15:05	376	6.7	12.51	70.5		
09/22/2011	04:15:35	368	6.6	12.50	73.8		
09/22/2011	04:16:05	357	6.7	12.49	77.1		
09/22/2011	04:16:35	350	6.7	12.49	80.4		
09/22/2011	04:17:05	353	6.7	12.51	83.8		
09/22/2011	04:17:35	364	6.7	12.50	87.1		
09/22/2011	04:18:05	368	6.6	12.49	90.4		
09/22/2011	04:18:35	371	6.7	12.50	93.7		
09/22/2011	04:19:05	370	6.7	12.49	97.0		
09/22/2011	04:19:35	359	6.6	12.46	100.4		
09/22/2011	04:19:42					End Lead Slurry	
09/22/2011	04:19:42	378	6.7	12.44	101.1		
09/22/2011	04:19:45					Pumped 230sks/86bbls of 12.5ppg lead.	
09/22/2011	04:19:45					Good returns.	
09/22/2011	04:19:45	371	6.6	12.45	101.5		
09/22/2011	04:20:05	369	6.6	12.57	103.7		
09/22/2011	04:20:35	356	6.6	12.30	107.0		
09/22/2011	04:21:05	194	4.3	12.24	110.1		
09/22/2011	04:21:35	178	4.4	11.99	112.3		
09/22/2011	04:22:05	15	0.0	12.17	113.9		
09/22/2011	04:22:35	14	0.0	12.13	113.9		
09/22/2011	04:23:05	13	0.0	12.10	113.9		
09/22/2011	04:23:35	15	0.0	12.10	113.9		
09/22/2011	04:24:05	15	0.0	12.09	113.9		
09/22/2011	04:24:35	15	0.0	12.08	113.9		
09/22/2011	04:25:05	110	8.2	6.87	114.4		
09/22/2011	04:25:35	262	1.4	13.30	117.9		
09/22/2011	04:26:05	264	4.6	15.24	120.1		
09/22/2011	04:26:35	490	6.1	15.43	122.4		
09/22/2011	04:27:05	476	6.4	15.46	125.6		
09/22/2011	04:27:35	483	6.4	15.50	128.8		
09/22/2011	04:28:05	486	6.4	15.54	132.0		
09/22/2011	04:28:23					Start Mixing Tail Slurry	
09/22/2011	04:28:23	502	6.4	15.56	133.9		
09/22/2011	04:28:26					Mixing and pumping 15.8ppg tail slurry.	
09/22/2011	04:28:26					Good returns.	
09/22/2011	04:28:26	490	6.4	15.55	134.2		
09/22/2011	04:28:35	477	6.4	15.54	135.2		
09/22/2011	04:29:05	490	6.4	15.58	138.4		
09/22/2011	04:29:33					End Tail Slurry	
09/22/2011	04:29:33	483	6.4	15.47	141.3		
09/22/2011	04:29:35					End Cement Slurry	
09/22/2011	04:29:35	486	6.4	15.47	141.6		
09/22/2011	04:29:38					Pumped 150sks/31bbls of 15.8ppg tail.	
09/22/2011	04:29:38					Good returns.	
09/22/2011	04:29:38	478	6.4	15.47	141.9		
09/22/2011	04:29:40					Drop Top Plug	

Well FEDERAL 25-4D FEDERAL 25-4D			Field S. PARACHUTE		Job Start Sep/21/2011	Customer ENCANA	Job Number BQMF-00164
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
09/22/2011	04:29:40	481	6.4	15.48	142.1		
09/22/2011	04:29:42					Displace with fresh water.	
09/22/2011	04:29:42					Good returns.	
09/22/2011	04:29:42	488	6.4	15.48	142.3		
09/22/2011	04:30:05	456	6.4	15.17	144.7		
09/22/2011	04:30:35	454	6.4	15.18	147.9		
09/22/2011	04:31:05	402	6.3	14.53	151.1		
09/22/2011	04:31:35	19	0.5	15.04	153.8		
09/22/2011	04:32:05	37	0.0	14.88	153.8		
09/22/2011	04:32:35	47	0.0	14.82	153.8		
09/22/2011	04:33:05	45	0.0	14.78	153.8		
09/22/2011	04:33:35	19	0.0	14.67	153.8		
09/22/2011	04:34:05	111	2.3	9.22	154.7		
09/22/2011	04:34:35	68	2.4	8.99	155.9		
09/22/2011	04:35:05	144	4.2	8.92	157.4		
09/22/2011	04:35:35	216	5.3	8.72	159.6		
09/22/2011	04:36:05	252	6.8	8.59	163.0		
09/22/2011	04:36:35	246	6.7	8.65	166.3		
09/22/2011	04:37:05	246	6.8	8.65	169.7		
09/22/2011	04:37:35	267	6.7	8.55	173.1		
09/22/2011	04:38:05	282	6.7	8.34	176.6		
09/22/2011	04:38:35	314	6.7	8.42	180.0		
09/22/2011	04:39:05	297	6.6	8.21	183.5		
09/22/2011	04:39:35	321	6.6	8.01	186.9		
09/22/2011	04:40:05	330	6.7	8.21	190.2		
09/22/2011	04:40:35	329	6.7	8.37	193.6		
09/22/2011	04:41:05	341	6.7	8.37	196.9		
09/22/2011	04:41:35	344	6.7	8.37	200.3		
09/22/2011	04:41:39					Contaminated cement at 30bbls away.	
09/22/2011	04:41:39					Good cement at 40bbls away.	
09/22/2011	04:41:39	346	6.7	8.37	200.7		
09/22/2011	04:42:05	353	6.7	8.31	203.6		
09/22/2011	04:42:35	375	6.7	8.36	206.9		
09/22/2011	04:43:05	390	6.7	8.25	210.3		
09/22/2011	04:43:35	398	6.7	8.34	213.6		
09/22/2011	04:44:05	421	6.7	8.36	217.0		
09/22/2011	04:44:35	456	6.7	8.35	220.3		
09/22/2011	04:45:05	273	3.5	8.34	222.9		
09/22/2011	04:45:14					Total cement to surface is 43bbls.	
09/22/2011	04:45:14	271	3.4	8.36	223.4		
09/22/2011	04:45:35	272	3.4	8.36	224.6		
09/22/2011	04:46:05	283	3.4	8.36	226.3		
09/22/2011	04:46:35	332	3.4	8.36	228.0		
09/22/2011	04:47:05	337	3.4	8.36	229.8		
09/22/2011	04:47:35	314	2.7	8.36	231.3		
09/22/2011	04:48:05	298	2.2	8.36	232.5		
09/22/2011	04:48:35	312	2.2	8.36	233.6		
09/22/2011	04:49:05	314	2.2	8.36	234.7		
09/22/2011	04:49:35	326	2.2	8.36	235.8		
09/22/2011	04:50:05	330	2.2	8.36	237.0		
09/22/2011	04:50:35	334	2.2	8.36	238.1		
09/22/2011	04:51:05	346	2.2	8.36	239.2		
09/22/2011	04:51:35	334	2.2	8.36	240.3		
09/22/2011	04:52:05	366	2.2	8.36	241.4		

Well FEDERAL 25-4D FEDERAL 25-4D			Field S. PARACHUTE		Job Start Sep/21/2011		Customer ENCANA		Job Number BQMF-00164	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G		Volume BBL		Message	
09/22/2011	04:53:05								Bump Top Plug	
09/22/2011	04:53:05	1041		2.2	8.36		243.7			
09/22/2011	04:53:07								End Displacement	
09/22/2011	04:53:07	1133		0.8	8.36		243.7			
09/22/2011	04:53:08								Bumped plug to 1100psi.	
09/22/2011	04:53:08	1126		0.2	8.36		243.7			
09/22/2011	04:53:09								Final displacement was 84bbls.	
09/22/2011	04:53:09								Bleed off pressure.	
09/22/2011	04:53:09								Check floats.	
09/22/2011	04:53:09								Floats held.	
09/22/2011	04:53:09	1104		0.2	8.36		243.7			
09/22/2011	04:53:10								Got .5bbls back.	
09/22/2011	04:53:10								Good returns for entire job.	
09/22/2011	04:53:10								Total of 43bbls of cement to surface.	
09/22/2011	04:53:10	1123		0.1	8.36		243.7			
09/22/2011	04:53:35	1114		0.0	8.36		243.7			
09/22/2011	04:54:05	1114		0.0	8.36		243.7			
09/22/2011	04:54:35	1115		0.0	8.36		243.7			
09/22/2011	04:54:57								End Job	
09/22/2011	04:54:57	1116		0.0	8.36		243.7			
09/22/2011	04:55:05	1117		0.0	8.36		243.7			
09/22/2011	04:55:35	8		0.0	8.36		243.7			
09/22/2011	04:56:05	8		0.0	8.36		243.7			
09/22/2011	04:56:35	9		0.0	8.36		243.7			
09/22/2011	04:57:05	9		0.0	8.36		243.7			
09/22/2011	04:57:35	8		0.0	8.36		243.7			
09/22/2011	04:58:05	13		0.0	8.36		243.7			

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 1100	Average 200	Bump Plug to 1100	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"/>	
							-	-	