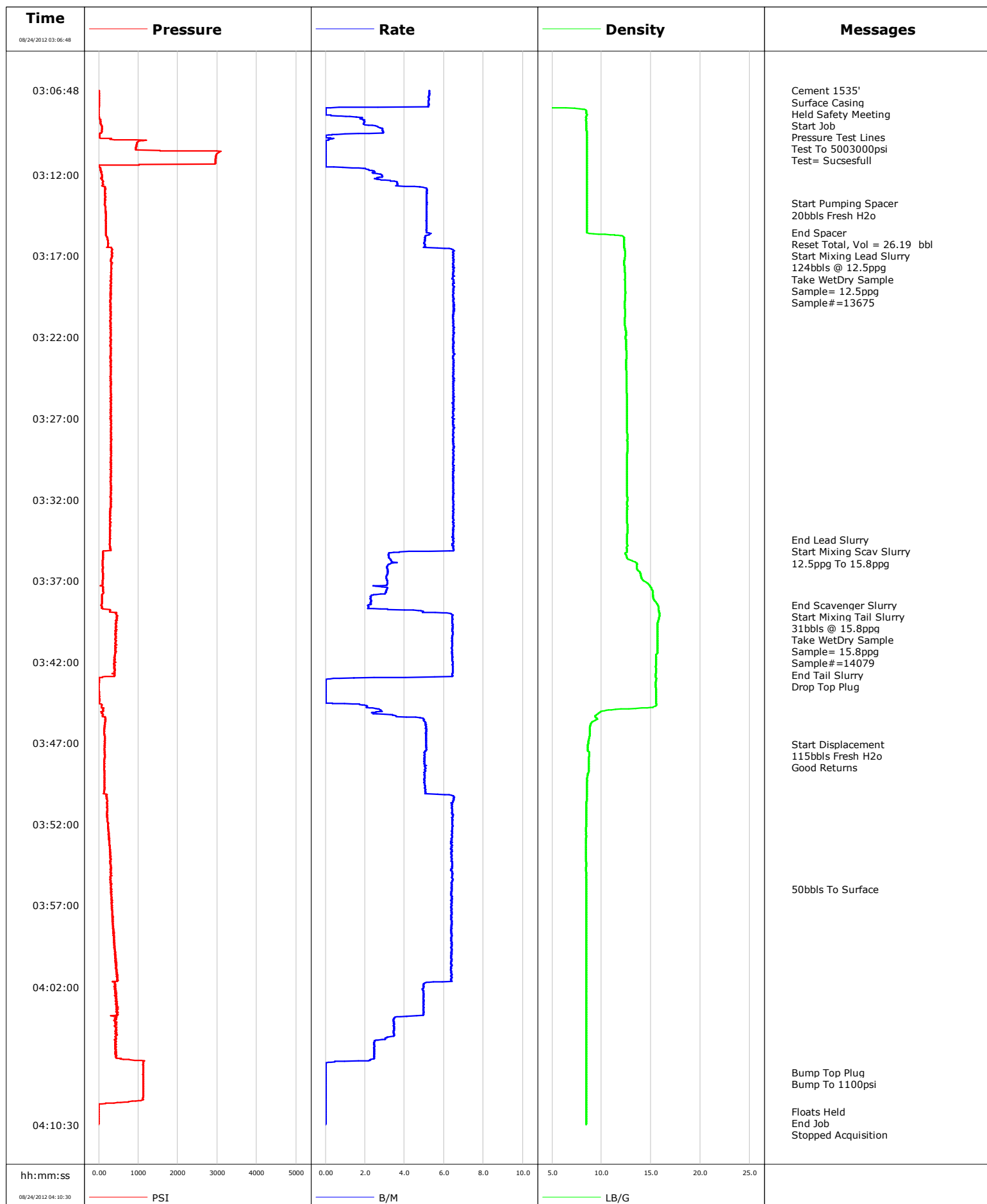


Well	SHIDELER FEE 31-6D	Client	ENCANA
Field	MAMM CREEK	SIR No.	CAET-00010
Engineer		Job Type	
Country	United States	Job Date	08-24-2012

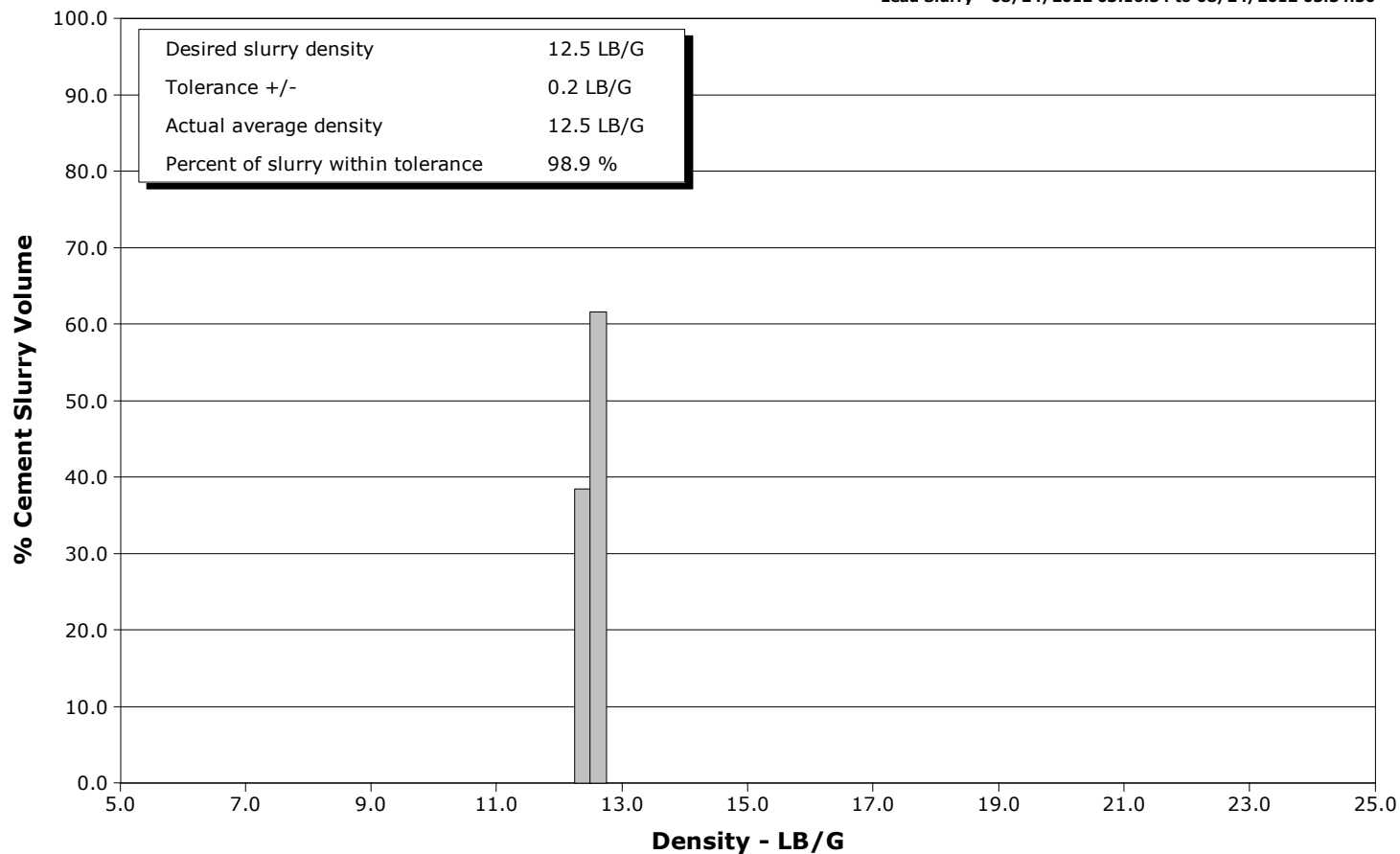


Schlumberger Cementing Qa/Qc Density Report

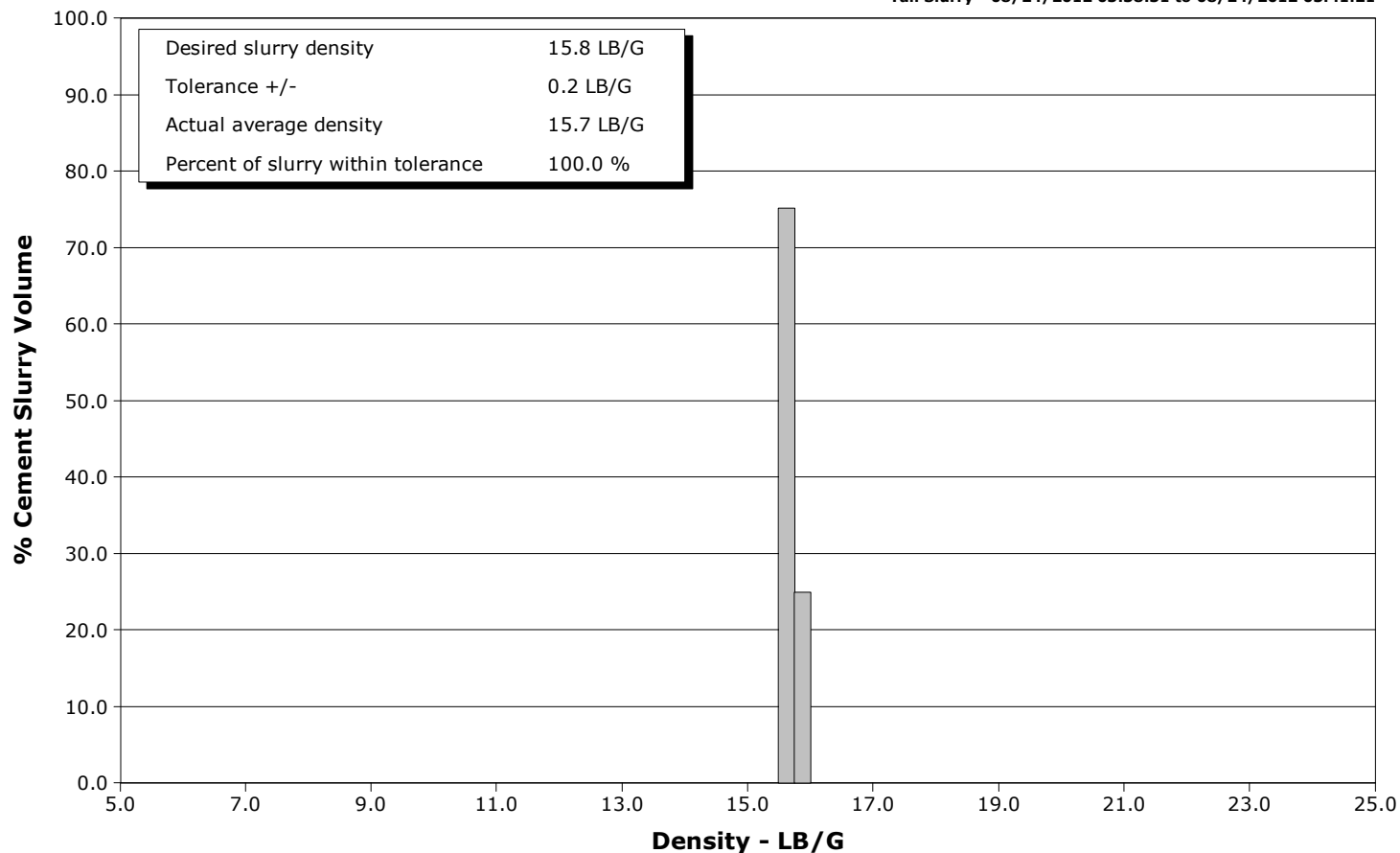
Well SHIDELER FEE 31-6D
Field MAMM CREEK
Engineer
Country United States

Client ENCANA
SIR No. CAET-00010
Job Type
Job Date 08-24-2012

Lead Slurry - 08/24/2012 03:16:34 to 08/24/2012 03:34:30



Tail Slurry - 08/24/2012 03:38:31 to 08/24/2012 03:41:21





Cementing Service Report

				Customer ENCANA			Job Number CAET-00010								
Well SHIDELER FEE 31-6D			Location (legal)			Schlumberger Location GCO		Job Start Aug/24/2012							
Field MAMM CREEK		Formation Name/Type		Deviation		Bit Size		Well MD		Well TVD					
County GARFILED		State/Province Colorado		BHP		BHST		BHCT		Pore Press. Gradient					
Well Master 0631395630		API/UWI													
Rig Name PATTERSON 303		Drilled For Gas		Service Via Land		Casing/Liner									
						Depth,		Size,		Weight,		Grade		Thread	
Offshore Zone		Well Class New		Well Type Development											
Drilling Fluid Type Bentonite		Max. Density		Plastic Viscosity		Tubing/Drill Pipe									
						Depth,		Size,		Weight,		Grade		Thread	
Service Line Cementing		Job Type Cem Surface Casing													
Max. Allowed Tub. Press		Max. Allowed Ann. Press		WH Connection Single Cement head		Perforations/Open Hole									
						Top,		Bottom,				No. of Shots		Total Interval	
Service Instructions 330 sks 12.5ppg lead 2.11 ft3/sk 149sks 15.8ppg tail 1.17 ft3/sk WATER TEST= GOOD														Diameter	
Treat Down Casing				Displacement 115.0 bbl				Packer Type				Packer Depth			
Tubing Vol.				Casing Vol. 118.0 bbl				Annular Vol. 90.0 bbl				Openhole Vol. 214.0 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 759 psi				Shoe Type Guide				Squeeze Type							
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1535.0 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 Aug/24/2012		Arrived on Location Aug/24/2012		Leave Location Aug/24/2012		Collar Type Diff-Fill				Tail Pipe Depth					
						Collar Depth 1490.0 ft				Sqz. Total Vol.					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message									
08/24/2012	01:16:04					Started Acquisition									
08/24/2012	03:06:48					Cement 1535'									
08/24/2012	03:06:48					Surface Casing									
08/24/2012	03:06:48					Held Safety Meeting									
08/24/2012	03:06:48	10	5.3	1.08	0.1										
08/24/2012	03:06:50					Start Job									
08/24/2012	03:06:50	10	5.2	1.08	0.3										
08/24/2012	03:06:51					Pressure Test Lines									
08/24/2012	03:06:51	10	5.2	1.08	0.4										
08/24/2012	03:06:52					Test To 5003000psi									
08/24/2012	03:06:52	10	5.3	1.08	0.4										
08/24/2012	03:06:53					Test= Sucsesfull									
08/24/2012	03:06:53	10	5.2	1.08	0.5										
08/24/2012	03:08:04	-7	0.0	8.46	5.6										
08/24/2012	03:10:04	967	0.0	8.48	8.2										
08/24/2012	03:12:04	84	2.9	8.48	9.4										
08/24/2012	03:13:46					Start Pumping Spacer									
08/24/2012	03:13:46	147	5.1	8.48	16.8										
08/24/2012	03:13:47					20bbbls Fresh H2o									
08/24/2012	03:13:47	150	5.1	8.48	16.9										
08/24/2012	03:14:04	171	5.1	8.48	18.4										

Well			Field		Job Start	Customer		Job Number
SHIDELER FEE 31-6D			MAMM CREEK		Aug/24/2012	ENCANA		CAET-00010
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
08/24/2012	03:15:33	178	5.1	8.48	25.9			
08/24/2012	03:15:36					Reset Total, Vol = 26.19 bbl		
08/24/2012	03:15:36	177	5.2	8.56	26.2			
08/24/2012	03:16:04	228	5.0	12.27	28.6			
08/24/2012	03:16:34					Start Mixing Lead Slurry		
08/24/2012	03:16:34	336	6.4	12.31	31.1			
08/24/2012	03:16:36					124bbls @ 12.5ppg		
08/24/2012	03:16:36					Take WetDry Sample		
08/24/2012	03:16:36					Sample= 12.5ppg		
08/24/2012	03:16:36					Sample#=13675		
08/24/2012	03:16:36	332	6.4	12.32	31.4			
08/24/2012	03:18:04	314	6.5	12.36	40.8			
08/24/2012	03:20:04	298	6.5	12.32	53.8			
08/24/2012	03:22:04	300	6.5	12.45	66.7			
08/24/2012	03:24:04	308	6.5	12.50	79.7			
08/24/2012	03:26:04	308	6.4	12.55	92.6			
08/24/2012	03:28:04	312	6.5	12.60	105.6			
08/24/2012	03:30:04	317	6.5	12.59	118.5			
08/24/2012	03:32:04	300	6.5	12.60	131.4			
08/24/2012	03:34:04	287	6.5	12.60	144.4			
08/24/2012	03:34:30					End Lead Slurry		
08/24/2012	03:34:30	280	6.4	12.59	147.2			
08/24/2012	03:34:36					Start Mixing Scav Slurry		
08/24/2012	03:34:36	290	6.5	12.59	147.8			
08/24/2012	03:34:37					12.5ppg To 15.8ppg		
08/24/2012	03:34:37	281	6.5	12.59	147.9			
08/24/2012	03:36:04	89	3.1	13.57	154.5			
08/24/2012	03:38:04	82	2.3	15.22	160.6			
08/24/2012	03:38:29					End Scavenger Slurry		
08/24/2012	03:38:29	70	2.3	15.68	161.5			
08/24/2012	03:38:31					Start Mixing Tail Slurry		
08/24/2012	03:38:31	59	2.1	15.70	161.6			
08/24/2012	03:38:33					31bbls @ 15.8ppg		
08/24/2012	03:38:33					Take WetDry Sample		
08/24/2012	03:38:33	69	2.2	15.72	161.7			
08/24/2012	03:38:34					Sample= 15.8ppg		
08/24/2012	03:38:34					Sample#=14079		
08/24/2012	03:38:34	69	2.2	15.73	161.7			
08/24/2012	03:40:04	422	6.4	15.64	170.1			
08/24/2012	03:41:21					End Tail Slurry		
08/24/2012	03:41:21	417	6.4	15.65	178.3			
08/24/2012	03:41:23					Drop Top Plug		
08/24/2012	03:41:23	437	6.4	15.65	178.5			
08/24/2012	03:42:04	409	6.4	15.51	182.9			
08/24/2012	03:44:04	11	0.0	15.52	188.7			
08/24/2012	03:46:04	139	5.1	8.81	194.2			
08/24/2012	03:47:03					Start Displacement		
08/24/2012	03:47:03					115bbls Fresh H2o		
08/24/2012	03:47:03					Good Returns		
08/24/2012	03:47:03	149	5.1	8.64	199.2			
08/24/2012	03:48:04	139	5.0	8.68	204.3			
08/24/2012	03:50:04	126	5.1	8.52	214.4			
08/24/2012	03:52:04	237	6.4	8.44	227.1			
08/24/2012	03:54:04	301	6.4	8.41	239.9			

Well			Field		Job Start	Customer		Job Number
SHIDELER FEE 31-6D			MAMM CREEK		Aug/24/2012	ENCANA		CAET-00010
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
08/24/2012	03:55:59	320	6.4	8.48	252.1			
08/24/2012	03:56:04	308	6.4	8.47	252.7			
08/24/2012	03:58:04	344	6.4	8.48	265.4			
08/24/2012	04:00:04	416	6.4	8.47	278.2			
08/24/2012	04:02:04	423	5.0	8.47	290.4			
08/24/2012	04:04:04	391	3.5	8.47	299.9			
08/24/2012	04:06:04	414	2.5	8.47	306.0			
08/24/2012	04:07:15					Bump Top Plug		
08/24/2012	04:07:15	1118	0.0	8.47	307.3			
08/24/2012	04:07:17					Bump To 1100psi		
08/24/2012	04:07:17	1118	0.0	8.47	307.3			
08/24/2012	04:08:04	1118	0.0	8.47	307.3			
08/24/2012	04:09:41					Floats Held		
08/24/2012	04:09:41	-7	0.0	8.48	307.3			
08/24/2012	04:09:42					End Job		
08/24/2012	04:09:42	-7	0.0	8.47	307.3			
08/24/2012	04:10:04	-7	0.0	8.47	307.3			

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl				
Slurry 5.5	N2	Mud 0.0	Maximum Rate 6.5		Total Slurry 307.3	Mud 0.0	Spacer 25.7	N2	
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum 3100	Final -6	Average 346	Bump Plug to 1100	Breakdown	Type		Volume		Density 8.34 lb/gal
Avg. N2 Percent		Designed Slurry Volume 155.0 bbl		Displacement 128.8 bbl	Mix Water Temp 62 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 60.0 bbl	
						Washed Thru Perfs <input type="checkbox"/>		To	
Customer or Authorized Representative VLAD KOVHETOV				Schlumberger Supervisor JASON CRICK			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
							-	-	