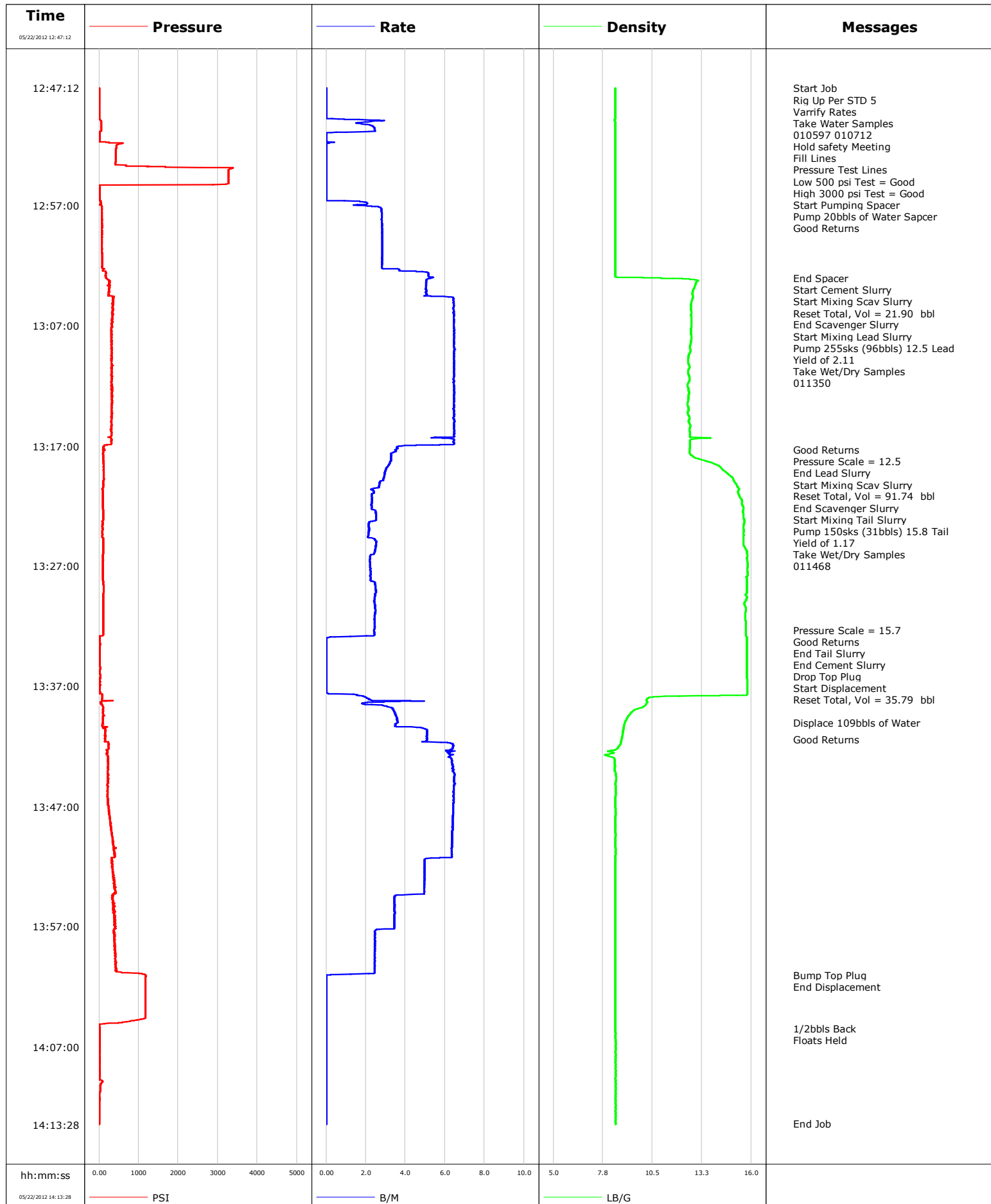
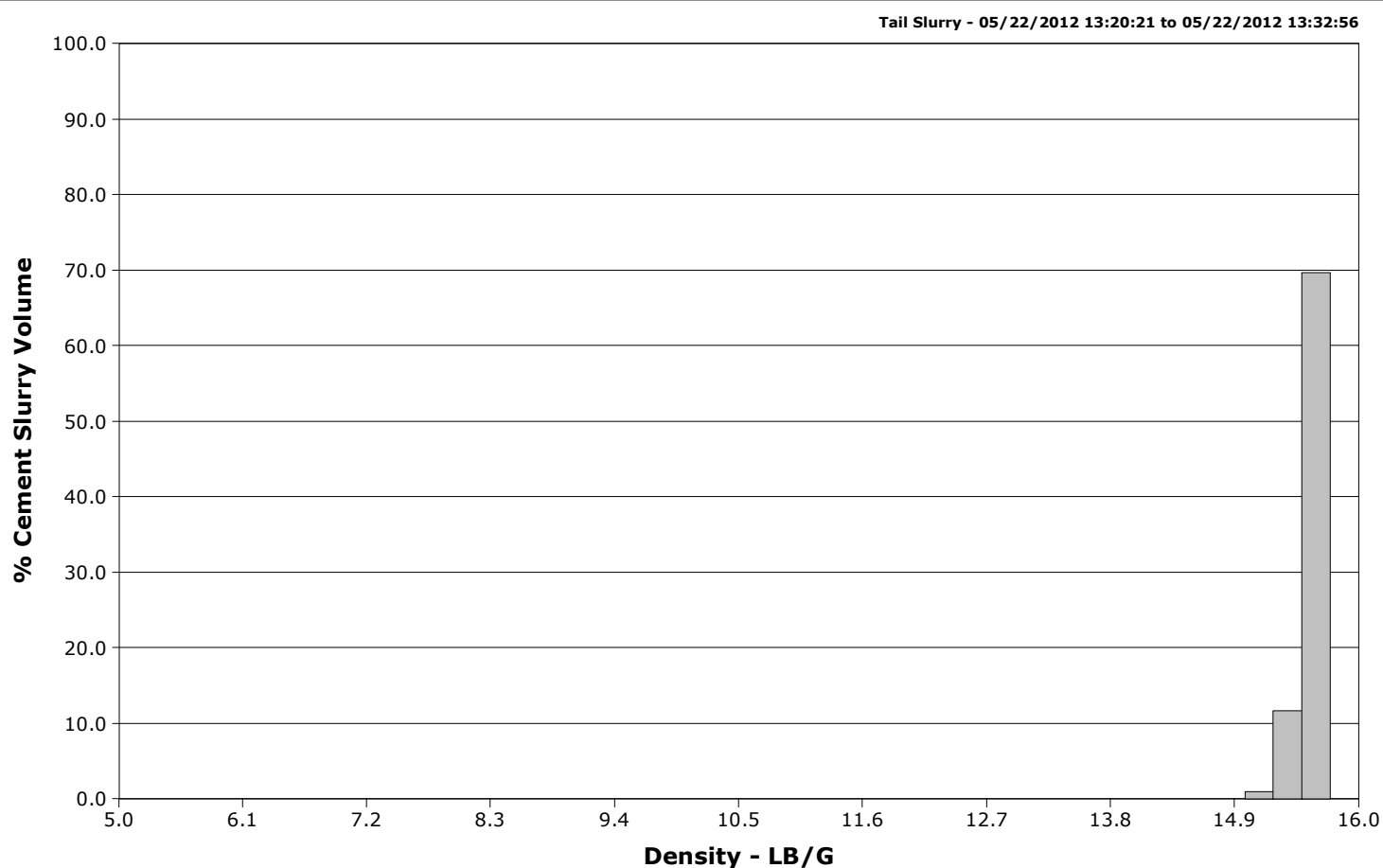
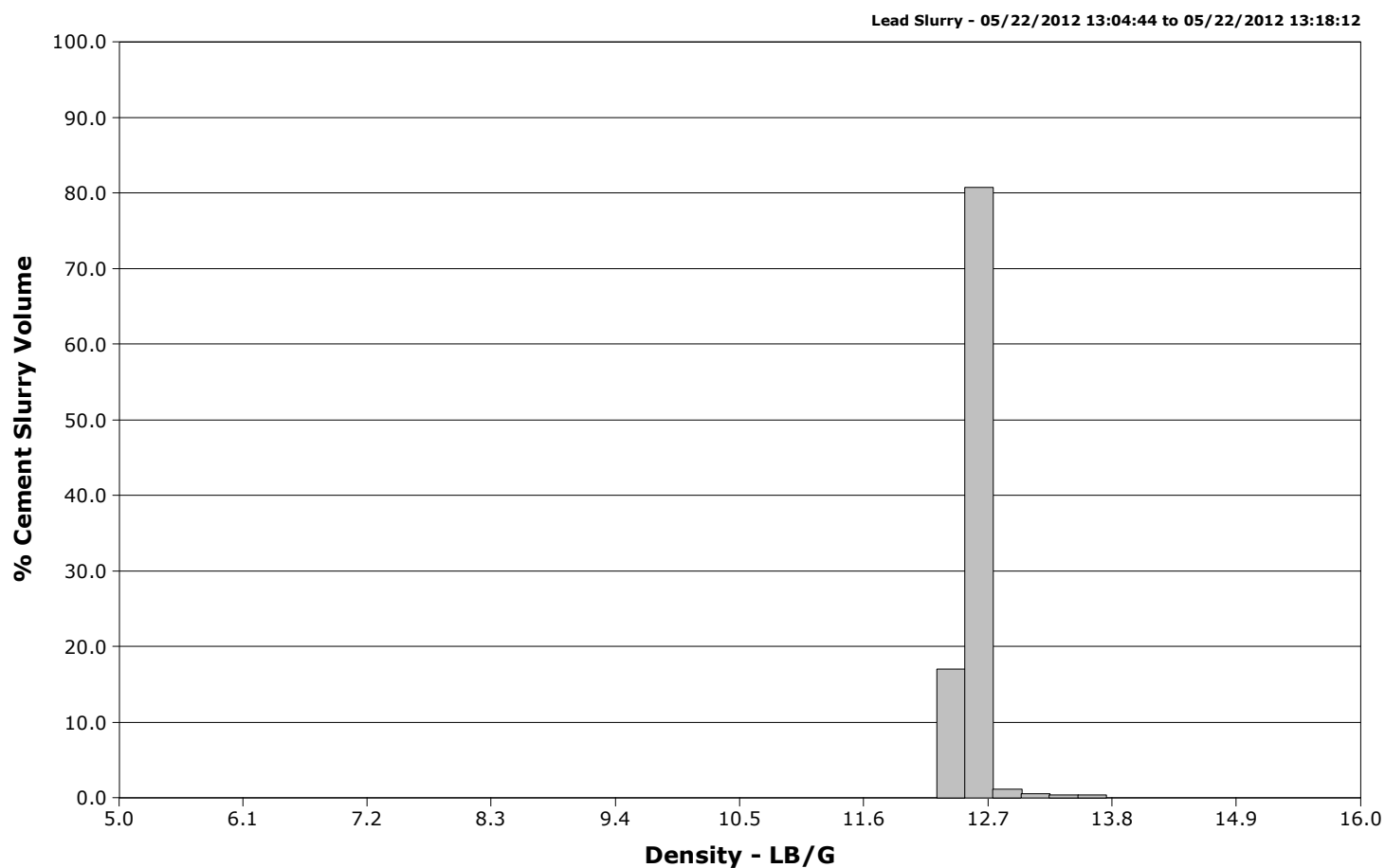


<b>Well</b>	MCU 22-12C	<b>Client</b>	ENCANA
<b>Field</b>	MAMM CREEK	<b>SIR No.</b>	777471
<b>Engineer</b>	Dant Ryan	<b>Job Type</b>	9 5/8 SURFACE CASSING
<b>Country</b>	United States	<b>Job Date</b>	05-21-2012



**Well** MCU 22-12C  
**Field** MAMM CREEK  
**Engineer** Dant Ryan  
**Country** United States

**Client** ENCANA  
**SIR No.** 777471  
**Job Type** 9 5/8 SURFACE CASSING  
**Job Date** 05-21-2012



				Customer ENCANA				Job Number 777471									
Well MCU 22-12C 22-12C				Location (legal) N22W				Schlumberger Location Grand Junction				Job Start May/21/2012					
Field MAMM CREEK			Formation Name/Type Shale			Deviation deg		Bit Size 12.3 in		Well MD 1450.0 ft		Well TVD 1450.0 ft					
County GARFIELD			State/Province COLORADO			BHP psi		BHST 93 degF		BHCT 82 degF		Pore Press. Gradient lb/gal					
Well Master 0631370429			API/UWI														
Rig Name NABORS M-15		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		60.0		16.0		65.0		N/A		N/A			
						1450.0		9.6		36.0		K55		8RD			
Drilling Fluid Type Bentonite			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 CASSING															
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi			WH Connection Single Cement head			Perforations/Open Hole									
								Top, ft		Bottom, ft		shot/ft		No. of Shots		Total Interval ft	
								ft		ft						Diameter in	
								ft		ft							
								Treat Down Casing		Displacement 109.0 bbl		Packer Type		Packer Depth ft			
								Tubing Vol. bbl		Casing Vol. 112.0 bbl		Annular Vol. 86.0 bbl		Openhole Vol. 203.0 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 717 psi				Shoe Type Float				Squeeze Type									
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>			Shoe Depth 1450.0 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 May/21/2012 23:00			Arrived on Location May/21/2012 23:00			Leave Location May/22/2012			Collar Type Float				Tail Pipe Depth ft				
									Collar Depth 1406.0 ft				Sqz. Total Vol. bbl				
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message											
05/22/2012	12:47:12	7	0.0	8.44	0.0	Started Acquisition											
05/22/2012	12:47:14	7	0.0	8.44	0.0	Start Job											
05/22/2012	12:47:15	7	0.0	8.44	0.0	Rig Up Per STD 5											
05/22/2012	12:47:16	7	0.0	8.44	0.0	Take Water Samples											
05/22/2012	12:48:42	5	0.0	8.44	0.0	Fill Lines											
05/22/2012	12:48:52	5	0.0	8.44	0.0												
05/22/2012	12:50:10	60	1.5	8.44	0.7	Pressure Test Lines											
05/22/2012	12:50:32	56	2.4	8.44	1.5												
05/22/2012	12:52:12	431	0.0	8.44	2.4												
05/22/2012	12:53:21	418	0.0	8.44	2.4	Low 500 psi Test = Good											
05/22/2012	12:53:52	3388	0.0	8.44	2.4												
05/22/2012	12:55:32	18	0.0	8.44	2.4												
05/22/2012	12:55:44	16	0.0	8.44	2.4	Start Pumping Spacer											
05/22/2012	12:55:47	15	0.0	8.44	2.4	Pump 20bbls of Water Sapcer											
05/22/2012	12:57:12	67	2.8	8.44	3.7												
05/22/2012	12:58:52	74	2.8	8.44	8.3												
05/22/2012	13:00:32	73	2.8	8.45	13.1												
05/22/2012	13:02:12	74	2.8	8.45	17.8												
05/22/2012	13:03:01	164	5.4	10.01	21.5	End Spacer											
05/22/2012	13:03:03	189	5.3	10.99	21.7	Start Cement Slurry											
05/22/2012	13:03:05	188	5.2	12.19	21.9	Reset Total, Vol = 21.90 bbl											

Well			Field		Job Start		Customer		Job Number	
MCU 22-12C 22-12C			MAMM CREEK		May/21/2012		ENCANA		777471	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
05/22/2012	13:04:43	345	6.4	12.74	30.4	End Scavenger Slurry				
05/22/2012	13:04:44	361	6.4	12.74	30.5	Start Mixing Lead Slurry				
05/22/2012	13:04:45	361	6.4	12.73	30.6	Pump 255sks (96bbls) 12.5 Lead				
05/22/2012	13:05:32	337	6.4	12.65	35.6					
05/22/2012	13:07:12	314	6.4	12.65	46.3					
05/22/2012	13:08:52	335	6.5	12.60	57.1					
05/22/2012	13:10:32	305	6.4	12.55	67.9					
05/22/2012	13:12:12	337	6.5	12.50	78.6					
05/22/2012	13:13:52	332	6.4	12.52	89.4					
05/22/2012	13:15:32	315	6.4	12.58	100.1					
05/22/2012	13:17:12	117	3.6	12.58	110.1					
05/22/2012	13:17:17	98	3.6	12.57	110.4	Good Returns				
05/22/2012	13:17:20	101	3.5	12.57	110.5	Pressure Scale = 12.5				
05/22/2012	13:18:12	111	3.3	13.35	113.4	End Lead Slurry				
05/22/2012	13:18:14	118	3.3	13.46	113.5	Start Mixing Scav Slurry				
05/22/2012	13:18:16	111	3.3	13.51	113.6	Reset Total, Vol = 91.74 bbl				
05/22/2012	13:18:52	116	3.0	14.34	115.5					
05/22/2012	13:20:20	107	2.7	15.21	119.7	End Scavenger Slurry				
05/22/2012	13:20:21	107	2.7	15.22	119.8	Start Mixing Tail Slurry				
05/22/2012	13:20:32	90	2.5	15.29	120.3					
05/22/2012	13:20:58	90	2.3	15.28	121.3	Pump 150sks (31bbls) 15.8 Tail				
05/22/2012	13:22:12	91	2.3	15.55	124.1					
05/22/2012	13:23:52	86	2.2	15.57	128.1					
05/22/2012	13:25:32	107	2.5	15.67	131.9					
05/22/2012	13:27:12	96	2.2	15.78	135.8					
05/22/2012	13:28:52	111	2.5	15.74	139.6					
05/22/2012	13:30:32	105	2.5	15.69	143.7					
05/22/2012	13:32:12	102	2.4	15.69	147.8					
05/22/2012	13:32:18	104	2.4	15.69	148.1	Pressure Scale = 15.7				
05/22/2012	13:32:19	103	2.4	15.69	148.1	Good Returns				
05/22/2012	13:32:56	19	0.1	15.75	149.4	End Tail Slurry				
05/22/2012	13:32:58	19	0.0	15.75	149.4	End Cement Slurry				
05/22/2012	13:33:47	18	0.0	15.74	149.4	Drop Top Plug				
05/22/2012	13:33:49	18	0.0	15.74	149.4	Start Displacement				
05/22/2012	13:33:52	18	0.0	15.74	149.4					
05/22/2012	13:33:53	17	0.0	15.74	149.4	Reset Total, Vol = 35.79 bbl				
05/22/2012	13:35:32	27	0.0	15.74	149.4					
05/22/2012	13:37:12	21	0.0	15.77	149.4					
05/22/2012	13:38:52	105	3.3	9.70	152.4					
05/22/2012	13:40:00	88	3.6	8.98	156.4	Displace 109bbls of Water				
05/22/2012	13:40:32	154	5.0	8.90	158.4					
05/22/2012	13:41:25	148	5.1	8.79	162.9	Good Returns				
05/22/2012	13:42:12	233	6.4	8.55	167.6					
05/22/2012	13:43:52	223	6.4	8.41	178.1					
05/22/2012	13:45:32	213	6.4	8.46	188.9					
05/22/2012	13:47:12	239	6.4	8.45	199.6					
05/22/2012	13:48:52	317	6.4	8.45	210.2					
05/22/2012	13:50:32	370	6.3	8.45	220.8					
05/22/2012	13:52:12	337	5.0	8.45	230.1					
05/22/2012	13:53:52	396	4.9	8.45	238.4					
05/22/2012	13:55:32	352	3.5	8.45	244.8					
05/22/2012	13:57:12	378	3.0	8.45	250.6					
05/22/2012	13:58:52	397	2.5	8.45	254.7					
05/22/2012	14:00:32	420	2.5	8.45	258.8					

Well			Field		Job Start	Customer		Job Number	
MCU 22-12C 22-12C			MAMM CREEK		May/21/2012	ENCANA		777471	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
05/22/2012	14:02:12	1170	0.0	8.45	259.8				
05/22/2012	14:03:52	1166	0.0	8.45	259.8				
05/22/2012	14:05:28	13	0.0	8.45	259.8	1/2bbls Back			
05/22/2012	14:05:32	13	0.0	8.45	259.8				
05/22/2012	14:07:12	13	0.0	8.45	259.8				
05/22/2012	14:08:52	13	0.0	8.45	259.8				
05/22/2012	14:10:32	27	0.0	8.45	259.8				
05/22/2012	14:12:12	9	0.0	8.45	259.8				

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 4.2	N2	Mud	Maximum Rate 6.5		Total Slurry 259.8	Mud 0.0	Spacer 21.5	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3388	Final 8	Average 278	Bump Plug to 700	Breakdown	Type	Volume bbl		Density lb/gal
Avg. N2 Percent %		Designed Slurry Volume 127.0 bbl		Displacement 110.4 bbl	Mix Water Temp 60 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 40.0 bbl
						Washed Thru Perfs <input type="checkbox"/>		To ft
Customer or Authorized Representative TERRY DUNN				Schlumberger Supervisor Dant Ryan		Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
						-		-