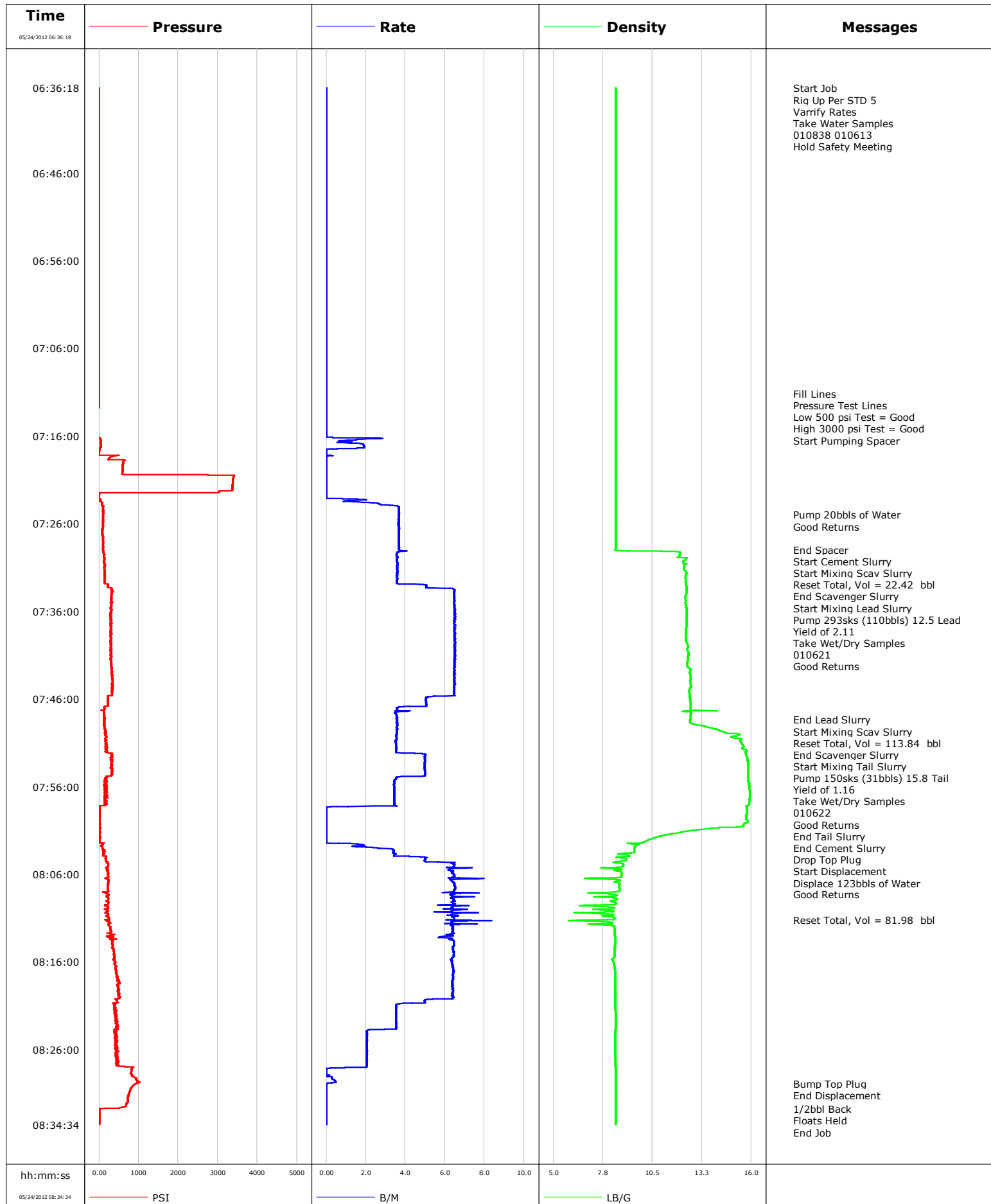


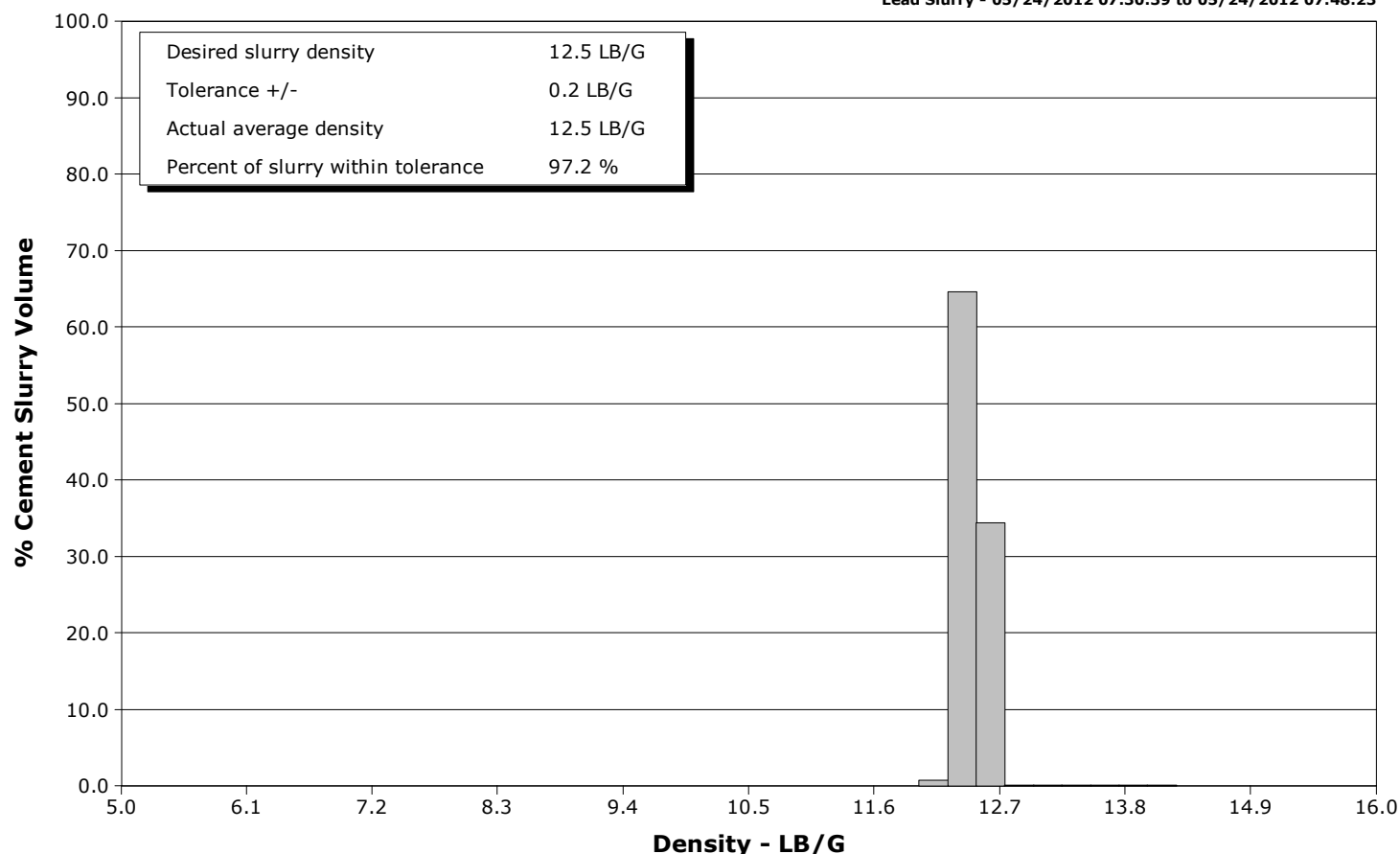
Well	MCU 22-12A	Client	ENCANA
Field	MAMM CREEK	SIR No.	777472
Engineer	Dant Ryan	Job Type	
Country	United States	Job Date	05-24-2012



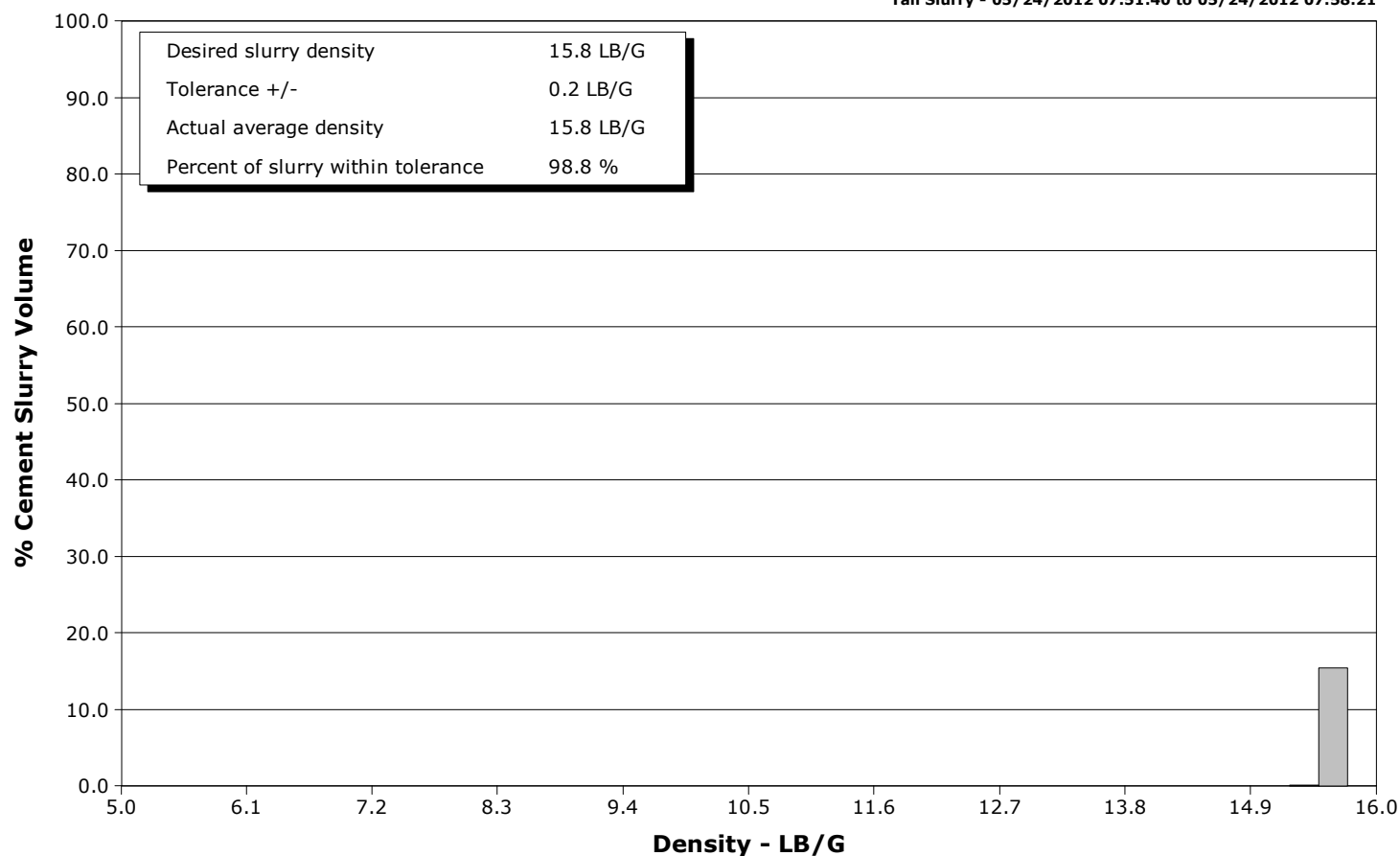
Well MCU 22-12A
Field MAMM CREEK
Engineer Dant Ryan
Country United States

Client ENCANA
SIR No. 777472
Job Type
Job Date 05-24-2012

Lead Slurry - 05/24/2012 07:30:39 to 05/24/2012 07:48:23



Tail Slurry - 05/24/2012 07:51:40 to 05/24/2012 07:58:21



				Customer ENCANA			Job Number 777472										
Well MCU 22-12A 22-12A			Location (legal) N22W			Schlumberger Location Grand Junction			Job Start May/24/2012								
Field MAMM CREEK		Formation Name/Type Shale			Deviation deg		Bit Size 12.3 in		Well MD 1640.0 ft		Well TVD 1640.0 ft						
County GARFIELD		State/Province COLORADO			BHP psi		BHST 93 degF		BHCT 82 degF		Pore Press. Gradient lb/gal						
Well Master 0631370430		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			
						1640.0		9.6		36.0		K55		8RD			
Drilling Fluid Type Bentonite		Max. Density 9.80 lb/gal		Plastic Viscosity 10.000 cP		Tubing/Drill Pipe											
						T/D		Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
Service Line Cementing		Job Type															
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			
Service Instructions Cement 9 5/8 Surface casing Pump 20bbls of Water Pump 293sks (110bbls) of 12.5 Lead Yield of 2.11 Pump 150sks (31bbls) of 15.8 Tail Yield of 1.16 Displace 123bbls of Water						ft		ft						Diameter ft			
						ft		ft						in			
						ft		ft									
						Treat Down Casing		Displacement 123.0 bbl		Packer Type		Packer Depth ft					
						Tubing Vol. bbl		Casing Vol. 127.0 bbl		Annular Vol. 96.0 bbl		Openhole Vol. 228.0 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 811 psi						Shoe Type Float				Squeeze Type							
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 1640.0 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/24/2012 00:00		Arrived on Location May/24/2012 00:00		Leave Location May/24/2012		Collar Type Float				Tail Pipe Depth ft							
						Collar Depth 1640.0 ft				Sqz. Total Vol. bbl							
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message											
05/24/2012	06:36:18	-11	0.0	8.46	0.0	Started Acquisition											
05/24/2012	06:36:19	-11	0.0	8.46	0.0	Start Job											
05/24/2012	06:36:20	-11	0.0	8.46	0.0	Rig Up Per STD 5											
05/24/2012	06:37:58	-11	0.0	8.46	0.0												
05/24/2012	06:39:38	-11	0.0	8.46	0.0												
05/24/2012	06:41:18	-11	0.0	8.46	0.0												
05/24/2012	06:42:58	-11	0.0	8.46	0.0												
05/24/2012	06:44:38	-12	0.0	8.46	0.0												
05/24/2012	06:46:18	-12	0.0	8.46	0.0												
05/24/2012	06:47:58	-11	0.0	8.46	0.0												
05/24/2012	06:49:38	-11	0.0	8.46	0.0												
05/24/2012	06:51:18	-12	0.0	8.46	0.0												
05/24/2012	06:52:58	-11	0.0	8.46	0.0												
05/24/2012	06:54:38	-11	0.0	8.46	0.0												
05/24/2012	06:56:18	-11	0.0	8.46	0.0												
05/24/2012	06:57:58	-12	0.0	8.46	0.0												
05/24/2012	06:59:38	-12	0.0	8.46	0.0												
05/24/2012	07:01:18	-11	0.0	8.46	0.0												
05/24/2012	07:02:58	-12	0.0	8.46	0.0												
05/24/2012	07:04:38	-11	0.0	8.46	0.0												
05/24/2012	07:06:18	-11	0.0	8.46	0.0												

Well			Field		Job Start		Customer		Job Number	
MCU 22-12A 22-12A			MAMM CREEK		May/24/2012		ENCANA		777472	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
05/24/2012	07:09:38	-11	0.0	8.46	0.0					
05/24/2012	07:11:12	-11	0.0	8.46	0.0	Fill Lines				
05/24/2012	07:11:13	-11	0.0	8.46	0.0	Pressure Test Lines				
05/24/2012	07:11:14	-11	0.0	8.46	0.0	Low 500 psi Test = Good				
05/24/2012	07:11:15	-11	0.0	8.46	0.0	High 3000 psi Test = Good				
05/24/2012	07:11:18	-11	0.0	8.46	0.0					
05/24/2012	07:11:19	-11	0.0	8.46	0.0	Start Pumping Spacer				
05/24/2012	07:12:58	-13	0.0	8.46	0.0					
05/24/2012	07:14:38	-13	0.0	8.46	0.0					
05/24/2012	07:16:18	24	2.8	8.47	0.2					
05/24/2012	07:17:58	-1	0.0	8.46	2.1					
05/24/2012	07:19:38	593	0.0	8.46	2.1					
05/24/2012	07:21:18	3373	0.0	8.46	2.1					
05/24/2012	07:22:58	-1	0.0	8.46	2.1					
05/24/2012	07:24:38	94	3.7	8.46	6.1					
05/24/2012	07:25:00	102	3.7	8.46	7.5	Pump 20bbls of Water				
05/24/2012	07:25:26	94	3.7	8.46	9.0	Good Returns				
05/24/2012	07:26:18	90	3.7	8.46	12.2					
05/24/2012	07:27:58	97	3.7	8.45	18.3					
05/24/2012	07:28:57	90	3.7	8.45	21.9	End Spacer				
05/24/2012	07:28:59	88	3.7	8.45	22.1	Start Cement Slurry				
05/24/2012	07:29:02	100	3.7	8.45	22.2	Start Mixing Scav Slurry				
05/24/2012	07:29:05	107	3.8	8.45	22.4	Reset Total, Vol = 22.42 bbl				
05/24/2012	07:29:38	125	3.5	12.00	24.4					
05/24/2012	07:30:38	149	3.6	12.38	28.0	End Scavenger Slurry				
05/24/2012	07:30:39	149	3.6	12.34	28.1	Start Mixing Lead Slurry				
05/24/2012	07:30:41	133	3.6	12.31	28.2	Pump 293sks (110bbls) 12.5 Lead				
05/24/2012	07:31:03	120	3.6	12.28	29.5	Take Wet/Dry Samples				
05/24/2012	07:31:04	120	3.6	12.26	29.6	010621				
05/24/2012	07:31:18	140	3.6	12.25	30.4					
05/24/2012	07:31:30	141	3.6	12.37	31.1	Good Returns				
05/24/2012	07:32:58	235	4.8	12.38	36.4					
05/24/2012	07:34:38	319	6.5	12.34	46.6					
05/24/2012	07:36:18	296	6.5	12.41	57.4					
05/24/2012	07:37:58	296	6.5	12.38	68.2					
05/24/2012	07:39:38	299	6.5	12.44	79.0					
05/24/2012	07:41:18	300	6.5	12.46	89.8					
05/24/2012	07:42:58	332	6.5	12.58	100.6					
05/24/2012	07:44:38	332	6.4	12.64	111.4					
05/24/2012	07:46:18	223	5.1	12.60	121.4					
05/24/2012	07:47:58	130	3.6	12.62	128.2					
05/24/2012	07:48:23	146	3.6	12.60	129.7	End Lead Slurry				
05/24/2012	07:49:26	152	3.6	13.97	133.5	Start Mixing Scav Slurry				
05/24/2012	07:49:38	156	3.6	14.23	134.2					
05/24/2012	07:50:13	163	3.5	15.23	136.3	Reset Total, Vol = 113.84 bbl				
05/24/2012	07:51:18	192	3.5	15.53	140.1					
05/24/2012	07:51:39	165	3.5	15.49	141.3	End Scavenger Slurry				
05/24/2012	07:51:40	165	3.5	15.49	141.4	Start Mixing Tail Slurry				
05/24/2012	07:51:42	187	3.5	15.50	141.5	Pump 150sks (31bbls) 15.8 Tail				
05/24/2012	07:52:58	293	5.0	15.78	147.1					
05/24/2012	07:54:38	308	5.0	15.82	155.4					
05/24/2012	07:55:11	187	3.5	15.82	157.6	Take Wet/Dry Samples				
05/24/2012	07:55:12	187	3.5	15.82	157.7	010622				
05/24/2012	07:55:38	189	3.4	15.89	159.2	Good Returns				

Well			Field		Job Start	Customer		Job Number
MCU 22-12A 22-12A			MAMM CREEK		May/24/2012	ENCANA		777472
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
05/24/2012	07:57:58	217	3.5	15.88	167.2			
05/24/2012	07:58:21	12	0.1	15.75	168.2	End Tail Slurry		
05/24/2012	07:58:22	12	0.0	15.75	168.2	End Cement Slurry		
05/24/2012	07:58:25	11	0.0	15.75	168.2	Drop Top Plug		
05/24/2012	07:58:26	11	0.0	15.75	168.2	Start Displacement		
05/24/2012	07:58:27	10	0.0	15.75	168.2	Displace 123bbls of Water		
05/24/2012	07:59:38	13	0.0	15.72	168.2			
05/24/2012	08:01:18	8	0.0	11.94	168.2			
05/24/2012	08:02:58	80	2.4	9.55	169.0			
05/24/2012	08:04:38	219	5.7	8.45	175.7			
05/24/2012	08:06:18	229	6.4	8.79	186.4			
05/24/2012	08:07:24	217	6.5	8.66	193.5	Good Returns		
05/24/2012	08:07:58	231	6.5	8.66	197.2			
05/24/2012	08:09:38	159	6.8	7.00	208.0			
05/24/2012	08:11:13	207	6.3	7.97	218.2	Reset Total, Vol = 81.98 bbl		
05/24/2012	08:11:18	259	7.3	5.84	218.8			
05/24/2012	08:12:58	319	6.3	8.42	229.5			
05/24/2012	08:14:38	359	6.4	8.38	240.1			
05/24/2012	08:16:18	391	6.4	8.36	250.7			
05/24/2012	08:17:58	456	6.4	8.45	261.4			
05/24/2012	08:19:38	516	6.4	8.45	272.0			
05/24/2012	08:21:18	401	3.5	8.45	280.4			
05/24/2012	08:22:58	452	3.5	8.45	286.3			
05/24/2012	08:24:38	455	2.0	8.45	290.8			
05/24/2012	08:26:18	430	2.0	8.45	294.2			
05/24/2012	08:27:58	657	2.0	8.45	297.7			
05/24/2012	08:29:38	978	0.5	8.45	298.1			
05/24/2012	08:29:54	949	0.0	8.45	298.2	Bump Top Plug		
05/24/2012	08:29:55	949	0.0	8.45	298.2	End Displacement		
05/24/2012	08:31:18	737	0.0	8.45	298.2			
05/24/2012	08:32:47	12	0.0	8.45	298.2	1/2bbl Back		
05/24/2012	08:32:48	9	0.0	8.45	298.2	Floats Held		
05/24/2012	08:32:58	7	0.0	8.45	298.2			

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 4.7	N2	Mud	Maximum Rate 8.4	Total Slurry 298.2	Mud 0.0	Spacer 21.9	N2 0	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3410	Final 7	Average 359	Bump Plug to 1000	Breakdown 0	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 141.0 bbl		Displacement 129.9 bbl	Mix Water Temp 60 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 47.0 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"/>	
						-	-	