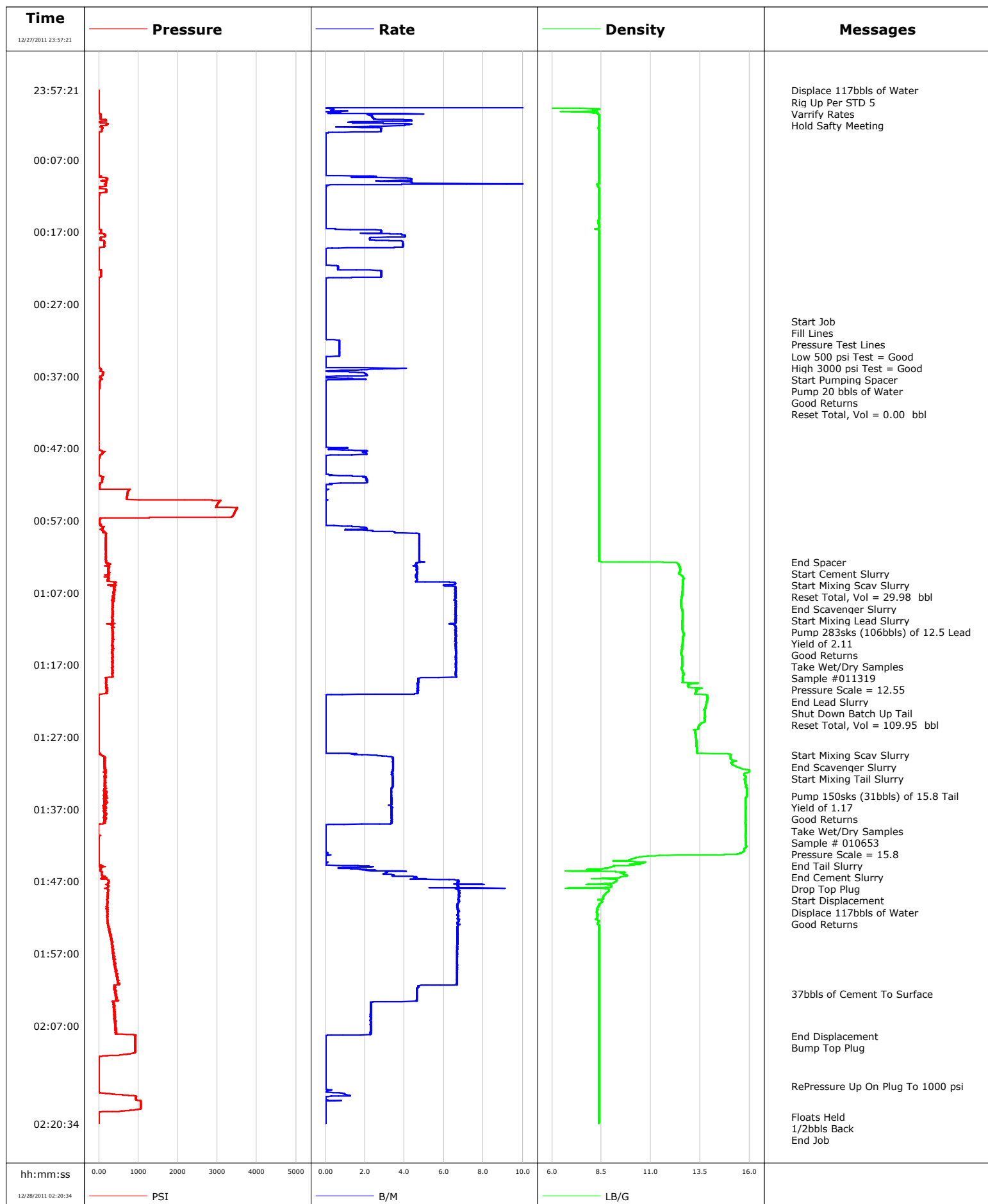


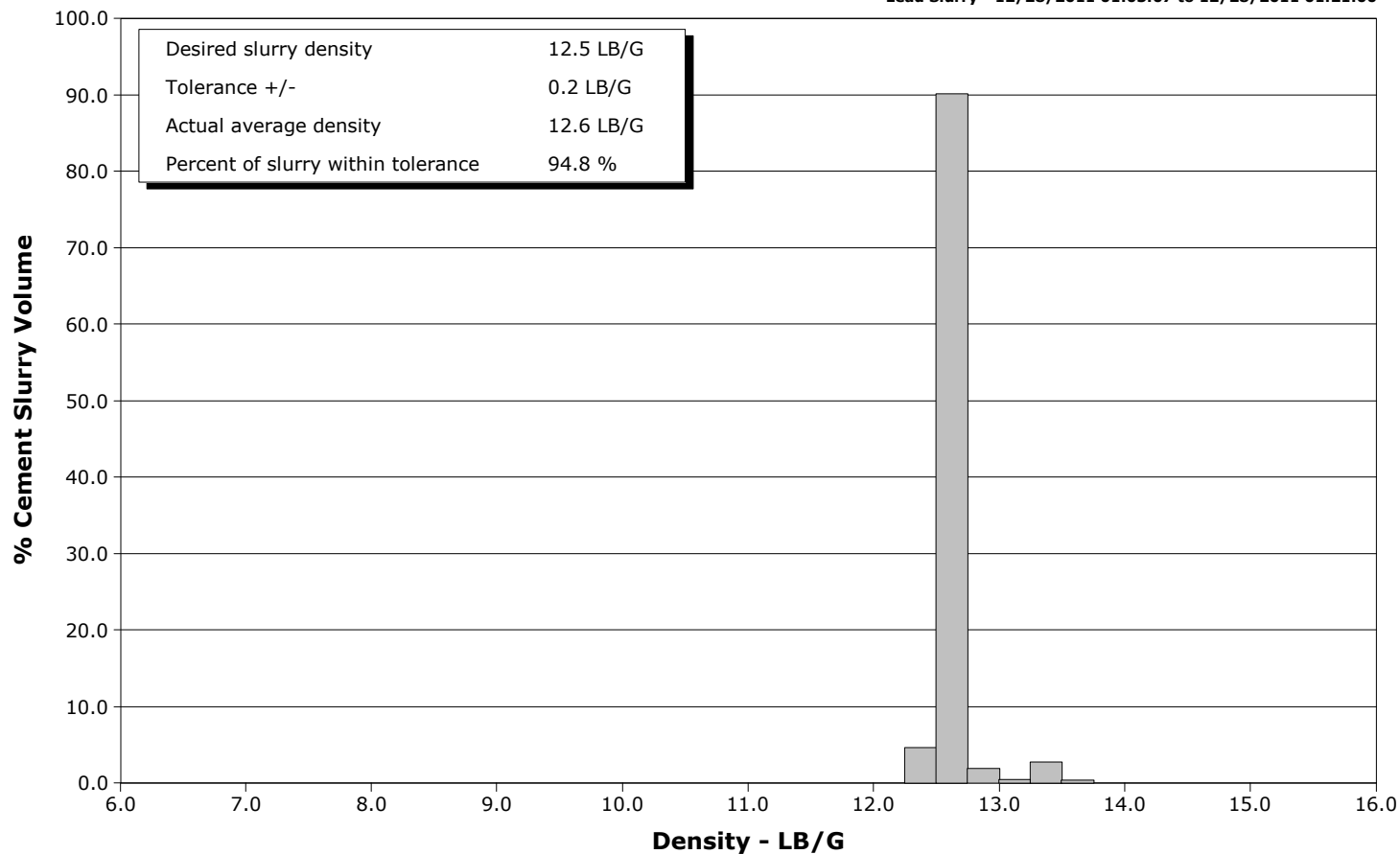
Well	HMU FEDERAL 16-16B	Client	ENCANA
Field	MAMM CREEK	SIR No.	682779
Engineer	Dant Ryan/Ted Hansen	Job Type	9 5/8 SURFACE
Country	United States	Job Date	12-27-2011



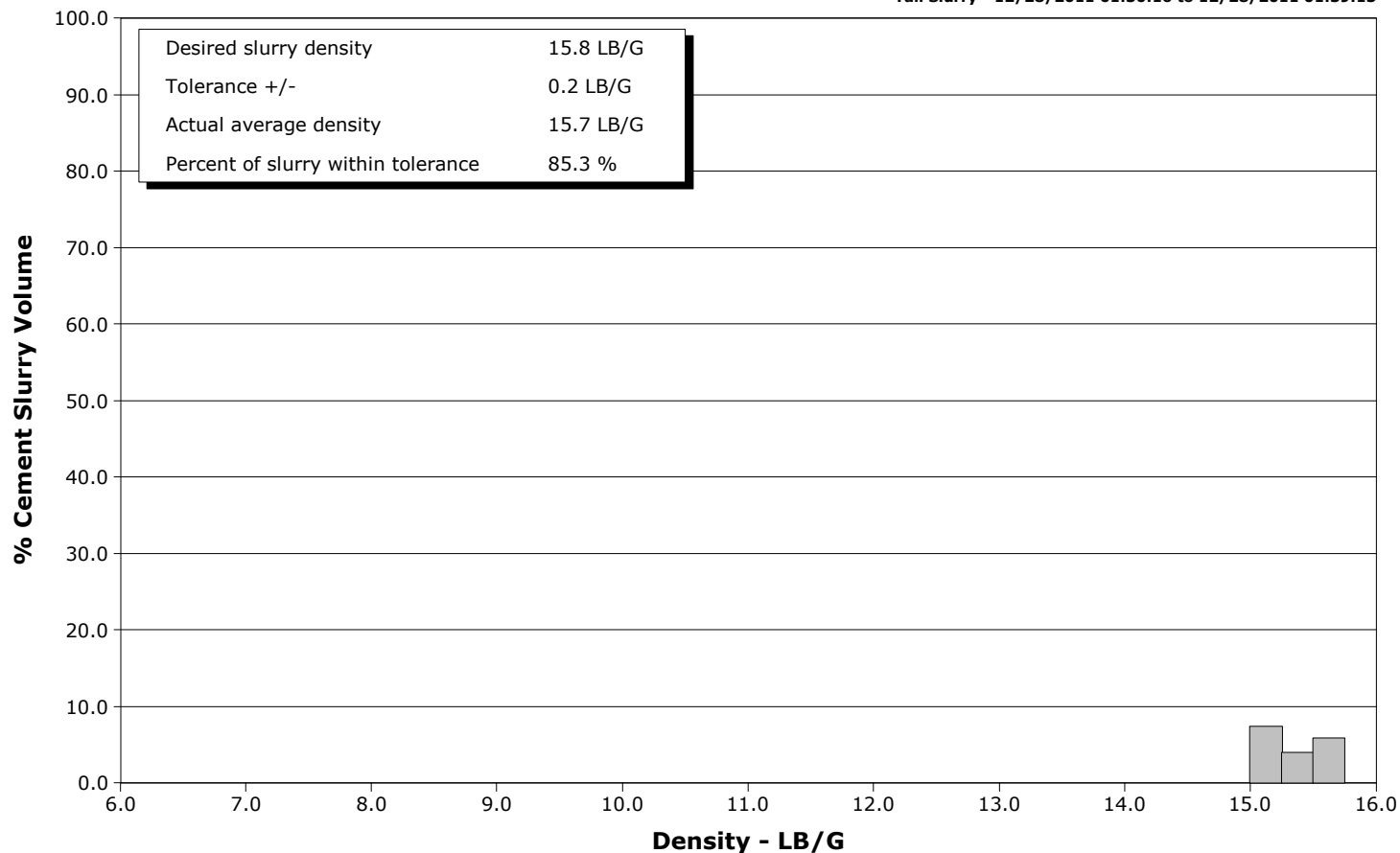
Well HMU FEDERAL 16-16B
Field MAMM CREEK
Engineer Dant Ryan/Ted Hansen
Country United States

Client ENCANA
SIR No. 682779
Job Type 9 5/8 SURFACE
Job Date 12-27-2011

Lead Slurry - 12/28/2011 01:03:07 to 12/28/2011 01:21:00



Tail Slurry - 12/28/2011 01:30:16 to 12/28/2011 01:39:13



				Customer ENCANA			Job Number 682779		
Well HMU FEDERAL 16-16B HMU FEDERAL 16-16B				Location (legal) J 16 W			Schlumberger Location		
							Job Start Dec/27/2011		
Field MAMM CREEK		Formation Name/Type Shale		Deviation deg		Bit Size 12.3 in		Well MD 1564.0 ft	
County GARFOLD		State/Province Colorado		BHP psi		BHST 100 degF		BHCT 86 degF	
Well Master 0631254656		API/UWI 05045202021500						Pore Press. Gradient lb/gal	
Rig Name Nabors M-11		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		40.0		16.0	
						1564.0		9.6	
						65.0		N/A	
						36.0		K55	
						N/A		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							
Max. Allowed Tub. Press 3000 psi		Max. Allowed Ann. Press 500 psi		WH Connection Single Cement head		Perforations/Open Hole			
						Top, ft		Bottom, ft	
						shot/ft		No. of Shots	
						Total Interval ft			
						ft		ft	
						ft		ft	
						ft		ft	
						Treat Down Casing		Displacement 117.0 bbl	
						Packer Type		Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 121.0 bbl	
						Annular Vol. 90.0 bbl		Openhole Vol. 215.0 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 774 psi				Shoe Type Float		Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1564.0 ft		Tool Type			
No. Centralizers		Top Plugs		Bottom Plugs		Stage Tool Type		Tool Depth ft	
Cement Head Type Single						Stage Tool Depth ft		Tail Pipe Size in	
Job Scheduled For Dec/27/2011 21:00		Arrived on Location Dec/27/2011 21:00		Leave Location Dec/27/2011 04:00		Collar Type Float		Tail Pipe Depth ft	
						Collar Depth 1513.0 ft		Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
12/27/2011	23:57:21	-3	25.0	-0.03	1286.7	Started Acquisition			
12/27/2011	23:58:20	-2	25.0	-0.03	1311.3	Rig Up Per STD 5			
12/27/2011	23:58:21	-2	25.0	-0.03	1311.7	Hold Safty Meeting			
12/27/2011	23:59:01	-2	25.0	-0.03	1328.3				
12/28/2011	00:00:41	41	2.7	8.32	1348.0				
12/28/2011	00:02:21	72	2.2	8.37	1352.8				
12/28/2011	00:04:01	-6	0.0	8.37	1355.0				
12/28/2011	00:05:41	-6	0.0	8.37	1355.0				
12/28/2011	00:07:21	-5	0.0	8.37	1355.0				
12/28/2011	00:09:01	-3	0.0	8.37	1355.0				
12/28/2011	00:10:41	182	0.0	8.32	1360.4				
12/28/2011	00:12:21	-6	0.0	8.36	1360.4				
12/28/2011	00:14:01	-6	0.0	8.36	1360.5				
12/28/2011	00:15:41	-6	0.0	8.35	1360.5				
12/28/2011	00:17:21	132	3.9	8.36	1362.3				
12/28/2011	00:19:01	136	3.9	8.37	1368.1				
12/28/2011	00:20:41	-9	0.0	8.37	1368.9				
12/28/2011	00:22:21	57	2.8	8.36	0.5				
12/28/2011	00:24:01	-8	0.0	8.36	3.3				
12/28/2011	00:25:41	-7	0.0	8.36	3.3				
12/28/2011	00:27:21	-7	0.0	8.36	3.3				

Well			Field		Job Start		Customer		Job Number	
HMU FEDERAL 16-16B HMU FEDERAL 16-16B			MAMM CREEK		Dec/27/2011		ENCANA		682779	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
12/28/2011	00:29:25	-7	0.0	8.36	3.3	Start Job				
12/28/2011	00:29:26	-7	0.0	8.36	3.3	Fill Lines				
12/28/2011	00:29:29	-7	0.0	8.36	3.3	Pressure Test Lines				
12/28/2011	00:29:32	-7	0.0	8.36	3.3	Low 500 psi Test = Good				
12/28/2011	00:29:34	-7	0.0	8.36	3.3	Start Pumping Spacer				
12/28/2011	00:29:36	-7	0.0	8.36	3.3	Pump 20 bbls of Water				
12/28/2011	00:29:40	-7	0.0	8.36	3.3	Reset Total, Vol = 0.00 bbl				
12/28/2011	00:30:41	-7	0.0	8.36	3.3					
12/28/2011	00:32:21	-4	0.7	8.36	3.6					
12/28/2011	00:34:01	-4	0.7	8.37	4.8					
12/28/2011	00:35:41	-7	0.0	8.37	0.0					
12/28/2011	00:37:21	60	1.4	8.37	2.1					
12/28/2011	00:39:01	-7	0.0	8.37	2.4					
12/28/2011	00:40:41	-9	0.0	8.37	2.4					
12/28/2011	00:42:21	-10	0.0	8.37	2.4					
12/28/2011	00:44:01	-10	0.0	8.36	2.4					
12/28/2011	00:45:41	-12	0.0	8.36	2.4					
12/28/2011	00:47:21	68	2.1	8.37	2.8					
12/28/2011	00:49:01	-9	0.0	8.37	4.0					
12/28/2011	00:50:41	-6	0.3	8.37	4.0					
12/28/2011	00:52:21	17	0.0	8.37	6.2					
12/28/2011	00:54:01	704	0.0	8.37	6.2					
12/28/2011	00:55:41	3455	0.0	8.37	6.2					
12/28/2011	00:57:21	17	0.0	8.36	6.2					
12/28/2011	00:59:01	182	4.8	8.36	9.6					
12/28/2011	01:00:41	175	4.8	8.36	17.5					
12/28/2011	01:02:21	171	4.8	8.36	25.4					
12/28/2011	01:02:47	179	4.8	11.63	27.5	End Spacer				
12/28/2011	01:02:49	193	4.7	11.99	27.7	Start Cement Slurry				
12/28/2011	01:02:50	193	4.7	12.17	27.7	Start Mixing Scav Slurry				
12/28/2011	01:02:57	192	4.6	12.35	28.3	Reset Total, Vol = 29.98 bbl				
12/28/2011	01:03:06	216	4.6	12.40	29.0	End Scavenger Slurry				
12/28/2011	01:03:07	297	4.6	12.41	29.0	Start Mixing Lead Slurry				
12/28/2011	01:03:10	255	4.6	12.41	29.3	Pump 283sks (106bbls) of 12.5 Lead				
12/28/2011	01:03:11	236	4.6	12.42	29.3	Good Returns				
12/28/2011	01:04:00	239	4.6	12.49	33.1	Take Wet/Dry Samples				
12/28/2011	01:04:01	254	4.6	12.48	33.2	Sample #011319				
12/28/2011	01:05:09	228	4.6	12.65	38.4	Pressure Scale = 12.55				
12/28/2011	01:05:41	402	6.6	12.63	41.2					
12/28/2011	01:07:21	363	6.6	12.58	52.0					
12/28/2011	01:09:01	349	6.6	12.54	63.0					
12/28/2011	01:10:41	346	6.6	12.59	74.0					
12/28/2011	01:12:21	354	6.6	12.62	84.9					
12/28/2011	01:14:01	335	6.6	12.61	95.9					
12/28/2011	01:15:41	349	6.6	12.56	106.9					
12/28/2011	01:17:21	346	6.6	12.56	117.9					
12/28/2011	01:19:01	184	4.7	12.62	128.5					
12/28/2011	01:20:41	203	4.7	13.32	136.3					
12/28/2011	01:21:00	199	4.7	13.24	137.8	End Lead Slurry				
12/28/2011	01:21:53	-9	0.0	13.86	138.3	Shut Down Batch Up Tail				
12/28/2011	01:21:55	-9	0.0	13.86	138.3	Reset Total, Vol = 109.95 bbl				
12/28/2011	01:22:21	-10	0.0	13.81	138.3					
12/28/2011	01:24:01	-8	0.0	13.74	138.3					
12/28/2011	01:25:41	-6	0.0	13.40	138.3					

Well			Field		Job Start		Customer		Job Number	
HMU FEDERAL 16-16B HMU FEDERAL 16-16B			MAMM CREEK		Dec/27/2011		ENCANA		682779	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G		Volume BBL		Message	
12/28/2011	01:29:01	-5		0.0	13.33		138.3			
12/28/2011	01:29:33	84		2.6	15.04		138.8		Start Mixing Scav Slurry	
12/28/2011	01:30:14	160		3.4	15.15		141.0		End Scavenger Slurry	
12/28/2011	01:30:16	158		3.4	15.16		141.1		Start Mixing Tail Slurry	
12/28/2011	01:30:41	153		3.4	15.08		142.5			
12/28/2011	01:32:21	146		3.4	15.73		148.2			
12/28/2011	01:34:01	150		3.4	15.82		153.9			
12/28/2011	01:35:09	127		3.3	15.85		157.7		Pump 150sks (31bbls) of 15.8 Tail	
12/28/2011	01:35:41	180		3.3	15.80		159.4			
12/28/2011	01:37:21	136		3.3	15.80		165.0			
12/28/2011	01:39:01	136		3.3	15.80		170.6			
12/28/2011	01:39:13	-14		0.0	15.82		170.9		End Tail Slurry	
12/28/2011	01:39:14	-14		0.0	15.82		170.9		End Cement Slurry	
12/28/2011	01:39:17	-14		0.0	15.82		170.9		Drop Top Plug	
12/28/2011	01:39:18	-15		0.0	15.82		170.9		Start Displacement	
12/28/2011	01:39:20	-15		0.0	15.82		170.9		Displace 117bbls of Water	
12/28/2011	01:40:41	-23		0.0	15.80		170.9			
12/28/2011	01:42:21	-4		0.0	15.81		170.9			
12/28/2011	01:44:01	-2		0.0	9.95		170.9			
12/28/2011	01:45:41	74		3.1	9.23		172.6			
12/28/2011	01:47:21	229		6.7	8.48		180.6			
12/28/2011	01:49:01	225		6.8	8.62		192.0			
12/28/2011	01:50:41	222		6.7	8.34		203.2			
12/28/2011	01:52:21	216		6.7	8.27		214.4			
12/28/2011	01:54:01	273		6.7	8.37		225.5			
12/28/2011	01:55:41	329		6.7	8.37		236.7			
12/28/2011	01:57:21	367		6.7	8.37		247.8			
12/28/2011	01:59:01	415		6.6	8.36		258.9			
12/28/2011	02:00:41	463		6.7	8.37		270.0			
12/28/2011	02:02:21	411		4.6	8.36		279.2			
12/28/2011	02:02:37	423		4.6	8.36		280.5		37bbls of Cement To Surface	
12/28/2011	02:04:01	369		2.3	8.37		286.2			
12/28/2011	02:05:41	405		2.3	8.37		290.0			
12/28/2011	02:07:21	426		2.3	8.36		293.8			
12/28/2011	02:08:26	912		0.0	8.37		296.0		End Displacement	
12/28/2011	02:08:27	913		0.0	8.36		296.0		Bump Top Plug	
12/28/2011	02:09:01	918		0.0	8.36		296.0			
12/28/2011	02:10:41	911		0.0	8.36		296.0			
12/28/2011	02:12:21	-7		0.0	8.37		296.0			
12/28/2011	02:14:01	-7		0.0	8.37		296.0			
12/28/2011	02:15:21	-7		0.0	8.37		296.0		RePressure Up On Plug To 1000 psi	
12/28/2011	02:15:41	-7		0.0	8.37		296.0			
12/28/2011	02:17:21	983		0.1	8.37		296.6			
12/28/2011	02:19:01	1		0.0	8.37		296.6			
12/28/2011	02:19:36	-7		0.0	8.37		296.6		Floats Held	
12/28/2011	02:20:06	-7		0.0	8.37		296.6		1/2bbls Back	

Well H MU FEDERAL 16-16B H MU FEDERAL 16-16B	Field MAMM CREEK	Job Start Dec/27/2011	Customer ENCANA	Job Number 682779
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 4.4	N2	Mud	Maximum Rate 8.1		Total Slurry 298.3	Mud 0.0	Spacer 29.2	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3500	Final -8	Average 370	Bump Plug to 900	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 137.0 bbl	Displacement 125.1 bbl	Mix Water Temp 60 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 37.0 bbl		
					Washed Thru Perfs <input type="checkbox"/>	To ft		
Customer or Authorized Representative Jeff Johnson			Schlumberger Supervisor Dant Ryan/Ted Hansen			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-		-