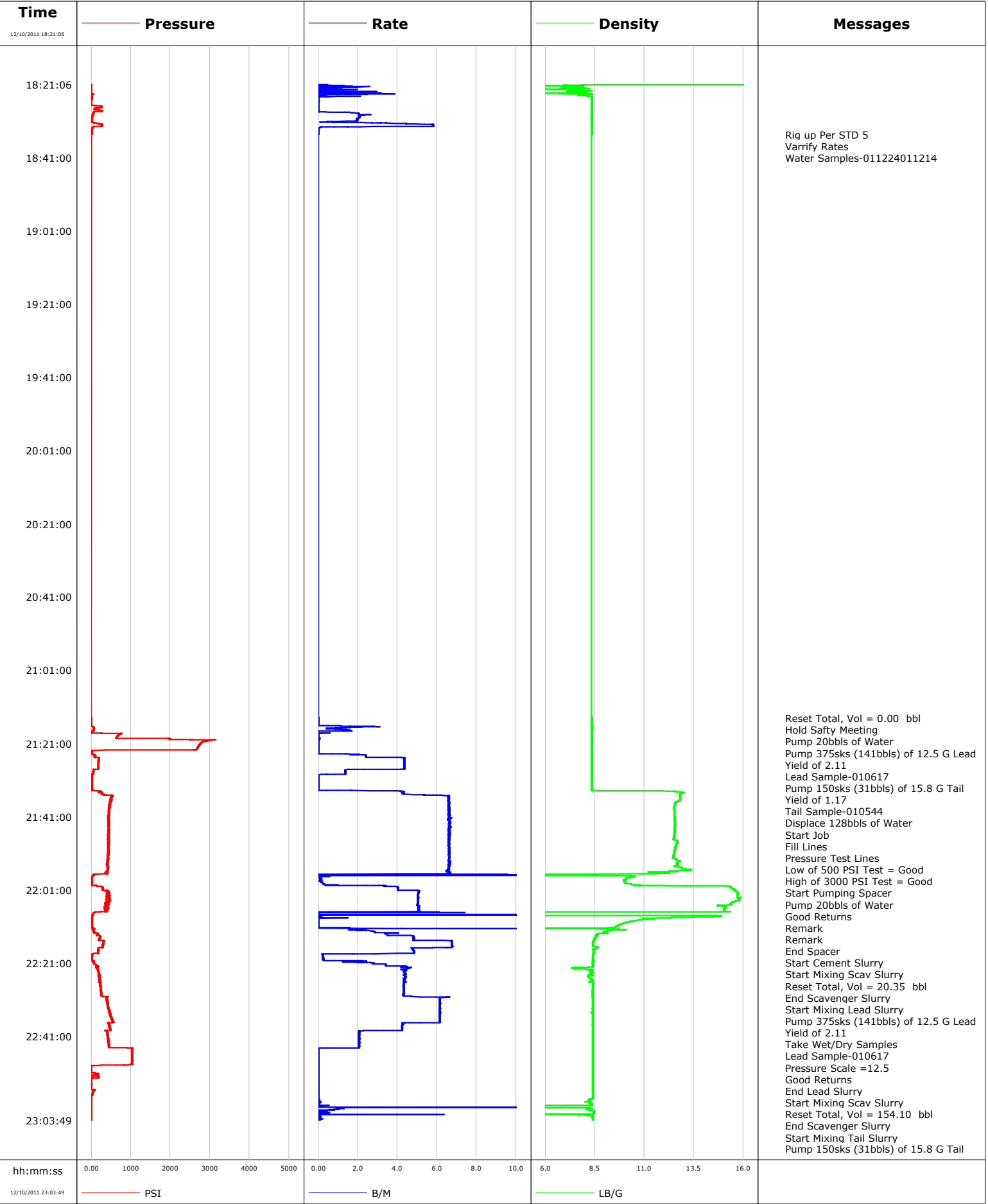


Well	HMU FEDERAL 21-1B J16W	Client	ENCANA
Field	MAMM CREEK	SIR No.	682773
Engineer	DANT RYAN/ZACK LANGSDORF	Job Type	9 5/8 SURFACE
Country	United States	Job Date	12-10-2011



				Customer ENCANA				Job Number 682773											
Well HMU FEDERAL 21-1B J16W HMU FEDERAL, 21-1B J16W				Location (legal) J16W				Schlumberger Location				Job Start Dec/10/2011							
Field MAMM CREEK			Formation Name/Type Shale			Deviation deg		Bit Size 12.3 in		Well MD 1701.0 ft		Well TVD 1701.0 ft							
County GARFILD			State/Province Colorado			BHP psi		BHST 100 degF		BHCT 86 degF		Pore Press. Gradient lb/gal							
Well Master 0631254658			API/UWI																
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		1701.0		9.6		36.0		J55							
						40.0		16.0		65.0		N/A		N/A					
Drilling Fluid Type Bentonite			Max. Density 9.30 lb/gal		Plastic Viscosity 15.000 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 2800 psi		Max. Allowed Ann. Press 1600 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 128.0 bbl		Packer Type		Packer Depth ft					
								Tubing Vol. bbl		Casing Vol. 132.0 bbl		Annular Vol. 98.0 bbl		Openhole Vol. 233.0 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 842 psi						Shoe Type Float				Squeeze Type									
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 1701.0 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 Dec/10/2011 12:00		Arrived on Location Dec/10/2011 12:00			Leave Location Dec/10/2011 00:00			Collar Type Float				Tail Pipe Depth ft							
								Collar Depth 1655.0 ft				Sqz. Total Vol. bbl							
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message													
12/10/2011	18:21:06	-3	0.0	18.89	19.2	Started Acquisition													
12/10/2011	18:22:46	-2	0.0	8.17	19.9														
12/10/2011	18:24:26	9	0.5	8.33	21.4														
12/10/2011	18:26:06	-0	0.0	8.33	21.4														
12/10/2011	18:27:46	79	0.0	8.33	0.0														
12/10/2011	18:29:26	35	2.4	8.34	1.4														
12/10/2011	18:31:06	18	1.9	8.33	4.8														
12/10/2011	18:32:46	44	0.1	8.34	10.7														
12/10/2011	18:34:26	5	0.0	8.33	10.7														
12/10/2011	18:34:38	4	0.0	8.33	10.7	Rig up Per STD 5													
12/10/2011	18:34:41	3	0.0	8.33	10.7	Water Samples-011224011214													
12/10/2011	21:14:03	-3	0.0	8.35	0.0	Reset Total, Vol = 0.00 bbl													
12/10/2011	21:14:06	-3	0.0	8.35	0.0	Hold Safty Meeting													
12/10/2011	21:14:07	-3	0.0	8.35	0.0	Pump 20bbls of Water													
12/10/2011	21:14:08	-3	0.0	8.35	0.0	Yield of 2.11													
12/10/2011	21:14:09	-3	0.0	8.35	0.0	Tail Sample-010544													
12/10/2011	21:14:11	-3	0.0	8.34	0.0	Start Job													
12/10/2011	21:14:12	-4	0.0	8.34	0.0	Fill Lines													
12/10/2011	21:14:19	-3	0.0	8.35	0.0	Pressure Test Lines													
12/10/2011	21:14:21	-3	0.0	8.35	0.0	Low of 500 PSI Test = Good													
12/10/2011	21:14:24	-3	0.0	8.35	0.0	Start Pumping Spacer													

Well	Field		Job Start		Customer		Job Number	
HMU FEDERAL 21-1B J16W HMU FEDERAL, 21-1B J16W	MAMM CREEK		Dec/10/2011		ENCANA		682773	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
12/10/2011	21:14:27	-3	0.0	8.34	0.0	Good Returns		
12/10/2011	21:16:06	-3	0.0	8.35	0.0			
12/10/2011	21:17:46	18	0.0	8.35	2.1			
12/10/2011	21:19:26	638	0.0	8.35	2.1			
12/10/2011	21:21:06	2747	0.0	8.35	2.1			
12/10/2011	21:22:46	2625	0.0	8.35	2.1			
12/10/2011	21:24:26	82	2.4	8.35	3.3			
12/10/2011	21:26:06	182	4.4	8.35	9.8			
12/10/2011	21:27:46	180	4.3	8.34	17.0			
12/10/2011	21:29:26	14	0.8	8.34	20.3			
12/10/2011	21:31:06	16	0.0	8.34	20.3			
12/10/2011	21:32:37	15	0.0	8.34	20.3	End Spacer		
12/10/2011	21:32:44	15	0.0	8.34	20.3	Start Cement Slurry		
12/10/2011	21:32:46	15	0.0	8.33	20.3	Start Mixing Scav Slurry		
12/10/2011	21:32:58	15	0.0	8.33	20.3	Reset Total, Vol = 20.35 bbl		
12/10/2011	21:34:26	177	4.3	12.99	22.7			
12/10/2011	21:35:38	519	6.6	12.81	29.1	End Scavenger Slurry		
12/10/2011	21:35:39	494	6.6	12.81	29.2	Start Mixing Lead Slurry		
12/10/2011	21:36:06	480	6.6	12.80	32.2			
12/10/2011	21:36:24	506	6.6	12.80	34.2	Pump 375sks (141bbls) of 12.5 G Lead		
12/10/2011	21:36:48	486	6.6	12.70	36.8	Yield of 2.11		
12/10/2011	21:36:51	468	6.6	12.69	37.1	Take Wet/Dry Samples		
12/10/2011	21:36:52	468	6.6	12.69	37.3	Good Returns		
12/10/2011	21:37:46	464	6.6	12.54	43.2			
12/10/2011	21:39:26	452	6.6	12.50	54.2			
12/10/2011	21:41:06	431	6.6	12.53	65.2			
12/10/2011	21:42:46	436	6.6	12.56	76.2			
12/10/2011	21:44:26	442	6.6	12.52	87.3			
12/10/2011	21:46:06	433	6.6	12.51	98.3			
12/10/2011	21:47:46	440	6.6	12.66	109.3			
12/10/2011	21:49:26	437	6.6	12.56	120.3			
12/10/2011	21:51:06	429	6.6	12.50	131.3			
12/10/2011	21:52:46	393	6.6	12.61	142.3			
12/10/2011	21:54:26	421	6.6	12.52	153.3			
12/10/2011	21:55:05	411	6.6	12.90	157.6	End Lead Slurry		
12/10/2011	21:56:06	375	6.6	11.20	164.3			
12/10/2011	21:57:25	21	0.3	10.38	174.4	Start Mixing Scav Slurry		
12/10/2011	21:57:31	18	0.1	10.35	174.4	Reset Total, Vol = 154.10 bbl		
12/10/2011	21:57:46	14	0.1	10.11	174.5			
12/10/2011	21:59:26	9	0.3	10.36	174.7			
12/10/2011	22:00:59	291	4.0	15.53	179.6	End Scavenger Slurry		
12/10/2011	22:01:00	290	4.0	15.54	179.7	Start Mixing Tail Slurry		
12/10/2011	22:01:02	293	4.0	15.54	179.8	Pump 150sks (31bbls) of 15.8 G Tail		
12/10/2011	22:01:03	293	4.0	15.55	179.9	Take Wet/Dry Sample		
12/10/2011	22:01:06	388	4.9	15.57	180.1			
12/10/2011	22:02:15	453	5.1	15.71	185.9	Pressure Scale=15.5		
12/10/2011	22:02:16	426	5.0	15.71	186.0	Good Returns		
12/10/2011	22:02:46	434	5.0	15.74	188.5			
12/10/2011	22:04:26	452	5.0	15.41	196.9			
12/10/2011	22:06:06	430	5.1	15.04	205.2			
12/10/2011	22:07:07	80	1.3	0.07	209.9	End Tail Slurry		
12/10/2011	22:07:13	62	0.0	-0.02	210.3	Drop Top Plug		
12/10/2011	22:07:14	62	0.0	-0.02	210.3	Start Displacement		
12/10/2011	22:07:20	52	0.0	-0.02	210.3	Displace 128bbls of Water		

Well			Field		Job Start	Customer		Job Number
HMU FEDERAL 21-1B J16W HMU FEDERAL, 21-1B J16W			MAMM CREEK		Dec/10/2011	ENCANA		682773
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
12/10/2011	22:09:26	15	0.0	10.44	214.8			
12/10/2011	22:11:06	12	0.0	9.54	214.8			
12/10/2011	22:12:46	105	3.4	9.17	218.5			
12/10/2011	22:14:26	209	4.8	8.46	225.5			
12/10/2011	22:16:06	283	6.7	8.38	236.1			
12/10/2011	22:17:46	167	4.8	8.45	245.5			
12/10/2011	22:19:26	10	0.2	8.40	248.8			
12/10/2011	22:21:06	65	2.8	8.38	250.8			
12/10/2011	22:22:46	168	4.3	8.36	257.3			
12/10/2011	22:24:26	199	4.4	8.16	264.6			
12/10/2011	22:26:06	192	4.4	8.24	271.9			
12/10/2011	22:27:46	228	4.3	8.38	279.1			
12/10/2011	22:29:26	251	4.3	8.38	286.2			
12/10/2011	22:31:06	393	6.1	8.38	295.2			
12/10/2011	22:32:46	420	6.1	8.38	305.4			
12/10/2011	22:34:26	453	6.1	8.35	315.7			
12/10/2011	22:36:06	506	6.1	8.38	325.9			
12/10/2011	22:37:46	450	4.2	8.38	335.1			
12/10/2011	22:39:26	407	2.3	8.38	342.2			
12/10/2011	22:41:06	410	2.1	8.38	345.6			
12/10/2011	22:42:46	439	2.1	8.38	349.0			
12/10/2011	22:44:26	1036	0.0	8.38	351.9			
12/10/2011	22:44:29	1034	0.0	8.38	351.9	Bump Top Plug		
12/10/2011	22:44:30	1036	0.0	8.39	351.9	End Displacement		
12/10/2011	22:44:31	1030	0.0	8.38	351.9	Hold For 4 min.		
12/10/2011	22:44:32	1034	0.0	8.38	351.9	1/2 bbls Back		
12/10/2011	22:46:06	1033	0.0	8.39	351.9			
12/10/2011	22:47:46	1037	0.0	8.38	351.9			
12/10/2011	22:48:36	1038	0.0	8.39	351.9	Floats Held		
12/10/2011	22:49:26	-8	0.0	8.39	351.9			
12/10/2011	22:51:06	95	0.0	8.39	351.9			
12/10/2011	22:52:46	-1	0.0	8.39	351.9			
12/10/2011	22:54:26	-2	0.0	8.39	351.9			
12/10/2011	22:55:25	-3	0.0	8.39	351.9	End Job		
12/10/2011	22:56:01	46	0.0	8.39	351.9	Stopped Acquisition		
12/10/2011	22:56:06	44	0.0	8.39	351.9			
12/10/2011	22:57:46	-4	0.0	8.39	351.9			
12/10/2011	22:59:26	-5	0.0	8.27	352.0			
12/10/2011	23:01:06	-5	0.7	8.24	353.9			

Well	Field	Job Start	Customer	Job Number
HMU FEDERAL 21-1B J16W HMU FEDERAL, 21-1B J16W	MAMM CREEK	Dec/10/2011	ENCANA	682773

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2
3.9			25.0		354.4	0.0	20.3	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume		Density
3126	-2	216	1000			bbl		lb/gal
Avg. N2 Percent		Designed Slurry Volume		Displacement	Mix Water Temp	Cement Circulated to Surface?		Volume
%		172.0 bbl		141.7 bbl	85 degF	<input checked="" type="checkbox"/>		78.0 bbl
						<input type="checkbox"/>		To
								ft
Customer or Authorized Representative			Schlumberger Supervisor			Circulation Lost		Job Completed
MARCO SILVA			DANT RYAN/ZACK LANGSDORF			<input type="checkbox"/>		<input checked="" type="checkbox"/>
						-		-