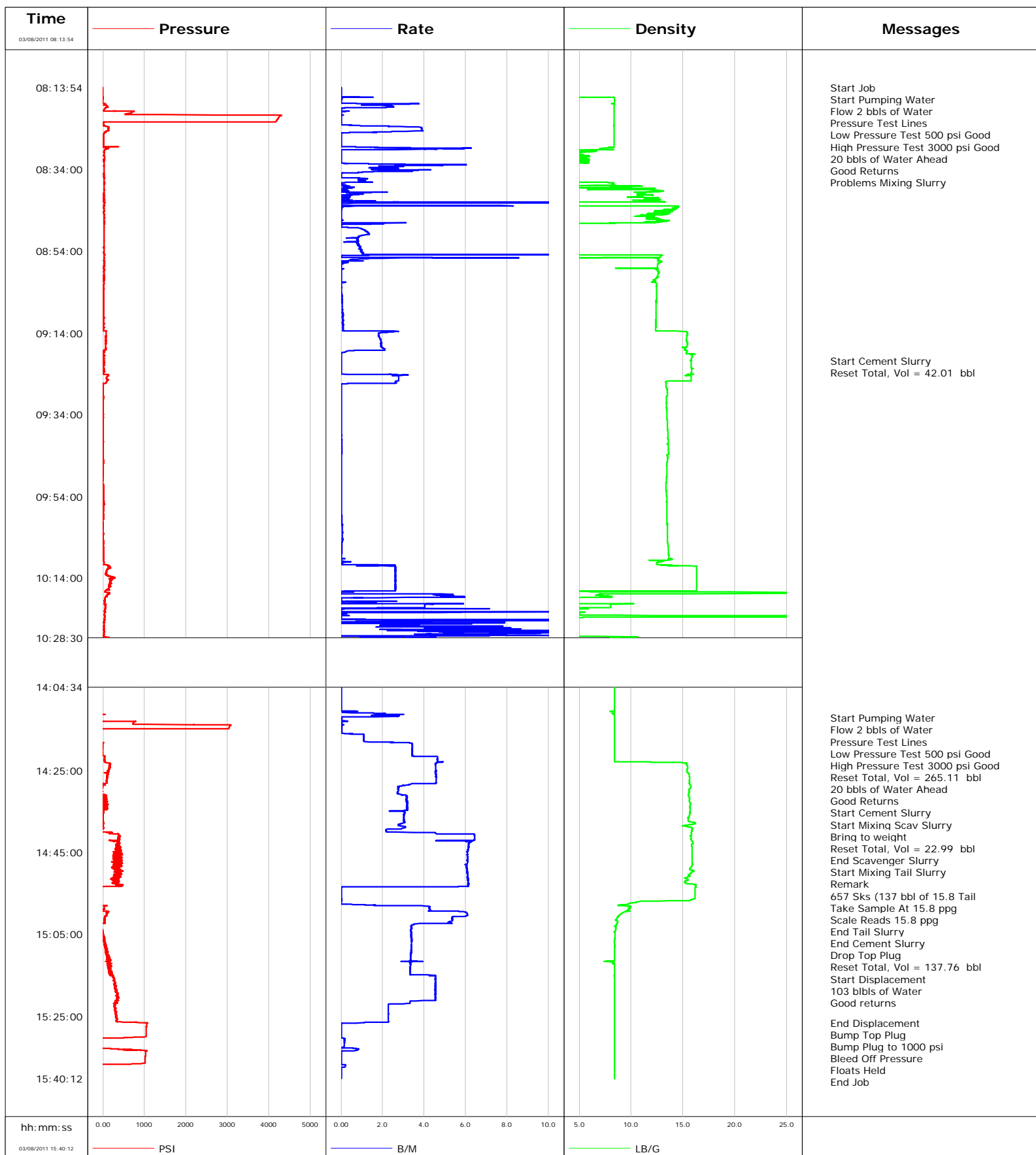


Well ENCANA FEE 10-2D
Field Mamm Creek
Engineer Jeff Eulberg
Country United States

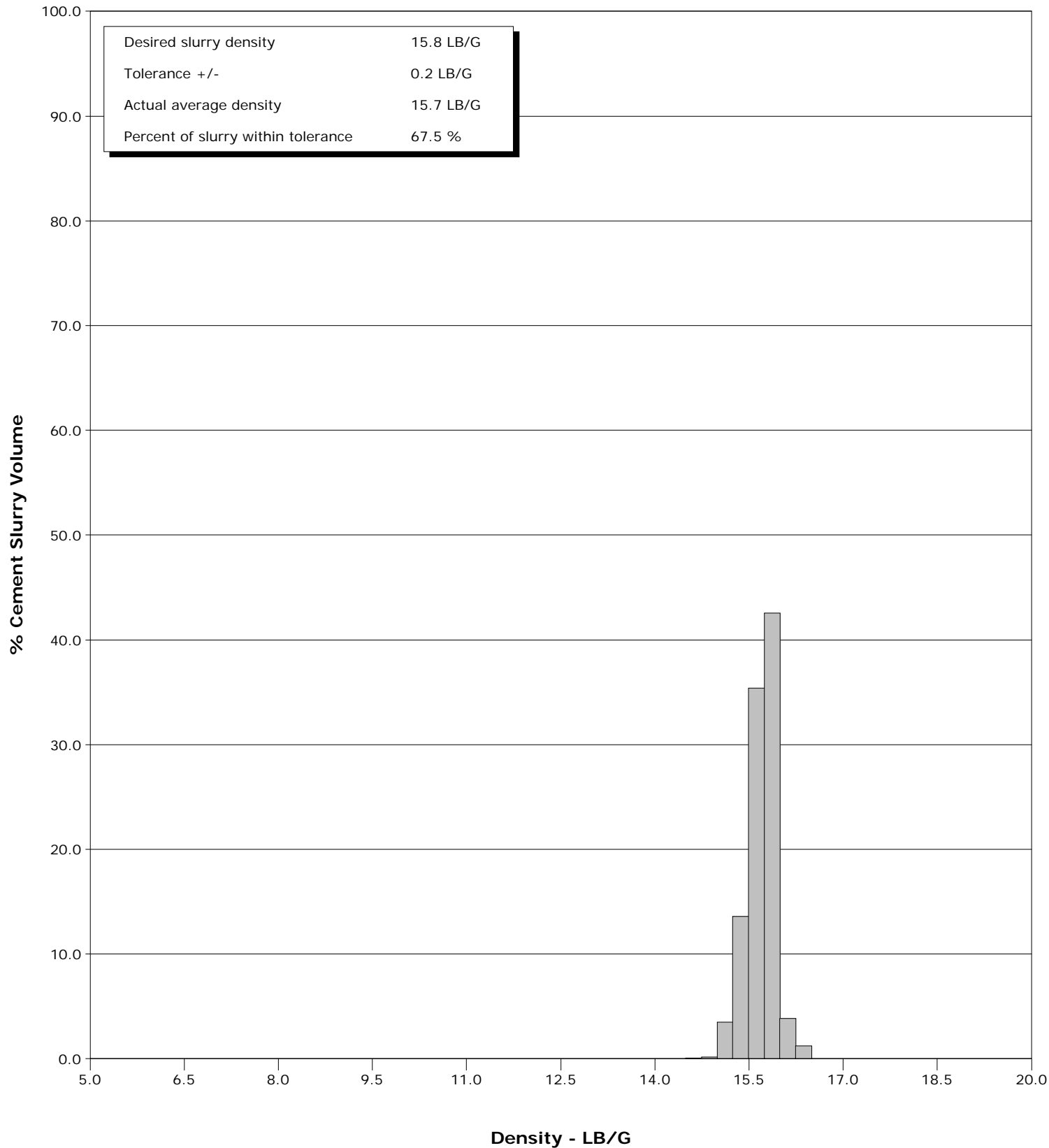
Client Encana
SIR No. 510849
Job Type 9 5/8" Surface
Job Date 03-07-2011



Well ENCANA FEE 10-2D
Field Mamm Creek
Engineer Jeff Eulberg
Country United States

Client Encana
SIR No. 510849
Job Type 9 5/8" Surface
Job Date 03-07-2011

Cement Slurry - 03/08/2011 14:23:01 to 03/08/2011 14:53:29



Cementing Service Report

				Customer Encana			Job Number 510849				
Well ENCANA FEE 10-2D 10-2D			Location (legal)			Schlumberger Location Grand Junction			Job Start Mar/07/2011		
Field Mamm Creek		Formation Name/Type Shale		Deviation deg		Bit Size 12.3 in		Well MD 1403.0 ft		Well TVD 1403.0 ft	
County Garfield		State/Province Colorado		BHP psi		BHST 94 degF		BHCT 81 degF		Pore Press. Gradient lb/gal	
Well Master 0631250972		API/UWI 05-045-20395-00									
Rig Name Nabors M13		Drilled For Oil		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		65.0	
						1403.0		9.6		36.0	
										J55	
										J55	
Drilling Fluid Type		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 psi		WH Connection 9 5/8" Cement Head		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
						ft		ft		No. of Shots	
						ft		ft		Total Interval ft	
						ft		ft		Diameter in	
						Treat Down Casing		Displacement 105.0 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 85.0 bbl		Annular Vol. 81.0 bbl	
										Openhole Vol. 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 694 psi						Shoe Type Guide			Squeeze Type		
Pipe Rotated <input checked="" type="checkbox"/>		Pipe Reciprocated <input checked="" type="checkbox"/>				Shoe Depth 1403.0 ft			Tool Type		
No. Centralizers 17		Top Plugs 1		Bottom Plugs 0		Stage Tool Type			Tool Depth ft		
Cement Head Type Single						Stage Tool Depth ft			Tail Pipe Size in		
Job Scheduled For Mar/07/2011 22:00		Arrived on Location Mar/07/2011 22:00		Leave Location Mar/08/2011 16:00		Collar Type Float			Tail Pipe Depth ft		
						Collar Depth 1358.0 ft			Sqz. Total Vol. bbl		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message					
03/08/2011	08:13:54	1	0.0	0.40	0.0	Started Acquisition					
03/08/2011	08:13:55	-1	0.0	0.40	0.0	Start Job					
03/08/2011	08:14:00	-1	0.0	0.40	0.0	Start Pumping Water					
03/08/2011	08:14:06	-1	0.0	0.40	0.0	Flow 2 bbls of Water					
03/08/2011	08:14:09	-1	0.0	0.40	0.0	Pressure Test Lines					
03/08/2011	08:14:10	-1	0.0	0.40	0.0	Low Pressure Test 500 psi Good					
03/08/2011	08:14:11	-1	0.0	0.40	0.0	20 bbls of Water Ahead					
03/08/2011	08:15:34	-2	0.0	0.40	0.0						
03/08/2011	08:17:14	-1	0.0	8.39	0.1						
03/08/2011	08:18:54	63	1.2	8.36	2.5						
03/08/2011	08:20:34	1365	0.0	8.37	2.6						
03/08/2011	08:22:14	4173	0.0	8.37	2.6						
03/08/2011	08:23:54	131	3.9	8.36	4.5						
03/08/2011	08:25:34	20	0.0	8.36	8.2						
03/08/2011	08:27:14	17	0.0	8.36	8.2						
03/08/2011	08:28:54	120	4.9	6.99	9.4						
03/08/2011	08:29:38	25	0.0	5.82	10.6	Good Returns					
03/08/2011	08:29:39	25	0.0	6.40	10.6	Problems Mixing Slurry					
03/08/2011	08:30:34	23	0.0	4.94	10.6						
03/08/2011	08:32:14	25	0.0	5.43	10.6						
03/08/2011	08:33:54	30	2.5	0.59	14.1						

Well			Field		Job Start		Customer		Job Number	
ENCANA FEE 10-2D 10-2D			Mamm Creek		Mar/07/2011		Encana		510849	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
03/08/2011	08:37:14	41	0.2	7.78	17.2					
03/08/2011	08:38:54	25	0.2	6.27	17.5					
03/08/2011	08:40:34	23	0.0	10.91	18.2					
03/08/2011	08:42:14	34	3.2	0.41	22.0					
03/08/2011	08:43:54	32	0.0	14.19	22.8					
03/08/2011	08:45:34	31	0.0	11.72	22.8					
03/08/2011	08:47:14	39	0.0	0.86	23.0					
03/08/2011	08:48:54	30	1.1	0.44	23.8					
03/08/2011	08:50:34	29	0.9	0.39	25.8					
03/08/2011	08:52:14	29	0.8	0.38	27.0					
03/08/2011	08:53:54	30	1.0	0.38	28.5					
03/08/2011	08:55:34	31	0.0	11.81	30.8					
03/08/2011	08:57:14	32	0.0	12.56	32.1					
03/08/2011	08:58:54	21	0.0	12.59	32.1					
03/08/2011	09:00:34	17	0.0	12.44	32.1					
03/08/2011	09:02:14	15	0.0	12.45	32.1					
03/08/2011	09:03:54	15	0.0	12.45	32.1					
03/08/2011	09:05:34	15	0.0	12.44	32.1					
03/08/2011	09:07:14	15	0.1	12.42	32.2					
03/08/2011	09:08:54	15	0.1	12.41	32.3					
03/08/2011	09:10:34	15	0.1	12.39	32.5					
03/08/2011	09:12:14	15	0.1	12.39	32.6					
03/08/2011	09:13:54	76	2.0	15.37	33.5					
03/08/2011	09:15:34	69	1.9	15.35	36.6					
03/08/2011	09:17:14	66	1.9	15.36	39.8					
03/08/2011	09:18:54	18	0.0	15.40	42.0					
03/08/2011	09:20:34	18	0.0	15.82	42.0					
03/08/2011	09:20:50	32	0.0	15.74	42.0	Start Cement Slurry				
03/08/2011	09:20:52	34	0.0	15.78	42.0	Reset Total, Vol = 42.01 bbl				
03/08/2011	09:22:14	19	0.0	15.78	42.0					
03/08/2011	09:23:54	17	0.0	15.83	42.0					
03/08/2011	09:25:34	109	2.8	15.76	46.0					
03/08/2011	09:27:14	8	0.0	13.37	48.1					
03/08/2011	09:28:54	6	0.0	13.51	48.1					
03/08/2011	09:30:34	6	0.0	13.42	48.1					
03/08/2011	09:32:14	6	0.0	13.42	48.1					
03/08/2011	09:33:54	15	0.0	13.46	48.1					
03/08/2011	09:35:34	5	0.0	13.48	48.1					
03/08/2011	09:37:14	6	0.0	13.51	48.1					
03/08/2011	09:38:54	6	0.0	13.55	48.1					
03/08/2011	09:40:34	19	0.0	13.58	48.1					
03/08/2011	09:42:14	6	0.0	13.59	48.1					
03/08/2011	09:43:54	5	0.0	13.47	48.2					
03/08/2011	09:45:34	13	0.0	13.47	48.2					
03/08/2011	09:47:14	3	0.0	13.43	48.2					
03/08/2011	09:48:54	0	0.0	13.43	48.2					
03/08/2011	09:50:34	-1	0.0	13.39	48.2					
03/08/2011	09:52:14	13	0.0	13.37	48.2					
03/08/2011	09:53:54	15	0.0	13.42	48.2					
03/08/2011	09:55:34	25	0.0	13.46	48.2					
03/08/2011	09:57:14	15	0.0	13.45	48.2					
03/08/2011	09:58:54	14	0.0	13.46	48.2					
03/08/2011	10:00:34	-0	0.0	13.48	48.2					
03/08/2011	10:02:14	-0	0.1	13.49	48.3					

Well ENCANA FEE 10-2D 10-2D			Field Mamm Creek		Job Start Mar/07/2011	Customer Encana		Job Number 510849
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
03/08/2011	10:05:34	8	0.0	13.53	48.5			
03/08/2011	10:07:14	13	0.0	13.61	48.6			
03/08/2011	10:08:54	15	0.0	13.63	48.6			
03/08/2011	10:12:14	78	2.6	16.33	52.4			
03/08/2011	10:13:54	198	2.6	16.33	56.7			
03/08/2011	10:15:34	146	2.6	16.33	61.1			
03/08/2011	10:17:14	48	0.0	5.38	65.1			
03/08/2011	10:18:54	49	0.0	1.72	69.9			
03/08/2011	10:20:34	66	4.0	8.03	72.1			
03/08/2011	10:22:14	63	7.2	5.55	75.9			
03/08/2011	10:23:54	30	0.0	2.68	76.4			
03/08/2011	10:25:34	25	1.9	0.72	83.0			
03/08/2011	10:27:14	26	9.1	1.50	93.5			
03/08/2011	10:28:54	144	5.5	7.30	102.2			
03/08/2011	10:30:01	51	0.0	5.48	105.8	Shut Down Job		
03/08/2011	10:30:34	47	0.4	18.24	106.4			
03/08/2011	10:32:14	59	0.0	6.95	106.6			
03/08/2011	13:14:08	1	25.0	-0.00	108.7	Start Job #2		
03/08/2011	13:15:34	-20	25.0	-0.00	144.5			
03/08/2011	13:17:14	-6	25.0	-0.00	186.2			
03/08/2011	13:18:54	-34	25.0	-0.00	227.8			
03/08/2011	13:20:34	3	25.0	-0.00	269.5			
03/08/2011	13:22:14	-18	2.7	8.40	293.8			
03/08/2011	13:23:54	158	5.2	8.40	298.7			
03/08/2011	13:25:34	-12	0.0	8.41	301.4			
03/08/2011	13:27:14	-77	0.0	8.40	301.4			
03/08/2011	13:28:54	-101	0.0	8.40	301.5			
03/08/2011	13:30:34	-107	0.0	8.40	301.5			
03/08/2011	13:32:14	-119	0.0	8.40	304.3			
03/08/2011	13:33:54	-121	0.0	8.40	304.4			
03/08/2011	13:35:34	-120	0.0	8.40	304.4			
03/08/2011	13:37:14	-122	0.0	8.39	304.4			
03/08/2011	13:38:54	-120	0.0	8.40	304.4			
03/08/2011	13:40:34	-120	0.0	8.40	304.4			
03/08/2011	13:42:14	-123	0.0	8.40	304.5			
03/08/2011	13:43:54	-122	0.0	8.40	304.5			
03/08/2011	13:45:34	-123	0.0	8.40	304.5			
03/08/2011	13:47:14	-122	0.0	8.40	304.5			
03/08/2011	13:48:54	-120	0.0	8.40	304.6			
03/08/2011	13:50:34	-120	0.0	8.40	304.6			
03/08/2011	13:52:14	-122	0.0	8.40	304.6			
03/08/2011	13:53:54	-122	0.0	8.40	304.6			
03/08/2011	13:55:34	-123	0.0	8.40	304.6			
03/08/2011	13:57:14	-123	0.0	8.40	304.7			
03/08/2011	13:58:54	-122	0.0	8.40	304.7			
03/08/2011	14:00:34	-124	0.0	8.40	304.7			
03/08/2011	14:02:14	-124	0.0	8.40	304.7			
03/08/2011	14:03:54	-123	0.0	8.40	304.7			
03/08/2011	14:05:34	-122	0.0	8.40	304.7			
03/08/2011	14:07:14	-123	0.0	8.40	304.8			
03/08/2011	14:08:54	-125	0.0	8.40	304.8			
03/08/2011	14:10:34	-114	0.7	8.30	304.9			
03/08/2011	14:12:04	-108	0.0	8.40	307.0	Start Pumping Water		
03/08/2011	14:12:14	-109	0.0	8.40	307.0			

Well			Field		Job Start		Customer		Job Number	
ENCANA FEE 10-2D 10-2D			Mamm Creek		Mar/07/2011		Encana		510849	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
03/08/2011	14:13:06	761	0.0	8.40	307.0	Pressure Test Lines				
03/08/2011	14:13:25	726	0.0	8.40	307.1	Low Pressure Test 500 psi Good				
03/08/2011	14:13:54	3077	0.0	8.40	307.1					
03/08/2011	14:14:38	3035	0.0	8.40	307.1	High Pressure Test 3000 psi Good				
03/08/2011	14:15:34	-110	0.0	8.40	307.1					
03/08/2011	14:15:39	-112	0.0	8.40	307.1	Reset Total, Vol = 265.11 bbl				
03/08/2011	14:16:05	-106	0.9	8.40	307.2	20 bbls of Water Ahead				
03/08/2011	14:17:14	-75	1.1	8.40	308.5					
03/08/2011	14:18:19	3	3.4	8.40	310.2	Good Returns				
03/08/2011	14:18:54	-14	3.4	8.39	312.2					
03/08/2011	14:20:34	-13	3.4	8.39	317.9					
03/08/2011	14:22:14	27	4.6	8.39	324.5					
03/08/2011	14:23:01	61	4.7	14.58	328.2	Start Cement Slurry				
03/08/2011	14:23:04	91	4.6	15.05	328.4	Start Mixing Scav Slurry				
03/08/2011	14:23:06	93	4.6	15.13	328.6	Bring to weight				
03/08/2011	14:23:26	158	4.6	15.33	330.1	Reset Total, Vol = 22.99 bbl				
03/08/2011	14:23:54	158	4.6	15.43	332.2					
03/08/2011	14:25:34	35	4.5	15.51	339.8					
03/08/2011	14:26:56	93	4.6	15.62	346.1	End Scavenger Slurry				
03/08/2011	14:26:58	102	4.6	15.62	346.3	Start Mixing Tail Slurry				
03/08/2011	14:27:01	95	4.6	15.62	346.5	Remark				
03/08/2011	14:27:14	95	4.6	15.62	347.5					
03/08/2011	14:27:20	102	4.6	15.62	347.9	657 Sks (137 bbl of 15.8 Tail				
03/08/2011	14:28:53	-25	2.8	15.77	354.0	Scale Reads 15.8 ppg				
03/08/2011	14:28:54	-19	2.8	15.77	354.1					
03/08/2011	14:30:34	-16	2.7	15.56	358.6					
03/08/2011	14:32:14	-18	3.1	15.60	363.8					
03/08/2011	14:33:54	55	3.2	15.67	369.1					
03/08/2011	14:35:34	5	3.0	15.63	374.2					
03/08/2011	14:37:14	6	3.0	15.52	379.2					
03/08/2011	14:38:54	11	3.1	15.86	384.1					
03/08/2011	14:40:34	374	6.4	15.82	389.4					
03/08/2011	14:42:14	369	6.3	15.88	399.9					
03/08/2011	14:43:54	352	6.1	15.90	410.1					
03/08/2011	14:45:34	338	6.1	15.87	420.3					
03/08/2011	14:47:14	432	6.1	15.89	430.4					
03/08/2011	14:48:54	238	6.1	15.68	440.5					
03/08/2011	14:50:34	332	6.1	15.51	450.7					
03/08/2011	14:52:14	245	6.1	15.20	460.9					
03/08/2011	14:53:25	-100	0.5	16.29	467.9	End Tail Slurry				
03/08/2011	14:53:29	-102	0.0	16.28	467.9	End Cement Slurry				
03/08/2011	14:53:54	-112	0.0	16.15	467.9					
03/08/2011	14:53:55	-112	0.0	16.15	467.9	Drop Top Plug				
03/08/2011	14:55:34	-117	0.0	16.17	467.9					
03/08/2011	14:55:57	-117	0.0	16.17	467.9	Reset Total, Vol = 137.76 bbl				
03/08/2011	14:57:14	-105	0.0	10.42	467.9					
03/08/2011	14:57:37	-112	0.0	9.72	467.9	Start Displacement				
03/08/2011	14:57:41	-79	0.5	9.66	467.9	103 bibls of Water				
03/08/2011	14:58:54	26	4.3	9.74	472.1					
03/08/2011	15:00:34	77	6.0	8.79	481.4					
03/08/2011	15:01:16	45	5.4	8.63	485.1	Good returns				
03/08/2011	15:02:14	41	5.3	8.66	490.3					
03/08/2011	15:03:54	-16	3.3	8.51	496.2					
03/08/2011	15:05:34	13	3.4	8.45	501.8					

Well ENCANA FEE 10-2D 10-2D			Field Mamm Creek		Job Start Mar/07/2011	Customer Encana		Job Number 510849
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
03/08/2011	15:08:54	80	3.4	8.42	513.1			
03/08/2011	15:10:34	156	3.4	8.39	518.7			
03/08/2011	15:12:14	171	3.3	8.35	524.4			
03/08/2011	15:13:54	136	3.3	8.39	529.9			
03/08/2011	15:15:34	244	4.6	8.39	536.2			
03/08/2011	15:17:14	275	4.6	8.39	543.8			
03/08/2011	15:18:54	340	4.5	8.39	551.4			
03/08/2011	15:20:34	367	4.6	8.39	559.0			
03/08/2011	15:22:14	290	2.3	8.39	565.1			
03/08/2011	15:23:54	326	2.3	8.40	568.9			
03/08/2011	15:25:34	333	2.3	8.40	572.7			
03/08/2011	15:26:37	952	1.0	8.40	575.0	End Displacement		
03/08/2011	15:26:38	970	1.0	8.40	575.0	Bump Top Plug		
03/08/2011	15:26:42	1041	0.4	8.40	575.0	Bump Plug to 1000 psi		
03/08/2011	15:26:43	1057	0.1	8.40	575.0	Bleed Off Pressure		
03/08/2011	15:27:14	1049	0.0	8.40	575.1			
03/08/2011	15:28:54	1043	0.0	8.40	575.1			
03/08/2011	15:30:34	-112	0.2	8.40	575.1			
03/08/2011	15:32:14	-112	0.2	8.40	575.4			
03/08/2011	15:33:54	1029	0.0	8.40	576.0			
03/08/2011	15:35:34	1020	0.0	8.40	576.0			
03/08/2011	15:37:14	-113	0.2	8.40	576.1			
03/08/2011	15:38:54	-114	0.0	8.40	576.1			

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl							
Slurry 2.7	N2	Mud	Maximum Rate 25.0		Total Slurry 137.0	Mud 0.0	Spacer 20.0	N2				
Treating Pressure Summary, psi					Breakdown Fluid							
Maximum 3000	Final -116	Average 150	Bump Plug to 1100	Breakdown	Type	Volume bbl	Density lb/gal					
Avg. N2 Percent %	Designed Slurry Volume 136.0 bbl	Displacement 103.0 bbl	Mix Water Temp 70 degF	Cement Circulated to Surface?		<input type="checkbox"/>	Volume	bbl				
				Washed Thru Perfs		<input type="checkbox"/>	To	ft				
Customer or Authorized Representative Vlad Kochetov			Schlumberger Supervisor Jeff Eulberg			Circulation Lost	<input type="checkbox"/>	Job Completed <input type="checkbox"/>				
						-						



Service Quality Evaluation

Client:	Encana
Field:	Mamm Creek
Rig:	Nabors M13
Well:	ENCANA FEE 10-2D
Service Line:	Cementing
Job Type:	9 5/8" Surface

Service Order #:	
Date:	Mar/07/2011
Operating Time (hh:mm):	00:00
Client Rep:	Vlad Kochetov
Schlumberger Engineer:	Jeff Eulberg
Schlumberger FSM:	

Main Objective:

To be completed by Company Rep. Please answer Y (Yes) or N (No) and add any comments below.

		Score	Yes / No		Result
1	HSE				
1a	Free of lost time injury and compliance with SLB and loc. spec. HSE practice	5	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	5
1b	Free of environmental spill or non-compliant discharge	5	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	5
1c	Wellsite left clean	4	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	4
Sub-total					100%

2	Design / Preparation				
2a	Program incl. job simulation (CemCADE) & pump schedule / tool hydraulic calcs	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
2b	Equipment maintenance schedule completed / Green tagged	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
2c	All materials and equipment required for job/contingency checked & on location	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
2d	Safety / pre-job meeting conducted with all involved present	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
Sub-total					100%

3	Execution				
3a	Lost time < 30 mins	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
3b	Equipment pressure tested succesfully	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
3c	All key parameters monitored and recorded accurately (Pressure, Rate, Density)	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3d	Plugs / darts released and tested succesfully	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3e	Density variation met expectations	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3f	Personnel performed as per expectations	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3g	Equipment performed as per expectations	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3h	Job pumped as per design	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
3i	Did job start on time	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3j	Free of Operational failures (screen out, Cementing Example, etc.)	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
Sub-total					100%

4	Evaluation				
4a	Main job objective achieved with no consequential non-productive time	10	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	10
Sub-total					100%

Total 100%

Comments: (Please include a brief explanation for a "NO" response and summarize any innovations attempted on this well.)

Client:	Schlumberger:
Client Signature:	Schlumberger Signature: