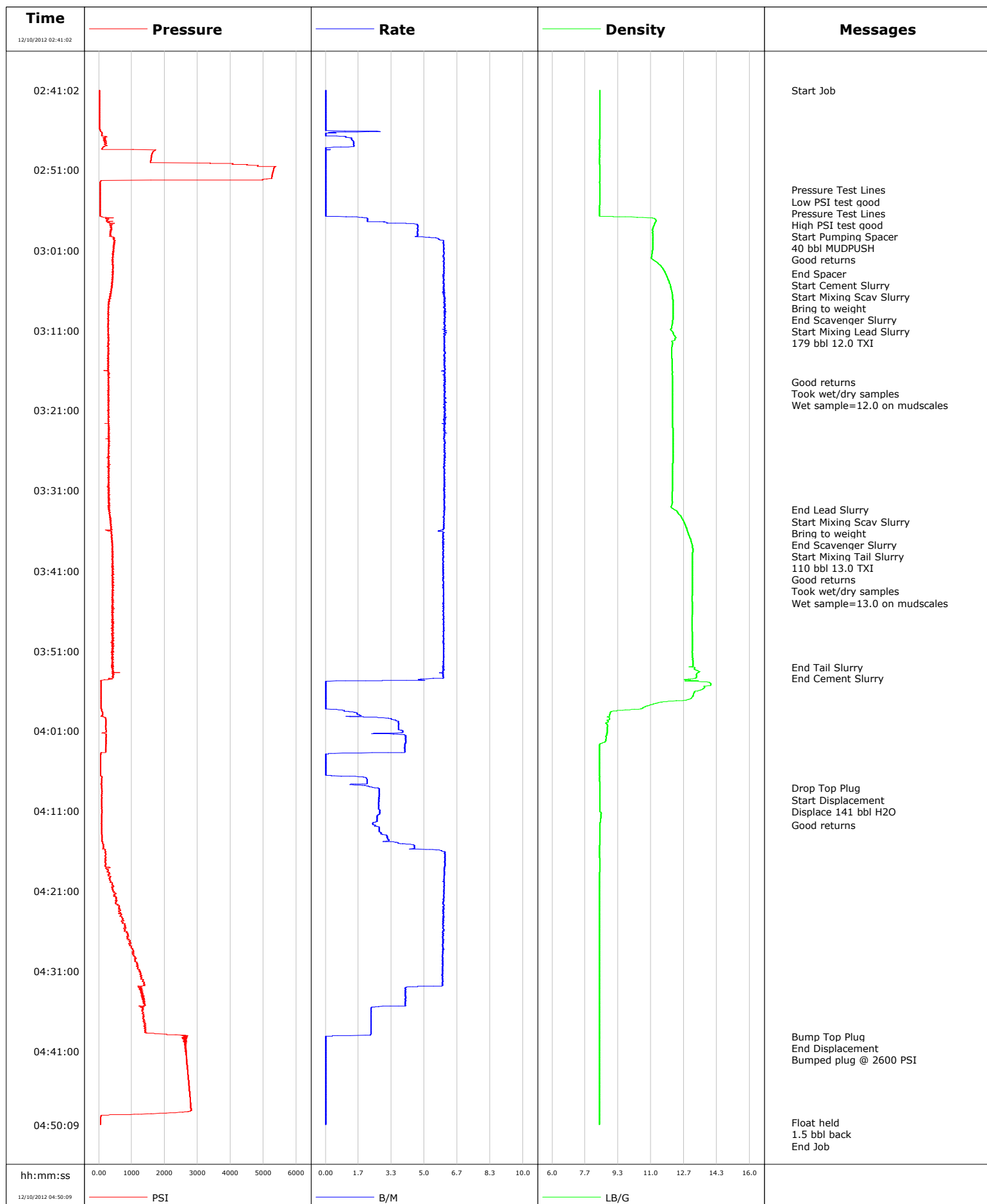


Well	Shideler Fee 31-13C	Client	Encana
Field	Mamm Creek	SIR No.	CCOX-00156
Engineer	Matt Fair/Mike Reedy	Job Type	4 1/2" Production
Country	United States	Job Date	12-09-2012



					Customer Encana			Job Number CC0X-00156									
Well Shideler Fee 31-13C				Location (legal)			Schlumberger Location			Job Start Dec/09/2012							
Field Mamm Creek		Formation Name/Type Shale			Deviation deg		Bit Size 8.8 in		Well MD 9097.0 ft		Well TVD 9097.0 ft						
County Garfield		State/Province Colorado			BHP psi		BHST 231 degF		BHCT 188 degF		Pore Press. Gradient lb/gal						
Well Master 0631419460		API/UWI															
Rig Name Patterson 303		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		9097.0		4.5		11.6		N80		BUTT			
						0.0		0.0		0.0							
Drilling Fluid Type Bentonite		Max. Density 9.90 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe											
						T/D		Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
Service Line Cementing		Job Type 4 1/2" Production															
Max. Allowed Tub. Press 7780 psi		Max. Allowed Ann. Press 6350 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						Diameter in			
						Treat Down Casing		Displacement 131.0 bbl		Packer Type		Packer Depth ft					
						Tubing Vol. bbl		Casing Vol. 142.0 bbl		Annular Vol. 227.0 bbl		Openhole Vol. 622.0 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 6635 psi				Shoe Type Float				Squeeze Type									
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 9097.0 ft				Tool Type									
No. Centralizers		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 Dec/09/2012 23:00		Arrived on Location Dec/09/2012 23:00		Leave Location Dec/10/2012 07:00		Collar Type Float				Tail Pipe Depth ft							
						Collar Depth 9051.0 ft				Sqz. Total Vol. bbl							
Date	Time 24-hr clock	CPF1_DENSITY LB/G	CPF1_PRESS PSI	CPF1_TTL_RATE B/M	CPF1_TTL_STAGE BBL	CPF1_TTL_VOLUME BBL	Message										
12/10/2012	02:41:02	8.40	28	0.0	0.0	0.0	Started Acquisition										
12/10/2012	02:41:04	8.41	28	0.0	0.0	0.0	Start Job										
12/10/2012	02:43:32	8.41	28	0.0	0.0	0.0											
12/10/2012	02:46:02	8.41	35	0.0	0.0	0.0											
12/10/2012	02:48:32	8.40	1713	0.0	2.2	2.2											
12/10/2012	02:51:02	8.40	5298	0.0	2.2	2.2											
12/10/2012	02:53:28	8.41	39	0.0	2.2	2.2	Pressure Test Lines										
12/10/2012	02:53:29	8.41	39	0.0	2.2	2.2	Low PSI test good										
12/10/2012	02:53:30	8.41	39	0.0	2.2	2.2	Pressure Test Lines										
12/10/2012	02:53:31	8.41	39	0.0	2.2	2.2	High PSI test good										
12/10/2012	02:53:32	8.41	39	0.0	2.2	2.2											
12/10/2012	02:56:02	8.40	41	0.0	2.2	2.2											
12/10/2012	02:56:42	8.40	41	0.0	2.2	2.2	Start Pumping Spacer										
12/10/2012	02:56:44	8.40	43	0.0	2.2	2.2	40 bbl MUDPUSH										
12/10/2012	02:58:32	11.07	355	4.7	8.2	8.2											
12/10/2012	02:58:55	11.08	370	4.6	10.0	10.0	Good returns										
12/10/2012	03:01:02	11.07	454	6.0	21.9	21.9											
12/10/2012	03:03:32	11.66	435	6.0	36.8	36.8											
12/10/2012	03:03:54	11.74	429	6.0	39.0	39.0	End Spacer										
12/10/2012	03:03:55	11.74	430	6.0	39.1	39.1	Start Cement Slurry										
12/10/2012	03:03:56	11.74	445	6.0	39.2	39.2	Start Mixing Scav Slurry										

Well Shideler Fee 31-13C			Field Mamm Creek		Job Start Dec/09/2012		Customer Encana	Job Number CC0X-00156
Date	Time 24-hr clock	CPF1_DENSITY LB/G	CPF1_PRESS PSI	CPF1_TTL_RATE B/M	CPF1_TTL_STAGE BBL	CPF1_TTL_VOLUME BBL	Message	
12/10/2012	03:04:25	11.83	445	6.0	0.3	42.1	End Scavenger Slurry	
12/10/2012	03:04:26	11.83	409	6.0	0.4	42.2	179 bbl 12.0 TXI	
12/10/2012	03:06:02	12.04	372	6.0	10.0	51.8		
12/10/2012	03:08:32	12.11	287	6.0	25.0	66.8		
12/10/2012	03:11:02	12.03	274	6.1	40.1	81.9		
12/10/2012	03:13:32	12.03	293	6.0	55.1	97.0		
12/10/2012	03:16:02	12.08	161	6.0	70.2	112.0		
12/10/2012	03:17:24	12.09	288	6.0	78.4	120.3	Good returns	
12/10/2012	03:17:30	12.09	288	6.0	79.0	120.9	Took wet/dry samples	
12/10/2012	03:17:33	12.09	307	6.0	79.3	121.2	Wet sample=12.0 on mudscales	
12/10/2012	03:18:32	12.10	290	6.0	85.3	127.1		
12/10/2012	03:21:02	12.09	276	6.0	100.3	142.2		
12/10/2012	03:23:32	12.11	306	6.0	115.4	157.2		
12/10/2012	03:26:02	12.11	301	6.0	130.5	172.3		
12/10/2012	03:28:32	12.10	290	6.0	145.5	187.3		
12/10/2012	03:31:02	12.09	312	6.0	160.5	202.4		
12/10/2012	03:33:24	12.20	291	6.0	174.8	216.6	End Lead Slurry	
12/10/2012	03:33:27	12.24	333	6.0	175.1	216.9	Start Mixing Scav Slurry	
12/10/2012	03:33:28	12.26	305	6.0	175.2	217.0	Bring to weight	
12/10/2012	03:33:32	12.29	337	6.0	175.6	217.4		
12/10/2012	03:35:53	12.82	419	6.0	0.5	231.5	End Scavenger Slurry	
12/10/2012	03:35:54	12.82	375	5.9	0.6	231.6	Start Mixing Tail Slurry	
12/10/2012	03:35:55	12.82	364	6.0	0.7	231.7	110 bbl 13.0 TXI	
12/10/2012	03:36:02	12.84	365	5.7	1.4	232.3		
12/10/2012	03:38:32	13.12	418	6.0	16.2	247.2		
12/10/2012	03:39:06	13.09	421	6.0	19.6	250.6	Good returns	
12/10/2012	03:39:54	13.09	404	6.0	24.4	255.3	Took wet/dry samples	
12/10/2012	03:40:03	13.09	414	5.9	25.3	256.2	Wet sample=13.0 on mudscales	
12/10/2012	03:41:02	13.09	420	6.0	31.1	262.1		
12/10/2012	03:43:32	13.09	447	6.0	46.0	277.0		
12/10/2012	03:46:02	13.09	422	5.9	61.0	291.9		
12/10/2012	03:48:32	13.08	406	6.0	75.9	306.9		
12/10/2012	03:51:02	13.09	392	6.0	90.8	321.8		
12/10/2012	03:53:01	13.01	465	6.0	102.7	333.6	End Tail Slurry	
12/10/2012	03:53:32	13.40	469	6.0	105.7	336.7		
12/10/2012	03:53:34	13.42	410	5.9	105.9	336.9	End Cement Slurry	
12/10/2012	03:56:02	13.28	61	0.0	112.6	343.6		
12/10/2012	03:58:32	9.10	86	1.0	0.2	343.8		
12/10/2012	04:01:02	8.78	226	3.9	7.6	351.2		
12/10/2012	04:03:32	8.39	207	4.0	17.4	361.0		
12/10/2012	04:06:02	8.39	51	0.0	18.3	361.9		
12/10/2012	04:08:06	8.41	85	2.5	2.9	364.9	Drop Top Plug	
12/10/2012	04:08:07	8.41	87	2.6	3.0	364.9	Start Displacement	
12/10/2012	04:08:08	8.41	89	2.7	3.0	364.9	Displace 141 bbl H2O	
12/10/2012	04:08:32	8.41	91	2.7	4.1	366.0		
12/10/2012	04:11:02	8.41	88	2.7	10.8	372.8		
12/10/2012	04:12:42	8.42	78	2.4	15.2	377.1	Good returns	
12/10/2012	04:13:32	8.41	81	2.7	17.4	379.3		
12/10/2012	04:16:02	8.40	197	6.0	26.7	388.7		
12/10/2012	04:18:32	8.40	295	6.0	41.8	403.7		
12/10/2012	04:21:02	8.40	461	6.0	56.8	418.7		
12/10/2012	04:23:32	8.40	608	5.9	71.7	433.7		
12/10/2012	04:26:02	8.39	788	6.0	86.6	448.6		
12/10/2012	04:28:32	8.39	1055	6.0	101.5	463.4		

Well			Field		Job Start	Customer		Job Number
Shideler Fee 31-13C			Mamm Creek		Dec/09/2012	Encana		CC0X-00156
Date	Time 24-hr clock	CPF1_DENSITY LB/G	CPF1_PRESS PSI	CPF1_TTL_RATE B/M	CPF1_TTL_STAGE BBL	CPF1_TTL_VOLUME BBL	Message	
12/10/2012	04:33:32	8.39	1269	4.0	129.9	491.9		
12/10/2012	04:36:02	8.39	1306	2.3	138.9	500.9		
12/10/2012	04:38:32	8.39	1414	2.3	144.7	506.6		
12/10/2012	04:39:05	8.39	2641	0.4	145.8	507.8	Bump Top Plug	
12/10/2012	04:39:06	8.39	2641	0.2	145.8	507.8	Bumped plug @ 2600 PSI	
12/10/2012	04:41:02	8.39	2650	0.0	145.8	507.8		
12/10/2012	04:43:32	8.39	2697	0.0	145.8	507.8		
12/10/2012	04:46:02	8.39	2752	0.0	145.8	507.8		
12/10/2012	04:48:32	8.40	2706	0.0	145.8	507.8		
12/10/2012	04:49:53	8.40	52	0.0	145.8	507.8	Float held	
12/10/2012	04:49:55	8.40	52	0.0	145.8	507.8	1.5 bbl back	

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 5.2	N2	Mud	Maximum Rate 6.1		Total Slurry 289.0	Mud 0.0	Spacer 39.0	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 5391	Final 52	Average 652	Bump Plug to 2600	Breakdown	Type		Volume bbl	Density lb/gal
Avg. N2 Percent %		Designed Slurry Volume 289.0 bbl		Displacement 139.5 bbl	Mix Water Temp 61 degF		Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl
							Washed Thru Perfs <input type="checkbox"/>	To ft
Customer or Authorized Representative				Schlumberger Supervisor			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>
Michael Olsen				Matt Fair/Mike Reedy			-	-



Service Quality Evaluation

Client:	Encana
Field:	Mamm Creek
Rig:	Patterson 303
Well:	Shideler Fee 31-13C
Service Line:	Cementing
Job Type:	4 1/2" Production

Service Order #:	
Date:	Dec/09/2012
Operating Time (hh:mm):	00:00
Client Rep:	Michael Olsen
Schlumberger Engineer:	Matt Fair/Mike Reedy
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:
	Water - 0090845, 009826 Lead - 009743 Tail - 010321
Client Signature:	Schlumberger Signature: