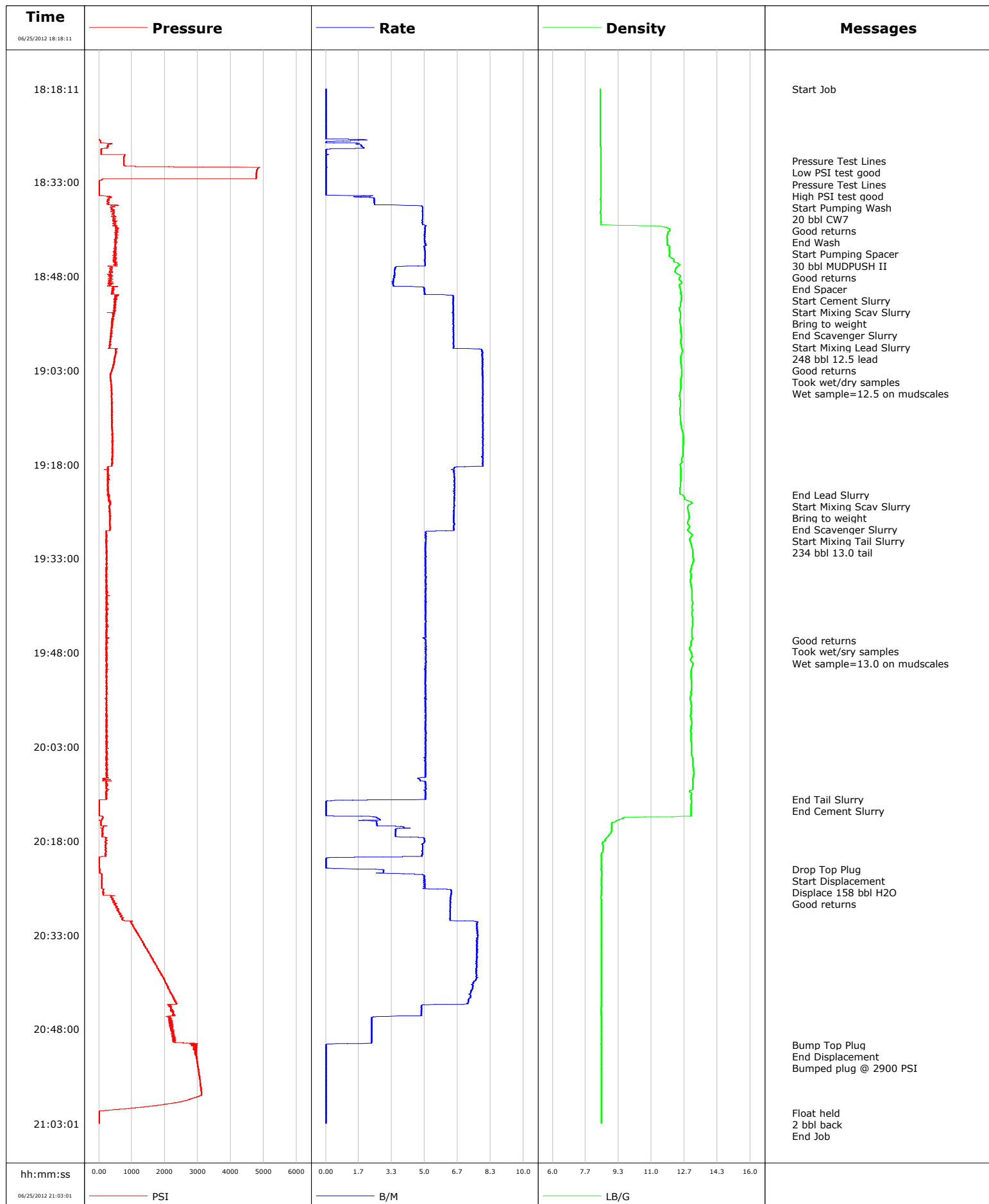


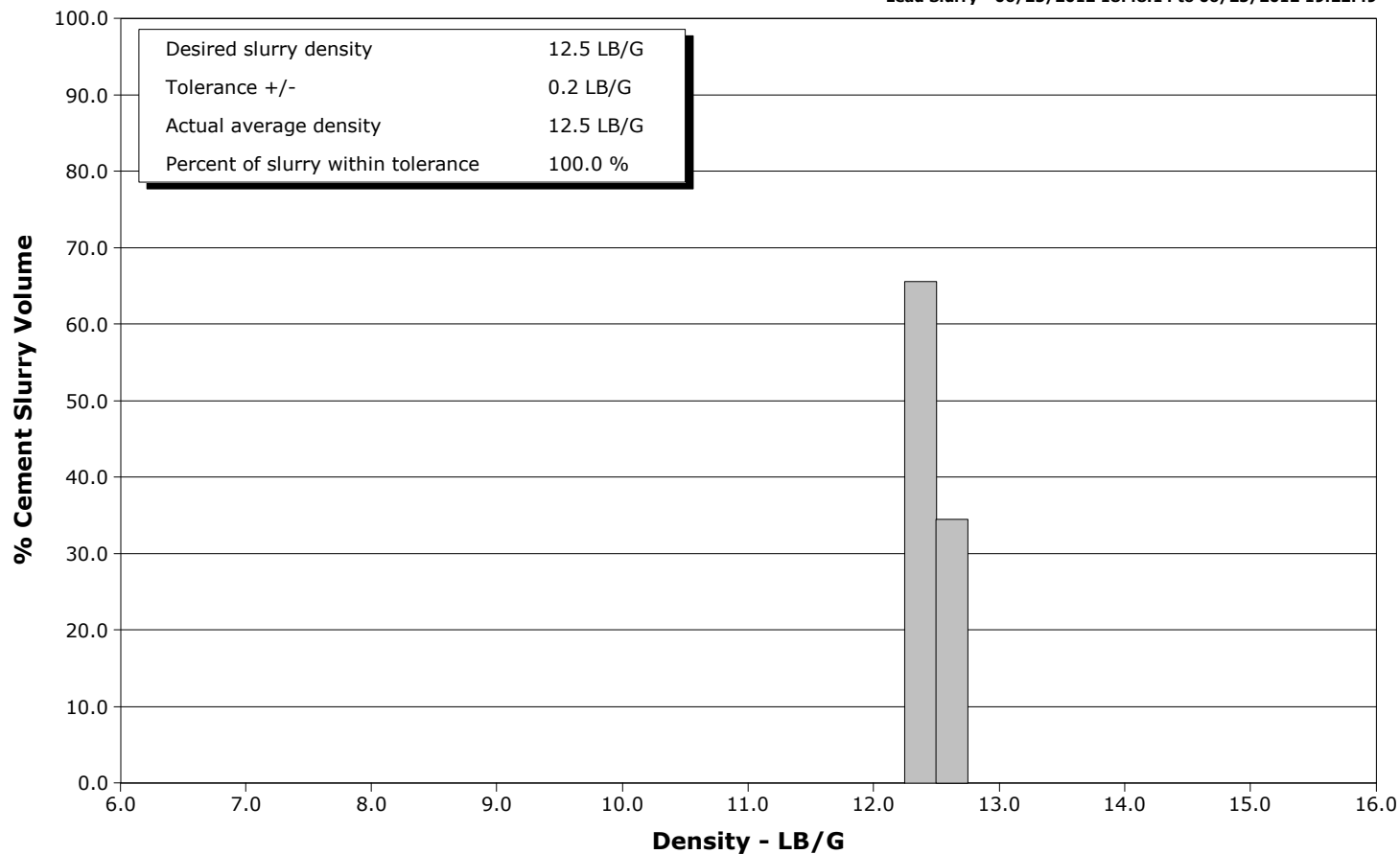
Well	EF16A-27	Client	Encana
Field	N. Parachute	SIR No.	C33J-00118
Engineer	Matt Fair/C. Jensen	Job Type	4 1/2" Production
Country	United States	Job Date	06-25-2012



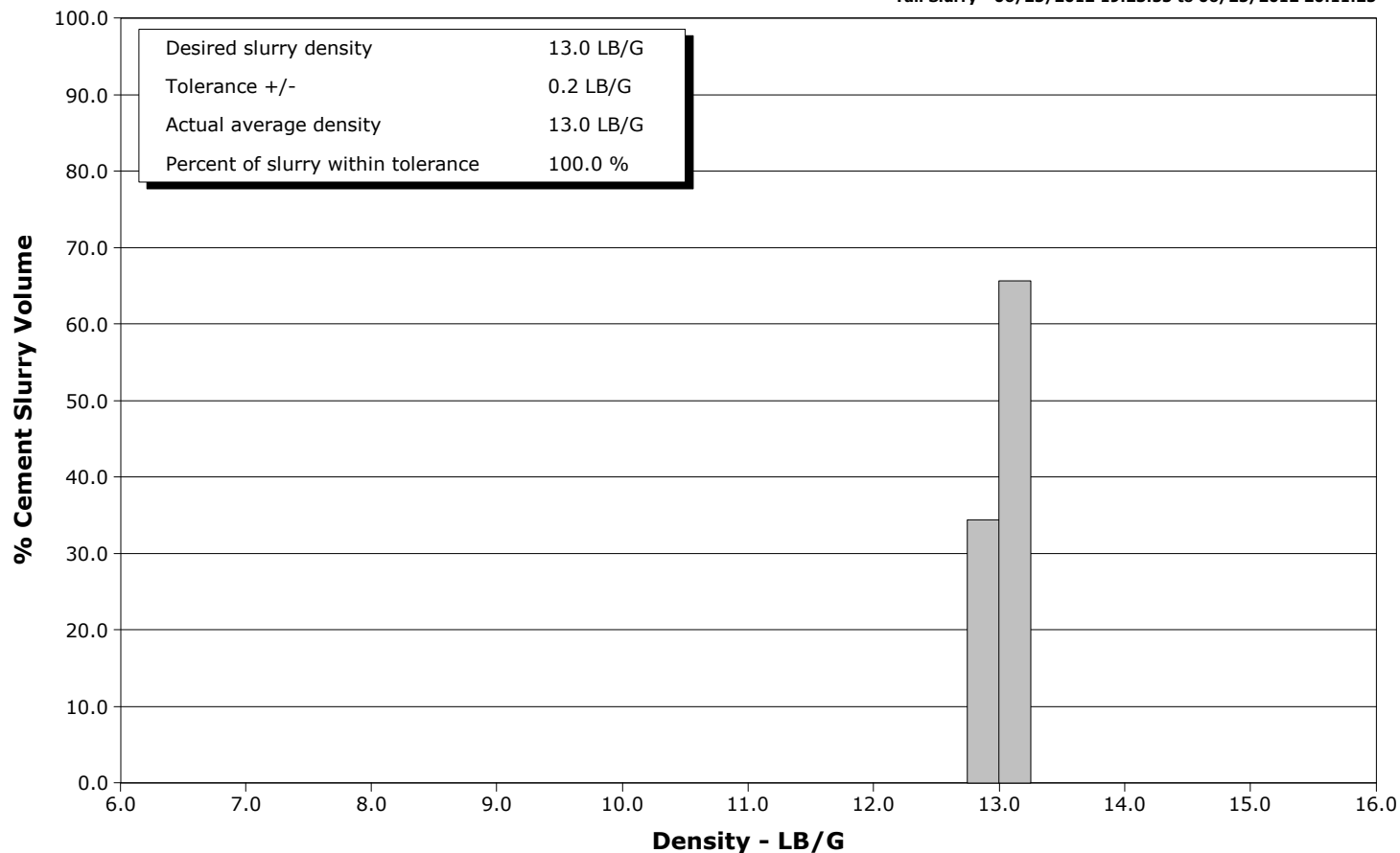
Well EF16A-27
Field N. Parachute
Engineer Matt Fair/C. Jensen
Country United States

Client Encana
SIR No. C33J-00118
Job Type 4 1/2" Production
Job Date 06-25-2012

Lead Slurry - 06/25/2012 18:48:14 to 06/25/2012 19:22:49



Tail Slurry - 06/25/2012 19:23:55 to 06/25/2012 20:11:25



					Customer Encana			Job Number C33J-00118			
Well EF16A-27			Location (legal)			Schlumberger Location			Job Start Jun/25/2012		
Field N. Parachute		Formation Name/Type Shale		Deviation deg		Bit Size 8.3 in		Well MD 10160.0 ft		Well TVD 10160.0 ft	
County Garfield		State/Province Colorado		BHP psi		BHST 240 degF		BHCT 199 degF		Pore Press. Gradient lb/gal	
Well Master 0631244202		API/UWI									
Rig Name Patterson 303		Drilled For Gas		Service Via Land		Casing/Liner					
						Depth, ft		Size, in		Weight, lb/ft	
Offshore Zone		Well Class New		Well Type Development		10156.0		4.5		11.6	
						0.0		0.0		0.0	
Drilling Fluid Type Bentonite		Max. Density 10.80 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
Service Line Cementing		Job Type 4 1/2" Production									
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 production casing. 830sks/248bbl 12.5 lead Y=1.68 700sks/234bbl 13.0 tail Y=1.88						ft		ft			
						ft		ft		Diameter in	
						ft		ft			
		Treat Down Casing		Displacement 158.0 bbl		Packer Type		Packer Depth ft			
		Tubing Vol. bbl		Casing Vol. 158.0 bbl		Annular Vol. 400.0 bbl		Openhole Vol. 670.0 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 7410 psi						Shoe Type Float		Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 10156.0 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 Jun/25/2012 13:00		Arrived on Location Jun/25/2012 13:00		Leave Location Jun/25/2012 22:00		Collar Type Float		Tail Pipe Depth ft			
						Collar Depth 10132.0 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				
06/25/2012	18:18:11	8.41	-2	0.0	0.0	0.0	Started Acquisition				
06/25/2012	18:20:41	8.41	-2	0.0	0.0	0.0					
06/25/2012	18:23:11	8.41	-3	0.0	0.0	0.0					
06/25/2012	18:25:41	8.41	-6	0.0	0.0	0.0					
06/25/2012	18:28:11	8.44	70	0.0	2.1	2.1					
06/25/2012	18:29:41	8.43	757	0.0	2.1	2.1	Pressure Test Lines				
06/25/2012	18:29:42	8.43	757	0.0	2.1	2.1	Low PSI test good				
06/25/2012	18:30:41	8.43	4190	0.1	2.1	2.1					
06/25/2012	18:31:44	8.43	4776	0.0	2.2	2.2	Pressure Test Lines				
06/25/2012	18:31:45	8.43	4775	0.0	2.2	2.2	High PSI test good				
06/25/2012	18:33:11	8.43	2	0.0	2.2	2.2					
06/25/2012	18:34:51	8.43	2	0.0	2.2	2.2	Start Pumping Wash				
06/25/2012	18:35:41	8.43	302	2.4	3.2	3.2					
06/25/2012	18:36:45	8.43	597	4.5	5.8	5.8	Good returns				
06/25/2012	18:38:11	8.43	422	4.9	12.8	12.8					
06/25/2012	18:39:49	8.45	486	4.9	20.8	20.8	End Wash				
06/25/2012	18:39:51	8.46	481	4.9	21.0	21.0	Start Pumping Spacer				
06/25/2012	18:39:52	8.66	512	5.0	21.0	21.0	30 bbl MUDPUSH II				
06/25/2012	18:40:41	11.93	576	5.0	0.3	25.1					
06/25/2012	18:43:11	11.89	498	5.0	12.9	37.7					
06/25/2012	18:43:23	11.90	521	5.0	13.8	38.7	Good returns				

Well EF16A-27			Field N. Parachute		Job Start Jun/25/2012		Customer Encana	Job Number C33J-00118
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	
06/25/2012	18:46:10	12.42	445	5.0	27.8	52.6	End Spacer	
06/25/2012	18:46:13	12.44	544	5.0	28.0	52.8	Start Cement Slurry	
06/25/2012	18:46:14	12.44	508	5.0	28.1	52.9	Start Mixing Scav Slurry	
06/25/2012	18:48:11	12.44	330	3.5	7.0	60.1		
06/25/2012	18:48:13	12.43	355	3.5	7.1	60.2	End Scavenger Slurry	
06/25/2012	18:48:14	12.43	348	3.5	7.2	60.3	Start Mixing Lead Slurry	
06/25/2012	18:48:15	12.43	369	3.5	7.2	60.3	248 bbl 12.5 lead	
06/25/2012	18:50:41	12.48	374	5.0	17.1	70.2		
06/25/2012	18:50:59	12.50	585	5.9	18.6	71.7	Good returns	
06/25/2012	18:51:11	12.50	570	6.4	19.8	72.9	Took wet/dry samples	
06/25/2012	18:51:12	12.50	570	6.4	19.9	73.0	Wet sample=12.5 on mudscales	
06/25/2012	18:53:11	12.41	483	6.4	32.7	85.8		
06/25/2012	18:55:41	12.45	407	6.4	48.8	101.9		
06/25/2012	18:58:11	12.49	338	6.5	65.0	118.1		
06/25/2012	19:00:41	12.51	513	7.9	82.7	135.8		
06/25/2012	19:03:11	12.53	395	7.9	102.5	155.6		
06/25/2012	19:05:41	12.49	385	7.9	122.3	175.4		
06/25/2012	19:08:11	12.45	386	7.9	142.1	195.2		
06/25/2012	19:10:41	12.45	391	7.9	161.9	215.0		
06/25/2012	19:13:11	12.59	395	7.9	181.8	234.9		
06/25/2012	19:15:41	12.58	421	7.9	201.6	254.7		
06/25/2012	19:18:11	12.45	385	7.9	221.4	274.5		
06/25/2012	19:20:41	12.47	263	6.5	237.9	291.0		
06/25/2012	19:22:49	12.50	264	6.5	251.8	304.9	End Lead Slurry	
06/25/2012	19:22:55	12.58	261	6.5	252.4	305.5	Start Mixing Scav Slurry	
06/25/2012	19:22:57	12.61	270	6.5	252.7	305.8	Bring to weight	
06/25/2012	19:23:11	12.64	278	6.5	254.2	307.3		
06/25/2012	19:23:53	12.90	308	6.5	258.7	311.8	End Scavenger Slurry	
06/25/2012	19:23:55	12.92	318	6.5	258.9	312.0	Start Mixing Tail Slurry	
06/25/2012	19:23:56	12.96	356	6.5	259.0	312.1	234 bbl 13.0 tail	
06/25/2012	19:25:41	12.87	331	6.5	9.6	323.5		
06/25/2012	19:28:11	12.88	334	6.5	25.8	339.7		
06/25/2012	19:30:41	13.00	226	5.0	39.1	353.0		
06/25/2012	19:33:11	13.12	218	5.0	51.7	365.6		
06/25/2012	19:35:41	13.00	210	5.0	64.3	378.2		
06/25/2012	19:38:11	13.06	246	5.0	76.9	390.8		
06/25/2012	19:40:41	13.05	238	5.0	89.6	403.4		
06/25/2012	19:43:11	13.08	245	5.1	102.2	416.1		
06/25/2012	19:45:41	13.08	304	5.0	114.8	428.7		
06/25/2012	19:45:57	13.06	224	5.0	116.1	430.0	Good returns	
06/25/2012	19:45:58	13.06	223	5.0	116.2	430.1	Took wet/sry samples	
06/25/2012	19:45:59	13.05	218	5.1	116.3	430.2	Wet sample=13.0 on mudscales	
06/25/2012	19:48:11	13.02	243	5.1	127.4	441.3		
06/25/2012	19:50:41	13.02	218	5.0	140.1	453.9		
06/25/2012	19:53:11	13.02	231	5.0	152.7	466.5		
06/25/2012	19:55:41	12.98	222	5.0	165.3	479.2		
06/25/2012	19:58:11	12.98	243	5.0	177.9	491.8		
06/25/2012	20:00:41	12.99	220	5.0	190.5	504.4		
06/25/2012	20:03:11	13.03	211	5.0	203.2	517.0		
06/25/2012	20:05:41	13.10	222	5.1	215.8	529.6		
06/25/2012	20:08:11	13.10	363	4.7	228.3	542.2		
06/25/2012	20:10:41	13.01	205	5.1	240.8	554.7		
06/25/2012	20:11:25	12.99	227	5.0	244.5	558.4	End Tail Slurry	
06/25/2012	20:11:26	12.99	183	4.5	244.6	558.5	End Cement Slurry	

Well EF16A-27			Field N. Parachute		Job Start Jun/25/2012		Customer Encana		Job Number C33J-00118
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		
06/25/2012	20:15:41	8.97	128	3.5	4.1	563.0			
06/25/2012	20:18:11	8.53	201	5.0	14.1	573.0			
06/25/2012	20:20:41	8.46	-5	0.2	25.9	584.8			
06/25/2012	20:22:28	8.45	49	1.6	0.0	584.9	Drop Top Plug		
06/25/2012	20:22:30	8.44	41	2.2	0.1	584.9	Start Displacement		
06/25/2012	20:22:32	8.45	29	2.5	0.2	585.0	Displace 158 bbl H2O		
06/25/2012	20:23:11	8.48	49	3.4	2.0	586.9			
06/25/2012	20:25:41	8.47	133	6.0	14.3	599.2			
06/25/2012	20:26:38	8.45	120	6.4	20.3	605.2	Good returns		
06/25/2012	20:28:11	8.46	466	6.3	30.1	614.9			
06/25/2012	20:30:41	8.45	759	6.3	45.8	630.6			
06/25/2012	20:33:11	8.45	1231	7.7	64.8	649.7			
06/25/2012	20:35:41	8.45	1492	7.6	83.9	668.8			
06/25/2012	20:38:11	8.45	1764	7.6	103.0	687.9			
06/25/2012	20:40:41	8.45	2018	7.5	122.0	706.9			
06/25/2012	20:43:11	8.45	2257	7.2	140.4	725.3			
06/25/2012	20:45:41	8.45	2229	4.8	154.6	739.5			
06/25/2012	20:48:11	8.45	2180	2.3	161.1	746.0			
06/25/2012	20:50:26	8.45	2945	0.0	166.1	750.9	Bump Top Plug		
06/25/2012	20:50:27	8.45	2874	0.0	166.1	750.9	End Displacement		
06/25/2012	20:50:29	8.45	2980	0.0	166.1	750.9	Bumped plug @ 2900 PSI		
06/25/2012	20:50:41	8.45	2961	0.0	166.1	750.9			
06/25/2012	20:53:11	8.46	2990	0.0	166.1	750.9			
06/25/2012	20:55:41	8.46	3051	0.0	166.1	750.9			
06/25/2012	20:58:11	8.46	3111	0.0	166.1	750.9			
06/25/2012	21:00:41	8.46	824	0.0	166.1	750.9			
06/25/2012	21:01:16	8.46	11	0.0	166.1	750.9	Float held		
06/25/2012	21:01:51	8.46	10	0.0	166.1	750.9	2 bbl back		

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 5.6	N2	Mud	Maximum Rate 8.0	Total Slurry 483.0	Mud 0.0	Spacer 30.0	N2	
Treating Pressure Summary, psi				Breakdown Fluid				
Maximum 4873	Final 10	Average 713	Bump Plug to 2900	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 483.0 bbl		Displacement 155.0 bbl	Mix Water Temp 73 degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl		
					Washed Thru Perfs <input type="checkbox"/>	To ft		
Customer or Authorized Representative Floyd Roberts			Schlumberger Supervisor Matt Fair/C. Jensen			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	



Service Quality Evaluation

Client:	Encana
Field:	N. Parachute
Rig:	Patterson 303
Well:	EF16A-27
Service Line:	Cementing
Job Type:	4 1/2" Production

Service Order #:	
Date:	Jun/25/2012
Operating Time (hh:mm):	00:00
Client Rep:	Floyd Roberts
Schlumberger Engineer:	Matt Fair/C. Jensen
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-009539, 009549 Lead-010083 Tail-010100
Client Signature:	Schlumberger Signature: