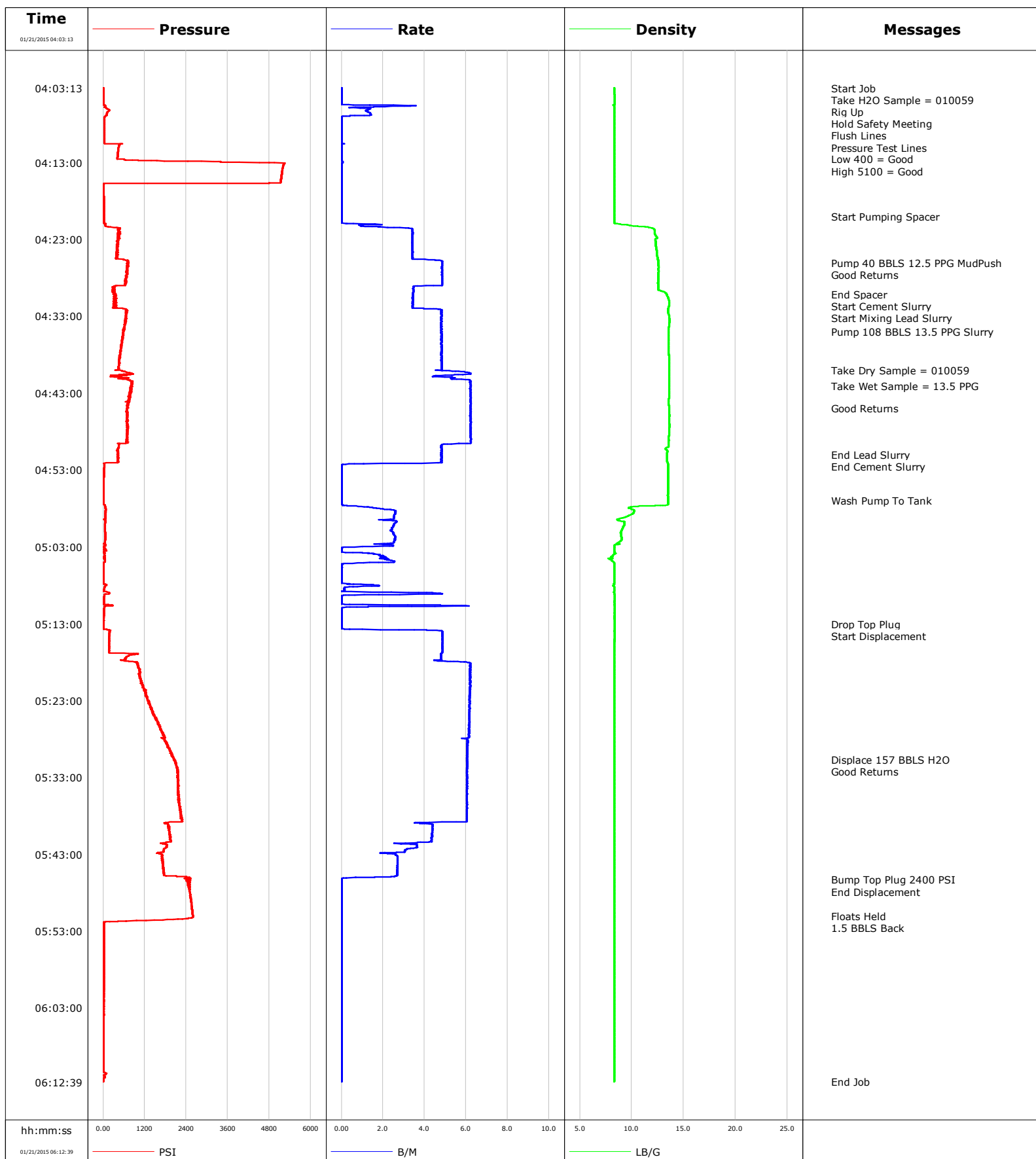


Well Ruhl 1C-32H-B264
Field DJ
Engineer Conley Jensen/ Lyle Hartsfield
Country United States

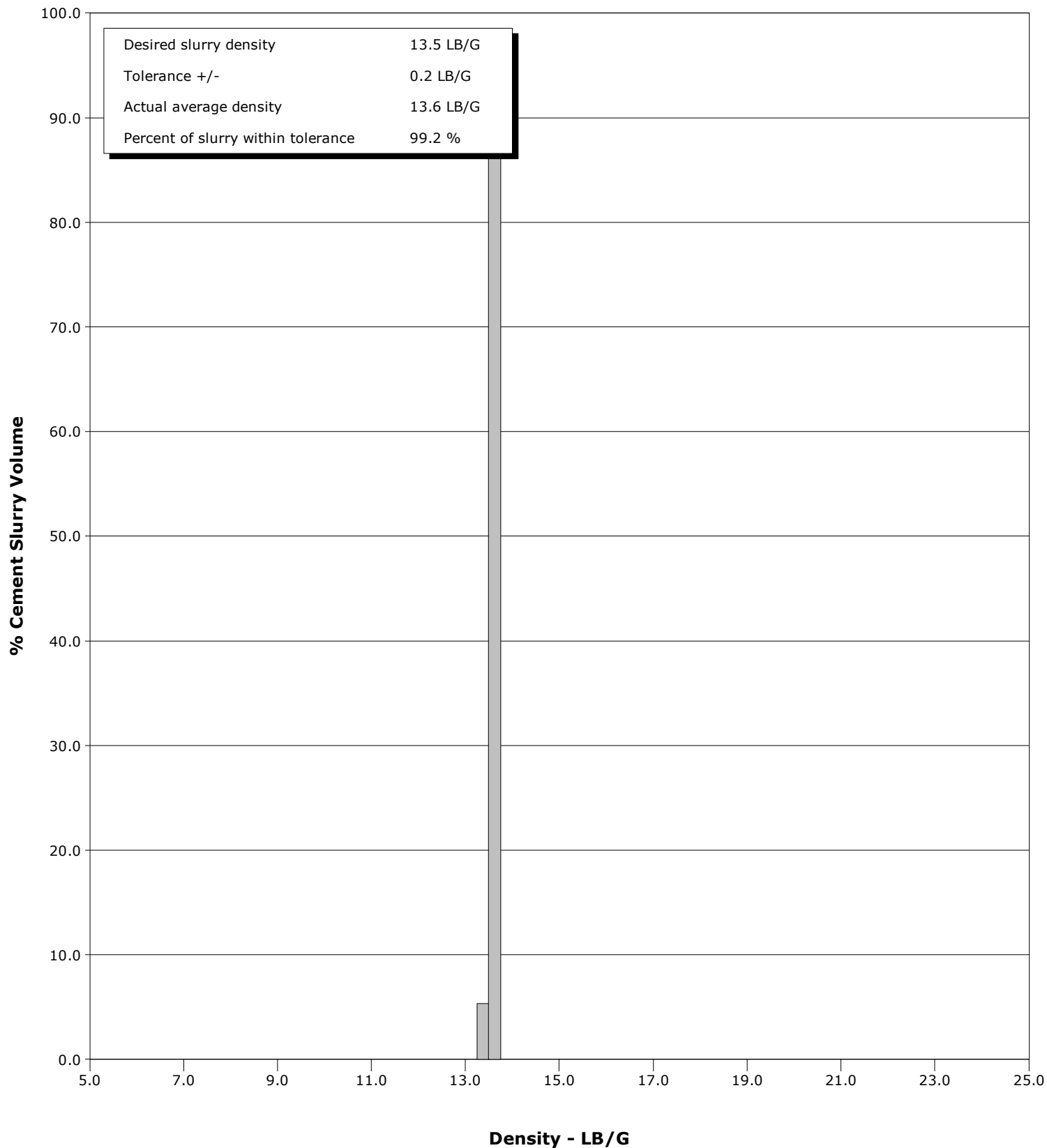
Client Encana
SIR No. 2087019
Job Type 4.5" Production
Job Date 01-20-2015



Well Ruhl 1C-32H-B264
Field DJ
Engineer Conley Jensen/ Lyle Hartsfield
Country United States

Client Encana
SIR No. 2087019
Job Type 4.5" Production
Job Date 01-20-2015

Cement Slurry - 01/21/2015 04:30:10 to 01/21/2015 04:51:00



Cementing Service Report

				Customer Encana		Job Number 2087019	
Well Ruhl 1C-32H-B264 1C-32H-B264			Location (legal) CWY		Schlumberger Location CWY		Job Start Jan/20/2015
Field DJ		Formation Name/Type Shale		Deviation deg	Bit Size 6.1 in	Well MD 11955.0 ft	Well TVD 7435.0 ft
County Weld		State/Province Colorado		BHP psi	BHST 215 degF	BHCT 214 degF	Pore Press. Gradient lb/gal
Well Master 0631588855		API/UWI 05123402790000					
Rig Name H&P 278		Drilled For Oil		Service Via Land		Casing/Liner	
				Depth, ft	Size, in	Weight, lb/ft	Grade
				7537.0	7.0	26.0	P110
Offshore Zone		Well Class New		Well Type Development			
				11737.0	4.5	13.5	P110
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe	
						T/D	Depth, ft
						Size, in	Weight, lb/ft
Service Line Cementing		Job Type 4.5" Production				Grade	Thread
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection		Perforations/Open Hole	
						Top, ft	Bottom, ft
						shot/ft	No. of Shots
							Total Interval ft
							Diameter in
						Treat Down Casing	Displacement 175.0 bbl
						Packer Type	Packer Depth ft
						Tubing Vol. bbl	Casing Vol. 175.0 bbl
						Annular Vol. 211.0 bbl	Openhole Vol. 399.0 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 psi				Shoe Type 2400		Squeeze Type	
Pipe Rotated <input checked="" type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 11737.0 ft		Tool Type	
No. Centralizers		Top Plugs		Bottom Plugs		Stage Tool Type	
						Tool Depth ft	
Cement Head Type				Stage Tool Depth ft		Tail Pipe Size in	
Job Scheduled For Jan/20/2015 23:00		Arrived on Location Jan/20/2015 23:00		Leave Location Jan/21/2015 07:00		Collar Type Float	
						Tail Pipe Depth ft	
						Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
01/21/2015	04:03:13	3	0.0	8.32	0.0	Started Acquisition	
01/21/2015	04:03:14	3	0.0	8.33	0.0	Take H2O Sample = 010059	
01/21/2015	04:03:15	3	0.0	8.33	0.0	Flush Lines	
01/21/2015	04:03:17	3	0.0	8.33	0.0	Pressure Test Lines	
01/21/2015	04:04:43	1	0.0	8.34	0.0		
01/21/2015	04:06:13	172	1.2	8.31	1.2		
01/21/2015	04:07:43	31	0.0	8.32	2.1		
01/21/2015	04:09:13	30	0.0	8.31	2.1		
01/21/2015	04:10:00	30	0.0	8.32	0.0	Low 400 = Good	
01/21/2015	04:10:43	467	0.0	8.32	0.0		
01/21/2015	04:12:00	420	0.0	8.32	0.0	High 5100 = Good	
01/21/2015	04:12:13	416	0.0	8.32	0.0		
01/21/2015	04:13:43	5186	0.0	8.32	0.0		
01/21/2015	04:15:13	5140	0.0	8.32	0.0		
01/21/2015	04:16:43	5	0.0	8.32	0.0		
01/21/2015	04:18:13	24	0.0	8.32	0.0		
01/21/2015	04:19:43	24	0.0	8.32	0.0		
01/21/2015	04:20:00	24	0.0	8.32	0.0	Start Pumping Spacer	
01/21/2015	04:21:13	70	0.9	10.16	0.3		
01/21/2015	04:22:43	426	3.4	12.43	5.0		
01/21/2015	04:24:13	403	3.4	12.37	10.1		

Well			Field		Job Start	Customer	Job Number
Ruhl 1C-32H-B264 1C-32H-B264			DJ		Jan/20/2015	Encana	2087019
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
01/21/2015	04:26:02	707	4.8	12.56	16.9	Pump 40 BBLS 12.5 PPG MudPush	
01/21/2015	04:26:12	714	4.8	12.57	17.7	Good Returns	
01/21/2015	04:27:13	693	4.8	12.57	22.6		
01/21/2015	04:28:43	629	4.9	12.53	29.9		
01/21/2015	04:30:03	306	3.4	13.32	0.0	End Spacer	
01/21/2015	04:30:10	302	3.4	13.37	0.4	Start Cement Slurry	
01/21/2015	04:30:13	358	3.4	13.39	0.6	Start Mixing Lead Slurry	
01/21/2015	04:31:43	367	3.4	13.57	5.7		
01/21/2015	04:33:13	666	4.8	13.61	12.5		
01/21/2015	04:34:43	597	4.8	13.55	19.7		
01/21/2015	04:35:00	581	4.8	13.54	21.1	Pump 108 BBLS 13.5 PPG Slurry	
01/21/2015	04:36:13	564	4.8	13.53	27.0		
01/21/2015	04:37:43	504	4.8	13.56	34.2		
01/21/2015	04:39:13	456	4.8	13.59	41.4		
01/21/2015	04:40:00	365	4.7	13.59	45.2	Take Dry Sample = 010059	
01/21/2015	04:40:43	262	4.6	13.61	49.3		
01/21/2015	04:42:00	849	6.2	13.58	56.6	Take Wet Sample = 13.5 PPG	
01/21/2015	04:42:13	824	6.2	13.57	58.0		
01/21/2015	04:43:43	773	6.2	13.58	67.3		
01/21/2015	04:45:00	704	6.2	13.59	75.3	Good Returns	
01/21/2015	04:45:13	685	6.2	13.60	76.6		
01/21/2015	04:46:43	726	6.2	13.61	85.9		
01/21/2015	04:48:13	679	6.2	13.59	95.3		
01/21/2015	04:49:43	451	4.8	13.54	104.4		
01/21/2015	04:51:00	446	4.8	13.40	110.6	End Lead Slurry	
01/21/2015	04:51:13	413	4.8	13.40	111.7		
01/21/2015	04:52:43	29	0.0	13.50	116.2		
01/21/2015	04:54:13	11	0.0	13.49	116.2		
01/21/2015	04:55:43	10	0.0	13.49	0.0		
01/21/2015	04:57:00	11	0.0	13.52	0.0	Wash Pump To Tank	
01/21/2015	04:57:13	10	0.0	13.51	0.0		
01/21/2015	04:58:43	69	2.6	10.09	2.2		
01/21/2015	05:00:13	56	2.5	9.28	5.9		
01/21/2015	05:01:43	58	2.6	9.00	9.6		
01/21/2015	05:03:13	54	0.0	8.33	12.8		
01/21/2015	05:04:43	48	2.3	8.05	14.5		
01/21/2015	05:06:13	10	0.0	8.32	15.5		
01/21/2015	05:07:43	11	0.0	8.32	0.0		
01/21/2015	05:09:13	39	1.8	8.34	1.9		
01/21/2015	05:10:43	97	5.5	8.34	2.8		
01/21/2015	05:12:13	15	0.0	8.33	3.3		
01/21/2015	05:13:00	13	0.0	8.33	3.3	Drop Top Plug	
01/21/2015	05:13:43	15	0.2	8.34	3.3		
01/21/2015	05:15:13	169	4.9	8.33	10.1		
01/21/2015	05:16:43	167	4.9	8.32	17.4		
01/21/2015	05:18:13	994	6.2	8.32	25.0		
01/21/2015	05:19:43	1062	6.2	8.32	34.2		
01/21/2015	05:21:13	1178	6.2	8.32	43.5		
01/21/2015	05:22:43	1261	6.2	8.32	52.8		
01/21/2015	05:24:13	1406	6.2	8.32	62.0		
01/21/2015	05:25:43	1584	6.2	8.32	71.3		
01/21/2015	05:27:13	1748	6.1	8.32	80.5		
01/21/2015	05:28:43	1832	6.1	8.32	89.7		
01/21/2015	05:30:13	1983	6.1	8.32	98.7		

Well			Field		Job Start		Customer		Job Number	
Ruhl 1C-32H-B264 1C-32H-B264			DJ		Jan/20/2015		Encana		2087019	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
01/21/2015	05:30:55	2082	6.0	8.32	103.0	Good Returns				
01/21/2015	05:31:43	2146	6.0	8.32	107.8					
01/21/2015	05:33:13	2158	6.1	8.32	116.9					
01/21/2015	05:34:43	2165	6.0	8.32	126.0					
01/21/2015	05:36:13	2180	6.1	8.32	135.0					
01/21/2015	05:37:43	2236	6.0	8.32	144.1					
01/21/2015	05:39:13	1877	4.4	8.32	152.4					
01/21/2015	05:40:43	1917	4.4	8.32	159.0					
01/21/2015	05:42:13	1806	3.5	8.32	164.9					
01/21/2015	05:43:43	1712	2.7	8.32	169.0					
01/21/2015	05:45:13	1742	2.7	8.32	173.1					
01/21/2015	05:46:17	2507	0.0	8.32	175.3	Bump Top Plug 2400 PSI				
01/21/2015	05:46:18	2466	0.0	8.32	175.3	End Displacement				
01/21/2015	05:46:43	2508	0.0	8.32	175.3					
01/21/2015	05:48:13	2518	0.0	8.32	175.3					
01/21/2015	05:49:43	2556	0.0	8.32	175.3					
01/21/2015	05:51:00	2588	0.0	8.32	175.3	Floats Held				
01/21/2015	05:51:13	2594	0.0	8.32	175.3					
01/21/2015	05:52:43	17	0.0	8.33	175.3					
01/21/2015	05:54:13	16	0.0	8.33	175.3					
01/21/2015	05:55:43	15	0.0	8.33	175.3					
01/21/2015	05:57:13	16	0.0	8.33	175.3					
01/21/2015	05:58:43	15	0.0	8.33	175.3					
01/21/2015	06:00:13	15	0.0	8.33	175.3					
01/21/2015	06:01:43	14	0.0	8.33	175.3					
01/21/2015	06:03:13	14	0.0	8.33	175.3					
01/21/2015	06:04:43	14	0.0	8.33	175.3					
01/21/2015	06:06:13	14	0.0	8.33	175.3					
01/21/2015	06:07:43	13	0.0	8.33	175.3					
01/21/2015	06:09:13	13	0.0	8.33	175.3					
01/21/2015	06:10:43	12	0.0	8.33	175.3					
01/21/2015	06:12:13	9	0.0	8.33	175.3					

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 4.5	N2	Mud	Maximum Rate 6.3	Total Slurry 108.0	Mud 0.0	Spacer 40.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 5260	Final 9	Average 769	Bump Plug to 2400	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 108.0 bbl		Displacement 175.0 bbl	Mix Water Temp 65 degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl	
						Washed Thru Perfs <input type="checkbox"/>	To ft	
Customer or Authorized Representative Joe Nelson			Schlumberger Supervisor Conley Jensen/ Lyle Hartsfield			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	



Service Quality Evaluation

Client:	Encana
Field:	DJ
Rig:	H&P 278
Well:	Ruhl 1C-32H-B264
Service Line:	Cementing
Job Type:	4.5" Production

Service Order #:	
Date:	Jan/20/2015
Operating Time (hh:mm):	00:00
Client Rep:	Joe Nelson
Schlumberger Engineer:	Conley Jensen/ Lyle Hartsfield
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 type="checkbox"/>	no <input checked="" type="checkbox"/>	0
1b	Free of environmental spill or non-compliant discharge	5	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
1c	Wellsite left clean	4	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
Sub-total					0%

2	Design / Preparation				
2a	Program incl. job simulation (CemCADE) & pump schedule / tool hydraulic calcs	3	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
2b	Equipment maintenance schedule completed / Green tagged	2	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
2c	All materials and equipment required for job/contingency checked & on location	2	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
2d	Safety / pre-job meeting conducted with all involved present	2	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
Sub-total					0%

3	Execution				
3a	Lost time < 30 mins	3	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3b	Equipment pressure tested successfully	3	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3c	All key parameters monitored and recorded accurately (Pressure, Rate, Density)	2	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3d	Plugs / darts released and tested successfully	2	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3e	Density variation met expectations	2	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3f	Personnel performed as per expectations	2	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3g	Equipment performed as per expectations	2	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3h	Job pumped as per design	3	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3i	Did job start on time	2	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
3j	Free of Operational failures (screen out, Cementing Example, etc.)	3	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
Sub-total					0%

4	Evaluation				
4a	Main job objective achieved with no consequential non-productive time	10	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
Sub-total					0%

Total 0%

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

Client:	Schlumberger:
Client Signature:	Schlumberger Signature: