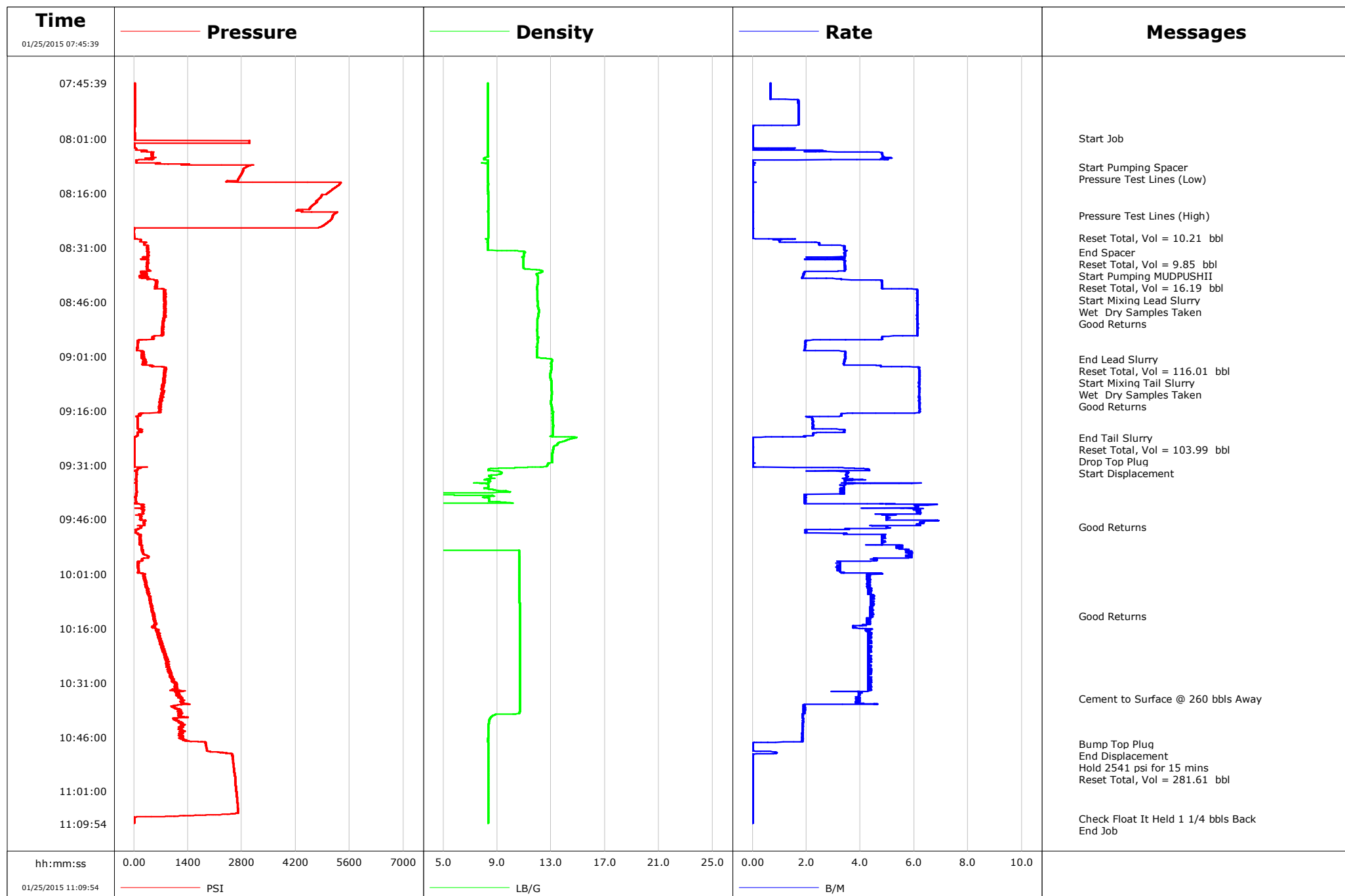


Well Ruhl 1B-32H-B264
Field DJ
Engineer Wayne Silvester/Terry Tischmak
Country United States

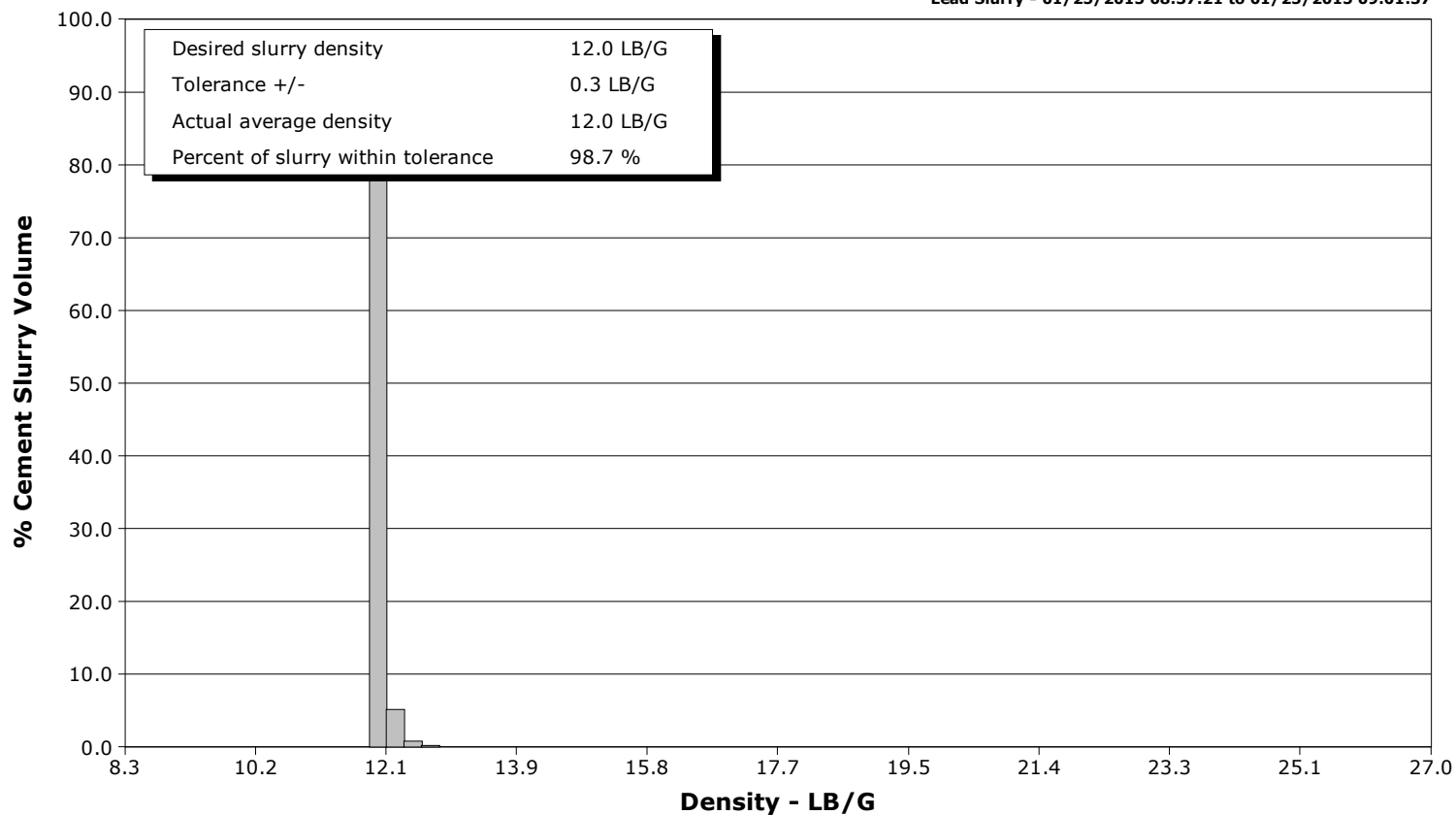
Client Encana
SIR No. D8FO-00037
Job Type Intermediate
Job Date 01-25-2015



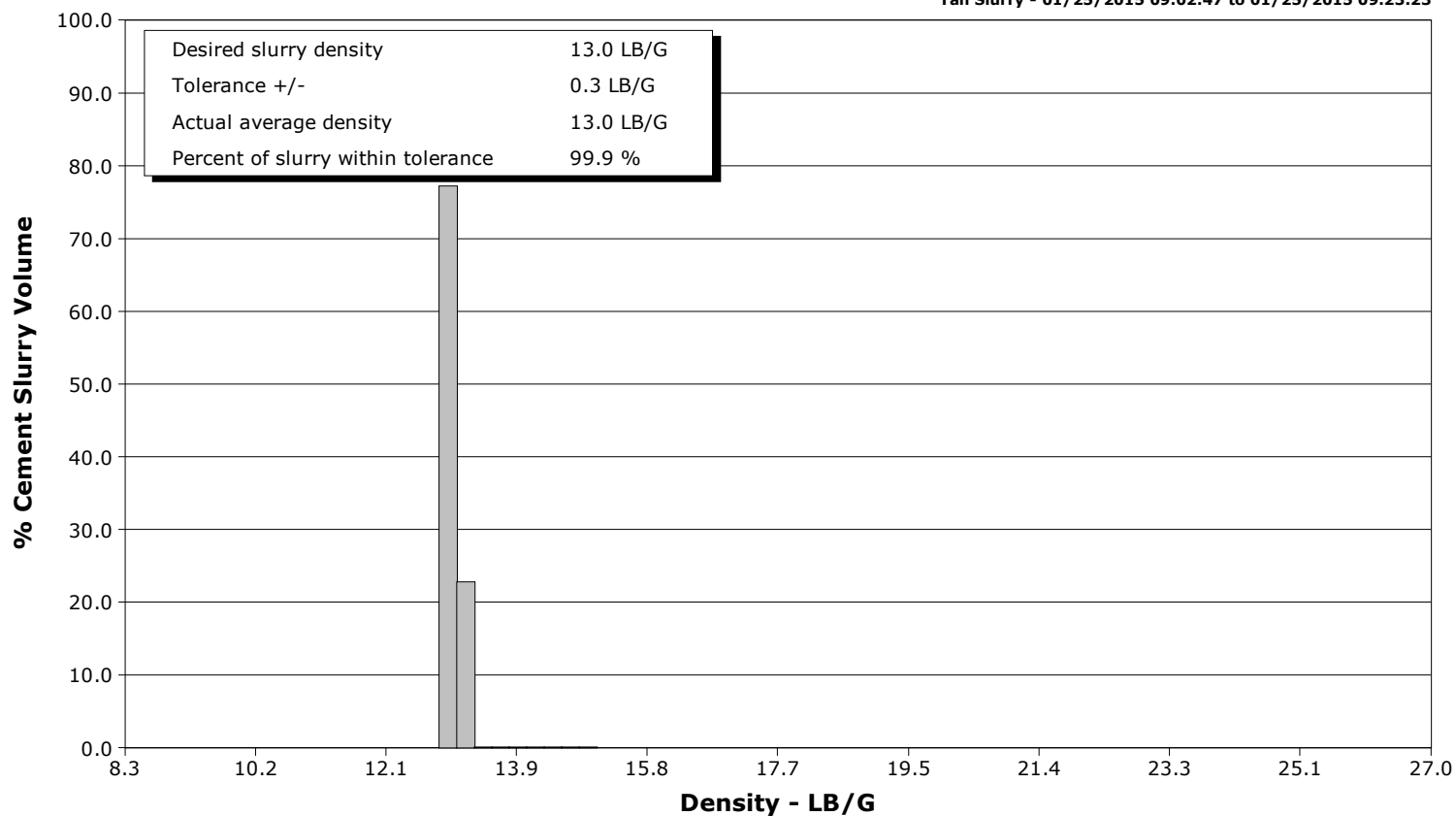
Well Ruhl 1B-32H-B264
Field DJ
Engineer Wayne Silvester/Terry Tischmak
Country United States

Client Encana
SIR No. D8FO-00037
Job Type Intermediate
Job Date 01-25-2015

Lead Slurry - 01/25/2015 08:37:21 to 01/25/2015 09:01:37



Tail Slurry - 01/25/2015 09:02:47 to 01/25/2015 09:23:23



Cementing Service Report

				Customer Encana			Job Number D8FO-00037				
Well Ruhl 1B-32H-B264 1B-32H-B264			Location (legal) 217304			Schlumberger Location Cheyenne			Job Start Jan/25/2015		
Field DJ		Formation Name/Type Shale		Deviation deg		Bit Size 8.8 in		Well MD 7393.0 ft		Well TVD 7408.0 ft	
County Weld		State/Province Colorado		BHP 610 psi		BHST degF		BHCT degF		Pore Press. Gradient lb/gal	
Well Master 0631588860		API/UWI 05123402840000									
Rig Name H&P 278		Drilled For Oil & Gas		Service Via Land		Casing/Liner					
						Depth, ft		Size, in		Weight, lb/ft	
Offshore Zone		Well Class New		Well Type Other		7393.0		7.0		26.0	
						0.0		0.0		0.0	
Drilling Fluid Type Bentonite		Max. Density 11.00 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
Service Line Cementing		Job Type Intermediate									
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press 4000 psi		WH Connection 7		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
						ft		ft		Total Interval ft	
						ft		ft		Diameter in	
						ft		ft			
						Treat Down Casing		Displacement 281.0 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 283.0 bbl		Annular Vol. 199.7 bbl	
										Openhole Vol. bbl	
Service Instructions											
1.Rig-Up, Prime-Up Pressure-Test (2.5% variance in 3 minutes) per Standard 5											
2.Confirm design with Client Representative											
3.Check Mud Density and Rheology.											
4.Perform Water Quality test prior to job.											
5.If Losses seen reduce pump rate to decrease ECD.											
6.ENSURE TATTLE-TAIL DEPARTURE.											
7.COUNT EXACT TANKS ON DISPLACEMENT.											
8.MAXIMUM OVERDISPLACEMENT Verify with Company Represenataive.											
Min Volume = Design - 20 bbls											
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>				Casing Tools		Squeeze Job			
Lift Pressure 4995 psi						Shoe Type Float		Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 7391.5 ft		Tool Type			
No. Centralizers		Top Plugs 1		Bottom Plugs 1		Stage Tool Type		Tool Depth ft			
Cement Head Type Double						Stage Tool Depth ft		Tail Pipe Size in			
Job Scheduled For Jan/25/2015		Arrived on Location Jan/25/2015		Leave Location Jan/25/2015		Collar Type Float		Tail Pipe Depth ft			
						Collar Depth 7344.7 ft		Sqz. Total Vol. bbl			
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message					
01/25/2015	07:45:39	20	0.7	8.30	0.0	Water Test Complete					
01/25/2015	07:50:40	34	1.7	8.31	0.0						
01/25/2015	07:55:41	35	1.7	8.30	0.0						
01/25/2015	08:00:42	15	0.0	8.30	0.0						
01/25/2015	08:00:45	15	0.0	8.30	0.0	Start Job					
01/25/2015	08:05:43	474	4.8	8.31	6.5						
01/25/2015	08:08:49	2918	0.0	8.31	12.0	Start Pumping Spacer					
01/25/2015	08:09:40	2828	0.0	8.31	12.0	Pressure Test Lines (Low)					
01/25/2015	08:10:44	2790	0.0	8.31	12.0						
01/25/2015	08:15:45	5063	0.0	8.32	12.0						
01/25/2015	08:20:46	4237	0.0	8.32	12.0						
01/25/2015	08:22:13	5169	0.0	8.32	12.0	Pressure Test Lines (High)					
01/25/2015	08:25:47	-1	0.0	8.32	12.0						
01/25/2015	08:28:24	0	0.0	8.32	12.0	Reset Total, Vol = 10.21 bbl					
01/25/2015	08:30:48	343	3.4	8.31	16.5						
01/25/2015	08:32:17	365	3.4	11.05	0.4	End Spacer					
01/25/2015	08:32:22	348	3.4	11.06	0.7	Reset Total, Vol = 9.85 bbl					
01/25/2015	08:32:27	362	3.4	11.07	1.0	Start Pumping MUDPUSHII					
01/25/2015	08:35:49	368	3.4	10.95	11.9						
01/25/2015	08:37:16	360	3.4	12.11	16.9	Reset Total, Vol = 16.19 bbl					
01/25/2015	08:37:21	368	3.4	12.24	17.2	Start Mixing Lead Slurry					

Well			Field		Job Start		Customer		Job Number	
Ruhl 1B-32H-B264 1B-32H-B264			DJ		Jan/25/2015		Encana		D8FO-00037	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
01/25/2015	08:40:50	620	4.8	12.01	27.2					
01/25/2015	08:42:09	593	4.8	11.95	33.6	Good Returns				
01/25/2015	08:45:51	840	6.1	12.00	55.8					
01/25/2015	08:50:52	791	6.1	11.99	86.5					
01/25/2015	08:55:53	491	4.8	12.05	116.6					
01/25/2015	09:00:54	237	3.4	11.94	130.2					
01/25/2015	09:01:37	252	3.4	12.69	132.7	End Lead Slurry				
01/25/2015	09:01:41	209	3.4	12.80	132.9	Reset Total, Vol = 116.01 bbl				
01/25/2015	09:02:47	223	3.4	13.00	136.6	Start Mixing Tail Slurry				
01/25/2015	09:02:53	227	3.4	12.99	137.0	Wet Dry Samples Taken				
01/25/2015	09:05:55	770	6.2	12.94	153.4					
01/25/2015	09:10:56	782	6.2	13.03	184.5					
01/25/2015	09:13:28	697	6.2	12.97	200.1	Good Returns				
01/25/2015	09:15:57	669	6.2	13.07	215.5					
01/25/2015	09:20:58	97	2.2	13.13	230.6					
01/25/2015	09:23:23	9	0.2	14.88	236.9	End Tail Slurry				
01/25/2015	09:23:43	9	0.0	14.61	236.9	Reset Total, Vol = 103.99 bbl				
01/25/2015	09:24:29	9	0.0	13.96	236.9	Drop Top Plug				
01/25/2015	09:24:30	9	0.0	13.93	236.9	Start Displacement				
01/25/2015	09:25:59	9	0.0	13.20	236.9					
01/25/2015	09:31:00	8	0.0	12.73	236.9					
01/25/2015	09:36:01	16	5.5	7.56	15.5					
01/25/2015	09:41:02	41	1.9	8.39	29.8					
01/25/2015	09:46:03	197	5.0	-0.04	56.0					
01/25/2015	09:48:03	163	5.0	-0.05	68.0	Good Returns				
01/25/2015	09:51:04	176	4.8	-0.04	78.8					
01/25/2015	09:56:05	348	5.9	10.63	105.5					
01/25/2015	10:01:06	279	4.7	10.65	124.8					
01/25/2015	10:06:07	353	4.4	10.64	146.3					
01/25/2015	10:11:08	477	4.4	10.68	168.3					
01/25/2015	10:12:43	502	4.3	10.67	175.2	Good Returns				
01/25/2015	10:16:09	562	4.1	10.67	189.6					
01/25/2015	10:21:10	704	4.3	10.68	211.1					
01/25/2015	10:26:11	886	4.3	10.69	232.7					
01/25/2015	10:31:12	1087	4.3	10.69	254.3					
01/25/2015	10:35:23	1266	4.0	10.69	271.6	Cement to Surface @ 260 bbls Away				
01/25/2015	10:36:13	1226	4.0	10.69	274.9					
01/25/2015	10:41:14	1090	1.9	8.43	286.4					
01/25/2015	10:46:15	1277	1.8	8.32	295.7					
01/25/2015	10:47:50	1855	0.0	8.32	298.0	Bump Top Plug				
01/25/2015	10:47:51	1856	0.0	8.32	298.0	End Displacement				
01/25/2015	10:50:43	2541	0.3	8.33	298.6	Hold 2541 psi for 15 mins				
01/25/2015	10:50:56	2549	0.0	8.33	298.6	Reset Total, Vol = 281.61 bbl				
01/25/2015	10:51:16	2551	0.0	8.33	298.6					
01/25/2015	10:56:17	2611	0.0	8.32	298.6					
01/25/2015	11:01:18	2657	0.0	8.32	298.6					
01/25/2015	11:06:19	2699	0.0	8.32	298.6					
01/25/2015	11:08:26	1	0.0	8.32	298.6	Check Float It Held 1 1/4 bbls Back				

Well Ruhl 1B-32H-B264 1B-32H-B264	Field DJ	Job Start Jan/25/2015	Customer Encana	Job Number D8FO-00037
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry 3.8	N2	Mud 4.1	Maximum Rate 6.9		Total Slurry 219.6	Mud 18.5	Spacer 20.5		N2		
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 5380	Final 3	Average 989	Bump Plug to 1110	Breakdown	Type		Volume bbl		Density lb/gal		
Avg. N2 Percent %		Designed Slurry Volume 219.0 bbl		Displacement 281.5 bbl		Mix Water Temp 65 degF		Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume 20.0 bbl	
								Washed Thru Perfs		<input type="checkbox"/>	To ft
Customer or Authorized Representative Jim Quesenvury				Schlumberger Supervisor Wayne Silvester/Terry Tischmak				Circulation Lost	<input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>
								-		-	