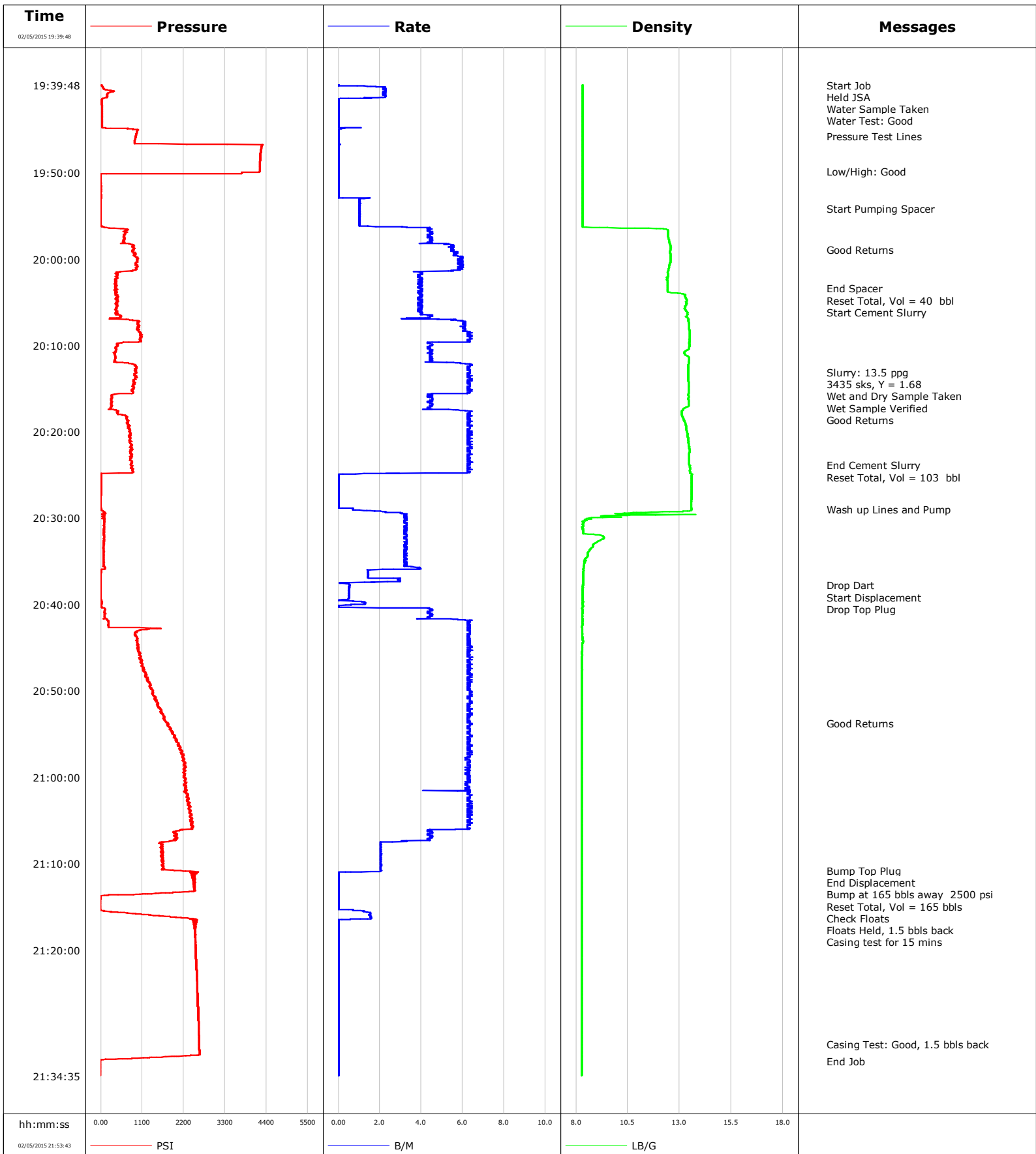


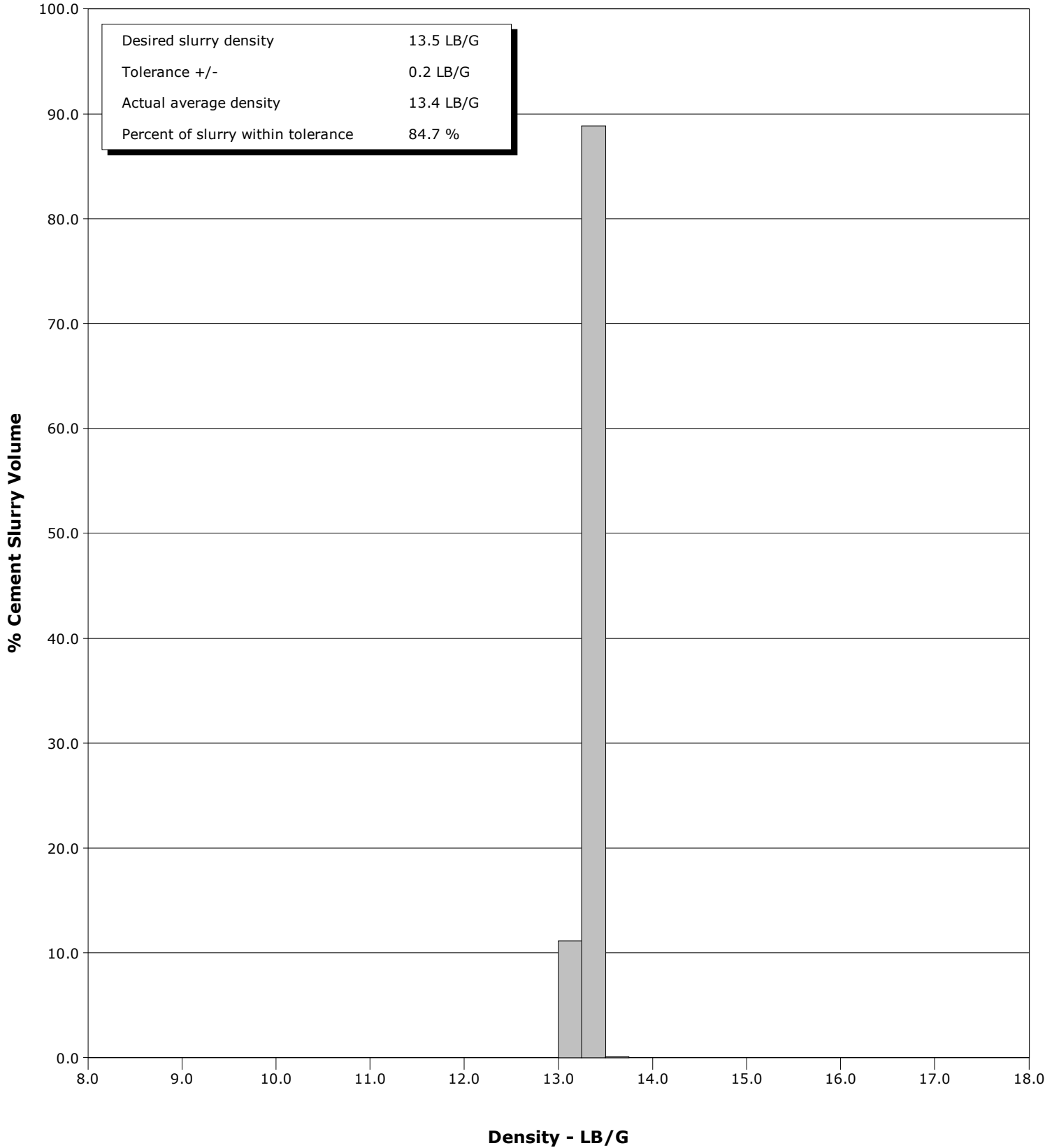
Well	Ruhl 1A-32H-B264	Client	Encana
Field	DJ	SIR No.	CWJN-00840
Engineer	Matlock / Terry	Job Type	Production
Country	United States	Job Date	02-05-2015



Well Ruhl 1A-32H-B264
Field DJ
Engineer Matlock / Terry
Country United States

Client Encana
SIR No. CWJN-00840
Job Type Production
Job Date 02-05-2015

Cement Slurry - 02/05/2015 20:05:25 to 02/05/2015 20:23:53



				Customer			Job Number	
				Encana			CWJN-00840	
Well		Location (legal)			Schlumberger Location		Job Start	
Ruhl 1A-32H-B264 Ruhl 1A-32HZ-B624					Cheyenne		Feb/05/2015	
Field	Formation Name/Type			Deviation	Bit Size	Well MD	Well TVD	
DJ				90 deg	in	11533.0 ft	7045.0 ft	
County	State/Province	BHP		BHST	BHCT	Pore Press. Gradient		
Weld	CO	psi		215 degF	215 degF	lb/gal		
Well Master	API/UWI			Casing/Liner				
0631588857	05123402810000			Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Rig Name	Drilled For	Service Via		11518.0	4.5	13.5	P-110	8RD
H&P 278	Gas	Land		0.0	0.0	0.0		
Offshore Zone	Well Class	Well Type		Tubing/Drill Pipe				
	New	Development		T/D	Depth, ft	Size, in	Weight, lb/ft	Grade
								Thread
Drilling Fluid Type	Max. Density	Plastic Viscosity						
	lb/gal	cP						
Service Line	Job Type							
Cementing	Production							
Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection		Perforations/Open Hole				
psi	psi			Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval
				ft	ft			ft
Service Instructions Previous Casing: 7482' Top of Cement (previous casing -1000'): 6482' OH Excess: 20% TD: 11587' (7045')				ft	ft			Diameter
				ft	ft			in
				ft	ft			
				Treat Down	Displacement	Packer Type	Packer Depth	
Casing	172.0 bbl		ft					
Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.					
bbl	bbl	207.6 bbl	bbl					
Casing/Tubing Secured	1 Hole Vol. Circulated prior to Cement			Casing Tools			Squeeze Job	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
Lift Pressure	psi			Shoe Type	Float	Squeeze Type		
				Shoe Depth	11516.0 ft	Tool Type		
Pipe Rotated	Pipe Reciprocated			Stage Tool Type			Tool Depth	
<input type="checkbox"/>	<input type="checkbox"/>						ft	
No. Centralizers	Top Plugs	Bottom Plugs		Stage Tool Depth			Tail Pipe Size	
48	0	1		ft			in	
Cement Head Type				Collar Type			Tail Pipe Depth	
				Float			ft	
Job Scheduled For	Arrived on Location		Leave Location	Collar Depth			Sqz. Total Vol.	
Feb/05/2015 13:00	Feb/05/2015 13:00		Feb/05/2015 22:30	11518.0 ft			bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
02/05/2015	19:39:48	19	0.0	8.32	0.0	Started Acquisition		
02/05/2015	19:40:18	89	2.2	8.32	0.7	Held JSA		
02/05/2015	19:40:24	146	2.3	8.32	0.9	Water Test: Good		
02/05/2015	19:41:28	31	0.0	8.32	3.1			
02/05/2015	19:43:08	29	0.0	8.32	3.1			
02/05/2015	19:44:48	50	1.1	8.32	3.1			
02/05/2015	19:45:48	926	0.0	8.32	3.1	Pressure Test Lines		
02/05/2015	19:46:28	897	0.0	8.32	3.1			
02/05/2015	19:48:08	4236	0.0	8.32	3.1			
02/05/2015	19:49:48	4218	0.0	8.32	3.1			
02/05/2015	19:49:49	4218	0.0	8.32	3.1	Low/High: Good		
02/05/2015	19:51:28	3	0.0	8.32	3.1			
02/05/2015	19:53:08	-0	1.0	8.32	3.3			
02/05/2015	19:54:09	-2	1.0	8.32	4.3	Start Pumping Spacer		
02/05/2015	19:54:48	-3	1.1	8.32	5.0			
02/05/2015	19:56:28	566	4.4	12.09	7.4			
02/05/2015	19:58:08	603	4.5	12.52	5.6			
02/05/2015	19:58:52	868	5.4	12.57	9.5	Good Returns		
02/05/2015	19:59:48	979	5.9	12.56	14.7			
02/05/2015	20:01:28	523	3.9	12.44	24.5			
02/05/2015	20:03:08	405	4.0	12.42	31.1			

Well		Field		Job Start		Customer		Job Number	
Ruhl 1A-32H-B264 Ruhl 1A-32HZ-B624		DJ		Feb/05/2015		Encana		CWJN-00840	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
02/05/2015	20:03:30	443	4.0	12.42	32.5	Reset Total, Vol = 40 bbl			
02/05/2015	20:04:48	459	4.0	13.35	37.7				
02/05/2015	20:05:25	440	4.0	13.30	40.1	Start Cement Slurry			
02/05/2015	20:06:28	501	4.5	13.39	0.5				
02/05/2015	20:08:08	964	6.1	13.48	9.5				
02/05/2015	20:09:48	427	4.4	13.48	19.7				
02/05/2015	20:11:28	384	4.4	13.46	27.1				
02/05/2015	20:13:08	942	6.4	13.42	36.6	Slurry: 13.5 ppg			
02/05/2015	20:13:09	944	6.4	13.42	36.7	Wet Sample Verified			
02/05/2015	20:13:10	956	6.2	13.42	36.8	Good Returns			
02/05/2015	20:14:48	873	6.2	13.44	47.1				
02/05/2015	20:16:28	284	4.4	13.43	56.0				
02/05/2015	20:18:08	659	6.4	13.12	64.7				
02/05/2015	20:19:48	778	6.2	13.33	75.2				
02/05/2015	20:21:28	807	6.4	13.44	85.7				
02/05/2015	20:23:08	790	6.2	13.47	96.2				
02/05/2015	20:23:53	797	6.2	13.50	100.9	End Cement Slurry			
02/05/2015	20:24:33	847	6.2	13.50	105.1	Reset Total, Vol = 103 bbl			
02/05/2015	20:24:48	477	4.2	13.51	106.7				
02/05/2015	20:26:28	11	0.0	13.58	107.0				
02/05/2015	20:28:08	-8	0.0	13.57	107.0				
02/05/2015	20:28:58	13	0.7	13.57	107.0	Wash up Lines and Pump			
02/05/2015	20:29:48	92	3.3	9.34	109.0				
02/05/2015	20:31:28	80	3.2	8.34	114.4				
02/05/2015	20:33:08	80	3.2	8.82	119.8				
02/05/2015	20:34:48	74	3.2	8.42	125.2				
02/05/2015	20:36:28	-2	1.5	8.34	129.9				
02/05/2015	20:37:47	-4	0.5	8.33	132.0	Drop Dart			
02/05/2015	20:37:49	-4	0.5	8.33	132.1	Start Displacement			
02/05/2015	20:38:08	-4	0.5	8.33	132.2				
02/05/2015	20:38:48	-3	0.5	8.33	132.6	Drop Top Plug			
02/05/2015	20:39:48	26	1.2	8.32	0.2				
02/05/2015	20:41:28	102	4.4	8.31	5.3				
02/05/2015	20:43:08	924	6.4	8.31	15.4				
02/05/2015	20:44:48	972	6.4	8.29	25.9				
02/05/2015	20:46:28	1088	6.2	8.28	36.4				
02/05/2015	20:48:08	1212	6.4	8.28	46.9				
02/05/2015	20:49:48	1325	6.2	8.28	57.4				
02/05/2015	20:51:28	1524	6.4	8.27	68.0				
02/05/2015	20:53:08	1697	6.4	8.27	78.5				
02/05/2015	20:53:47	1778	6.4	8.27	82.6	Good Returns			
02/05/2015	20:54:48	1919	6.2	8.27	89.0				
02/05/2015	20:56:28	2083	6.4	8.27	99.5				
02/05/2015	20:58:08	2196	6.4	8.27	110.0				
02/05/2015	20:59:48	2241	6.4	8.27	120.5				
02/05/2015	21:01:28	2267	6.4	8.27	130.9				
02/05/2015	21:03:08	2327	6.2	8.27	141.4				
02/05/2015	21:04:48	2433	6.4	8.27	151.9				
02/05/2015	21:06:28	1955	4.5	8.27	161.7				
02/05/2015	21:08:08	1641	2.0	8.27	167.4				
02/05/2015	21:09:48	1615	2.0	8.27	170.8				
02/05/2015	21:10:50	2125	2.0	8.27	172.9	Bump Top Plug			
02/05/2015	21:10:51	2190	2.0	8.27	172.9	End Displacement			
02/05/2015	21:10:52	2244	2.0	8.27	173.0	Bump at 165 bbls away 2500 psi			

Well		Field		Job Start		Customer		Job Number	
Ruhl 1A-32H-B264 Ruhl 1A-32HZ-B624		DJ		Feb/05/2015		Encana		CWJN-00840	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
02/05/2015	21:11:28	2505	0.0	8.27	173.2				
02/05/2015	21:13:08	2500	0.0	8.27	173.2				
02/05/2015	21:13:53	-10	0.0	8.27	173.2	Check Floats			
02/05/2015	21:14:48	-15	0.0	8.27	173.2				
02/05/2015	21:15:53	1096	1.5	8.27	173.9	Casing test for 15 mins			
02/05/2015	21:16:28	2533	0.6	8.27	174.8				
02/05/2015	21:18:08	2500	0.0	8.28	174.8				
02/05/2015	21:19:48	2515	0.0	8.28	174.8				
02/05/2015	21:21:28	2532	0.0	8.28	174.8				
02/05/2015	21:23:08	2550	0.0	8.28	174.8				
02/05/2015	21:24:48	2564	0.0	8.28	174.8				
02/05/2015	21:26:28	2579	0.0	8.28	174.8				
02/05/2015	21:28:08	2592	0.0	8.28	174.8				
02/05/2015	21:29:48	2606	0.0	8.28	174.8				
02/05/2015	21:30:54	2616	0.0	8.28	174.8	Casing Test: Good, 1.5 bbls back			
02/05/2015	21:31:28	2618	0.0	8.28	174.8				
02/05/2015	21:32:55	-16	0.0	8.28	174.8	End Job			
02/05/2015	21:33:08	-17	0.0	8.28	174.8				

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2	
4.5			6.5	103.0	0.0	40.0		
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density	
4301	-20	1291	2500			bbl	lb/gal	
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	<input type="checkbox"/>	Volume	bbl	
%	102.4 bbl	165.0 bbl	60 degF	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"/>	
Randy Burke	Matlock / Terry			-		-		