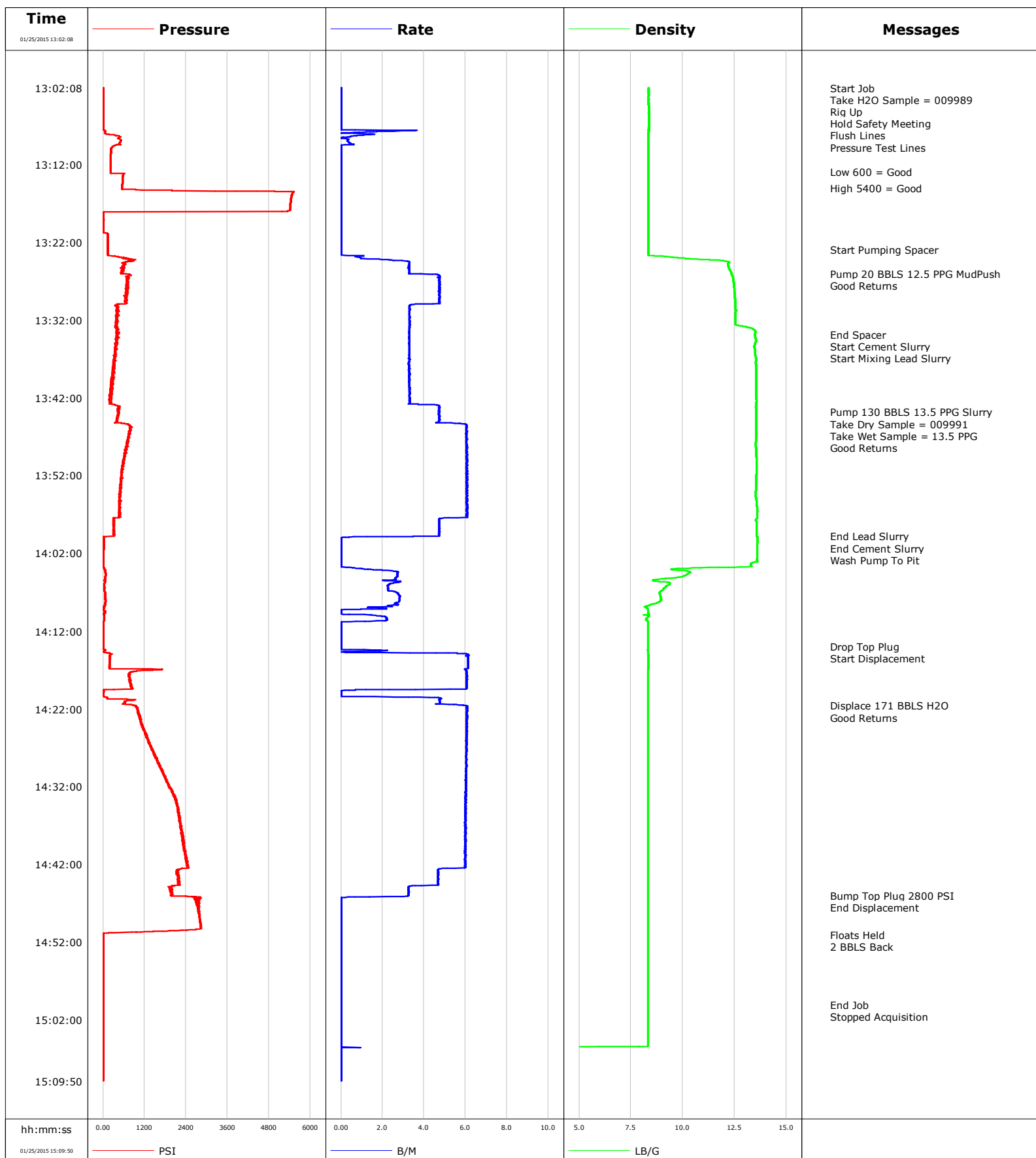


**Well** Ruhl 1G-32H  
**Field** DJ  
**Engineer** Conley Jensen/ Lyle Hartsfield  
**Country** United States

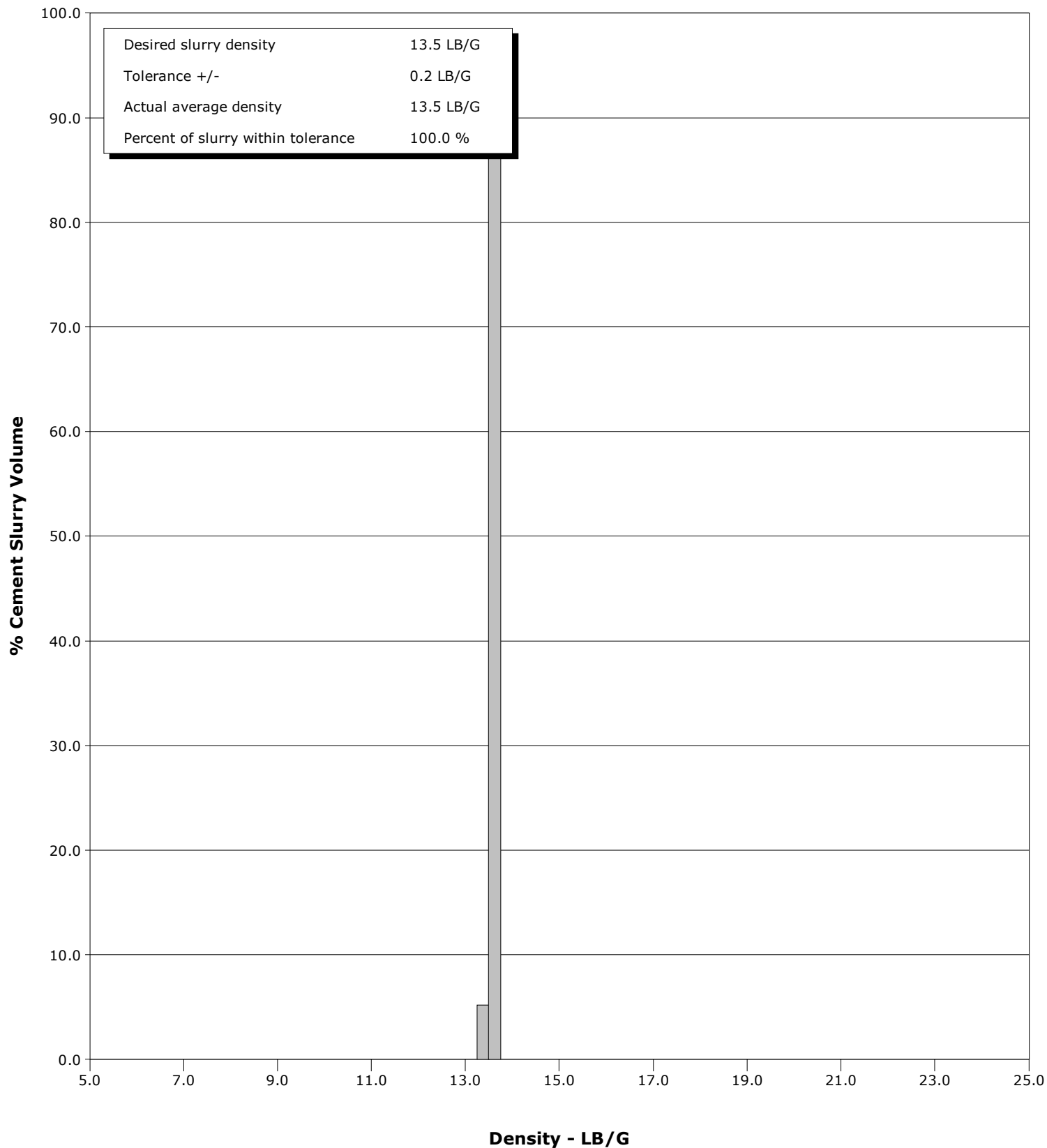
**Client** Encana  
**SIR No.** 2090809  
**Job Type** 4.5" Production  
**Job Date** 01-25-2015



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

**Client** Encana  
**SIR No.** 2090809  
**Job Type** 4.5" Production  
**Job Date** 01-25-2015

**Cement Slurry - 01/25/2015 13:33:54 to 01/25/2015 13:59:50**



# Cementing Service Report

				Customer Encana		Job Number 2090809	
Well Ruhl 1G-32H 1G-32H			Location (legal) CWY		Schlumberger Location CWY		Job Start Jan/25/2015
Field DJ		Formation Name/Type Shale		Deviation deg	Bit Size 6.1 in	Well MD 11517.0 ft	Well TVD 7987.0 ft
County Weld		State/Province Colorado		BHP psi	BHST 215 degF	BHCT 215 degF	Pore Press. Gradient lb/gal
Well Master 0631588862		API/UWI 05123402860000					
Rig Name Ensign 135		Drilled For Oil		Service Via Land		Casing/Liner	
				Depth, ft	Size, in	Weight, lb/ft	Grade
Offshore Zone		Well Class New		Well Type Development			
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe	
Service Line Cementing		Job Type 4.5" Production		T/D	Depth, ft	Size, in	Weight, lb/ft
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection		Perforations/Open Hole	
				Top, ft	Bottom, ft	shot/ft	No. of Shots
				Treat Down Casing	Displacement 171.0 bbl	Packer Type	Packer Depth ft
				Tubing Vol. bbl	Casing Vol. 171.0 bbl	Annular Vol. 206.0 bbl	Openhole Vol. 391.0 bbl
Service Instructions Rig Up Hold Safety Meeting Flush Lines Pressure Test Lines 500/5000PSI Pump 40 BBLS 12.5 PPG MudPush Pump 120 BBLS 13.5 PPG Slurry Wash Pump Drop Top Plug Displace 171 BBLS H2O							
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>		Casing Tools		Squeeze Job	
Lift Pressure 9745 psi				Shoe Type Guide		Squeeze Type	
Pipe Rotated <input checked="" type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 11480.0 ft		Tool Type	
No. Centralizers		Top Plugs 1		Bottom Plugs		Stage Tool Type	
						Tool Depth ft	
Cement Head Type				Stage Tool Depth ft		Tail Pipe Size in	
Job Scheduled For Jan/25/2015 09:30		Arrived on Location Jan/25/2015 09:00		Leave Location Jan/25/2015		Collar Type Float	
						Tail Pipe Depth ft	
						Collar Depth 11476.0 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	13:02:08	11	0.0	8.36	0.0	Started Acquisition	
01/25/2015	13:02:09	11	0.0	8.36	0.0	Start Job	
01/25/2015	13:02:10	10	0.0	8.36	0.0	Take H2O Sample = 009989	
01/25/2015	13:02:11	10	0.0	8.36	0.0	Flush Lines	
01/25/2015	13:02:13	11	0.0	8.36	0.0	Pressure Test Lines	
01/25/2015	13:03:38	7	0.0	8.36	0.0		
01/25/2015	13:05:08	7	0.0	8.36	0.0		
01/25/2015	13:06:38	7	0.0	8.36	0.0		
01/25/2015	13:08:08	131	1.6	8.35	0.8		
01/25/2015	13:09:38	323	0.0	8.34	1.5		
01/25/2015	13:11:08	225	0.0	8.34	1.5		
01/25/2015	13:12:38	220	0.0	8.34	1.5		
01/25/2015	13:13:00	219	0.0	8.34	1.5	Low 600 = Good	
01/25/2015	13:14:08	562	0.0	8.34	1.5		
01/25/2015	13:15:00	554	0.0	8.34	1.5	High 5400 = Good	
01/25/2015	13:15:38	5495	0.0	8.34	1.5		
01/25/2015	13:17:08	5426	0.0	8.34	1.5		
01/25/2015	13:18:38	13	0.0	8.34	1.5		
01/25/2015	13:20:08	12	0.0	8.34	0.0		
01/25/2015	13:21:38	134	0.0	8.34	0.0		
01/25/2015	13:23:00	134	0.0	8.34	0.0	Start Pumping Spacer	

Well Ruhl 1G-32H 1G-32H			Field DJ		Job Start Jan/25/2015	Customer Encana	Job Number 2090809
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
01/25/2015	13:24:38	616	3.3	12.26	1.6		
01/25/2015	13:26:00	553	3.3	12.33	6.1	Pump 20 BBLS 12.5 PPG MudPush	
01/25/2015	13:26:08	779	4.2	12.35	6.6		
01/25/2015	13:27:00	700	4.7	12.44	10.7	Good Returns	
01/25/2015	13:27:38	677	4.8	12.47	13.7		
01/25/2015	13:29:08	644	4.8	12.52	20.8		
01/25/2015	13:30:38	450	3.3	12.54	27.0		
01/25/2015	13:32:08	372	3.3	12.54	31.9		
01/25/2015	13:33:38	387	3.3	13.50	1.6		
01/25/2015	13:33:53	398	3.3	13.48	2.4	End Spacer	
01/25/2015	13:33:54	393	3.3	13.48	2.5	Start Cement Slurry	
01/25/2015	13:33:55	415	3.3	13.48	2.5	Start Mixing Lead Slurry	
01/25/2015	13:35:08	366	3.3	13.48	6.5		
01/25/2015	13:36:38	324	3.3	13.50	11.5		
01/25/2015	13:38:08	274	3.3	13.53	16.4		
01/25/2015	13:39:38	253	3.3	13.53	21.3		
01/25/2015	13:41:08	271	3.3	13.53	26.3		
01/25/2015	13:42:38	202	3.3	13.55	31.2		
01/25/2015	13:43:50	460	4.7	13.55	36.5	Pump 130 BBLS 13.5 PPG Slurry	
01/25/2015	13:44:08	421	4.7	13.54	37.9		
01/25/2015	13:44:15	443	4.7	13.53	38.5	Take Dry Sample = 009991	
01/25/2015	13:44:32	441	4.7	13.53	39.8	Take Wet Sample = 13.5 PPG	
01/25/2015	13:44:43	407	4.7	13.53	40.7	Good Returns	
01/25/2015	13:45:38	812	6.1	13.53	45.5		
01/25/2015	13:47:08	764	6.0	13.53	54.5		
01/25/2015	13:48:38	639	6.1	13.53	63.6		
01/25/2015	13:50:08	594	6.1	13.56	72.7		
01/25/2015	13:51:38	554	6.1	13.55	81.8		
01/25/2015	13:53:08	496	6.1	13.53	90.9		
01/25/2015	13:54:38	478	6.1	13.52	100.0		
01/25/2015	13:56:08	473	6.1	13.57	109.1		
01/25/2015	13:57:38	309	4.7	13.55	118.0		
01/25/2015	13:59:08	334	4.7	13.56	125.1		
01/25/2015	13:59:49	324	4.4	13.55	128.4	End Lead Slurry	
01/25/2015	13:59:50	231	3.5	13.55	128.4	End Cement Slurry	
01/25/2015	13:59:51	94	3.5	13.55	128.5	Wash Pump To Pit	
01/25/2015	14:00:38	24	0.0	13.60	0.0		
01/25/2015	14:02:08	8	0.0	13.58	0.0		
01/25/2015	14:03:38	8	0.0	13.31	0.0		
01/25/2015	14:05:08	66	2.6	9.70	2.9		
01/25/2015	14:06:38	41	2.3	9.07	6.5		
01/25/2015	14:08:08	73	2.8	8.93	10.6		
01/25/2015	14:09:38	61	0.0	8.33	13.2		
01/25/2015	14:11:08	9	0.0	8.33	15.0		
01/25/2015	14:12:38	8	0.0	8.33	15.0		
01/25/2015	14:14:00	9	0.0	8.33	0.0	Drop Top Plug	
01/25/2015	14:14:08	8	0.0	8.33	0.0		
01/25/2015	14:15:38	189	6.1	8.34	5.4		
01/25/2015	14:17:08	975	6.1	8.33	14.6		
01/25/2015	14:18:38	799	6.0	8.33	23.7		
01/25/2015	14:20:08	13	0.0	8.33	29.2		
01/25/2015	14:21:34	919	6.0	8.33	34.4	Displace 171 BBLS H2O	
01/25/2015	14:21:38	947	6.1	8.33	34.8		
01/25/2015	14:23:08	1066	6.1	8.33	43.9		

Well			Field	Job Start	Customer	Job Number
Ruhl 1G-32H 1G-32H			DJ	Jan/25/2015	Encana	2090809
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
01/25/2015	14:26:08	1328	6.0	8.33	62.1	
01/25/2015	14:27:38	1481	6.0	8.33	71.2	
01/25/2015	14:29:08	1636	6.0	8.33	80.3	
01/25/2015	14:30:38	1791	6.0	8.33	89.3	
01/25/2015	14:32:08	1948	6.0	8.33	98.4	
01/25/2015	14:33:38	2118	6.0	8.33	107.4	
01/25/2015	14:35:08	2160	6.0	8.33	116.4	
01/25/2015	14:36:38	2215	6.0	8.33	125.4	
01/25/2015	14:38:08	2272	6.0	8.33	134.4	
01/25/2015	14:39:38	2323	6.0	8.33	143.4	
01/25/2015	14:41:08	2416	6.0	8.33	152.4	
01/25/2015	14:42:38	2209	4.7	8.33	161.2	
01/25/2015	14:44:08	2196	4.7	8.33	168.2	
01/25/2015	14:45:38	1988	3.3	8.33	174.0	
01/25/2015	14:46:00	2001	3.2	8.33	175.2	Bump Top Plug 2800 PSI
01/25/2015	14:47:08	2745	0.0	8.33	175.8	
01/25/2015	14:48:38	2792	0.0	8.33	175.8	
01/25/2015	14:50:08	2832	0.0	8.33	175.8	
01/25/2015	14:51:00	12	0.0	8.33	175.8	Floats Held
01/25/2015	14:51:38	13	0.0	8.33	175.8	
01/25/2015	14:53:08	11	0.0	8.33	175.8	
01/25/2015	14:54:38	11	0.0	8.33	175.8	
01/25/2015	14:56:08	11	0.0	8.33	175.8	
01/25/2015	14:57:38	11	0.0	8.33	175.8	
01/25/2015	14:59:08	11	0.0	8.33	175.8	
01/25/2015	15:00:00	11	0.0	8.33	175.8	End Job
01/25/2015	15:00:38	11	0.0	8.33	175.8	
01/25/2015	15:02:08	12	0.0	8.33	175.8	
01/25/2015	15:03:38	10	0.0	8.33	175.8	
01/25/2015	15:05:08	11	0.0	8.33	175.8	
01/25/2015	15:06:38	11	0.0	0.01	175.8	
01/25/2015	15:08:08	11	0.0	0.01	175.8	

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 4.7	N2	Mud	Maximum Rate 6.2	Total Slurry 356.2	Mud 0.0	Spacer 39.1	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 5519	Final 10	Average 765	Bump Plug to 2800	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 120.0 bbl		Displacement 190.9 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 Dennis Elrod			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:	Ensign 135
Well:	Ruhl 1G-32H
Service Line:	Cementing
Job Type:	4.5" Production

Service Order #:	
Date:	Jan/25/2015
Operating Time (hh:mm):	00:00
Client Rep:	Dennis Elrod
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: