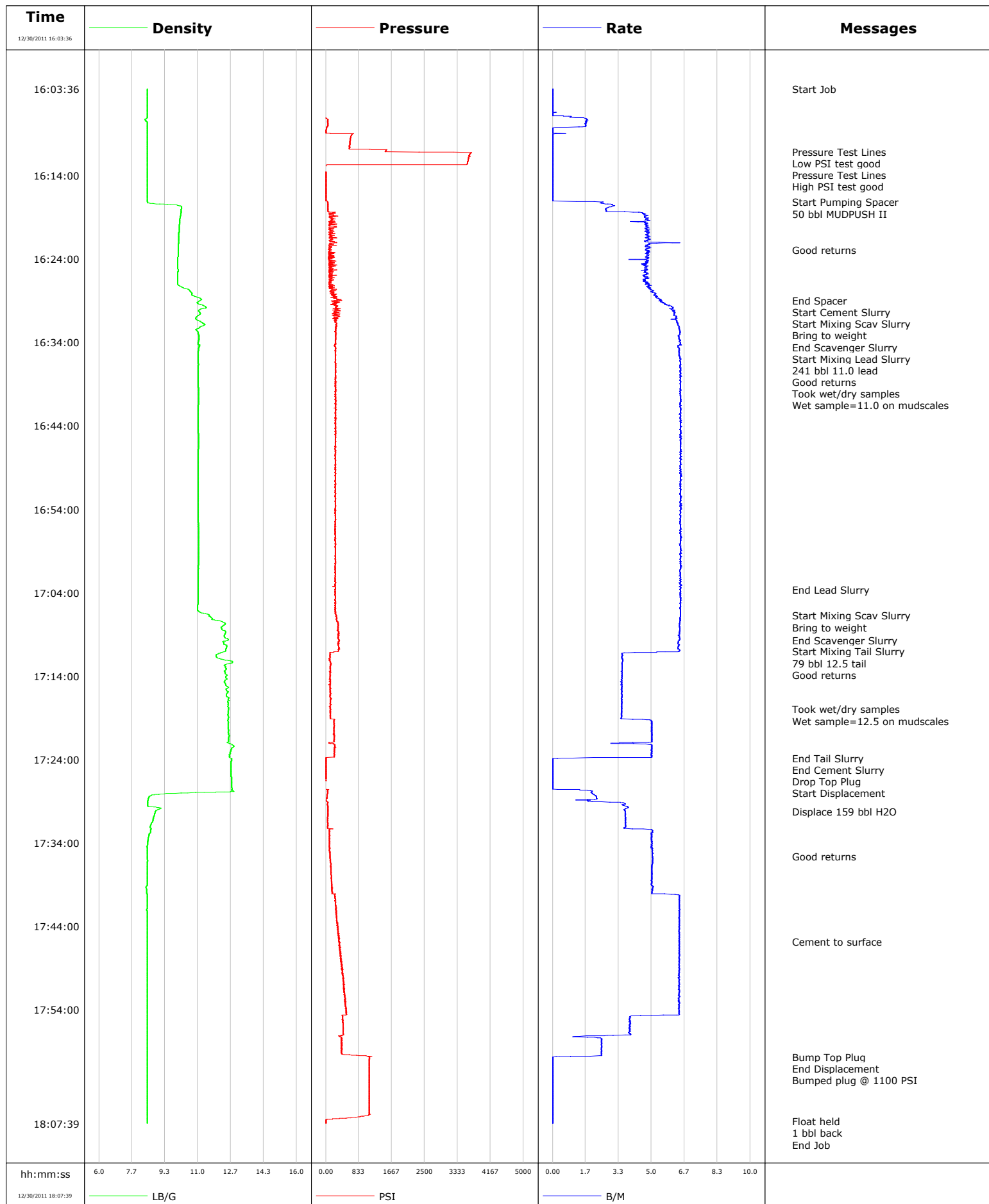


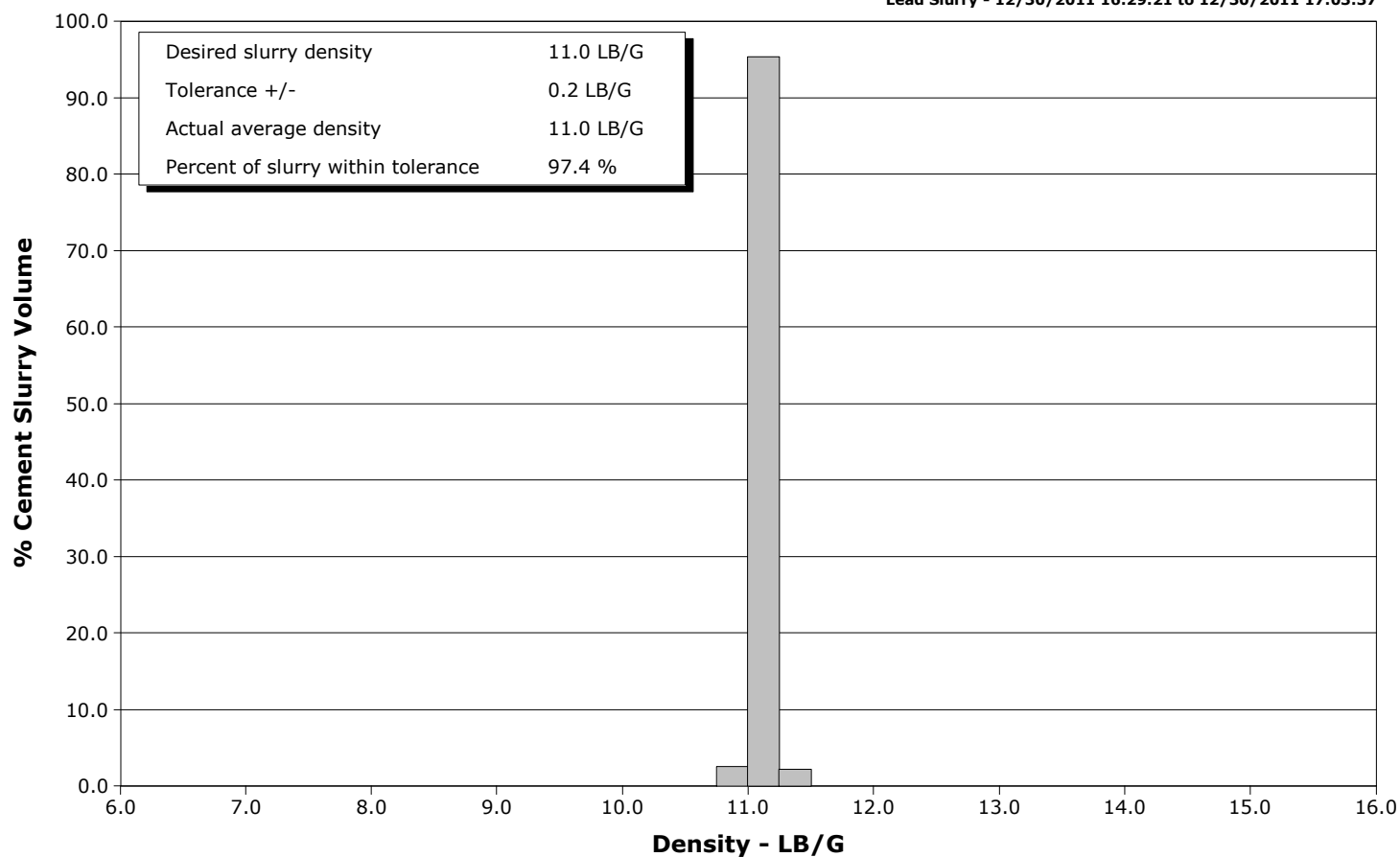
Well	DW 8616B-28	Client	Encana
Field	Double Willow	SIR No.	BQMF-00626
Engineer	Matt Fair/Charles Peavey	Job Type	9 5/8" Surface
Country	United States	Job Date	12-30-2011



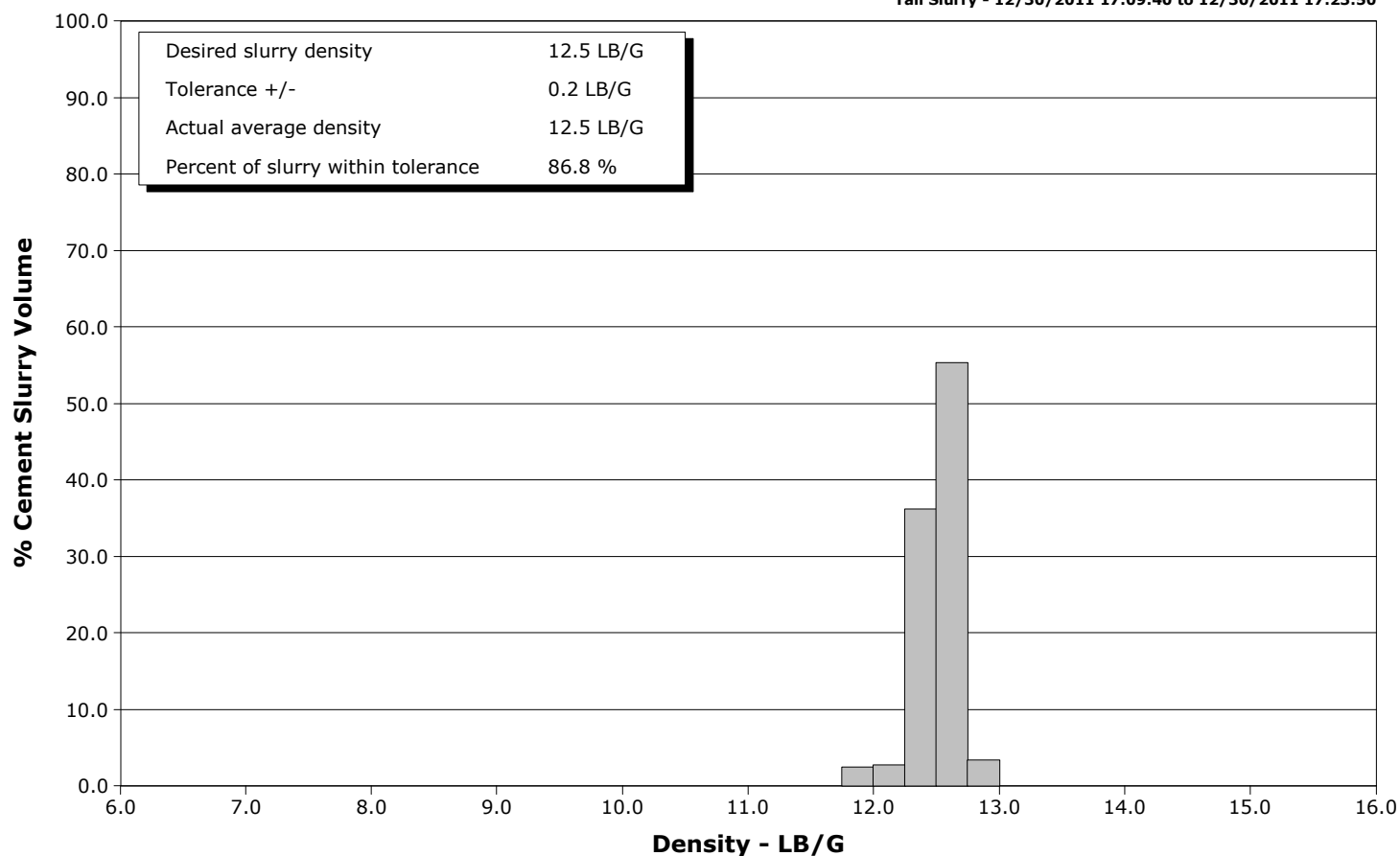
Well DW 8616B-28
Field Double Willow
Engineer Matt Fair/Charles Peavey
Country United States

Client Encana
SIR No. BQMF-00626
Job Type 9 5/8" Surface
Job Date 12-30-2011

Lead Slurry - 12/30/2011 16:29:21 to 12/30/2011 17:03:37



Tail Slurry - 12/30/2011 17:09:40 to 12/30/2011 17:23:50



				Customer Encana			Job Number BQMF-00626				
Well DW 8616B-28			Location (legal)			Schlumberger Location			Job Start Dec/30/2011		
Field Double Willow		Formation Name/Type Shale		Deviation deg		Bit Size 14.8 in		Well MD 2099.0 ft		Well TVD 2099.0 ft	
County Garfield		State/Province Colorado		BHP psi		BHST 110 degF		BHCT 91 degF		Pore Press. Gradient lb/gal	
Well Master 0631292217		API/UWI									
Rig Name Patterson 308		Drilled For Gas		Service Via Land		Casing/Liner					
						Depth, ft		Size, in		Weight, lb/ft	
										Grade	
										Thread	
Offshore Zone		Well Class New		Well Type Development		120.0		16.0		65.0	
						2099.0		9.6		36.0	
										N/A	
										K55	
										8RD	
Drilling Fluid Type Bentonite		Max. Density 9.00 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
										Weight, lb/ft	
										Grade	
										Thread	
Service Line Cementing		Job Type 9 5/8" Surface									
Max. Allowed Tub. Press 3520 psi		Max. Allowed Ann. Press 2030 psi		WH Connection Single Cement head		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
										No. of Shots	
										Total Interval ft	
						ft		ft			
						ft		ft		Diameter in	
						ft		ft			
						Treat Down Casing		Displacement 159.0 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 163.0 bbl		Annular Vol. 256.0 bbl	
										Openhole Vol. 420.0 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 1039 psi						Shoe Type Float			Squeeze Type		
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 2099.0 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 Dec/30/2011 14:00		Arrived on Location Dec/30/2011 14:00		Leave Location Dec/30/2011 19:00		Collar Type Float			Tail Pipe Depth ft		
						Collar Depth 2053.0 ft			Sqz. Total Vol. bbl		
Date	Time 24-hr clock	CPF1_DENSITY LB/G	CPF1_PRESS PSI	CPF1_TTL_RATE B/M	Message						
12/30/2011	16:03:36	8.44	-1	0.0	Started Acquisition						
12/30/2011	16:03:38	8.44	-1	0.0	Start Job						
12/30/2011	16:05:16	8.44	-3	0.0							
12/30/2011	16:06:56	8.44	-13	1.0							
12/30/2011	16:08:36	8.44	11	0.0							
12/30/2011	16:10:16	8.44	602	0.0							
12/30/2011	16:11:08	8.44	1497	0.0	Pressure Test Lines						
12/30/2011	16:11:09	8.44	1497	0.0	Low PSI test good						
12/30/2011	16:11:56	8.44	3607	0.0							
12/30/2011	16:12:10	8.44	3597	0.0	Pressure Test Lines						
12/30/2011	16:12:11	8.44	3596	0.0	High PSI test good						
12/30/2011	16:13:36	8.44	8	0.0							
12/30/2011	16:15:16	8.44	5	0.0							
12/30/2011	16:16:56	8.43	3	0.0							
12/30/2011	16:17:12	8.46	44	2.5	Start Pumping Spacer						
12/30/2011	16:17:15	8.46	49	2.5	50 bbl MUDPUSH II						
12/30/2011	16:18:36	10.13	121	4.6							
12/30/2011	16:20:16	10.06	86	4.8							
12/30/2011	16:21:56	10.02	103	4.7							
12/30/2011	16:22:52	10.01	71	4.7	Good returns						
12/30/2011	16:23:36	10.00	219	4.8							

Well DW 8616B-28			Field Double Willow	Job Start Dec/30/2011	Customer Encana	Job Number BQMF-00626
Date	Time 24-hr clock	CPF1_DENSITY LB/G	CPF1_PRESS PSI	CPF1_TTL_RATE B/M	Message	
12/30/2011	16:26:56	9.99	97	4.9		
12/30/2011	16:28:36	11.01	133	5.2		
12/30/2011	16:29:00	11.12	211	5.5	End Spacer	
12/30/2011	16:29:02	11.08	141	5.4	Start Cement Slurry	
12/30/2011	16:29:03	11.08	304	5.4	Start Mixing Scav Slurry	
12/30/2011	16:29:20	11.00	274	5.7	End Scavenger Slurry	
12/30/2011	16:29:21	11.02	240	5.7	Start Mixing Lead Slurry	
12/30/2011	16:29:22	11.02	183	5.7	241 bbl 11.0 lead	
12/30/2011	16:30:15	11.05	231	6.1	Good returns	
12/30/2011	16:30:16	11.05	217	6.1		
12/30/2011	16:31:56	11.34	259	6.3		
12/30/2011	16:32:13	11.08	251	6.4	Took wet/dry samples	
12/30/2011	16:32:14	11.08	251	6.4	Wet sample=11.0 on mudscales	
12/30/2011	16:33:36	11.06	247	6.4		
12/30/2011	16:35:16	11.02	243	6.4		
12/30/2011	16:36:56	11.02	251	6.4		
12/30/2011	16:38:36	11.01	240	6.5		
12/30/2011	16:40:16	11.04	231	6.5		
12/30/2011	16:41:56	11.02	236	6.5		
12/30/2011	16:43:36	11.01	245	6.5		
12/30/2011	16:45:16	11.03	244	6.5		
12/30/2011	16:46:56	11.02	243	6.5		
12/30/2011	16:48:36	11.02	236	6.5		
12/30/2011	16:50:16	11.02	237	6.5		
12/30/2011	16:51:56	11.02	256	6.5		
12/30/2011	16:53:36	11.02	259	6.5		
12/30/2011	16:55:16	11.02	237	6.5		
12/30/2011	16:56:56	11.03	244	6.5		
12/30/2011	16:58:36	11.04	251	6.5		
12/30/2011	17:00:16	11.03	249	6.5		
12/30/2011	17:01:56	11.02	252	6.5		
12/30/2011	17:03:36	11.01	245	6.4		
12/30/2011	17:03:37	11.01	227	6.4	End Lead Slurry	
12/30/2011	17:05:16	11.00	249	6.5		
12/30/2011	17:06:44	11.59	262	6.5	Start Mixing Scav Slurry	
12/30/2011	17:06:56	11.66	264	6.5	Bring to weight	
12/30/2011	17:08:36	12.37	319	6.4		
12/30/2011	17:09:39	12.53	327	6.4	End Scavenger Slurry	
12/30/2011	17:09:40	12.54	341	6.4	Start Mixing Tail Slurry	
12/30/2011	17:09:42	12.54	332	6.4	79 bbl 12.5 tail	
12/30/2011	17:10:09	12.31	315	6.3	Good returns	
12/30/2011	17:10:16	12.42	311	6.4		
12/30/2011	17:11:56	12.12	84	3.5		
12/30/2011	17:13:36	12.37	106	3.5		
12/30/2011	17:15:16	12.50	113	3.5		
12/30/2011	17:16:56	12.59	112	3.5		
12/30/2011	17:18:00	12.55	125	3.5	Took wet/dry samples	
12/30/2011	17:18:01	12.55	125	3.5	Wet sample=12.5 on mudscales	
12/30/2011	17:18:36	12.52	119	3.5		
12/30/2011	17:20:16	12.54	201	5.0		
12/30/2011	17:21:56	12.51	201	5.0		
12/30/2011	17:23:36	12.62	212	5.0		
12/30/2011	17:23:50	12.66	7	1.0	End Tail Slurry	
12/30/2011	17:23:51	12.66	9	1.0	End Cement Slurry	

Well			Field	Job Start	Customer	Job Number
DW 8616B-28			Double Willow	Dec/30/2011	Encana	BQMF-00626
Date	Time 24-hr clock	CPF1_DENSITY LB/G	CPF1_PRESS PSI	CPF1_TTL_RATE B/M	Message	
12/30/2011	17:24:59	12.68	7	0.0	Start Displacement	
12/30/2011	17:25:16	12.68	7	0.0		
12/30/2011	17:26:56	12.70	-2	0.0		
12/30/2011	17:28:36	8.52	27	2.2		
12/30/2011	17:30:14	8.85	51	3.7	Displace 159 bbl H2O	
12/30/2011	17:30:16	8.84	53	3.7		
12/30/2011	17:31:56	8.61	50	3.7		
12/30/2011	17:33:36	8.48	92	5.0		
12/30/2011	17:35:16	8.43	104	5.1		
12/30/2011	17:35:39	8.43	106	5.1	Good returns	
12/30/2011	17:36:56	8.45	128	5.0		
12/30/2011	17:38:36	8.44	142	5.0		
12/30/2011	17:40:16	8.43	229	6.4		
12/30/2011	17:41:56	8.43	262	6.4		
12/30/2011	17:43:36	8.43	277	6.4		
12/30/2011	17:45:16	8.43	324	6.4		
12/30/2011	17:45:52	8.43	334	6.4	Cement to surface	
12/30/2011	17:46:56	8.43	371	6.4		
12/30/2011	17:48:36	8.43	413	6.4		
12/30/2011	17:50:16	8.43	427	6.4		
12/30/2011	17:51:56	8.43	462	6.4		
12/30/2011	17:53:36	8.43	522	6.4		
12/30/2011	17:55:16	8.43	415	3.9		
12/30/2011	17:56:56	8.43	442	3.9		
12/30/2011	17:58:36	8.43	390	2.5		
12/30/2011	17:59:41	8.43	1093	0.2	Bump Top Plug	
12/30/2011	17:59:42	8.43	1093	0.0	End Displacement	
12/30/2011	17:59:44	8.43	1104	0.0	Bumped plug @ 1100 PSI	
12/30/2011	18:00:16	8.43	1099	0.0		
12/30/2011	18:01:56	8.43	1096	0.0		
12/30/2011	18:03:36	8.44	1096	0.0		
12/30/2011	18:05:16	8.44	1098	0.0		
12/30/2011	18:06:56	8.44	738	0.0		
12/30/2011	18:07:23	8.44	4	0.0	Float held	
12/30/2011	18:07:29	8.44	5	0.0	1 bbl back	

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl				
Slurry 5.4	N2	Mud	Maximum Rate 6.5	Total Slurry 321.0	Mud 0.0	Spacer 50.9	N2		
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum 3683	Final 5	Average 321	Bump Plug to 1500	Breakdown	Type	Volume bbl	Density lb/gal		
Avg. N2 Percent %		Designed Slurry Volume 321.0 bbl	Displacement 158.5 bbl	Mix Water Temp 64 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 70.0 bbl		
					Washed Thru Perfs <input type="checkbox"/>		To ft		
Customer or Authorized Representative Ira Cox			Schlumberger Supervisor Matt Fair/Charles Peavey			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>		
						-	-		



Service Quality Evaluation

Client:	Encana
Field:	Double Willow
Rig:	Patterson 308
Well:	DW 8616B-28
Service Line:	Cementing
Job Type:	9 5/8" Surface

Service Order #:	
Date:	Dec/30/2011
Operating Time (hh:mm):	00:00
Client Rep:	Ira Cox
Schlumberger Engineer:	Matt Fair/Charles Peavey
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:
Client Signature:	Schlumberger Signature: