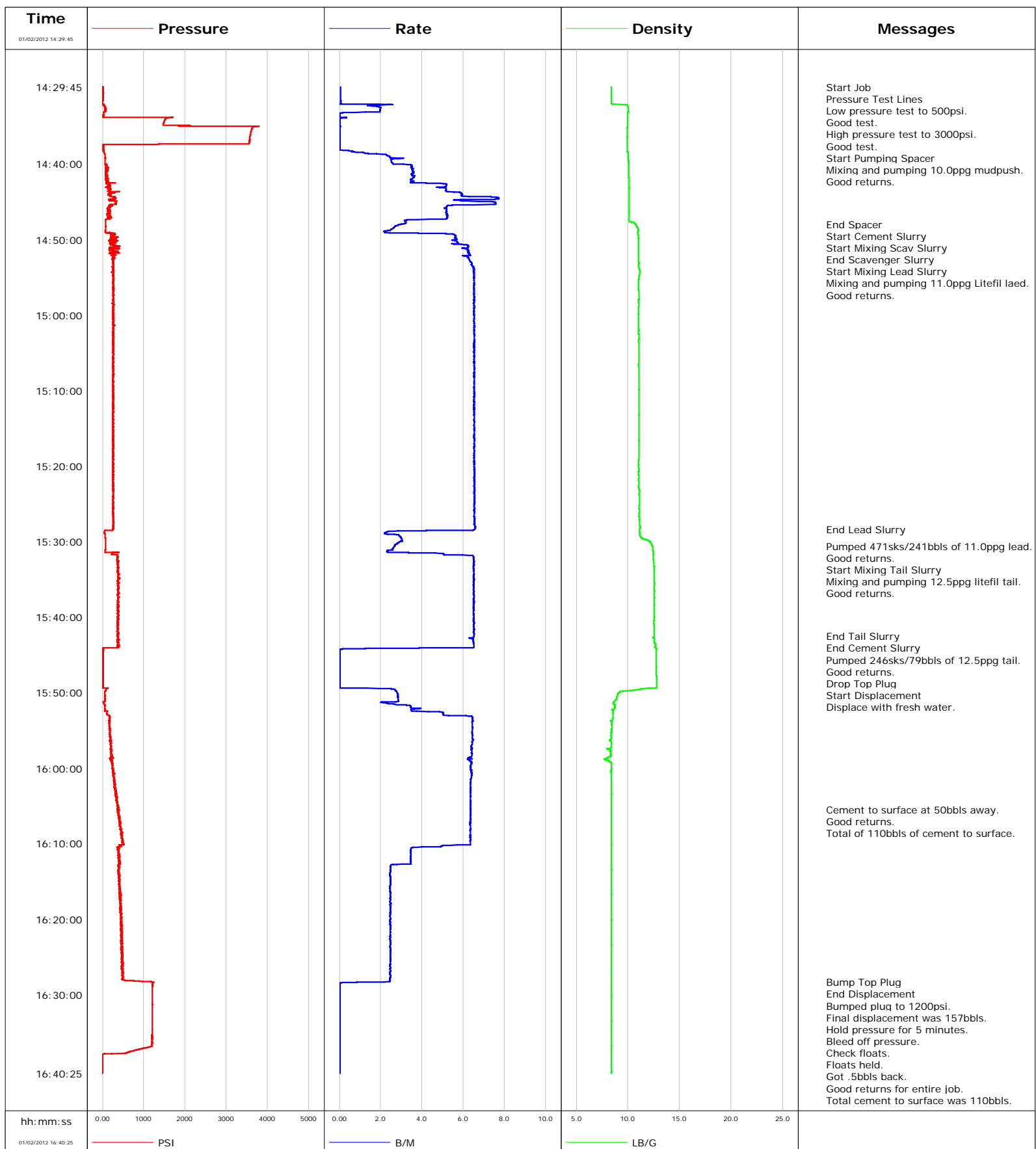


Well DW 8616C-28
Field DOUBLE WILLOW
Engineer Jeff Patterson
Country United States

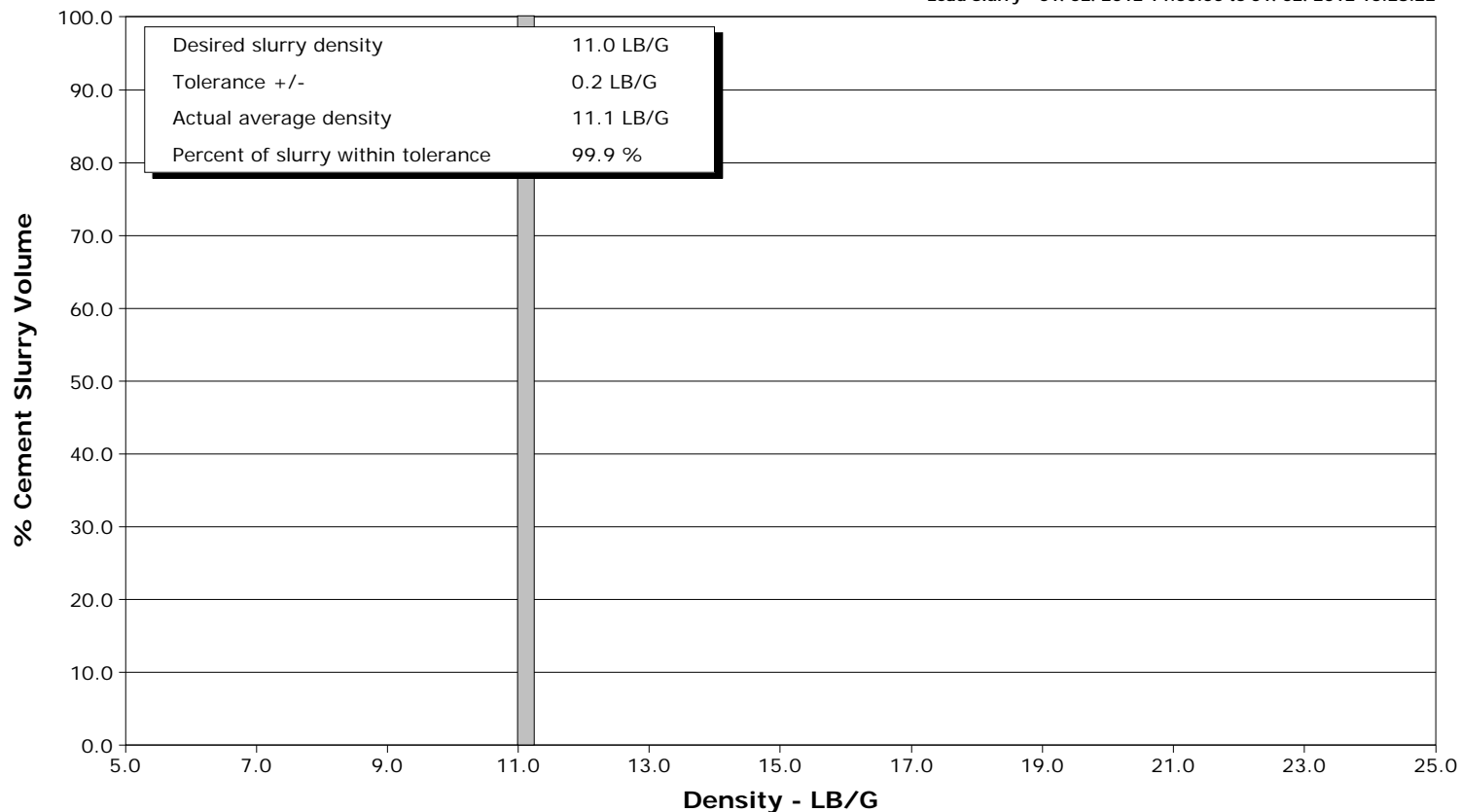
Client ENCANA
SIR No. BQMF-00625
Job Type 9 5/8" SURFACE
Job Date 01-02-2012



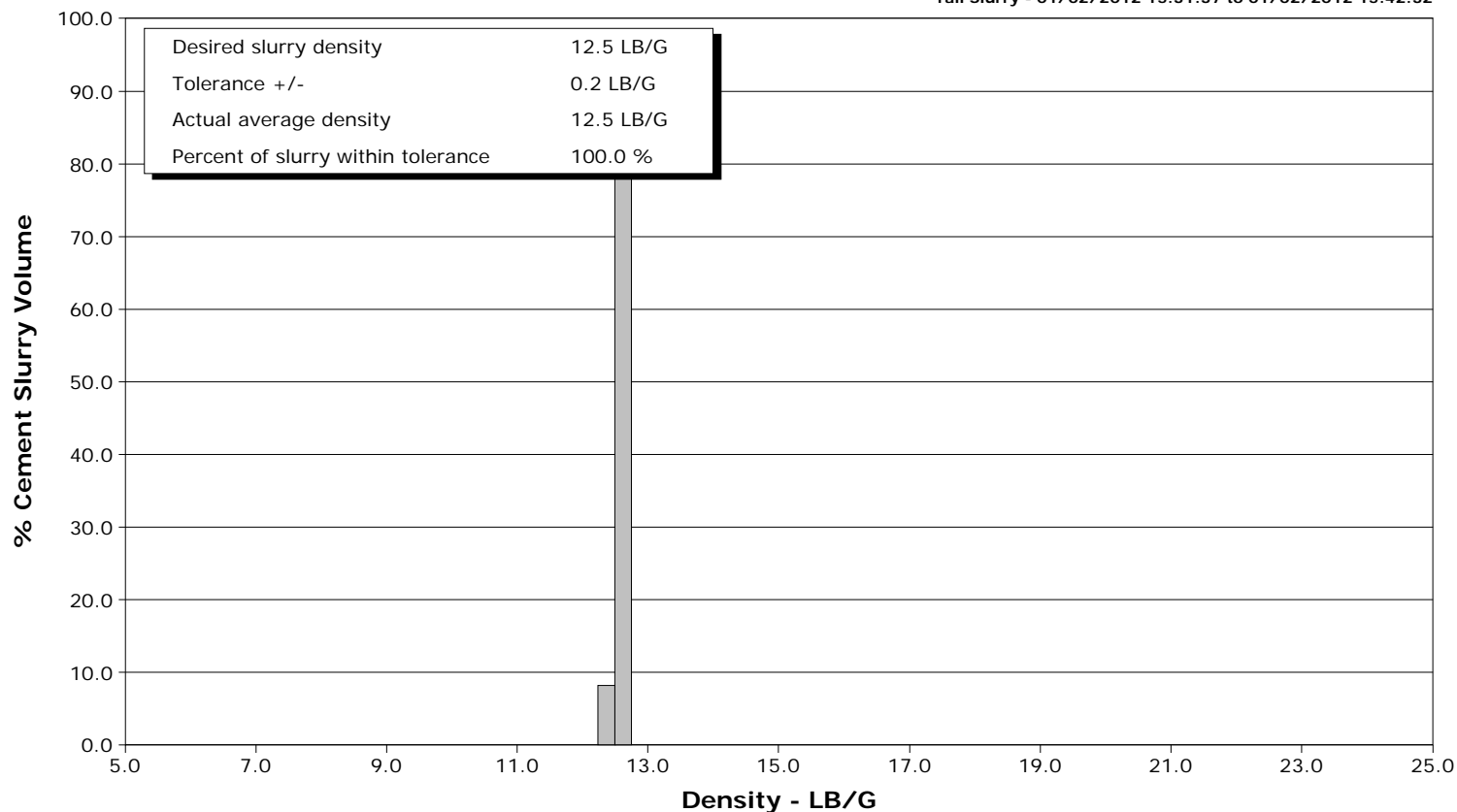
Well DW 8616C-28
Field DOUBLE WILLOW
Engineer Jeff Patterson
Country United States

Client ENCANA
SIR No. BQMF-00625
Job Type 9 5/8" SURFACE
Job Date 01-02-2012

Lead Slurry - 01/02/2012 14:50:00 to 01/02/2012 15:28:22



Tail Slurry - 01/02/2012 15:31:37 to 01/02/2012 15:42:32





Cementing Service Report

				Customer ENCANA		Job Number BQMF-00625		
Well DW 8616C-28 DW 8616C-28			Location (legal) P-28		Schlumberger Location Grand Junction, Colorado		Job Start Jan/02/2012	
Field DOUBLE WILLOW		Formation Name/Type SHALE		Deviation 0 deg	Bit Size 14.8 in	Well MD 2102.0 ft		Well TVD 2102.0 ft
County GARFIELD		State/Province Colorado		BHP	BHST 107 degF	BHCT 90 degF	Pore Press. Gradient	
Well Master 0631292215		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	2102.0	9.630	36.0	J55	8RD	
			0.0	0.000	0.0			
Drilling Fluid Type		Max. Density	Plastic Viscosity	Tubing/Drill Pipe				
				Depth,	Size,	Weight,	Grade	Thread
Service Line Cementing	Job Type 9 5/8" SURFACE							
Max. Allowed Tub. Press 3000 psi	Max. Allowed Ann. Press	WH Connection 9 5/8" CEMENT HEAD	Perforations/Open Hole					
			Top,	Bottom,		No. of Shots	Total Interval	
							Diameter	
			Treat Down Casing	Displacement 159.0 bbl	Packer Type	Packer Depth		
			Tubing Vol.	Casing Vol. 162.5 bbl	Annular Vol. 257.0 bbl	Openhole Vol. 421.0 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 1040 psi			Shoe Type Guide	Squeeze Type				
Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 2102.0 ft	Tool Type				
No. Centralizers	Top Plugs 1	Bottom Plugs	Stage Tool Type	Tool Depth				
Cement Head Type Single			Stage Tool Depth	Tail Pipe Size				
Job Scheduled For Jan/02/2012	Arrived on Location Jan/02/2012	Leave Location Jan/02/2012	Collar Type Float	Tail Pipe Depth				
			Collar Depth 2057.0 ft	Sqz. Total Vol.				
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
01/02/2012	13:51:58					Started Acquisition		
01/02/2012	14:29:45					Start Job		
01/02/2012	14:29:45	1	0.1	8.42	0.0			
01/02/2012	14:29:47					Pressure Test Lines		
01/02/2012	14:29:47	0	0.1	8.42	0.0			
01/02/2012	14:29:48					Low pressure test to 500psi.		
01/02/2012	14:29:48					Good test.		
01/02/2012	14:29:48	1	0.1	8.42	0.0			
01/02/2012	14:29:49					High pressure test to 3000psi.		
01/02/2012	14:29:49					Good test.		
01/02/2012	14:29:49	1	0.1	8.42	0.0			
01/02/2012	14:29:52					Start Pumping Spacer		
01/02/2012	14:29:52	1	0.1	8.42	0.0			
01/02/2012	14:29:54					Mixing and pumping 10.Oppg mudpush.		
01/02/2012	14:29:54					Good returns.		
01/02/2012	14:29:54	1	0.1	8.42	0.0			
01/02/2012	14:30:18	1	0.1	8.42	0.0			
01/02/2012	14:31:58	-1	0.1	8.41	0.1			
01/02/2012	14:33:38	20	0.0	9.96	2.3			
01/02/2012	14:35:18	3622	0.0	9.95	2.3			
01/02/2012	14:36:58	3567	0.0	9.95	2.3			

Well			Field		Job Start		Customer		Job Number	
DW 8616C-28 DW 8616C-28			DOUBLE WILLOW		Jan/02/2012		ENCANA		BQMF-00625	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
01/02/2012	14:40:18	85	3.5	10.08	7.1					
01/02/2012	14:41:58	144	3.5	10.11	13.0					
01/02/2012	14:43:38	163	5.2	10.14	20.7					
01/02/2012	14:45:18	328	7.6	10.13	31.7					
01/02/2012	14:46:58	170	5.2	10.12	40.6					
01/02/2012	14:47:57					End Spacer				
01/02/2012	14:47:57	75	3.0	10.72	44.5					
01/02/2012	14:48:04					Start Cement Slurry				
01/02/2012	14:48:04	74	2.9	10.81	44.8					
01/02/2012	14:48:09					Start Mixing Scav Slurry				
01/02/2012	14:48:09	75	2.8	10.84	45.1					
01/02/2012	14:48:38	76	2.5	11.00	46.3					
01/02/2012	14:49:54					End Scavenger Slurry				
01/02/2012	14:49:54	180	5.7	11.03	51.7					
01/02/2012	14:50:00					Start Mixing Lead Slurry				
01/02/2012	14:50:00	326	5.6	11.03	52.3					
01/02/2012	14:50:05					Mixing and pumping 11.0ppg Litefil laed.				
01/02/2012	14:50:05	213	5.5	11.03	52.7					
01/02/2012	14:50:06					Good returns.				
01/02/2012	14:50:06	211	5.6	11.03	52.8					
01/02/2012	14:50:18	188	5.7	11.03	53.9					
01/02/2012	14:51:58	274	6.3	11.03	64.1					
01/02/2012	14:53:38	255	6.5	11.04	74.7					
01/02/2012	14:55:18	266	6.5	11.04	85.5					
01/02/2012	14:56:58	270	6.5	11.05	96.4					
01/02/2012	14:58:38	263	6.5	11.06	107.3					
01/02/2012	15:00:18	259	6.5	11.04	118.1					
01/02/2012	15:01:58	273	6.5	11.05	129.0					
01/02/2012	15:03:38	251	6.5	11.05	139.9					
01/02/2012	15:05:18	268	6.5	11.07	150.8					
01/02/2012	15:06:58	247	6.5	11.05	161.7					
01/02/2012	15:08:38	257	6.5	11.06	172.6					
01/02/2012	15:10:18	264	6.5	11.07	183.5					
01/02/2012	15:11:58	260	6.5	11.07	194.3					
01/02/2012	15:13:38	247	6.5	11.06	205.2					
01/02/2012	15:15:18	270	6.5	11.05	216.1					
01/02/2012	15:16:58	256	6.5	11.06	227.0					
01/02/2012	15:18:38	252	6.5	11.06	237.9					
01/02/2012	15:20:18	257	6.5	11.05	248.8					
01/02/2012	15:21:58	250	6.5	11.05	259.7					
01/02/2012	15:23:38	257	6.5	11.09	270.6					
01/02/2012	15:25:18	263	6.5	11.09	281.5					
01/02/2012	15:26:58	256	6.6	11.10	292.4					
01/02/2012	15:28:22					End Lead Slurry				
01/02/2012	15:28:22	258	6.5	11.13	301.5					
01/02/2012	15:28:38	52	2.5	11.13	302.9					
01/02/2012	15:30:18	74	2.8	12.24	307.5					
01/02/2012	15:30:34					Pumped 471sks/241bbls of 11.0ppg lead.				
01/02/2012	15:30:34	76	2.7	12.35	308.3					
01/02/2012	15:30:35					Good returns.				
01/02/2012	15:30:35	76	2.7	12.36	308.3					
01/02/2012	15:31:37					Start Mixing Tail Slurry				
01/02/2012	15:31:37	240	5.0	12.48	311.2					
01/02/2012	15:31:41					Mixing and pumping 12.5ppg litefil tail.				

Well DW 8616C-28 DW 8616C-28			Field DOUBLE WILLOW	Job Start Jan/02/2012	Customer ENCANA	Job Number BQMF-00625
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
01/02/2012	15:31:41	248	5.0	12.48	311.5	
01/02/2012	15:31:58	365	6.5	12.43	313.2	
01/02/2012	15:33:38	382	6.5	12.53	324.1	
01/02/2012	15:35:18	374	6.5	12.56	334.9	
01/02/2012	15:36:58	363	6.5	12.54	345.8	
01/02/2012	15:38:38	377	6.5	12.55	356.6	
01/02/2012	15:40:18	383	6.5	12.54	367.5	
01/02/2012	15:41:58	371	6.5	12.56	378.3	
01/02/2012	15:42:32					End Tail Slurry
01/02/2012	15:42:32	368	6.5	12.56	382.0	
01/02/2012	15:42:41					End Cement Slurry
01/02/2012	15:42:41	372	6.5	12.42	383.0	
01/02/2012	15:42:45					Pumped 246sks/79bbls of 12.5ppg tail.
01/02/2012	15:42:45	377	6.3	12.47	383.4	
01/02/2012	15:42:46					Good returns.
01/02/2012	15:42:46	377	6.3	12.53	383.5	
01/02/2012	15:43:01					Drop Top Plug
01/02/2012	15:43:01	406	6.5	12.56	385.1	
01/02/2012	15:43:05					Start Displacement
01/02/2012	15:43:05	350	6.5	12.55	385.6	
01/02/2012	15:43:15					Displace with fresh water.
01/02/2012	15:43:15	369	6.5	12.57	386.7	
01/02/2012	15:43:38	375	6.5	12.68	389.1	
01/02/2012	15:45:18	3	0.0	12.72	392.3	
01/02/2012	15:46:58	3	0.0	12.74	392.3	
01/02/2012	15:48:38	3	0.0	12.79	392.3	
01/02/2012	15:50:18	51	2.8	8.99	394.7	
01/02/2012	15:51:58	59	3.4	8.74	399.4	
01/02/2012	15:53:38	165	6.5	8.50	407.8	
01/02/2012	15:55:18	176	6.5	8.37	418.6	
01/02/2012	15:56:58	201	6.4	8.41	429.3	
01/02/2012	15:58:38	196	6.3	8.08	440.0	
01/02/2012	16:00:18	242	6.4	8.39	450.6	
01/02/2012	16:01:58	288	6.3	8.39	461.2	
01/02/2012	16:03:38	338	6.4	8.39	471.8	
01/02/2012	16:05:18	379	6.4	8.39	482.4	
01/02/2012	16:05:28					Cement to surface at 50bbls away.
01/02/2012	16:05:28	360	6.3	8.39	483.5	
01/02/2012	16:05:29					Good returns.
01/02/2012	16:05:29	381	6.3	8.39	483.6	
01/02/2012	16:05:51					Total of 110bbls of cement to surface.
01/02/2012	16:05:51	373	6.3	8.39	485.9	
01/02/2012	16:06:58	396	6.4	8.39	493.0	
01/02/2012	16:08:38	475	6.4	8.39	503.6	
01/02/2012	16:10:18	430	5.0	8.39	514.0	
01/02/2012	16:11:58	391	3.4	8.39	520.0	
01/02/2012	16:13:38	404	2.5	8.39	524.9	
01/02/2012	16:15:18	422	2.5	8.39	529.0	
01/02/2012	16:16:58	415	2.5	8.39	533.1	
01/02/2012	16:18:38	424	2.5	8.39	537.2	
01/02/2012	16:20:18	468	2.5	8.39	541.3	
01/02/2012	16:21:58	447	2.5	8.39	545.5	
01/02/2012	16:23:38	484	2.5	8.39	549.6	
01/02/2012	16:25:18	485	2.5	8.39	553.7	

Well			Field		Job Start		Customer		Job Number	
DW 8616C-28 DW 8616C-28			DOUBLE WILLOW		Jan/02/2012		ENCANA		BQMF-00625	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G		Volume BBL	Message		
01/02/2012	16:28:22							Bump Top Plug		
01/02/2012	16:28:22							End Displacement		
01/02/2012	16:28:22	1202		0.8	8.39		561.2			
01/02/2012	16:28:23							Bumped plug to 1200psi.		
01/02/2012	16:28:23	1241		0.8	8.39		561.2			
01/02/2012	16:28:24							Final displacement was 157bbls.		
01/02/2012	16:28:24							Hold pressure for 5 minutes.		
01/02/2012	16:28:24							Bleed off pressure.		
01/02/2012	16:28:24	1241		0.4	8.39		561.2			
01/02/2012	16:28:25							Check floats.		
01/02/2012	16:28:25							Floats held.		
01/02/2012	16:28:25							Got .5bbls back.		
01/02/2012	16:28:25							Good returns for entire job.		
01/02/2012	16:28:25	1244		0.4	8.39		561.2			
01/02/2012	16:28:26							Total cement to surface was 110bbls.		
01/02/2012	16:28:26							Wait to pump out parassite line.		
01/02/2012	16:28:26	1244		0.2	8.39		561.2			
01/02/2012	16:28:38	1221		0.0	8.39		561.2			
01/02/2012	16:30:18	1207		0.0	8.39		561.2			
01/02/2012	16:33:38	1203		0.0	8.39		561.2			
01/02/2012	16:35:18	1203		0.0	8.39		561.2			
01/02/2012	16:36:58	1112		0.0	8.39		561.2			
01/02/2012	16:38:38	-5		0.0	8.39		561.2			
01/02/2012	16:40:18	-4		0.0	8.39		561.2			
01/02/2012	16:40:20							End Job		
01/02/2012	16:40:20	-4		0.0	8.39		561.2			

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 6.5	N2	Mud	Maximum Rate 8.0	Total Slurry 320.0	Mud	Spacer 50.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3000	Final 1200	Average 300	Bump Plug to 1200	Breakdown	Type	Volume	Density	
Avg. N2 Percent		Designed Slurry Volume 320.0 bbl	Displacement 159.0 bbl	Mix Water Temp 75 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 110.0 bbl	
					Washed Thru Perfs <input type="checkbox"/>		To	
Customer or Authorized Representative IRA COX			Schlumberger Supervisor Jeff Patterson		Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>	
					-		-	