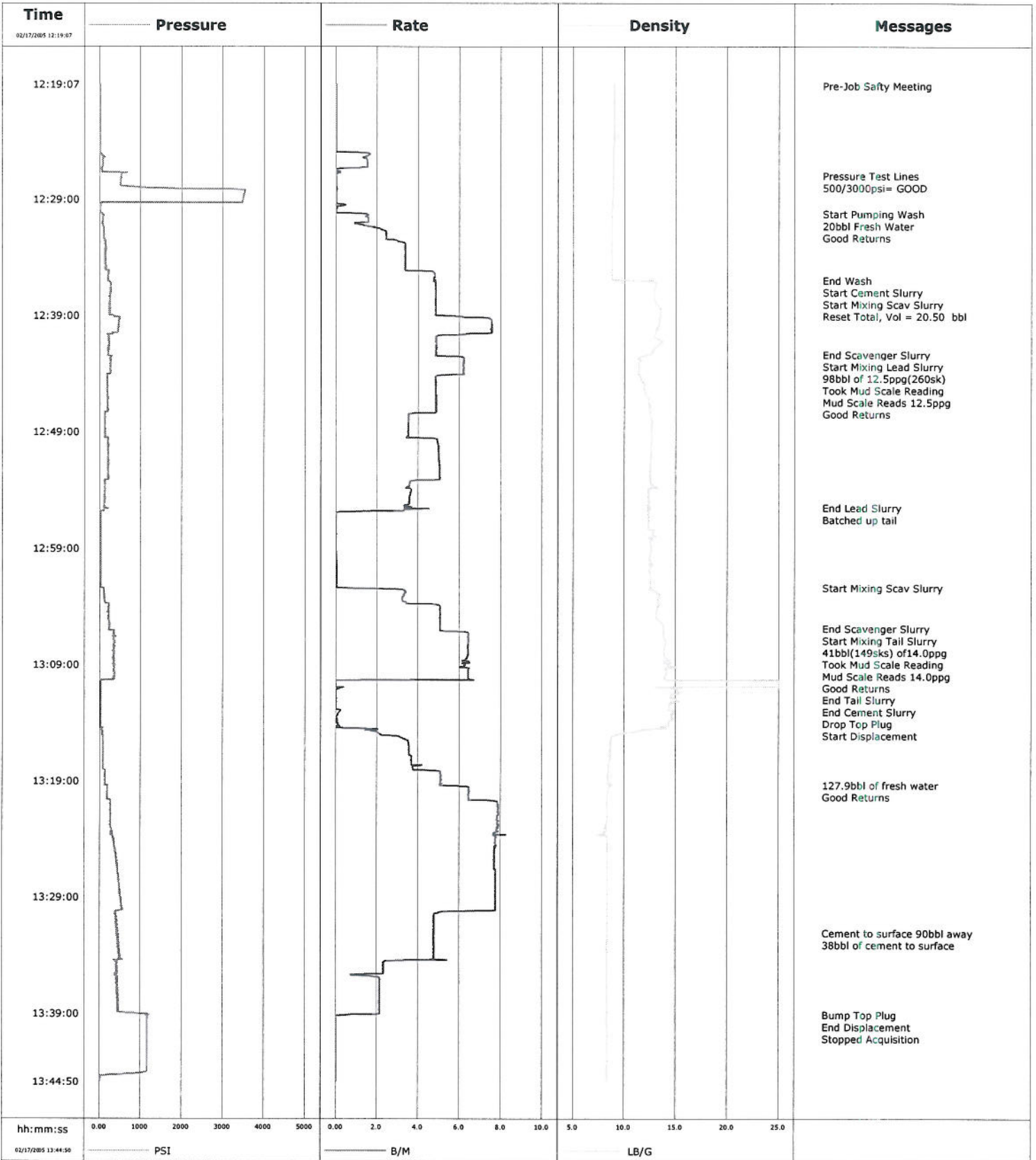
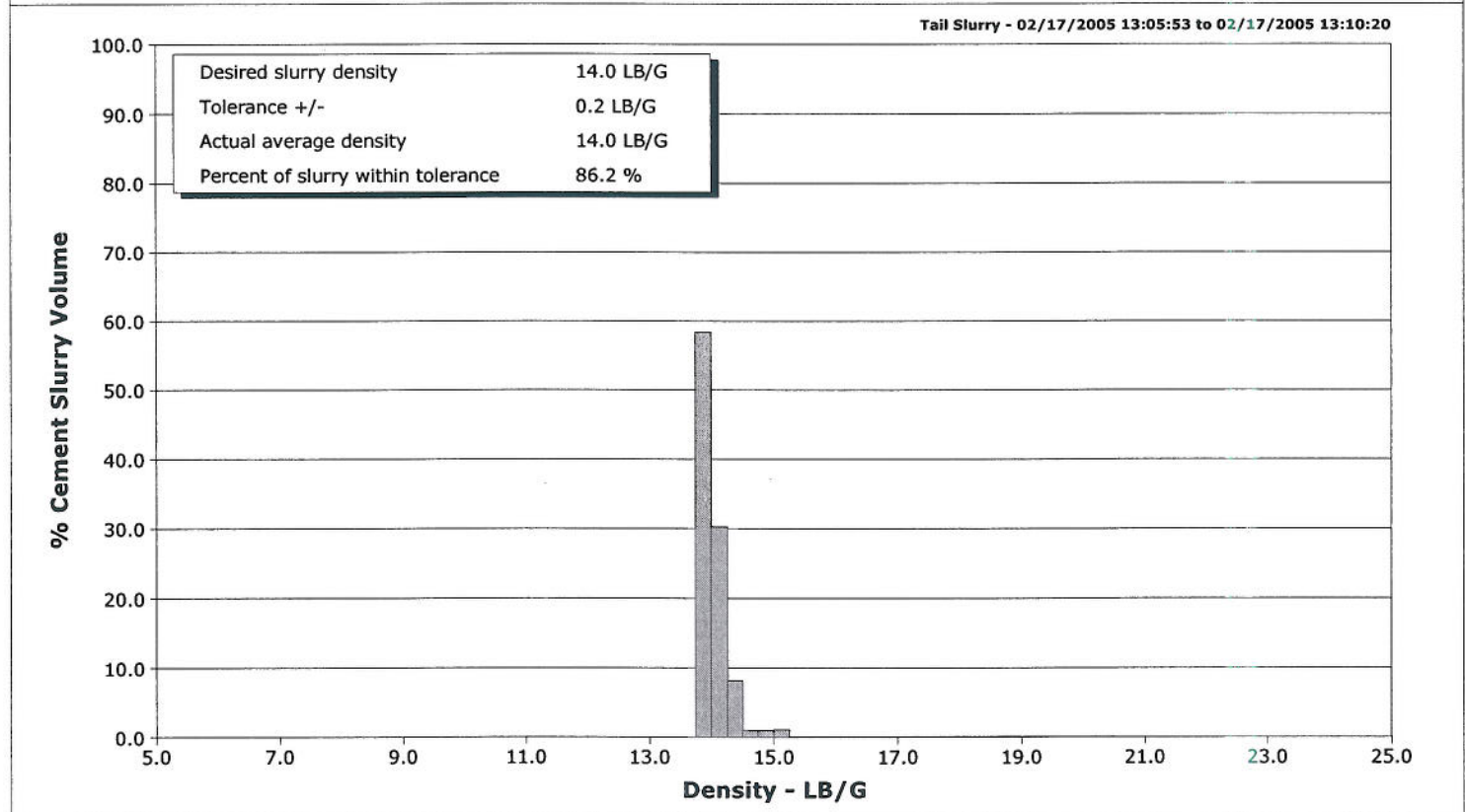
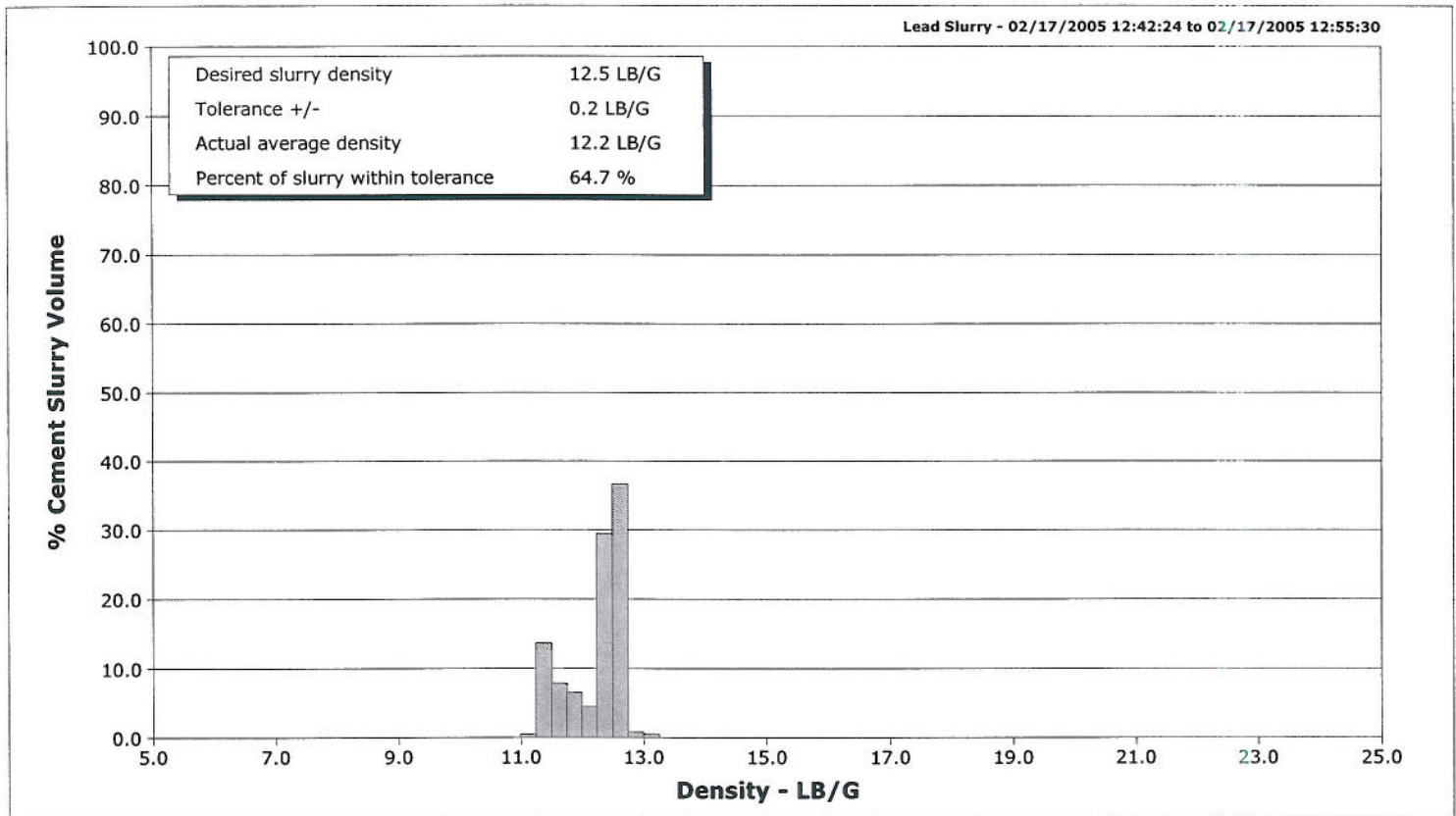


<b>Well</b>	WF13C-22	<b>Client</b>	ENCANA
<b>Field</b>	NORTH PARACHUTE	<b>SIR No.</b>	B2IJ-000105
<b>Engineer</b>	Dustin C Krueger	<b>Job Type</b>	1701ft 9 5/8 SURFACE
<b>Country</b>	United States	<b>Job Date</b>	2-2-2010



# Schlumberger Cementing Qa/Qc Density Report

<b>Well</b>	WF13C-22	<b>Client</b>	ENCANA
<b>Field</b>	NORTH PARACHUTE	<b>SIR No.</b>	B2IJ-000105
<b>Engineer</b>	Dustin C Krueger	<b>Job Type</b>	1701ft 9 5/8 SURFACE
<b>Country</b>	United States	<b>Job Date</b>	2-2-2010





# Cementing Service Report

Customer	ENCANA	Job Number	B2IJ-000105
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Well	WF13C-22 WF13C-22	Location (legal)	K22- 596	Schlumberger Location	Greand Junctin CO.	Job Start	Feb/02/2010
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Field	NORTH PARACHUTE	Formation Name/Type	Shale	Deviation	0 deg	Bit Size	12.3 in	Well MD	1720.0 ft	Well TVD	1701.0 ft
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County	GARFIELD	State/Province	Colorado	BHP	BHST	BHCT	Pore Press. Gradient
Well Master	0631155471	API/UWI			110 degF	88 degF	

Rig Name	PATTERSON 303	Drilled For	Gas	Service Via	Land	Casing/Liner				
Offshore Zone		Well Class	New	Well Type	Development	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread

Drilling Fluid Type	Spud Mud	Max. Density	9.30 lb/gal	Plastic Viscosity	13.000 cP	Depth,	Size,	Weight,	Grade	Thread
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Service Line	Cementing	Job Type	1701ft 9 5/8 SURFACE	Perforations/Open Hole						
Max. Allowed Tub. Press	3000 psi	Max. Allowed Ann. Press	1500 psi	WH Connection	Single Cement head	Top,	Bottom,	No. of Shots	Total Interval	

Service Instructions	Cement 1701ft of 9 5/8" Surface Casing 35% Excess 20bbbls Water 260skts 12.5ppg G (TOL @ surface) 149skts 14.0ppg G (TOT @ 1200ft) Displace with water									
Treat Down	Casing	Displacement	128.0 bbl	Packer Type		Packer Depth				
Tubing Vol.		Casing Vol.	128.0 bbl	Annular Vol.	105.0 bbl	Openhole Vol.	246.0 bbl			

Casing/Tubing Secured	<input type="checkbox"/>	1 Hole Vol. Circulated prior to Cement	<input type="checkbox"/>	Casing Tools	Squeeze Job
Lift Pressure	842 psi	Shoe Type	Guide	Squeeze Type	

Pipe Rotated	<input type="checkbox"/>	Pipe Reciprocated	<input type="checkbox"/>	Shoe Depth	1701.0 ft	Tool Type	
No. Centralizers	22	Top Plugs	1	Bottom Plugs	0	Stage Tool Type	

Cement Head Type	Single	Stage Tool Depth		Tail Pipe Size					
Job Scheduled For	Feb/02/2010 18:00	Arrived on Location	Feb/02/2010 18:00	Leave Location	Feb/02/2010 21:00	Collar Type	Float	Tail Pipe Depth	

Collar Depth	1654.0 ft	Sqz. Total Vol.	
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Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
02/17/2005	11:41:09					Started Acquisition
02/17/2005	12:19:07	11	0.0	9.04	0.0	
02/17/2005	12:19:14					Pre-Job Safty Meeting
02/17/2005	12:19:14	11	0.0	9.04	0.0	
02/17/2005	12:21:09	11	0.0	9.01	0.0	
02/17/2005	12:26:09	75	1.5	8.94	1.8	
02/17/2005	12:26:57					Pressure Test Lines
02/17/2005	12:26:57	532	0.0	8.93	2.1	
02/17/2005	12:27:03					500/3000psi= GOOD
02/17/2005	12:27:03	528	0.0	8.93	2.1	
02/17/2005	12:30:14					Start Pumping Wash
02/17/2005	12:30:14	45	1.0	8.79	2.2	
02/17/2005	12:30:20					20bbl Fresh Water
02/17/2005	12:30:20	69	1.6	8.79	2.3	
02/17/2005	12:30:22					Good Returns
02/17/2005	12:30:22	82	1.6	8.79	2.4	
02/17/2005	12:31:09	72	1.1	8.78	3.5	
02/17/2005	12:35:57					End Wash
02/17/2005	12:35:57	205	4.8	9.10	19.1	
02/17/2005	12:35:59					Start Cement Slurry
02/17/2005	12:35:59					Start Mixing Scav Slurry

Well		Field		Job Start		Customer		Job Number	
WF13C-22 WF13C-22		NORTH PARACHUTE		Feb/02/2010		ENCANA		B211-000105	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
02/17/2005	12:36:09	244	4.8	13.03	20.0				
02/17/2005	12:36:15					Reset Total, Vol = 20.50 bbl			
02/17/2005	12:36:15	267	4.8	13.08	20.5				
02/17/2005	12:41:09	221	4.9	13.49	48.3				
02/17/2005	12:42:21					End Scavenger Slurry			
02/17/2005	12:42:21	206	4.9	12.45	54.1				
02/17/2005	12:42:24					Start Mixing Lead Slurry			
02/17/2005	12:42:24	199	4.9	12.12	54.3				
02/17/2005	12:42:27					98bbl of 12.5ppg(260sk)			
02/17/2005	12:42:27	199	4.8	11.99	54.6				
02/17/2005	12:42:29					Took Mud Scale Reading			
02/17/2005	12:42:29					Mud Scale Reads 12.5ppg			
02/17/2005	12:42:29	294	5.4	11.75	54.7				
02/17/2005	12:42:30					Good Returns			
02/17/2005	12:42:30	286	5.8	11.67	54.8				
02/17/2005	12:46:09	205	4.9	12.33	74.7				
02/17/2005	12:51:09	202	5.0	12.57	96.2				
02/17/2005	12:55:30					End Lead Slurry			
02/17/2005	12:55:30	109	3.4	12.34	114.6				
02/17/2005	12:55:33					Batched up tail			
02/17/2005	12:55:33	212	4.1	12.33	114.8				
02/17/2005	12:56:09	28	0.0	12.37	115.7				
02/17/2005	13:01:09	25	0.1	12.48	115.8				
02/17/2005	13:02:21					Start Mixing Scav Slurry			
02/17/2005	13:02:21	25	0.1	12.57	115.9				
02/17/2005	13:05:51					End Scavenger Slurry			
02/17/2005	13:05:51	231	5.1	13.77	130.8				
02/17/2005	13:05:53					Start Mixing Tail Slurry			
02/17/2005	13:05:53	244	5.1	13.78	130.9				
02/17/2005	13:06:09	339	6.1	13.82	132.3				
02/17/2005	13:07:24					41bbl(149sks) of14.0ppg			
02/17/2005	13:07:24					Took Mud Scale Reading			
02/17/2005	13:07:24	342	6.4	13.91	140.3				
02/17/2005	13:07:25					Mud Scale Reads 14.0ppg			
02/17/2005	13:07:25					Good Returns			
02/17/2005	13:07:25	336	6.4	13.92	140.5				
02/17/2005	13:10:20					End Tail Slurry			
02/17/2005	13:10:20	102	0.0	20.29	159.0				
02/17/2005	13:10:22					End Cement Slurry			
02/17/2005	13:10:22	31	0.0	25.00	159.0				
02/17/2005	13:10:28					Drop Top Plug			
02/17/2005	13:10:28	29	0.0	25.00	159.0				
02/17/2005	13:10:31					Start Displacement			
02/17/2005	13:10:31	29	0.0	25.00	159.0				
02/17/2005	13:11:09	28	0.0	15.13	159.0				
02/17/2005	13:16:09	86	3.5	8.64	163.9				
02/17/2005	13:19:22					127.9bbl of fresh water			
02/17/2005	13:19:22	135	5.1	8.66	177.5				
02/17/2005	13:19:23					Good Returns			
02/17/2005	13:19:23	132	5.1	8.64	177.6				
02/17/2005	13:21:09	268	7.9	8.33	189.5				
02/17/2005	13:26:09	429	7.7	8.35	228.4				
02/17/2005	13:31:09	398	4.8	8.34	264.4				
02/17/2005	13:32:06					Cement to surface 90bbl away			

Well		Field		Job Start		Customer		Job Number	
WF13C-22 WF13C-22		NORTH PARACHUTE		Feb/02/2010		ENCANA		B2IJ-000105	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
02/17/2005	13:32:08					38bbl of cement to surface			
02/17/2005	13:32:08	437	4.8	8.34	269.1				
02/17/2005	13:36:09	428	2.1	8.33	283.8				
02/17/2005	13:39:07					Bump Top Plug			
02/17/2005	13:39:07	1152	2.0	8.33	290.1				
02/17/2005	13:39:11					End Displacement			
02/17/2005	13:39:11	1143	0.2	8.33	290.2				
02/17/2005	13:41:09	1160	0.0	8.33	290.2				

### Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
4.2		0.0	5.6	139.0	0.0	20.0	
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
3000	560	300	1160		FreshWater	333.0 bbl	8.34 lb/gal
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume	38.0 bbl
	1390.0 bbl	128.0 bbl	75 degF	Washed Thru Perfs	<input type="checkbox"/>	To	
Customer or Authorized Representative	Schlumberger Supervisor			Circulation Lost	<input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>
Steve Record	Dustin C Krueger			-		-	