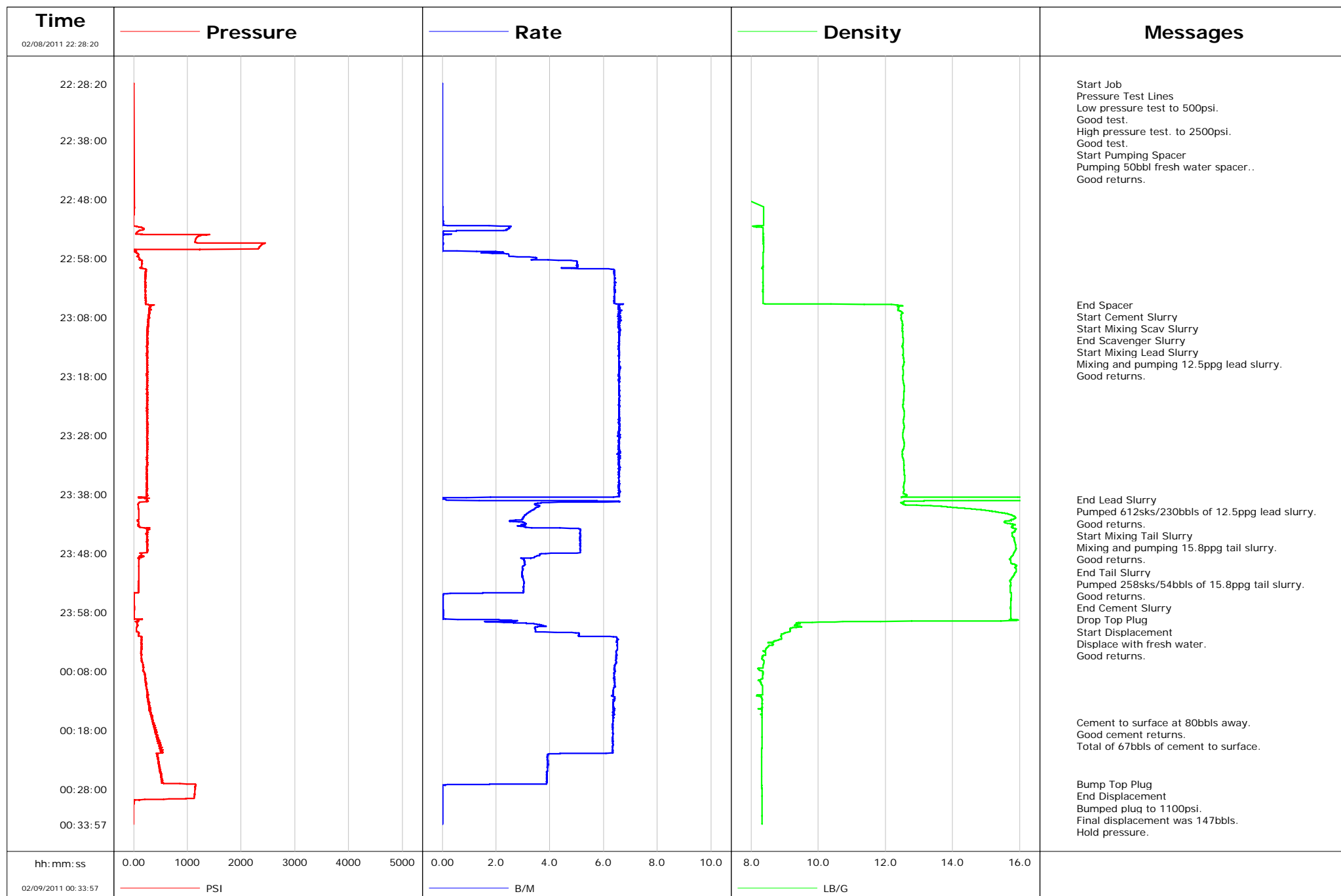
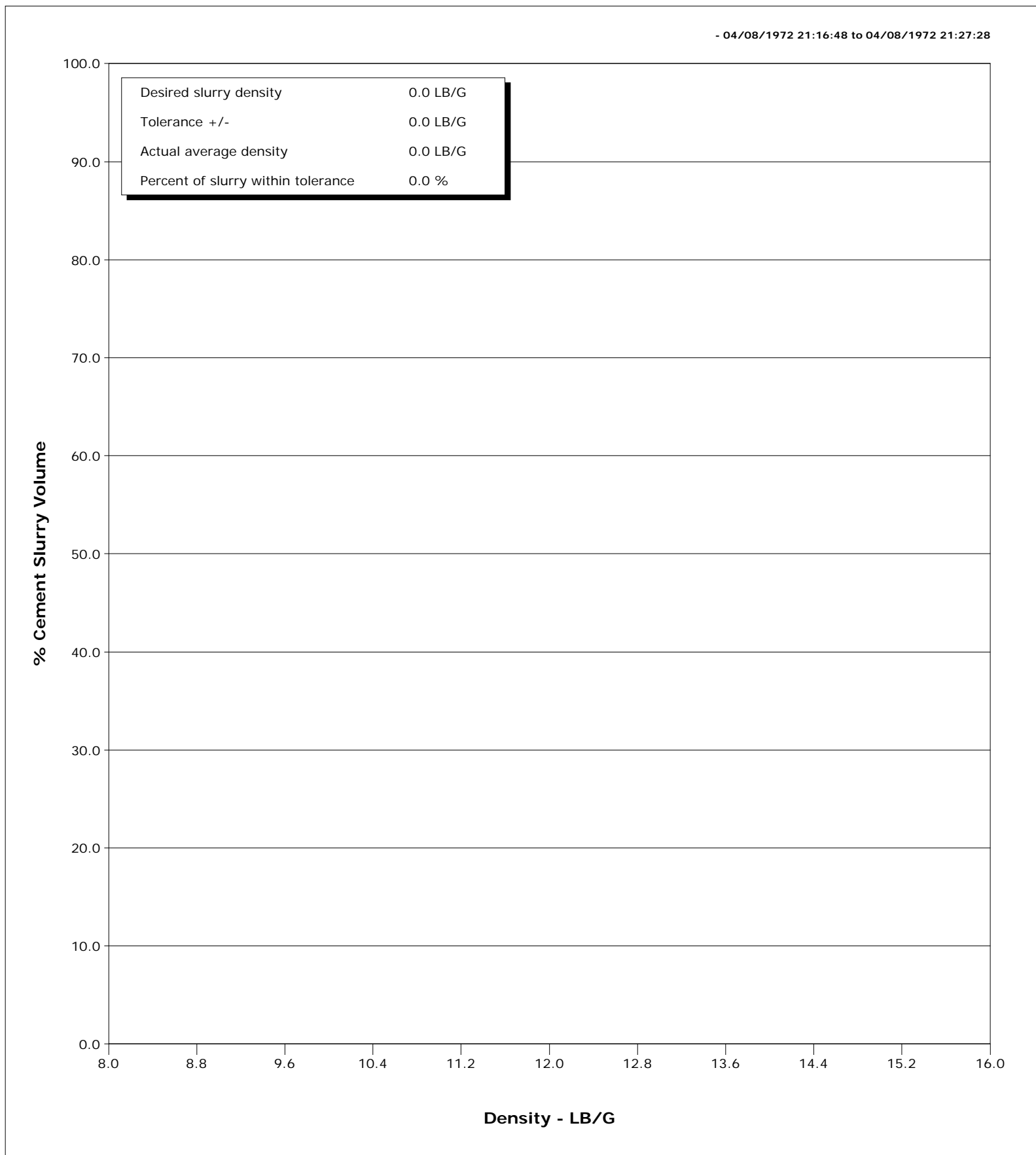


Well Keinath Federal 9-12H
Field Wallace Creek
Engineer JEFF PATTERSON
Country United States

Client ENCANA
SIR No. BJ90-00274
Job Type 10 3/4" SURFACE
Job Date 02-08-2011



Well	Keinath Federal 9-12H	Client	ENCANA
Field	Wallace Creek	SIR No.	BJ90-00274
Engineer	JEFF PATTERSON	Job Type	10 3/4" SURFACE
Country	United States	Job Date	02-08-2011



Cementing Service Report

				Customer ENCANA				Job Number BJ90-00274			
Well Keinath Federal 9-12H Keinath Federal 9-12H			Location (legal) C100U			Schlumberger Location GRABD JUNCTION,COLORADO			Job Start Feb/08/2011		
Field Wallace Creek		Formation Name/Type SHALE		Deviation 0 deg		Bit Size 14.8 in		Well MD 1545.0 ft		Well TVD 1545.0 ft	
County GARFIELD		State/Province Colorado		BHP psi		BHST 100 degF		BHCT 85 degF		Pore Press. Gradient lb/gal	
Well Master 0631233200		API/UWI 0577101360000									
Rig Name NABORS M-11		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		1545.0		10.8		40.5	
						0.0		0.0		0.0	
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
										Weight, lb/ft	
										Grade	
										Thread	
Service Line Cementing		Job Type 10 3/4" SURFACE									
Max. Allowed Tub. Press 2500 psi		Max. Allowed Ann. Press psi		WH Connection 10 3/4" CEMENTHEAD		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
										No. of Shots	
										Total Interval ft	
						ft		ft			
						ft		ft			
										Diameter in	
						Treat Down Casing		Displacement 147.2 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 151.6 bbl		Annular Vol. 159.0 bbl	
										Openhole Vol. 316.0 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 689 psi				Shoe Type Guide				Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1545.0 ft				Tool Type			
No. Centralizers 5		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 Feb/08/2011		Arrived on Location Feb/08/2011		Leave Location Feb/08/2011		Collar Type Float				Tail Pipe Depth ft	
						Collar Depth 1500.0 ft				Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message					
02/08/2011	22:28:20	0	0.0	0.00	0.0	Started Acquisition					
02/08/2011	22:28:21	0	0.0	0.00	0.0	Start Job					
02/08/2011	22:28:22	0	0.0	0.00	0.0	Pressure Test Lines					
02/08/2011	22:50:00	4	0.0	8.37	0.0						
02/08/2011	22:51:40	-2	0.0	8.37	0.0						
02/08/2011	22:53:20	100	1.6	8.37	2.1						
02/08/2011	22:55:00	1145	0.0	8.37	2.2						
02/08/2011	22:56:40	17	0.0	8.37	2.2						
02/08/2011	22:58:20	151	4.3	8.37	6.3						
02/08/2011	23:00:00	233	6.4	8.36	14.8						
02/08/2011	23:01:40	214	6.4	8.36	25.5						
02/08/2011	23:03:20	221	6.4	8.36	36.1						
02/08/2011	23:05:00	223	6.4	8.36	46.8						
02/08/2011	23:05:50	237	6.7	11.90	52.2	End Spacer					
02/08/2011	23:05:52	235	6.6	12.18	52.4	Start Cement Slurry					
02/08/2011	23:05:53	276	6.6	12.18	52.5	Start Mixing Scav Slurry					
02/08/2011	23:06:40	302	6.6	12.38	57.6						
02/08/2011	23:07:01	287	6.6	12.45	59.9	End Scavenger Slurry					
02/08/2011	23:07:02	287	6.6	12.46	60.0	Start Mixing Lead Slurry					
02/08/2011	23:07:04	296	6.6	12.47	60.3	Mixing and pumping 12.5ppg lead slurry.					
02/08/2011	23:08:20	281	6.5	12.47	68.6						

Well Keinath Federal 9-12H Keinath Federal 9-12H			Field Wallace Creek		Job Start Feb/08/2011		Customer ENCANA		Job Number BJ90-00274	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
02/08/2011	23:11:40	257	6.6	12.53	90.5					
02/08/2011	23:13:20	252	6.5	12.52	101.5					
02/08/2011	23:15:00	255	6.6	12.54	112.4					
02/08/2011	23:16:40	243	6.6	12.52	123.4					
02/08/2011	23:18:20	256	6.6	12.52	134.4					
02/08/2011	23:20:00	249	6.6	12.56	145.3					
02/08/2011	23:21:40	262	6.6	12.54	156.3					
02/08/2011	23:23:20	251	6.6	12.52	167.3					
02/08/2011	23:25:00	249	6.6	12.55	178.2					
02/08/2011	23:26:40	249	6.6	12.55	189.2					
02/08/2011	23:28:20	247	6.6	12.51	200.1					
02/08/2011	23:30:00	251	6.6	12.55	211.1					
02/08/2011	23:31:40	255	6.6	12.50	222.0					
02/08/2011	23:33:20	257	6.6	12.55	233.0					
02/08/2011	23:35:00	253	6.6	12.57	243.9					
02/08/2011	23:36:40	249	6.6	12.54	254.9					
02/08/2011	23:38:20	239	6.6	12.61	265.8					
02/08/2011	23:38:57	256	0.1	25.00	267.3	End Lead Slurry				
02/08/2011	23:39:00	249	0.1	25.00	267.3	Pumped 612sks/230bbbls of 12.5ppg lead slurry.				
02/08/2011	23:40:00	85	3.6	13.35	271.2					
02/08/2011	23:41:40	98	3.1	15.79	276.8					
02/08/2011	23:41:44	99	3.0	15.81	277.0	Start Mixing Tail Slurry				
02/08/2011	23:41:47	100	3.0	15.83	277.1	Mixing and pumping 15.8ppg tail slurry.				
02/08/2011	23:43:20	99	3.0	15.79	281.7					
02/08/2011	23:45:00	250	5.1	15.77	289.3					
02/08/2011	23:46:40	259	5.1	15.87	297.9					
02/08/2011	23:48:20	146	3.6	15.80	306.0					
02/08/2011	23:50:00	99	3.1	15.86	311.3					
02/08/2011	23:51:13	98	3.0	15.89	314.9	End Tail Slurry				
02/08/2011	23:51:15	97	3.0	15.88	315.0	Pumped 258sks/54bbbls of 15.8ppg tail slurry.				
02/08/2011	23:51:17	97	3.0	15.87	315.1	End Cement Slurry				
02/08/2011	23:51:21	97	3.0	15.86	315.3	Drop Top Plug				
02/08/2011	23:51:22	97	3.0	15.86	315.4	Start Displacement				
02/08/2011	23:51:24	98	3.0	15.85	315.5	Displace with fresh water.				
02/08/2011	23:51:40	96	3.0	15.83	316.3					
02/08/2011	23:53:20	91	3.0	15.72	321.3					
02/08/2011	23:55:00	7	0.0	15.74	325.7					
02/08/2011	23:56:40	7	0.0	15.73	325.8					
02/08/2011	23:58:20	8	0.0	15.72	325.9					
02/09/2011	00:00:00	63	3.4	9.46	327.7					
02/09/2011	00:01:40	98	5.1	8.97	333.9					
02/09/2011	00:03:20	152	6.5	8.65	344.1					
02/09/2011	00:05:00	142	6.5	8.44	354.9					
02/09/2011	00:06:40	170	6.5	8.38	365.7					
02/09/2011	00:08:20	199	6.4	8.36	376.4					
02/09/2011	00:10:00	226	6.4	8.29	387.0					
02/09/2011	00:11:40	253	6.3	8.34	397.7					
02/09/2011	00:13:20	285	6.4	8.34	408.3					
02/09/2011	00:15:00	313	6.3	8.32	418.9					
02/09/2011	00:16:40	360	6.3	8.33	429.5					
02/09/2011	00:16:42	356	6.3	8.33	429.7	Cement to surface at 80bbbls away.				
02/09/2011	00:17:35	390	6.3	8.33	435.3	Total of 67bbbls of cement to surface.				
02/09/2011	00:18:20	395	6.3	8.33	440.0					
02/09/2011	00:20:00	461	6.3	8.32	450.6					

Well			Field		Job Start	Customer		Job Number
Keinath Federal 9-12H Keinath Federal 9-12H			Wallace Creek		Feb/08/2011	ENCANA		BJ90-00274
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
02/09/2011	00:23:20	458	3.9	8.32	468.5			
02/09/2011	00:25:00	500	3.9	8.32	475.0			
02/09/2011	00:26:40	524	3.9	8.32	481.5			
02/09/2011	00:27:11	1126	3.8	8.32	483.5	Bump Top Plug		
02/09/2011	00:27:12	1126	3.1	8.32	483.5	End Displacement		
02/09/2011	00:27:15	1155	0.9	8.32	483.6	Bumped plug to 1100psi.		
02/09/2011	00:27:16	1142	0.9	8.32	483.6	Floats held.		
02/09/2011	00:28:20	1136	0.0	8.32	483.7			
02/09/2011	00:30:00	10	0.0	8.33	483.7			
02/09/2011	00:31:40	-1	0.0	8.33	483.7			
02/09/2011	00:33:20	-0	0.0	8.33	483.7			

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry 4.9	N2	Mud	Maximum Rate 7.8	Total Slurry 483.7	Mud 0.0	Spacer 52.1	N2				
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 2442	Final -1	Average 270	Bump Plug to 1100	Breakdown	Type	Volume bbl	Density lb/gal				
Avg. N2 Percent %	Designed Slurry Volume 0.0 bbl	Displacement 168.1 bbl	Mix Water Temp 60 degF	Cement Circulated to Surface?		<input checked="" type="checkbox"/>	Volume 67.0 bbl				
				Washed Thru Perfs		<input type="checkbox"/>	To ft				
Customer or Authorized Representative LES FUGLEVAND			Schlumberger Supervisor JEFF PATTERSON			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>				
						-	-				