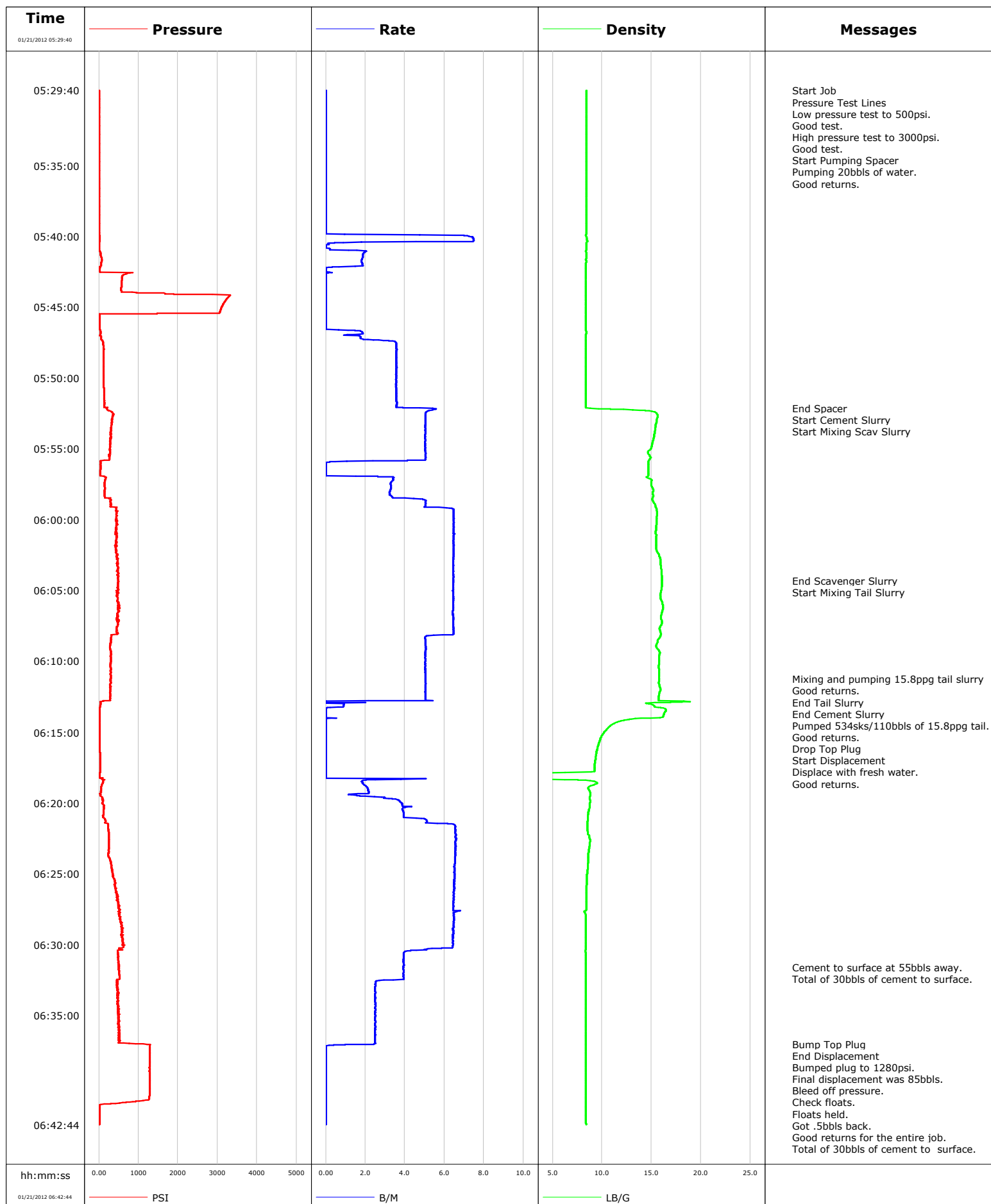


<b>Well</b>	TWIN CREEK 12-3D1	<b>Client</b>	ENCANA
<b>Field</b>	DIVIDE CREEK	<b>SIR No.</b>	C0BA-00070
<b>Engineer</b>	Jeff Patterson/T Willardson	<b>Job Type</b>	9 5/8" SURFACE
<b>Country</b>	United States	<b>Job Date</b>	01-21-2012

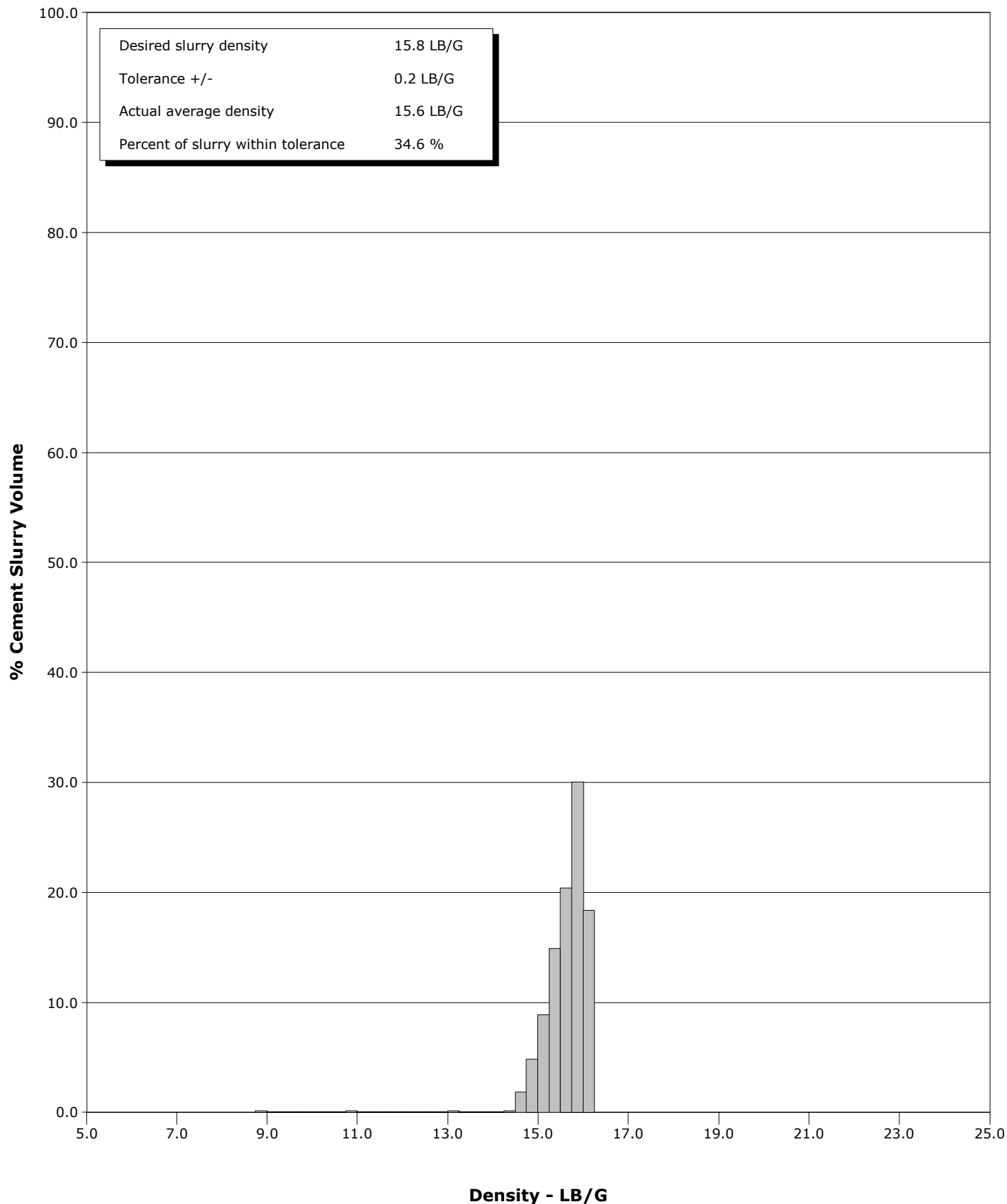


# Schlumberger Cementing Qa/Qc Density Report

**Well** TWIN CREEK 12-3D1  
**Field** DIVIDE CREEK  
**Engineer** Jeff Patterson/T Willardson  
**Country** United States

**Client** ENCANA  
**SIR No.** C0BA-00070  
**Job Type** 9 5/8" SURFACE  
**Job Date** 01-21-2012

Cement Slurry - 01/21/2012 05:52:08 to 01/21/2012 06:11:23



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Well TWIN CREEK 12-3D1 TWIN CREEK 12-3D1			Field DIVIDE CREEK		Job Start Jan/21/2012		Customer ENCANA		Job Number COBA-00070	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
01/21/2012	05:38:32	4	0.0	8.38	0.0					
01/21/2012	05:40:12	17	7.5	8.47	2.3					
01/21/2012	05:41:52	57	1.8	8.38	5.5					
01/21/2012	05:43:32	566	0.0	8.38	6.0					
01/21/2012	05:45:12	3074	0.0	8.38	6.0					
01/21/2012	05:46:52	43	1.9	8.38	6.5					
01/21/2012	05:48:32	112	3.6	8.38	11.6					
01/21/2012	05:50:12	116	3.6	8.37	17.5					
01/21/2012	05:51:52	136	3.6	8.37	23.5					
01/21/2012	05:52:06					End Spacer				
01/21/2012	05:52:06	193	3.9	8.37	24.3					
01/21/2012	05:52:08					Start Cement Slurry				
01/21/2012	05:52:08	194	5.4	8.79	24.5					
01/21/2012	05:52:09					Start Mixing Scav Slurry				
01/21/2012	05:52:09	194	5.4	8.79	24.5					
01/21/2012	05:53:32	314	5.0	15.38	31.6					
01/21/2012	05:55:12	287	5.0	14.65	40.0					
01/21/2012	05:56:52	27	0.0	14.68	43.3					
01/21/2012	05:58:32	283	4.8	15.08	48.6					
01/21/2012	06:00:12	442	6.5	15.53	58.5					
01/21/2012	06:01:52	457	6.5	15.45	69.3					
01/21/2012	06:03:32	466	6.4	15.98	80.0					
01/21/2012	06:04:19					End Scavenger Slurry				
01/21/2012	06:04:19	480	6.4	16.05	85.1					
01/21/2012	06:04:21					Start Mixing Tail Slurry				
01/21/2012	06:04:21	479	6.4	16.05	85.3					
01/21/2012	06:05:12	506	6.4	15.93	90.8					
01/21/2012	06:06:52	500	6.4	15.94	101.5					
01/21/2012	06:08:32	300	5.0	15.63	111.7					
01/21/2012	06:10:12	302	5.0	15.74	120.1					
01/21/2012	06:11:14					Mixing and pumping 15.8ppg tail slurry				
01/21/2012	06:11:14					Good returns.				
01/21/2012	06:11:14	297	5.0	15.78	125.3					
01/21/2012	06:11:22					End Tail Slurry				
01/21/2012	06:11:22	301	5.0	15.76	126.0					
01/21/2012	06:11:23					End Cement Slurry				
01/21/2012	06:11:23	294	5.0	15.76	126.1					
01/21/2012	06:11:25					Pumped 534sks/110bbbls of 15.8ppg tail.				
01/21/2012	06:11:25					Good returns.				
01/21/2012	06:11:25	291	5.0	15.75	126.2					
01/21/2012	06:11:30					Drop Top Plug				
01/21/2012	06:11:30	297	5.0	15.73	126.7					
01/21/2012	06:11:31					Start Displacement				
01/21/2012	06:11:31	297	5.0	15.70	126.7					
01/21/2012	06:11:32					Displace with fresh water.				
01/21/2012	06:11:32	298	5.0	15.70	126.8					
01/21/2012	06:11:33					Good returns.				
01/21/2012	06:11:33	297	5.0	15.70	126.9					
01/21/2012	06:11:52	290	5.0	15.87	128.5					
01/21/2012	06:13:32	19	0.0	16.43	133.5					
01/21/2012	06:15:12	16	0.0	10.04	133.5					
01/21/2012	06:16:52	27	0.0	9.33	133.5					
01/21/2012	06:18:32	104	1.8	9.40	134.1					
01/21/2012	06:20:12	124	3.9	8.75	138.4					

Well			Field		Job Start	Customer		Job Number
TWIN CREEK 12-3D1 TWIN CREEK 12-3D1			DIVIDE CREEK		Jan/21/2012	ENCANA		COBA-00070
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
01/21/2012	06:23:32	246	6.5	8.63	157.4			
01/21/2012	06:25:12	354	6.5	8.47	168.3			
01/21/2012	06:26:52	477	6.5	8.41	179.1			
01/21/2012	06:28:32	561	6.5	8.36	189.9			
01/21/2012	06:30:12	636	6.4	8.37	200.6			
01/21/2012	06:31:37					Cement to surface at 55bbls away.		
01/21/2012	06:31:37	512	3.9	8.37	206.6			
01/21/2012	06:31:38					Total of 30bbls of cement to surface.		
01/21/2012	06:31:38	502	3.9	8.37	206.6			
01/21/2012	06:31:52	508	3.9	8.37	207.5			
01/21/2012	06:33:32	496	2.5	8.37	212.6			
01/21/2012	06:35:12	512	2.5	8.37	216.8			
01/21/2012	06:36:52	507	2.5	8.37	221.0			
01/21/2012	06:37:01					Bump Top Plug		
01/21/2012	06:37:01	939	2.5	8.37	221.3			
01/21/2012	06:37:02					End Displacement		
01/21/2012	06:37:02	1117	2.4	8.37	221.4			
01/21/2012	06:37:03					Bumped plug to 1280psi.		
01/21/2012	06:37:03					Final displacement was 85bbls.		
01/21/2012	06:37:03	1225	2.4	8.37	221.4			
01/21/2012	06:37:04					Bleed off pressure.		
01/21/2012	06:37:04					Check floats.		
01/21/2012	06:37:04	1225	2.0	8.37	221.4			
01/21/2012	06:37:05					Floats held.		
01/21/2012	06:37:05					Got .5bbls back.		
01/21/2012	06:37:05					Good returns for the entire job.		
01/21/2012	06:37:05	1303	1.0	8.37	221.5			
01/21/2012	06:37:06					Total of 30bbls of cement to surface.		
01/21/2012	06:37:06	1303	1.0	8.37	221.5			
01/21/2012	06:38:32	1275	0.0	8.38	221.5			
01/21/2012	06:40:12	1275	0.0	8.38	221.5			
01/21/2012	06:41:52	13	0.0	8.38	221.5			
01/21/2012	06:42:37					End Job		
01/21/2012	06:42:37	13	0.0	8.38	221.5			

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl				
Slurry 6.5	N2	Mud	Maximum Rate 8.0		Total Slurry 110.0	Mud	Spacer 20.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum 3000	Final 1280	Average 300	Bump Plug to 1280	Breakdown	Type		Volume		Density
Avg. N2 Percent		Designed Slurry Volume 110.0 bbl		Displacement 85.5 bbl	Mix Water Temp 75 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 30.0 bbl	
						Washed Thru Perfs <input type="checkbox"/>		To	
Customer or Authorized Representative				Schlumberger Supervisor			Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
ROBERT TATE				Jeff Patterson/T Willardson			-		-