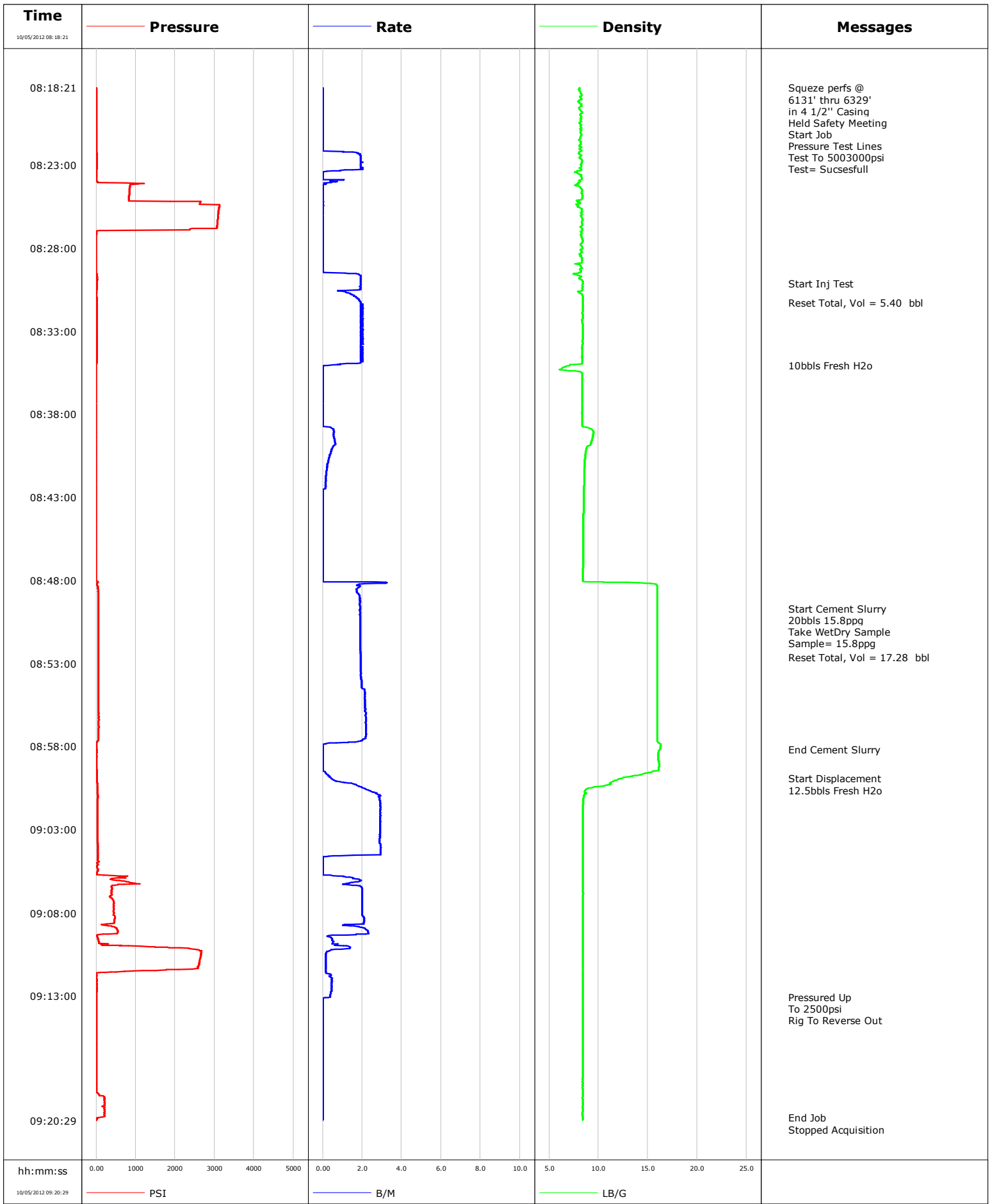


<b>Well</b>	FEDERAL RWF 424-17	<b>Client</b>	WPX
<b>Field</b>		<b>SIR No.</b>	C9U4-00222
<b>Engineer</b>		<b>Job Type</b>	SQUEZE
<b>Country</b>	United States	<b>Job Date</b>	10-05-2012

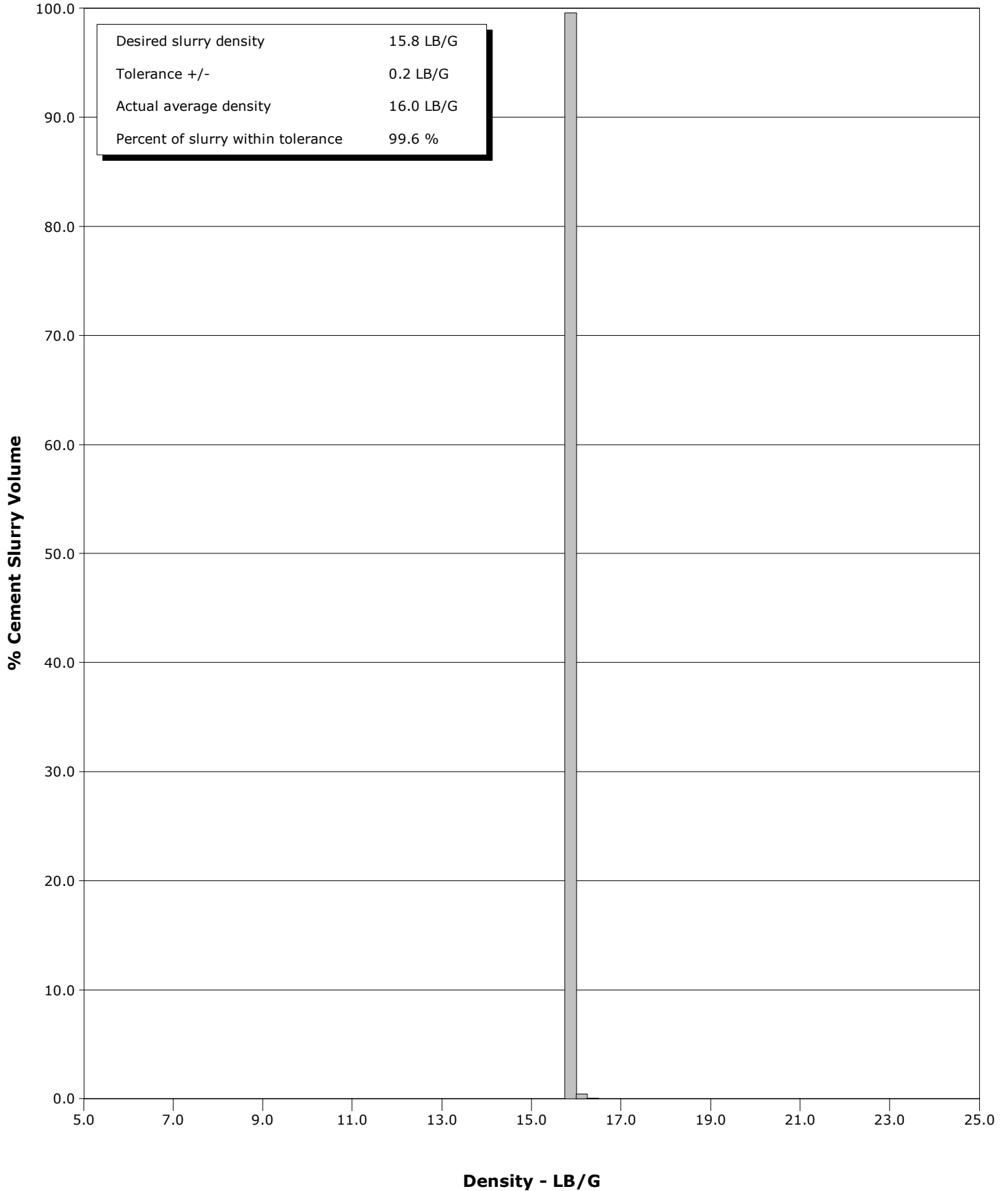


# Schlumberger Cementing Qa/Qc Density Report

**Well** FEDERAL RWF 424-17  
**Field**  
**Engineer**  
**Country** United States

**Client** WPX  
**SIR No.** C9U4-00222  
**Job Type** SQUEZE  
**Job Date** 10-05-2012

Cement Slurry - 10/05/2012 08:49:42 to 10/05/2012 08:58:10





# Cementing Service Report

<b>Customer</b> WPX	<b>Job Number</b> C9U4-00222
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<b>Well</b> FEDERAL RWF 424-17	<b>Location (legal)</b> RULISON	<b>Schlumberger Location</b> GCO	<b>Job Start</b> Oct/05/2012
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<b>Field</b>	<b>Formation Name/Type</b>	<b>Deviation</b>	<b>Bit Size</b>	<b>Well MD</b>	<b>Well TVD</b>
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<b>County</b> GARFILED	<b>State/Province</b> Colorado	<b>BHP</b>	<b>BHST</b>	<b>BHCT</b>	<b>Pore Press. Gradient</b>
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<b>Well Master</b> 0630754715	<b>API/UWI</b>	<b>Casing/Liner</b>			
<b>Rig Name</b> WORKOVER	<b>Drilled For</b>	<b>Service Via</b> Land	<b>Depth,</b>	<b>Size,</b>	<b>Weight,</b>

<b>Offshore Zone</b>	<b>Well Class</b> Old	<b>Well Type</b>			
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<b>Drilling Fluid Type</b>	<b>Max. Density</b>	<b>Plastic Viscosity</b>	<b>Tubing/Drill Pipe</b>		
			<b>Depth,</b>	<b>Size,</b>	<b>Weight,</b>

<b>Service Line</b> Cementing	<b>Job Type</b> SQUEZE				
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<b>Max. Allowed Tub. Press</b>	<b>Max. Allowed Ann. Press</b>	<b>WH Connection</b>	<b>Perforations/Open Hole</b>		
			<b>Top,</b>	<b>Bottom,</b>	<b>No. of Shots</b>

<b>Service Instructions</b> 100sk 15.8ppg 1.17ft3/sk water test= good						<b>Total Interval</b>			
						<b>Diameter</b>			
		<b>Treat Down</b> Tubing		<b>Displacement</b>		<b>Packer Type</b>		<b>Packer Depth</b> 6014.0 ft	
		<b>Tubing Vol.</b> 23.0 bbl		<b>Casing Vol.</b>		<b>Annular Vol.</b>		<b>Openhole Vol.</b>	

<b>Casing/Tubing Secured</b> <input type="checkbox"/>	<b>1 Hole Vol. Circulated prior to Cement</b> <input type="checkbox"/>	<b>Casing Tools</b>			<b>Squeeze Job</b>	
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<b>Lift Pressure</b>	<b>Shoe Type</b>	<b>Squeeze Type</b>
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<b>Pipe Rotated</b> <input type="checkbox"/>	<b>Pipe Reciprocated</b> <input type="checkbox"/>	<b>Shoe Depth</b>	<b>Tool Type</b>
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<b>No. Centralizers</b>	<b>Top Plugs</b>	<b>Bottom Plugs</b>	<b>Stage Tool Type</b>	<b>Tool Depth</b>
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<b>Cement Head Type</b>	<b>Stage Tool Depth</b>	<b>Tail Pipe Size</b>
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<b>Job Scheduled For</b> Oct/05/2012	<b>Arrived on Location</b> Oct/05/2012	<b>Leave Location</b> Oct/05/2012	<b>Collar Type</b>	<b>Tail Pipe Depth</b>
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			<b>Collar Depth</b>	<b>Sqz. Total Vol.</b>
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Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
10/05/2012	08:06:33					Started Acquisition
10/05/2012	08:18:21					Squeeze perfs @
10/05/2012	08:18:21					6131' thru 6329'
10/05/2012	08:18:21					in 4 1/2" Casing
10/05/2012	08:18:21					Held Safety Meeting
10/05/2012	08:18:21	7	0.0	8.10	0.0	
10/05/2012	08:18:25					Start Job
10/05/2012	08:18:25	7	0.0	8.05	0.0	
10/05/2012	08:18:26					Pressure Test Lines
10/05/2012	08:18:26	7	0.0	8.10	0.0	
10/05/2012	08:18:28					Test To 5003000psi
10/05/2012	08:18:28					Test= Succesfull
10/05/2012	08:18:28	7	0.0	7.99	0.0	
10/05/2012	08:18:33	7	0.0	8.07	0.0	
10/05/2012	08:19:03	7	0.0	8.29	0.0	
10/05/2012	08:19:33	7	0.0	8.14	0.0	
10/05/2012	08:20:03	7	0.0	8.20	0.0	
10/05/2012	08:20:33	6	0.0	8.13	0.0	
10/05/2012	08:21:03	3	0.0	8.22	0.0	
10/05/2012	08:21:33	2	0.0	8.07	0.0	
10/05/2012	08:22:03	2	0.0	8.06	0.0	

Well FEDERAL RWF 424-17			Field		Job Start Oct/05/2012	Customer WPX	Job Number C9U4-00222
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
10/05/2012	08:23:03	22	1.9	8.29	1.6		
10/05/2012	08:23:33	3	0.0	7.96	2.2		
10/05/2012	08:24:03	39	0.5	8.12	2.3		
10/05/2012	08:24:33	841	0.0	8.38	2.3		
10/05/2012	08:25:03	829	0.0	8.36	2.3		
10/05/2012	08:25:33	3114	0.0	7.90	2.3		
10/05/2012	08:26:03	3087	0.0	8.22	2.3		
10/05/2012	08:26:33	3067	0.0	8.36	2.3		
10/05/2012	08:27:03	6	0.0	8.22	2.3		
10/05/2012	08:27:33	-2	0.0	8.39	2.3		
10/05/2012	08:28:03	-2	0.0	8.37	2.3		
10/05/2012	08:28:33	-3	0.0	8.27	2.3		
10/05/2012	08:29:03	-3	0.0	8.23	2.3		
10/05/2012	08:29:33	5	1.7	7.53	2.4		
10/05/2012	08:30:03	25	1.9	8.39	3.3		
10/05/2012	08:30:08						Start Inj Test
10/05/2012	08:30:08	23	1.9	8.39	3.5		
10/05/2012	08:30:33	9	1.1	8.35	4.3		
10/05/2012	08:31:03	19	1.8	8.39	5.0		
10/05/2012	08:31:17						Reset Total, Vol = 5.40 bbl
10/05/2012	08:31:17	23	1.9	8.39	5.4		
10/05/2012	08:31:33	22	1.9	8.39	5.9		
10/05/2012	08:32:03	21	1.9	8.39	6.9		
10/05/2012	08:32:33	17	2.0	8.38	7.9		
10/05/2012	08:33:03	18	1.9	8.39	8.9		
10/05/2012	08:33:33	15	1.9	8.38	9.9		
10/05/2012	08:34:03	15	1.9	8.34	10.8		
10/05/2012	08:34:33	18	1.9	8.33	11.8		
10/05/2012	08:35:03	-1	0.5	7.11	12.7		
10/05/2012	08:35:05						10bbbls Fresh H2o
10/05/2012	08:35:05	-0	0.1	7.09	12.7		
10/05/2012	08:35:33	-1	0.0	8.35	12.7		
10/05/2012	08:36:03	-2	0.0	8.36	12.7		
10/05/2012	08:36:33	-4	0.0	8.35	12.7		
10/05/2012	08:37:03	-4	0.0	8.35	12.7		
10/05/2012	08:37:33	-2	0.0	8.35	12.7		
10/05/2012	08:38:03	-3	0.0	8.34	12.7		
10/05/2012	08:38:33	-3	0.0	8.34	12.7		
10/05/2012	08:39:03	-1	0.6	9.48	12.9		
10/05/2012	08:39:33	-1	0.6	9.34	13.1		
10/05/2012	08:40:03	-1	0.5	8.79	13.4		
10/05/2012	08:40:33	-1	0.4	8.65	13.6		
10/05/2012	08:41:03	-1	0.2	8.59	13.8		
10/05/2012	08:41:33	-1	0.2	8.56	13.9		
10/05/2012	08:42:03	-1	0.2	8.54	14.0		
10/05/2012	08:42:33	-2	0.0	8.52	14.0		
10/05/2012	08:43:03	-2	0.0	8.50	14.0		
10/05/2012	08:43:33	-2	0.0	8.49	14.0		
10/05/2012	08:44:03	-2	0.0	8.48	14.0		
10/05/2012	08:44:33	-2	0.0	8.47	14.0		
10/05/2012	08:45:03	-2	0.0	8.46	14.0		
10/05/2012	08:45:33	-1	0.0	8.45	14.0		
10/05/2012	08:46:03	-1	0.0	8.44	14.0		
10/05/2012	08:46:33	-1	0.0	8.44	14.0		

Well FEDERAL RWF 424-17			Field		Job Start Oct/05/2012	Customer WPX	Job Number C9U4-00222
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
10/05/2012	08:47:33	-1	0.0	8.43	14.0		
10/05/2012	08:48:03	-1	0.0	8.43	14.0		
10/05/2012	08:48:33	49	1.7	15.97	15.0		
10/05/2012	08:49:03	56	1.9	15.97	15.9		
10/05/2012	08:49:33	54	1.9	15.97	16.9		
10/05/2012	08:49:42						Start Cement Slurry
10/05/2012	08:49:42	55	1.9	15.97	17.1		
10/05/2012	08:49:43						20bbls 15.8ppg
10/05/2012	08:49:43						Take WetDry Sample
10/05/2012	08:49:43	55	1.9	15.97	17.2		
10/05/2012	08:49:44						Sample= 15.8ppg
10/05/2012	08:49:44	55	1.9	15.97	17.2		
10/05/2012	08:50:03	55	1.9	15.97	17.8		
10/05/2012	08:50:33	54	1.9	15.97	18.7		
10/05/2012	08:51:03	55	1.9	15.97	19.7		
10/05/2012	08:51:33	54	1.9	15.97	20.6		
10/05/2012	08:52:03	52	1.9	15.97	21.6		
10/05/2012	08:52:33	54	1.9	15.97	22.6		
10/05/2012	08:52:37						Reset Total, Vol = 17.28 bbl
10/05/2012	08:52:37	54	1.9	15.97	22.7		
10/05/2012	08:53:03	54	1.9	15.97	23.5		
10/05/2012	08:53:33	54	1.9	15.97	24.5		
10/05/2012	08:54:03	52	2.0	15.97	25.5		
10/05/2012	08:54:33	61	2.1	15.97	26.4		
10/05/2012	08:55:03	59	2.1	15.97	27.5		
10/05/2012	08:55:33	60	2.2	15.97	28.6		
10/05/2012	08:56:03	61	2.2	15.96	29.7		
10/05/2012	08:56:33	60	2.2	15.96	30.8		
10/05/2012	08:57:03	61	2.2	15.96	31.9		
10/05/2012	08:57:33	51	2.1	15.96	32.9		
10/05/2012	08:58:03	10	0.0	16.26	33.4		
10/05/2012	08:58:10						End Cement Slurry
10/05/2012	08:58:10	12	0.0	16.23	33.4		
10/05/2012	08:58:33	12	0.0	16.06	33.4		
10/05/2012	08:59:03	8	0.0	16.14	33.4		
10/05/2012	08:59:33	15	0.1	15.26	33.4		
10/05/2012	08:59:54						Start Displacement
10/05/2012	08:59:54	15	0.4	12.41	33.5		
10/05/2012	08:59:55						12.5bbls Fresh H2o
10/05/2012	08:59:55	15	0.4	12.30	33.5		
10/05/2012	09:00:03	15	0.6	11.60	33.6		
10/05/2012	09:00:33	31	2.2	8.88	34.3		
10/05/2012	09:01:03	38	2.9	8.49	35.6		
10/05/2012	09:01:33	36	2.9	8.42	37.1		
10/05/2012	09:02:03	36	2.9	8.40	38.6		
10/05/2012	09:02:33	36	2.9	8.39	40.0		
10/05/2012	09:03:03	36	2.9	8.39	41.5		
10/05/2012	09:03:33	35	2.9	8.39	42.9		
10/05/2012	09:04:03	39	2.9	8.39	44.4		
10/05/2012	09:04:33	41	1.6	8.39	45.8		
10/05/2012	09:05:03	42	0.0	8.39	45.8		
10/05/2012	09:05:33	18	0.0	8.39	45.8		
10/05/2012	09:06:03	517	1.9	8.39	46.3		
10/05/2012	09:06:33	402	2.0	8.39	47.1		

Well		Field		Job Start		Customer		Job Number	
FEDERAL RWF 424-17				Oct/05/2012		WPX		C9U4-00222	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
10/05/2012	09:07:33	446	2.0	8.41	49.1				
10/05/2012	09:08:03	444	2.0	8.40	50.1				
10/05/2012	09:08:33	460	2.1	8.41	51.1				
10/05/2012	09:09:03	545	2.3	8.40	52.1				
10/05/2012	09:09:33	44	0.5	8.40	52.8				
10/05/2012	09:10:03	1494	1.4	8.39	53.1				
10/05/2012	09:10:33	2649	0.2	8.39	53.4				
10/05/2012	09:11:03	2607	0.2	8.39	53.5				
10/05/2012	09:11:33	514	0.2	8.39	53.5				
10/05/2012	09:12:03	12	0.5	8.39	53.7				
10/05/2012	09:12:33	12	0.5	8.39	54.0				
10/05/2012	09:13:03	12	0.4	8.39	54.2				
10/05/2012	09:13:05					Pressured Up			
10/05/2012	09:13:05	11	0.4	8.39	54.2				
10/05/2012	09:13:06					To 2500psi			
10/05/2012	09:13:06	11	0.3	8.39	54.2				
10/05/2012	09:13:20					Rig To Reverse Out			
10/05/2012	09:13:20	11	0.0	8.39	54.2				
10/05/2012	09:13:33	11	0.0	8.39	54.2				
10/05/2012	09:14:03	11	0.0	8.39	54.2				
10/05/2012	09:14:33	11	0.0	8.39	54.2				
10/05/2012	09:15:03	11	0.0	8.39	54.2				
10/05/2012	09:15:33	11	0.0	8.39	54.2				
10/05/2012	09:16:03	10	0.0	8.39	54.2				
10/05/2012	09:16:33	11	0.0	8.39	54.2				
10/05/2012	09:17:03	11	0.0	8.39	54.2				
10/05/2012	09:17:33	12	0.0	8.38	54.2				
10/05/2012	09:18:03	12	0.0	8.38	54.2				
10/05/2012	09:18:33	11	0.0	8.38	54.2				
10/05/2012	09:19:03	187	0.0	8.38	54.2				
10/05/2012	09:19:33	211	0.0	8.38	54.2				
10/05/2012	09:20:03	213	0.0	8.38	54.2				
10/05/2012	09:20:19					End Job			
10/05/2012	09:20:19	49	0.0	8.38	54.2				

### Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
1.6		0.0	3.3	54.2	0.0	17.1	
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
3127	92	274					
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	<input type="checkbox"/>	Volume	
	62.0 bbl	20.7 bbl	62 degF	Washed Thru Perfs	<input type="checkbox"/>	To	
Customer or Authorized Representative		Schlumberger Supervisor			Circulation Lost	<input type="checkbox"/>	Job Completed
JEFF DUCY		JASON CRICK			-	<input type="checkbox"/>	<input checked="" type="checkbox"/>