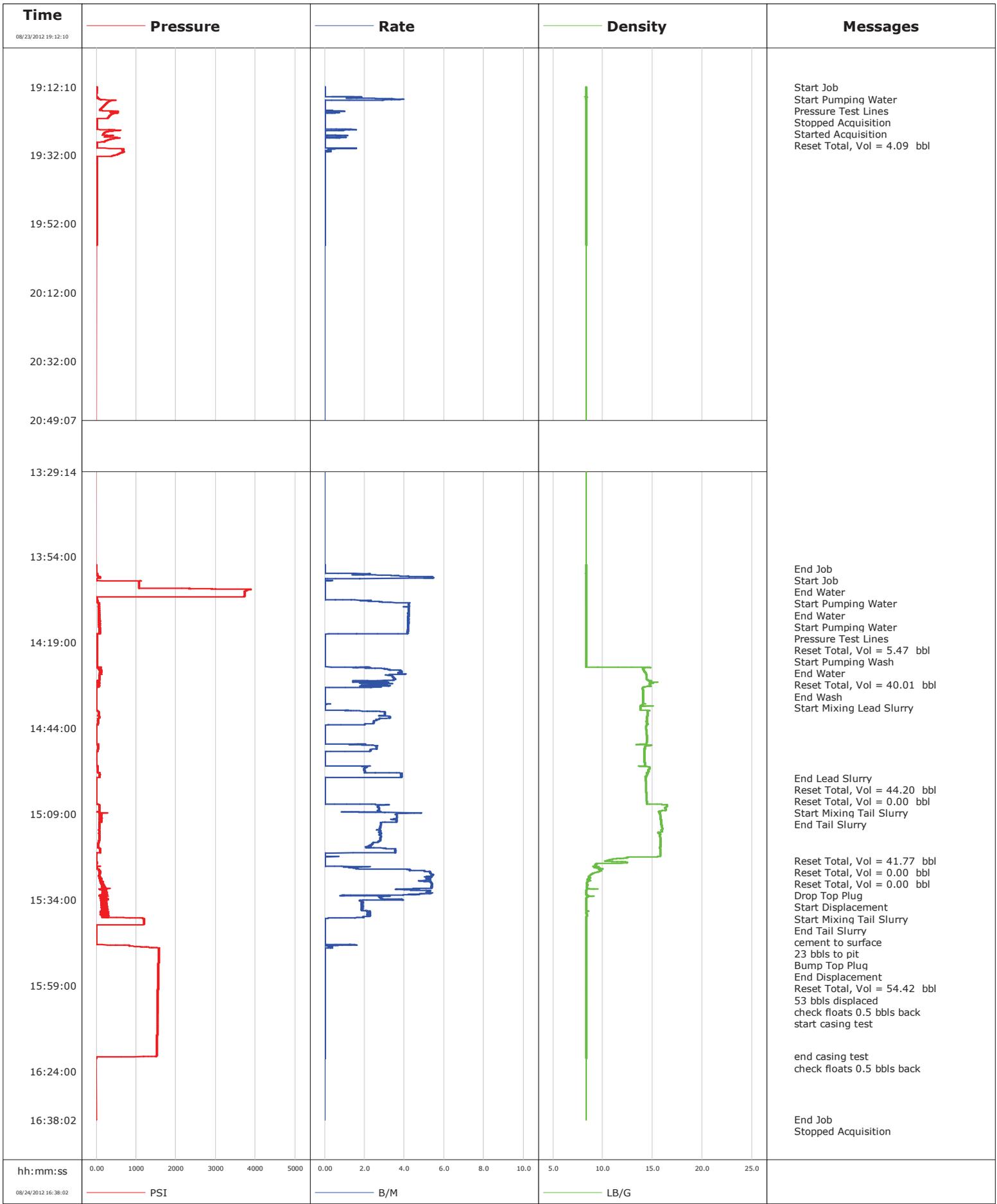


<b>Well</b>	Wood gulch 1-36	<b>Client</b>	Shell
<b>Field</b>	WFU/Swan	<b>SIR No.</b>	C459-00395
<b>Engineer</b>	Kevin Boren	<b>Job Type</b>	10 3/4 Surface
<b>Country</b>	United States	<b>Job Date</b>	08-23-2012





# Cementing Service Report

<b>Customer</b> Shell	<b>Job Number</b> C459-00395
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<b>Well</b> Wood gulch 1-36	<b>Location (legal)</b>	<b>Schlumberger Location</b> Rock Springs	<b>Job Start</b> Aug/23/2012
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<b>Field</b> WFU/Swan	<b>Formation Name/Type</b> Clean-Sandstone	<b>Deviation</b>	<b>Bit Size</b>	<b>Well MD</b> 613.0 ft	<b>Well TVD</b> 613.0 ft
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<b>County</b> Moffett	<b>State/Province</b> Colorado	<b>BHP</b>	<b>BHST</b> 87 degF	<b>BHCT</b> 80 degF	<b>Pore Press. Gradient</b>
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<b>Well Master</b>	<b>API/UWI</b>	<b>Rig Name</b> N-94				
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<b>Drilled For</b> Oil	<b>Service Via</b> Land	<b>Casing/Liner</b>				
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<b>Offshore Zone</b>	<b>Well Class</b> New	<b>Well Type</b> Development	<b>Depth, ft</b> 613.0	<b>Size, in</b> 10.750	<b>Weight, lb/ft</b> 40.5	<b>Grade</b> 110	<b>Thread</b> 8RD
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<b>Drilling Fluid Type</b> Other	<b>Max. Density</b> 9.00 lb/gal	<b>Plastic Viscosity</b>	<b>Tubing/Drill Pipe</b>				
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<b>Service Line</b> Cementing	<b>Job Type</b> 10 3/4 Surface	<b>Perforations/Open Hole</b>					
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<b>Max. Allowed Tub. Press</b> 3500 psi	<b>Max. Allowed Ann. Press</b>	<b>WH Connection</b> Single Cement head	<b>Top,</b>	<b>Bottom,</b>	<b>No. of Shots</b>	<b>Total Interval</b>
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<b>Service Instructions</b>						
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<b>Treat Down</b> Casing	<b>Displacement</b> 60.0 bbl	<b>Packer Type</b>	<b>Packer Depth</b>
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<b>Tubing Vol.</b>	<b>Casing Vol.</b> 60.0 bbl	<b>Annular Vol.</b>	<b>Openhole Vol.</b>
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<b>Casing/Tubing Secured</b> <input checked="" type="checkbox"/>	<b>1 Hole Vol. Circulated prior to Cement</b> <input checked="" type="checkbox"/>	<b>Casing Tools</b>	<b>Squeeze Job</b>
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<b>Lift Pressure</b> 273 psi	<b>Shoe Type</b> Guide	<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> 613.0 ft	<b>Tool Type</b>
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<b>No. Centralizers</b> 3	<b>Top Plugs</b> 1	<b>Bottom Plugs</b>	<b>Stage Tool Type</b>	<b>Tool Depth</b>
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<b>Cement Head Type</b> Single	<b>Stage Tool Depth</b>	<b>Tail Pipe Size</b>
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<b>Job Scheduled For</b> Aug/23/2012 05:00	<b>Arrived on Location</b> Aug/23/2012 05:00	<b>Leave Location</b> Aug/24/2012 18:00	<b>Collar Type</b> Float	<b>Tail Pipe Depth</b>
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			<b>Collar Depth</b> 611.0 ft	<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
08/23/2012	19:11:35					Started Acquisition
08/23/2012	19:12:10	1	0.0	8.32	0.0	
08/23/2012	19:12:11					Start Job
08/23/2012	19:12:11	1	0.0	8.32	0.0	
08/23/2012	19:12:13					Start Pumping Water
08/23/2012	19:12:13	2	0.0	8.32	0.0	
08/23/2012	19:12:15					Pressure Test Lines
08/23/2012	19:12:15	1	0.0	8.32	0.0	
08/23/2012	19:14:35	-1	0.0	8.33	0.0	
08/23/2012	19:17:35	199	0.0	8.34	2.5	
08/23/2012	19:20:35	331	0.0	8.34	2.8	
08/23/2012	19:23:35	6	0.0	8.34	2.8	
08/23/2012	19:26:35	245	0.0	8.34	3.4	
08/23/2012	19:29:35	7	0.0	8.34	3.6	
08/23/2012	19:32:35	2	0.0	8.34	4.1	
08/23/2012	19:35:35	3	0.0	8.34	4.1	
08/23/2012	19:38:35	3	0.0	8.34	4.1	
08/23/2012	19:41:35	3	0.0	8.34	4.1	
08/23/2012	19:44:35	3	0.0	8.34	4.1	
08/23/2012	19:47:35	3	0.0	8.34	4.1	
08/23/2012	19:50:35	3	0.0	8.34	4.1	

Well			Field		Job Start	Customer	Job Number
Wood gulch 1-36			WFU/Swan		Aug/23/2012	Shell	C459-00395
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
08/23/2012	19:56:35	3	0.0	8.34	4.1		
08/24/2012	13:56:35	-2	0.0	8.33	0.0		
08/24/2012	13:57:31					End Job	
08/24/2012	13:57:31	-1	0.0	8.33	0.0		
08/24/2012	13:57:32					Start Job	
08/24/2012	13:57:32	-1	0.0	8.33	0.0		
08/24/2012	13:57:33					End Water	
08/24/2012	13:57:33					Start Pumping Water	
08/24/2012	13:57:33	-1	0.0	8.33	0.0		
08/24/2012	13:57:34					End Water	
08/24/2012	13:57:34					Start Pumping Water	
08/24/2012	13:57:34	-1	0.0	8.33	0.0		
08/24/2012	13:57:38					Pressure Test Lines	
08/24/2012	13:57:38	-1	0.0	8.33	0.0		
08/24/2012	13:59:35	23	3.5	8.33	1.5		
08/24/2012	14:02:35	1068	0.0	8.33	5.5		
08/24/2012	14:05:35	3720	0.0	8.33	5.5		
08/24/2012	14:06:32					Reset Total, Vol = 5.47 bbl	
08/24/2012	14:06:32	0	0.0	8.33	5.5		
08/24/2012	14:06:33					Start Pumping Wash	
08/24/2012	14:06:33	0	0.0	8.33	0.0		
08/24/2012	14:06:35					End Water	
08/24/2012	14:06:35	0	0.0	8.33	0.0		
08/24/2012	14:08:35	58	4.2	8.34	6.7		
08/24/2012	14:11:35	62	4.2	8.34	19.3		
08/24/2012	14:14:35	70	4.2	8.34	31.9		
08/24/2012	14:16:33					Reset Total, Vol = 40.01 bbl	
08/24/2012	14:16:33	39	1.6	8.34	40.0		
08/24/2012	14:16:37					End Wash	
08/24/2012	14:16:37	15	0.0	8.35	0.1		
08/24/2012	14:16:39					Start Mixing Lead Slurry	
08/24/2012	14:16:39	16	0.0	8.35	0.1		
08/24/2012	14:17:35	20	0.0	8.34	0.1		
08/24/2012	14:20:35	18	0.0	8.35	0.1		
08/24/2012	14:23:35	17	0.0	8.34	0.1		
08/24/2012	14:26:35	52	2.7	14.05	0.8		
08/24/2012	14:29:35	81	3.5	14.38	11.4		
08/24/2012	14:32:35	-2	0.0	14.01	18.5		
08/24/2012	14:35:35	-2	0.0	14.04	18.5		
08/24/2012	14:38:35	-1	0.0	13.82	18.5		
08/24/2012	14:41:35	41	2.6	14.43	26.3		
08/24/2012	14:44:35	-3	0.0	14.37	29.9		
08/24/2012	14:47:35	-3	0.0	14.42	29.9		
08/24/2012	14:50:35	33	2.3	14.20	34.4		
08/24/2012	14:53:35	-3	0.0	14.20	34.8		
08/24/2012	14:56:35	27	2.0	14.60	38.0		
08/24/2012	14:58:24					End Lead Slurry	
08/24/2012	14:58:24	-9	1.7	14.31	44.2		
08/24/2012	14:58:26					Reset Total, Vol = 44.20 bbl	
08/24/2012	14:58:26					Reset Total, Vol = 0.00 bbl	
08/24/2012	14:58:26	-12	0.1	14.31	44.2		
08/24/2012	14:58:27					Start Mixing Tail Slurry	
08/24/2012	14:58:27					End Tail Slurry	
08/24/2012	14:58:27	-13	0.0	14.31	0.0		

Well			Field		Job Start	Customer	Job Number
Wood gulch 1-36			WFU/Swan		Aug/23/2012	Shell	C459-00395
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
08/24/2012	15:02:35	-5	0.0	14.36	0.0		
08/24/2012	15:05:35	-5	0.0	14.41	0.0		
08/24/2012	15:08:35	70	3.0	15.67	6.4		
08/24/2012	15:11:35	65	2.8	15.87	17.2		
08/24/2012	15:14:35	64	2.8	15.59	25.5		
08/24/2012	15:17:35	49	2.4	15.80	33.8		
08/24/2012	15:20:35	-2	0.0	15.75	41.8		
08/24/2012	15:22:35					Reset Total, Vol = 41.77 bbl	
08/24/2012	15:22:35	-2	0.0	10.45	41.8		
08/24/2012	15:22:37					Reset Total, Vol = 0.00 bbl	
08/24/2012	15:22:37	-1	0.0	10.41	0.0		
08/24/2012	15:22:42					Reset Total, Vol = 0.00 bbl	
08/24/2012	15:22:42	-1	0.0	10.32	0.0		
08/24/2012	15:22:49					Drop Top Plug	
08/24/2012	15:22:49	-1	0.0	10.95	0.0		
08/24/2012	15:22:50					Start Displacement	
08/24/2012	15:22:50	-1	0.0	10.95	0.0		
08/24/2012	15:23:35	0	0.0	9.32	0.0		
08/24/2012	15:23:47					Start Mixing Tail Slurry	
08/24/2012	15:23:47	-1	0.0	9.33	0.0		
08/24/2012	15:23:49					End Tail Slurry	
08/24/2012	15:23:49	-1	0.0	9.34	0.0		
08/24/2012	15:26:35	92	5.4	8.84	8.7		
08/24/2012	15:29:35	184	5.4	8.44	24.5		
08/24/2012	15:32:35	158	4.0	8.37	39.6		
08/24/2012	15:35:10					cement to surface	
08/24/2012	15:35:10	129	1.9	8.35	46.0		
08/24/2012	15:35:16					23 bbls to pit	
08/24/2012	15:35:16	188	1.8	8.35	46.2		
08/24/2012	15:35:35	189	1.9	8.34	46.8		
08/24/2012	15:38:35	175	2.3	8.39	52.9		
08/24/2012	15:39:37					Bump Top Plug	
08/24/2012	15:39:37	1194	0.0	8.34	54.4		
08/24/2012	15:39:38					End Displacement	
08/24/2012	15:39:38	1198	0.0	8.34	54.4		
08/24/2012	15:39:42					Reset Total, Vol = 54.42 bbl	
08/24/2012	15:39:42	1186	0.0	8.34	54.4		
08/24/2012	15:40:09					53 bbls displaced	
08/24/2012	15:40:09	1194	0.0	8.35	0.0		
08/24/2012	15:41:35	-4	0.0	8.35	0.0		
08/24/2012	15:42:07					check floats 0.5 bbls back	
08/24/2012	15:42:07	-3	0.0	8.35	0.0		
08/24/2012	15:44:35	-2	0.0	8.34	0.0		
08/24/2012	15:47:15					start casing test	
08/24/2012	15:47:15	732	0.8	8.34	0.3		
08/24/2012	15:47:35	1005	0.4	8.35	0.3		
08/24/2012	15:50:35	1560	0.0	8.34	0.5		
08/24/2012	15:53:35	1554	0.0	8.35	0.5		
08/24/2012	15:56:35	1550	0.0	8.35	0.5		
08/24/2012	15:59:35	1545	0.0	8.35	0.5		
08/24/2012	16:02:35	1540	0.0	8.35	0.5		
08/24/2012	16:05:35	1535	0.0	8.35	0.5		
08/24/2012	16:08:35	1529	0.0	8.34	0.5		
08/24/2012	16:11:35	1524	0.0	8.34	0.5		

Well			Field		Job Start		Customer		Job Number	
Wood gulch 1-36			WFU/Swan		Aug/23/2012		Shell		C459-00395	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
08/24/2012	16:17:35	1511	0.0	8.34	0.5					
08/24/2012	16:19:32					end casing test				
08/24/2012	16:19:32	1508	0.0	8.34	0.5					
08/24/2012	16:20:09					check floats 0.5 bbls back				
08/24/2012	16:20:09	-1	0.0	8.34	0.5					

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2	
3.0			5.0	86.0		45.0		
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density	
318	318	98	1158					
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume	23.0 bbl	
	88.0 bbl	532.0 bbl	70 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 Whitson			Kevin Boren		-		-	