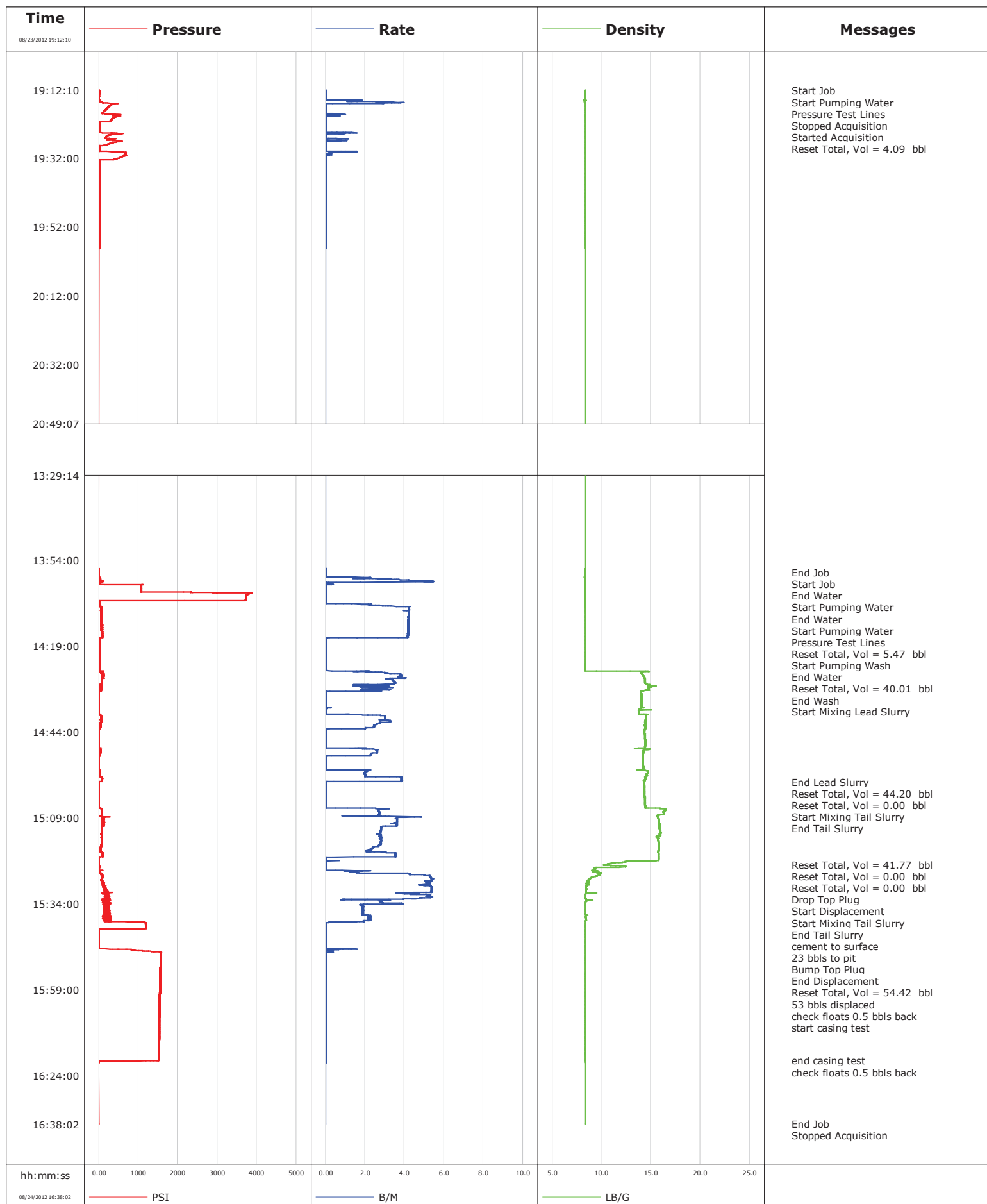


<b>Well</b>	Wood gulch 1-36	<b>Client</b>	Shell
<b>Field</b>	WFU/Swan	<b>SIR No.</b>	C459-00395
<b>Engineer</b>	Kevin Boren	<b>Job Type</b>	10 3/4 Surface
<b>Country</b>	United States	<b>Job Date</b>	08-23-2012





# Cementing Service Report

				Customer Shell			Job Number C459-00395								
Well Wood gulch 1-36			Location (legal)			Schlumberger Location Rock Springs			Job Start Aug/23/2012						
Field WFU/Swan		Formation Name/Type Clean-Sandstone			Deviation		Bit Size		Well MD 613.0 ft		Well TVD 613.0 ft				
County Moffett		State/Province Colorado			BHP		BHST 87 degF		BHCT 80 degF		Pore Press. Gradient				
Well Master		API/UWI													
Rig Name N-94		Drilled For Oil		Service Via Land		Casing/Liner									
Offshore Zone		Well Class New		Well Type Development		Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
						613.0		10.750		40.5		110		8RD	
Drilling Fluid Type Other		Max. Density 9.00 lb/gal		Plastic Viscosity		Tubing/Drill Pipe									
						Depth,		Size,		Weight,		Grade		Thread	
Service Line Cementing		Job Type 10 3/4 Surface													
Max. Allowed Tub. Press 3500 psi		Max. Allowed Ann. Press		WH Connection Single Cement head		Perforations/Open Hole									
Service Instructions						Top,		Bottom,				No. of Shots		Total Interval	
						Treat Down Casing		Displacement 60.0 bbl		Packer Type		Packer Depth			
						Tubing Vol.		Casing Vol. 60.0 bbl		Annular Vol.		Openhole Vol.			
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>		Casing Tools				Squeeze Job							
Lift Pressure 273 psi				Shoe Type Guide				Squeeze Type							
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 613.0 ft				Tool Type							
No. Centralizers 3		Top Plugs 1		Bottom Plugs		Stage Tool Type				Tool Depth					
Cement Head Type Single				Stage Tool Depth				Tail Pipe Size							
Job Scheduled For Aug/23/2012 05:00		Arrived on Location Aug/23/2012 05:00		Leave Location Aug/24/2012 18:00		Collar Type Float				Tail Pipe Depth					
						Collar Depth 611.0 ft				Sqz. Total Vol.					
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 3.0	N2	Mud	Maximum Rate 5.0	Total Slurry 86.0	Mud	Spacer 45.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 318	Final 318	Average 98	Bump Plug to 1158	Breakdown	Type	Volume	Density	
Avg. N2 Percent		Designed Slurry Volume 88.0 bbl	Displacement 532.0 bbl	Mix Water Temp 70 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 23.0 bbl		
					Washed Thru Perfs <input type="checkbox"/>	To		
Customer or Authorized Representative Steve Whitson			Schlumberger Supervisor Kevin Boren			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	