

Well RG 622-14-298 RG 622-14-298				Location (legal) Rio Blanco		Schlumberger Location Grand Junction		Job Number BIB3-00001 0700-00429	
Field Ryan Gulch		Formation Name/Type Shale		Deviation 0 deg		Bit Size 13.5 in		Well MD 3048.0 ft	
County Rio Blanco		State/Province Colorado		BHP		BHST 113 degF		BHCT 86 degF	
Well Master 0631264521		API/UWI						Pore Press. Gradient	
Rig Name Frontier 10		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		3048.0		9.630	
						0.0		0.000	
Drilling Fluid Type Bentonite		Max. Density 10.00 lb/gal		Plastic Viscosity 7.000 cP		Tubing/Drill Pipe			
						Depth,		Size,	
						Weight,		Grade	
						Thread			
Service Line Cementing		Job Type 9 5/8 2 Stage Surface							
Max. Allowed Tub. Press 3000 psi		Max. Allowed Ann. Press 500 psi		WH Connection Single Cement head		Perforations/Open Hole			
						Top,		Bottom,	
								No. of Shots	
								Total Interval	
Service Instructions 9 5/8 2 Stage Surface								Diameter	
						Treat Down Casing		Displacement 233.0 bbl	
						Packer Type		Packer Depth	
						Tubing Vol.		Casing Vol. 234.0 bbl	
						Annular Vol. 153.0 bbl		Openhole Vol. 411.0 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 1508 psi				Shoe Type Float		Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 3048.0 ft		Tool Type			
No. Centralizers		Top Plugs		Bottom Plugs		Stage Tool Type DV		Tool Depth	
Cement Head Type Single				Stage Tool Depth 1295.0 ft		Tail Pipe Size			
Job Scheduled For Mar/25/2011 15:00		Arrived on Location Mar/25/2011 15:00		Leave Location Mar/26/2011 02:00		Collar Type Float		Tail Pipe Depth	
						Collar Depth 3018.0 ft		Seq. Total Vol.	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/H	Density LB/G	Volume BBL	Message			
01/01/1970	00:00:02					Started Acquisition			
03/25/2011	16:52:15					Pump 9 5/8 2 Stage @ 3048'			
03/25/2011	16:52:15	1	0.0	8.35	0.0				
03/25/2011	16:52:16					First Stage			
03/25/2011	16:52:16					20 bbl Water			
03/25/2011	16:52:16					222 bbl (728 sks) 12.8 Slurry			
03/25/2011	16:52:16					Displace 233 bbl Mud			
03/25/2011	16:52:16					Second Stage			
03/25/2011	16:52:16	1	0.0	8.35	0.0				
03/25/2011	16:52:17					20 bbl Water			
03/25/2011	16:52:17					217 bbl (712 sks) 12.8 ppg Slurry			
03/25/2011	16:52:17					Displace 100 bbl Water			
03/25/2011	16:52:17	0	0.0	8.35	0.0				
03/25/2011	16:52:20					Start Job			
03/25/2011	16:52:20	0	0.0	8.35	0.0				
03/25/2011	16:52:22					Held Safety Meeting			
03/25/2011	16:52:22	1	0.0	8.35	0.0				
03/25/2011	16:52:24					Pressure Test Lines			
03/25/2011	16:52:24	0	0.0	8.35	0.0				
03/25/2011	16:52:25					Low Test = Good			
03/25/2011	16:52:25	0	0.0	8.35	0.0				

Well RG 622-14-298 RG 622-14-298			Field Ryan Gulch	Job Start Mar/25/2011	Customer Williams	Job Number B708-00419
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
03/25/2011	16:52:26	0	0.0	8.35	0.0	
03/25/2011	16:52:28					High Test = Good
03/25/2011	16:52:28					20 bbl Water
03/25/2011	16:52:28					Good Returns
03/25/2011	16:52:28	0	0.0	8.35	0.0	
03/25/2011	16:52:32	1	0.0	8.35	0.0	
03/25/2011	16:55:02	17	0.0	8.35	1.0	
03/25/2011	16:57:32	144	1.2	8.35	1.4	
03/25/2011	17:00:02	580	0.0	8.35	3.6	
03/25/2011	17:02:32	2918	0.0	8.35	3.6	
03/25/2011	17:05:02	114	1.9	8.35	4.5	
03/25/2011	17:07:32	418	5.8	8.35	18.2	
03/25/2011	17:10:02	515	5.9	12.56	32.8	
03/25/2011	17:10:06					Reset Total, Vol = 33.24 bbl
03/25/2011	17:10:06	467	5.9	12.57	33.2	
03/25/2011	17:10:08					Start Mixing Scav Slurry
03/25/2011	17:10:08	475	5.9	12.58	33.4	
03/25/2011	17:10:09					222 bbl (728 sks) 12.8 Slurry
03/25/2011	17:10:09					Take Wet and Dry Sample
03/25/2011	17:10:09					Sample = 12.8 ppg
03/25/2011	17:10:09	500	5.9	12.58	33.5	
03/25/2011	17:10:39					Good Returns
03/25/2011	17:10:39	473	5.9	12.72	36.5	
03/25/2011	17:12:32	601	7.8	12.87	49.1	
03/25/2011	17:13:36					End Scavenger Slurry
03/25/2011	17:13:36	595	7.8	12.99	57.5	
03/25/2011	17:13:38					Start Mixing Lead Slurry
03/25/2011	17:13:38	603	7.9	12.99	57.8	
03/25/2011	17:15:02	551	7.9	12.96	68.8	
03/25/2011	17:17:32	507	7.9	12.99	88.6	
03/25/2011	17:20:02	543	7.9	12.95	108.4	
03/25/2011	17:22:32	599	7.9	13.09	128.2	
03/25/2011	17:25:02	573	7.9	12.94	147.9	
03/25/2011	17:27:32	573	7.9	12.92	167.7	
03/25/2011	17:30:02	583	7.8	12.92	187.4	
03/25/2011	17:32:32	533	7.9	12.94	207.1	
03/25/2011	17:35:02	510	8.0	12.81	227.1	
03/25/2011	17:36:57					Reset Total, Vol = 208.88 bbl
03/25/2011	17:36:57	574	7.9	13.18	242.1	
03/25/2011	17:36:58					End Lead Slurry
03/25/2011	17:36:58	574	7.9	13.27	242.3	
03/25/2011	17:37:01					Drop Top Plug
03/25/2011	17:37:01	608	7.9	13.24	242.6	
03/25/2011	17:37:02					Start Displacement
03/25/2011	17:37:02	608	7.9	13.24	242.8	
03/25/2011	17:37:04					Displace 233 bbl Mud
03/25/2011	17:37:04					Good Returns
03/25/2011	17:37:04	618	7.9	13.20	243.0	
03/25/2011	17:37:32	553	7.8	12.99	246.7	
03/25/2011	17:40:02	389	25.0	2.60	263.8	
03/25/2011	17:42:32	420	25.0	1.46	326.3	
03/25/2011	17:45:02	88	2.7	8.56	348.7	
03/25/2011	17:47:32	148	3.4	8.90	357.0	
03/25/2011	17:50:02	190	3.7	8.48	365.5	

Well RG 622-14-298 RG 622-14-298			Field Ryan Gulch		Job Start Mar/25/2011		Customer Williams		Job Number B708-00419	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
03/25/2011	17:55:02	343	7.8	8.37	385.8					
03/25/2011	17:57:32	261	5.9	9.36	396.4					
03/25/2011	18:00:02	411	7.8	9.46	415.5					
03/25/2011	18:02:32	260	5.9	9.45	434.0					
03/25/2011	18:05:02	120	3.4	9.45	443.8					
03/25/2011	18:07:32	116	3.2	9.42	452.2					
03/25/2011	18:10:02	105	2.6	9.42	459.5					
03/25/2011	18:12:32	475	7.3	9.19	474.6					
03/25/2011	18:15:02	558	7.3	9.17	492.9					
03/25/2011	18:17:32	621	7.3	9.14	511.1					
03/25/2011	18:20:02	690	7.2	9.13	529.2					
03/25/2011	18:22:32	506	4.2	9.13	543.3					
03/25/2011	18:25:02	543	4.3	8.41	553.9					
03/25/2011	18:27:32	412	3.4	8.37	564.6					
03/25/2011	18:30:02	446	2.0	8.35	569.8					
03/25/2011	18:32:32	455	2.0	8.35	574.9					
03/25/2011	18:35:02	480	2.0	8.36	580.0					
03/25/2011	18:37:32	954	0.0	8.36	581.8					
03/25/2011	18:40:02	2	0.0	8.36	581.8					
03/25/2011	18:41:57					Bump Top Plug				
03/25/2011	18:41:57	2	0.0	8.37	581.8					
03/25/2011	18:41:59					End Displacement				
03/25/2011	18:41:59	3	0.0	8.37	581.8					
03/25/2011	18:42:04					Bump Plug to 1000 psi				
03/25/2011	18:42:04	3	0.0	8.37	581.8					
03/25/2011	18:42:05					Bled Off Pressure				
03/25/2011	18:42:05					Floats Held				
03/25/2011	18:42:05	3	0.0	8.37	581.8					
03/25/2011	18:42:06					Wait 10 Minutes				
03/25/2011	18:42:06	3	0.0	8.37	581.8					
03/25/2011	23:06:38					Start Second Stage				
03/25/2011	23:06:38					Held Safety Meeting				
03/25/2011	23:06:38	2	0.0	8.34	0.0					
03/25/2011	23:06:41					Pressure Test Lines				
03/25/2011	23:06:41	2	0.0	8.34	0.0					
03/25/2011	23:06:42					Low Test = Good				
03/25/2011	23:06:42	2	0.0	8.35	0.0					
03/25/2011	23:06:43					Pressure Test Lines				
03/25/2011	23:06:43	2	0.0	8.35	0.0					
03/25/2011	23:06:45					High Test = Good				
03/25/2011	23:06:45	2	0.0	8.34	0.0					
03/25/2011	23:06:46					20 bbl Water				
03/25/2011	23:06:46					Good Returns				
03/25/2011	23:06:46	2	0.0	8.34	0.0					
03/25/2011	23:07:32	2	0.0	8.34	0.0					
03/25/2011	23:10:02	622	0.0	8.34	3.0					
03/25/2011	23:12:32	2406	0.0	8.34	3.0					
03/25/2011	23:15:02	52	1.5	8.34	4.9					
03/25/2011	23:17:32	260	5.2	8.34	15.6					
03/25/2011	23:19:17					Reset Total, Vol = 24.72 bbl				
03/25/2011	23:19:17	339	4.8	12.85	24.7					
03/25/2011	23:19:19					Start Mixing Scav Slurry				
03/25/2011	23:19:19	252	4.8	12.85	24.9					
03/25/2011	23:19:20					217 bbl (712 sks) 12.8 ppg Slurry				

Well RG 622-14-298 RG 622-14-298			Field Ryan Gulch		Job Start Mar/25/2011		Customer Williams		Job Number B708-00419	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
03/25/2011	23:19:20					Sample = 12.8 ppg				
03/25/2011	23:19:20	356	4.8	12.85	25.0					
03/25/2011	23:19:21					Good Returns				
03/25/2011	23:19:21	309	4.8	12.85	25.0					
03/25/2011	23:20:02	247	4.7	12.71	28.2					
03/25/2011	23:21:16					End Scavenger Slurry				
03/25/2011	23:21:16	265	4.8	12.83	34.0					
03/25/2011	23:21:17					Start Mixing Tail Slurry				
03/25/2011	23:21:17	265	4.8	12.83	34.1					
03/25/2011	23:22:32	245	4.8	12.63	40.2					
03/25/2011	23:25:02	339	6.8	12.84	53.6					
03/25/2011	23:27:32	252	5.5	12.54	69.2					
03/25/2011	23:30:02	317	6.1	12.63	84.0					
03/25/2011	23:32:32	297	6.2	12.81	99.3					
03/25/2011	23:35:02	320	6.0	12.89	115.6					
03/25/2011	23:37:32	378	6.0	12.86	130.8					
03/25/2011	23:40:02	387	6.0	12.91	145.8					
03/25/2011	23:42:32	388	6.0	12.87	160.8					
03/25/2011	23:45:02	403	6.0	12.90	175.7					
03/25/2011	23:47:32	413	5.9	12.84	190.6					
03/25/2011	23:50:02	398	5.9	12.84	205.4					
03/25/2011	23:50:32					End Tail Slurry				
03/25/2011	23:50:32	365	5.9	12.86	208.4					
03/25/2011	23:50:33					Reset Total, Vol = 183.78 bbl				
03/25/2011	23:50:33	359	5.9	12.84	208.5					
03/25/2011	23:50:35					Drop Top Plug				
03/25/2011	23:50:35	361	5.9	12.83	208.7					
03/25/2011	23:50:36					Start Displacement				
03/25/2011	23:50:36	360	5.9	12.83	208.8					
03/25/2011	23:50:38					100 bbl Water				
03/25/2011	23:50:38					Good Returns				
03/25/2011	23:50:38	360	5.9	12.82	209.0					
03/25/2011	23:52:32	25	0.0	14.64	217.4					
03/25/2011	23:55:02	65	0.0	14.46	217.4					
03/25/2011	23:57:32	86	0.0	14.48	217.4					
03/26/2011	00:00:02	210	4.0	8.89	224.9					
03/26/2011	00:02:32	229	4.2	9.68	232.8					
03/26/2011	00:05:02	219	4.1	9.56	243.4					
03/26/2011	00:07:32	309	3.9	8.36	253.4					
03/26/2011	00:10:02	269	3.9	8.35	263.3					
03/26/2011	00:12:32	325	3.9	8.35	273.1					
03/26/2011	00:13:09					100 bbl Cement Back to Surface				
03/26/2011	00:13:09	320	3.8	8.35	275.5					
03/26/2011	00:15:02	298	3.8	8.34	282.7					
03/26/2011	00:17:32	238	1.3	8.34	290.1					
03/26/2011	00:20:02	251	1.3	8.35	293.4					
03/26/2011	00:22:32	298	1.3	8.35	296.7					
03/26/2011	00:25:02	310	1.0	8.35	299.4					
03/26/2011	00:27:32	269	1.0	8.35	301.9					
03/26/2011	00:30:02	304	1.0	8.35	304.4					
03/26/2011	00:32:32	260	1.0	8.35	306.9					
03/26/2011	00:35:02	339	1.0	8.35	309.5					
03/26/2011	00:37:32	346	1.0	8.35	312.0					
03/26/2011	00:40:02	285	1.0	8.35	314.5					

Well			Field		Job Start	Customer		Job Number	
RG 622-14-298 RG 622-14-298			Ryan Gulch		Mar/25/2011	Williams		B708-00419	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BSL	Message			
03/26/2011	00:45:02	356	1.0	8.35	319.6				
03/26/2011	00:47:32	307	1.0	8.35	322.1				
03/26/2011	00:50:02	1267	0.0	8.35	324.1				
03/26/2011	00:52:32	1259	0.0	8.36	324.1				
03/26/2011	00:54:25					Bump Top Plug			
03/26/2011	00:54:25	5	0.0	8.36	324.1				
03/26/2011	00:54:26					End Displacement			
03/26/2011	00:54:26	5	0.0	8.36	324.1				
03/26/2011	00:54:27					Bump Plug to 1400 psi			
03/26/2011	00:54:27					Bled Off Pressure			
03/26/2011	00:54:27	5	0.0	8.36	324.1				
03/26/2011	00:54:28					DV Tool Closed			
03/26/2011	00:54:28					Rig Down			
03/26/2011	00:54:28	5	0.0	8.36	324.1				
03/26/2011	00:54:30					End Job			

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 4.9	N2	Mud 0.0	Maximum Rate 25.0		Total Slurry 324.1	Mud 0.0	Spacer 0.0	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3204	Final 1400	Average 346	Bump Plug to 1000	Breakdown	Type FreshWater	Volume 640.0 bbl	Density 8.34 lb/gal	
Avg. N2 Percent		Designed Slurry Volume 486.0 bbl	Displacement 115.5 bbl	Mix Water Temp 45 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume	
Customer or Authorized Representative Brent Bascom			Schlumberger Supervisor Tom Leduc		Washed Thru Perfs <input type="checkbox"/>		To	
					Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>	
					-		-	

03/26/2011 01:58:05

Schlumberger Cementing Qa/Qc Density Report

Well	RG 622-14-298	Client	Williams
Field	Ryan Gulch	SIR No.	
Engineer	Tom Leduc	Job Type	9 5/8 2 Stage Surface
Country	United States	Job Date	03-25-2011

