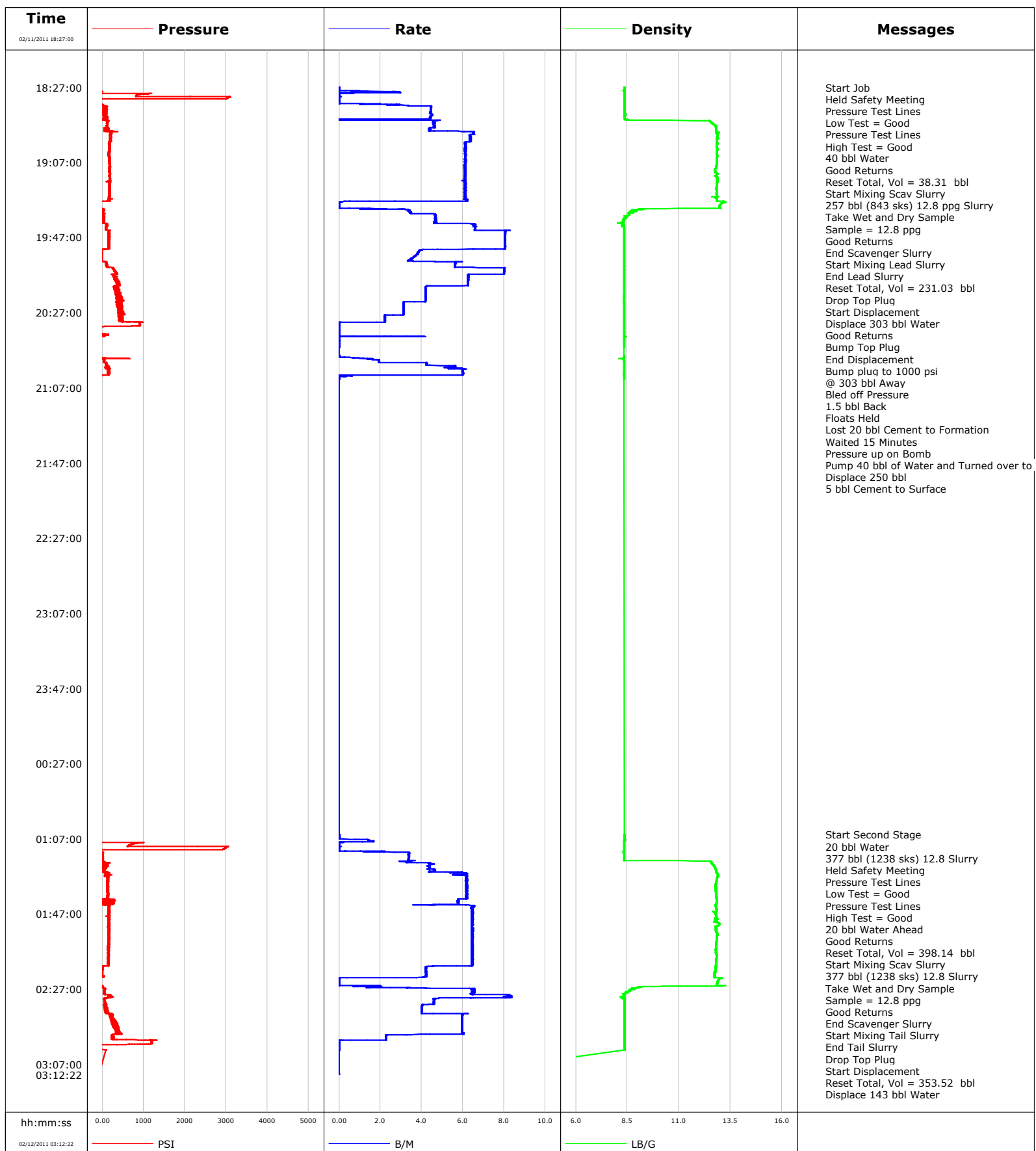


Well RGU 334-24-198
Field Ryan Gulch
Engineer Tom Leduc
Country United States

Client Williams
SIR No.
Job Type 9 5/8" 2-Stage Surface
Job Date 02-11-2011



Cementing Service Report

					Customer		Job Number	
					Williams		B708-00235	
Well			Location (legal)		Schlumberger Location			Job Start
RGU 334-24-198 RGU 334-24-198			Rio Blanco		Grand Junction			Feb/11/2011
Field		Formation Name/Type		Deviation	Bit Size		Well MD	Well TVD
Ryan Gulch		Shale		0 deg	13.5 in		3952.0 ft	3952.0 ft
County		State/Province		BHP	BHST	BHCT	Pore Press. Gradient	
Rio Blanco		Colorado						
Well Master		API/UWI			120 degF	99 degF		
Rig Name	Drilled For	Service Via	Casing/Liner					
Cyclone 29	Gas	Land	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Offshore Zone	Well Class	Well Type	3952.0	9.630	36.0	J-55	8rd	
	New	Development	0.0	0.000	0.0			
Drilling Fluid Type		Max. Density	Plastic Viscosity	Tubing/Drill Pipe				
Bentonite		9.00 lb/gal	7.000 cP	Depth,	Size,	Weight,	Grade	Thread
Service Line	Job Type							
Cementing	9 5/8" 2-Stage Surface							
Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection		Perforations/Open Hole				
5000 psi	2000 psi	Single Cement head		Top,	Bottom,		No. of Shots	Total Interval
Service Instructions 9 5/8" 2-Stage Surface								
Treat Down		Displacement		Packer Type		Packer Depth		
Casing		303.0 bbl						
Tubing Vol.		Casing Vol.		Annular Vol.		Openhole Vol.		
		303.0 bbl		183.0 bbl		517.0 bbl		
Casing/Tubing Secured		1 Hole Vol. Circulated prior to Cement	Casing Tools					
<input checked="" type="checkbox"/>	1 Hole Vol. Circulated prior to Cement	<input checked="" type="checkbox"/>				Squeeze Job		
Lift Pressure		1955 psi		Shoe Type		Float	Squeeze Type	
Pipe Rotated		<input type="checkbox"/>	Pipe Reciprocated		<input type="checkbox"/>	Shoe Depth		3952.0 ft
No. Centralizers		Top Plugs	Bottom Plugs	Stage Tool Type			Tool Depth	
Cement Head Type				Stage Tool Depth			Tail Pipe Size	
Single								
Job Scheduled For		Arrived on Location	Leave Location	Collar Type		Float	Tail Pipe Depth	
Feb/11/2011 14:00		Feb/11/2011 14:00	Feb/12/2011 03:00	Collar Depth		3924.0 ft	Sqz. Total Vol.	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
02/11/2011	18:26:54					Pump 9 5/8 2-Stage @ 3952'		
02/11/2011	18:26:54					First Stage 40 bbl Water		
02/11/2011	18:26:54					257 bbl (843 sks) 12.8 ppg Slurry		
02/11/2011	18:26:54					Displace 303 bbl Water		
02/11/2011	18:26:54					Second Stage		
02/11/2011	18:26:54					20 bbl Water		
02/11/2011	18:26:54					377 bbl (1238 sks) 12.8 Slurry		
02/11/2011	18:26:55					Displace 143 bbl Water		
02/11/2011	18:27:00	-81	0.0	8.38	0.0			
02/11/2011	18:27:04					Start Job		
02/11/2011	18:27:04	-82	0.0	8.38	0.0			
02/11/2011	18:27:06					Held Safety Meeting		
02/11/2011	18:27:06	-82	0.0	8.38	0.0			
02/11/2011	18:27:07					Pressure Test Lines		
02/11/2011	18:27:07	-82	0.0	8.38	0.0			
02/11/2011	18:27:08					Low Test = Good		
02/11/2011	18:27:08	-82	0.0	8.38	0.0			
02/11/2011	18:27:10					Pressure Test Lines		
02/11/2011	18:27:10	-82	0.0	8.38	0.0			
02/11/2011	18:27:11					High Test = Good		
02/11/2011	18:27:11	-82	0.0	8.38	0.0			

Well			Field		Job Start		Customer		Job Number	
RGU 334-24-198 RGU 334-24-198			Ryan Gulch		Feb/11/2011		Williams		B708-00235	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
02/11/2011	18:27:13	-82	0.0	8.38	0.0					
02/11/2011	18:27:46					Good Returns				
02/11/2011	18:27:46	-82	0.0	8.38	0.0					
02/11/2011	18:29:24	-17	2.7	8.36	0.5					
02/11/2011	18:31:54	819	0.0	8.37	2.2					
02/11/2011	18:34:24	-73	0.0	8.37	2.3					
02/11/2011	18:36:54	9	3.4	8.37	4.7					
02/11/2011	18:39:24	15	4.4	8.37	15.7					
02/11/2011	18:41:54	15	4.5	8.38	26.9					
02/11/2011	18:44:24	-19	0.0	8.52	37.2					
02/11/2011	18:44:54					Reset Total, Vol = 38.31 bbl				
02/11/2011	18:44:54	94	4.7	12.46	38.3					
02/11/2011	18:44:58					Start Mixing Scav Slurry				
02/11/2011	18:44:58	109	4.6	12.45	38.6					
02/11/2011	18:45:00					257 bbl (843 sks) 12.8 ppg Slurry				
02/11/2011	18:45:00					Take Wet and Dry Sample				
02/11/2011	18:45:00					Sample = 12.8 ppg				
02/11/2011	18:45:00					Good Returns				
02/11/2011	18:45:00	144	4.6	12.46	38.8					
02/11/2011	18:45:34					End Scavenger Slurry				
02/11/2011	18:45:34	114	4.6	12.54	41.4					
02/11/2011	18:45:35					Start Mixing Lead Slurry				
02/11/2011	18:45:35	114	4.6	12.54	41.5					
02/11/2011	18:46:54	117	4.6	12.67	47.5					
02/11/2011	18:49:24	45	4.4	12.81	58.9					
02/11/2011	18:51:54	201	6.5	12.85	72.7					
02/11/2011	18:54:24	189	6.3	12.91	88.7					
02/11/2011	18:56:54	185	6.1	12.86	104.4					
02/11/2011	18:59:24	167	6.1	12.82	119.7					
02/11/2011	19:01:54	158	6.1	12.83	135.0					
02/11/2011	19:04:24	160	6.1	12.85	150.3					
02/11/2011	19:06:54	179	6.1	12.83	165.6					
02/11/2011	19:09:24	174	6.1	12.81	180.9					
02/11/2011	19:11:54	176	6.1	12.77	196.2					
02/11/2011	19:14:24	170	6.1	12.77	211.4					
02/11/2011	19:16:54	182	6.1	12.87	226.7					
02/11/2011	19:19:24	181	6.1	12.83	242.0					
02/11/2011	19:21:54	169	6.1	12.81	257.2					
02/11/2011	19:23:49					End Lead Slurry				
02/11/2011	19:23:49	184	6.1	12.81	268.9					
02/11/2011	19:23:53					Reset Total, Vol = 231.03 bbl				
02/11/2011	19:23:53	167	6.1	12.81	269.3					
02/11/2011	19:23:54					Drop Top Plug				
02/11/2011	19:23:54	167	6.1	12.81	269.4					
02/11/2011	19:23:56					Start Displacement				
02/11/2011	19:23:56	178	6.1	12.81	269.7					
02/11/2011	19:23:57					Displace 303 bbl Water				
02/11/2011	19:23:57					Good Returns				
02/11/2011	19:23:57	167	6.1	12.81	269.8					
02/11/2011	19:24:24	165	6.1	12.84	272.5					
02/11/2011	19:26:54	164	6.2	12.82	287.8					
02/11/2011	19:29:24	-72	0.0	13.01	293.9					
02/11/2011	19:31:54	-34	1.5	9.20	294.5					
02/11/2011	19:34:24	12	3.5	8.64	302.7					

Well			Field		Job Start		Customer		Job Number	
RGU 334-24-198 RGU 334-24-198			Ryan Gulch		Feb/11/2011		Williams		B708-00235	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
02/11/2011	19:39:24	41	4.6	8.04	326.0					
02/11/2011	19:41:54	96	6.6	8.34	341.7					
02/11/2011	19:44:24	154	8.0	8.34	360.0					
02/11/2011	19:46:54	144	8.0	8.35	380.1					
02/11/2011	19:49:24	164	8.0	8.34	400.1					
02/11/2011	19:51:54	149	8.0	8.34	420.2					
02/11/2011	19:54:24	-13	3.9	8.34	436.1					
02/11/2011	19:56:54	-14	3.7	8.34	445.6					
02/11/2011	19:59:24	-14	3.4	8.34	454.4					
02/11/2011	20:01:54	109	5.6	8.34	467.5					
02/11/2011	20:04:24	294	8.0	8.34	484.8					
02/11/2011	20:06:54	272	6.3	8.34	504.3					
02/11/2011	20:09:24	309	6.3	8.34	519.9					
02/11/2011	20:11:54	389	6.3	8.33	535.5					
02/11/2011	20:14:24	316	4.2	8.34	547.9					
02/11/2011	20:16:54	352	4.2	8.33	558.3					
02/11/2011	20:19:24	466	4.2	8.33	568.8					
02/11/2011	20:21:54	377	3.1	8.34	578.6					
02/11/2011	20:24:24	483	3.1	8.34	586.4					
02/11/2011	20:26:54	423	3.1	8.34	594.2					
02/11/2011	20:29:24	477	2.2	8.34	601.0					
02/11/2011	20:31:54	490	2.2	8.34	606.5					
02/11/2011	20:34:24	215	0.0	8.34	607.1					
02/11/2011	20:35:18					Bump Top Plug				
02/11/2011	20:35:18	-79	0.0	8.34	607.1					
02/11/2011	20:35:19					End Displacement				
02/11/2011	20:35:19	-79	0.0	8.34	607.1					
02/11/2011	20:35:21					Bump plug to 1000 psi				
02/11/2011	20:35:21					@ 303 bbl Away				
02/11/2011	20:35:21					Bled off Pressure				
02/11/2011	20:35:21					1.5 bbl Back				
02/11/2011	20:35:21	-80	0.0	8.34	607.1					
02/11/2011	20:35:22					Floats Held				
02/11/2011	20:35:22					Lost 20 bbl Cement to Formation				
02/11/2011	20:35:22	-79	0.0	8.34	607.1					
02/11/2011	20:36:54	-78	0.0	8.34	607.1					
02/11/2011	20:39:24	-59	0.0	8.34	607.2					
02/11/2011	20:41:54	-83	0.0	8.35	607.9					
02/11/2011	20:44:24	-81	0.0	8.35	607.9					
02/11/2011	20:49:53					Waited 15 Minutes				
02/11/2011	20:49:53	-80	0.0	8.35	607.9					
02/11/2011	20:49:54					Pressure up on Bomb				
02/11/2011	20:49:54					Pump 40 bbl of Water and Turned over to Rig				
02/11/2011	20:49:54					Displace 250 bbl				
02/11/2011	20:49:54	-81	0.0	8.35	607.9					
02/11/2011	20:51:54	62	1.4	8.32	609.0					
02/11/2011	20:54:24	88	4.2	8.34	615.4					
02/11/2011	20:56:54	146	5.3	8.34	628.3					
02/11/2011	20:59:24	151	6.0	8.33	643.3					
02/11/2011	21:01:54	-83	0.0	8.34	648.7					
02/11/2011	21:02:35					5 bbl Cement to Surface				
02/11/2011	21:02:35	-83	0.0	8.34	648.7					
02/12/2011	01:04:40					Start Second Stage				
02/12/2011	01:04:40	-137	0.0	8.37	648.7					

Well RGU 334-24-198 RGU 334-24-198			Field Ryan Gulch		Job Start Feb/11/2011	Customer Williams	Job Number B708-00235
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
02/12/2011	01:04:41					377 bbl (1238 sks) 12.8 Slurry	
02/12/2011	01:04:41	-138	0.0	8.37	648.7		
02/12/2011	01:04:43					Held Safety Meeting	
02/12/2011	01:04:43	-138	0.0	8.37	648.7		
02/12/2011	01:04:45					Pressure Test Lines	
02/12/2011	01:04:45	-138	0.0	8.37	648.7		
02/12/2011	01:04:46					Low Test = Good	
02/12/2011	01:04:46	-138	0.0	8.37	648.7		
02/12/2011	01:04:47					Pressure Test Lines	
02/12/2011	01:04:47	-138	0.0	8.37	648.7		
02/12/2011	01:04:49					High Test = Good	
02/12/2011	01:04:49	-138	0.0	8.37	648.7		
02/12/2011	01:04:50					20 bbl Water Ahead	
02/12/2011	01:04:50	-137	0.0	8.37	648.7		
02/12/2011	01:04:52					Good Returns	
02/12/2011	01:04:52	-138	0.0	8.37	648.7		
02/12/2011	01:06:54	-138	0.0	8.37	648.8		
02/12/2011	01:09:24	837	0.0	8.35	650.8		
02/12/2011	01:11:54	2973	0.0	8.35	650.9		
02/12/2011	01:14:24	-8	3.4	8.35	652.8		
02/12/2011	01:16:54	3	3.4	8.35	661.2		
02/12/2011	01:18:45					Reset Total, Vol = 398.14 bbl	
02/12/2011	01:18:45	-2	3.6	11.08	667.5		
02/12/2011	01:18:47					Start Mixing Scav Slurry	
02/12/2011	01:18:47	-23	3.5	11.85	667.6		
02/12/2011	01:18:49					377 bbl (1238 sks) 12.8 Slurry	
02/12/2011	01:18:49	-20	3.5	12.35	667.7		
02/12/2011	01:18:50					Take Wet and Dry Sample	
02/12/2011	01:18:50					Sample = 12.8 ppg	
02/12/2011	01:18:50					Good Returns	
02/12/2011	01:18:50	-24	3.4	12.45	667.8		
02/12/2011	01:19:24	2	3.2	12.55	669.6		
02/12/2011	01:20:00					End Scavenger Slurry	
02/12/2011	01:20:00	150	4.4	12.60	672.0		
02/12/2011	01:20:02					Start Mixing Tail Slurry	
02/12/2011	01:20:02	47	4.4	12.60	672.2		
02/12/2011	01:21:54	20	4.4	12.72	680.4		
02/12/2011	01:24:24	-24	4.5	12.80	691.6		
02/12/2011	01:26:54	121	6.2	12.88	706.1		
02/12/2011	01:29:24	127	6.2	12.82	721.6		
02/12/2011	01:31:54	118	6.2	12.78	737.0		
02/12/2011	01:34:24	126	6.2	12.78	752.5		
02/12/2011	01:36:54	142	6.2	12.81	767.9		
02/12/2011	01:39:24	204	5.8	12.82	783.2		
02/12/2011	01:41:54	214	5.8	12.80	797.7		
02/12/2011	01:44:24	153	6.4	12.82	813.3		
02/12/2011	01:46:54	171	6.5	12.79	829.4		
02/12/2011	01:49:24	134	6.4	12.76	845.6		
02/12/2011	01:51:54	153	6.5	12.95	861.7		
02/12/2011	01:54:24	152	6.4	12.78	877.8		
02/12/2011	01:56:54	163	6.5	12.83	894.0		
02/12/2011	01:59:24	162	6.5	12.83	910.1		
02/12/2011	02:01:54	143	6.5	12.81	926.3		
02/12/2011	02:04:24	156	6.4	12.79	942.4		

Well			Field		Job Start		Customer		Job Number	
RGU 334-24-198 RGU 334-24-198			Ryan Gulch		Feb/11/2011		Williams		B708-00235	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
02/12/2011	02:09:24	153	6.5	12.81	974.7					
02/12/2011	02:11:54	145	6.4	12.81	990.8					
02/12/2011	02:14:24	147	6.5	12.80	1006.9					
02/12/2011	02:16:54	-10	4.2	12.77	1018.1					
02/12/2011	02:17:32					End Tail Slurry				
02/12/2011	02:17:32	-7	4.2	12.77	1020.7					
02/12/2011	02:17:33					Drop Top Plug				
02/12/2011	02:17:33	-2	4.2	12.77	1020.8					
02/12/2011	02:17:34					Start Displacement				
02/12/2011	02:17:34	-13	4.2	12.77	1020.9					
02/12/2011	02:17:36					Reset Total, Vol = 353.52 bbl				
02/12/2011	02:17:36	-22	4.2	12.76	1021.0					
02/12/2011	02:17:37					Displace 143 bbl Water				
02/12/2011	02:17:37					Partial Returns				
02/12/2011	02:17:37	-22	4.2	12.76	1021.1					
02/12/2011	02:19:24	-3	4.2	12.72	1028.6					
02/12/2011	02:21:54	-126	0.0	12.93	1034.7					
02/12/2011	02:24:24	-109	0.0	12.85	1034.7					
02/12/2011	02:26:54	55	6.5	8.84	1039.7					
02/12/2011	02:29:24	38	6.4	8.41	1056.0					
02/12/2011	02:31:54	56	4.6	8.33	1074.9					
02/12/2011	02:34:24	74	4.6	8.38	1086.4					
02/12/2011	02:36:54	106	4.0	8.38	1096.9					
02/12/2011	02:39:24	125	4.0	8.38	1107.0					
02/12/2011	02:41:54	186	6.0	8.38	1120.7					
02/12/2011	02:44:24	217	6.0	8.38	1135.6					
02/12/2011	02:46:54	360	6.0	8.38	1150.5					
02/12/2011	02:49:24	396	5.9	8.38	1165.4					
02/12/2011	02:51:54	219	2.3	8.38	1177.6					
02/12/2011	02:54:24	1199	0.0	8.38	1182.8					
02/12/2011	02:56:54	-124	0.0	8.38	1182.8					
02/12/2011	02:59:24	89	0.0	8.38	1182.8					

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl								
Slurry 13.9	N2	Mud 0.0	Maximum Rate 25.0	Total Slurry 1182.8	Mud 0.0	Spacer 41.4	N2						
Treating Pressure Summary, psi					Breakdown Fluid								
Maximum 3098	Final 1400	Average 135	Bump Plug to 1000	Breakdown	Type FreshWater	Volume 1135.0 bbl	Density 8.34 lb/gal						
Avg. N2 Percent		Designed Slurry Volume 630.0 bbl		Displacement 499.8 bbl		Mix Water Temp 65 degF		Cement Circulated to Surface?		<input type="checkbox"/>	Volume		
								Washed Thru Perfs		<input type="checkbox"/>	To		
Customer or Authorized Representative Joe Honeycutt				Schlumberger Supervisor Tom Leduc				Circulation Lost		<input checked="" type="checkbox"/>	Job Completed		<input checked="" type="checkbox"/>
								-		-			