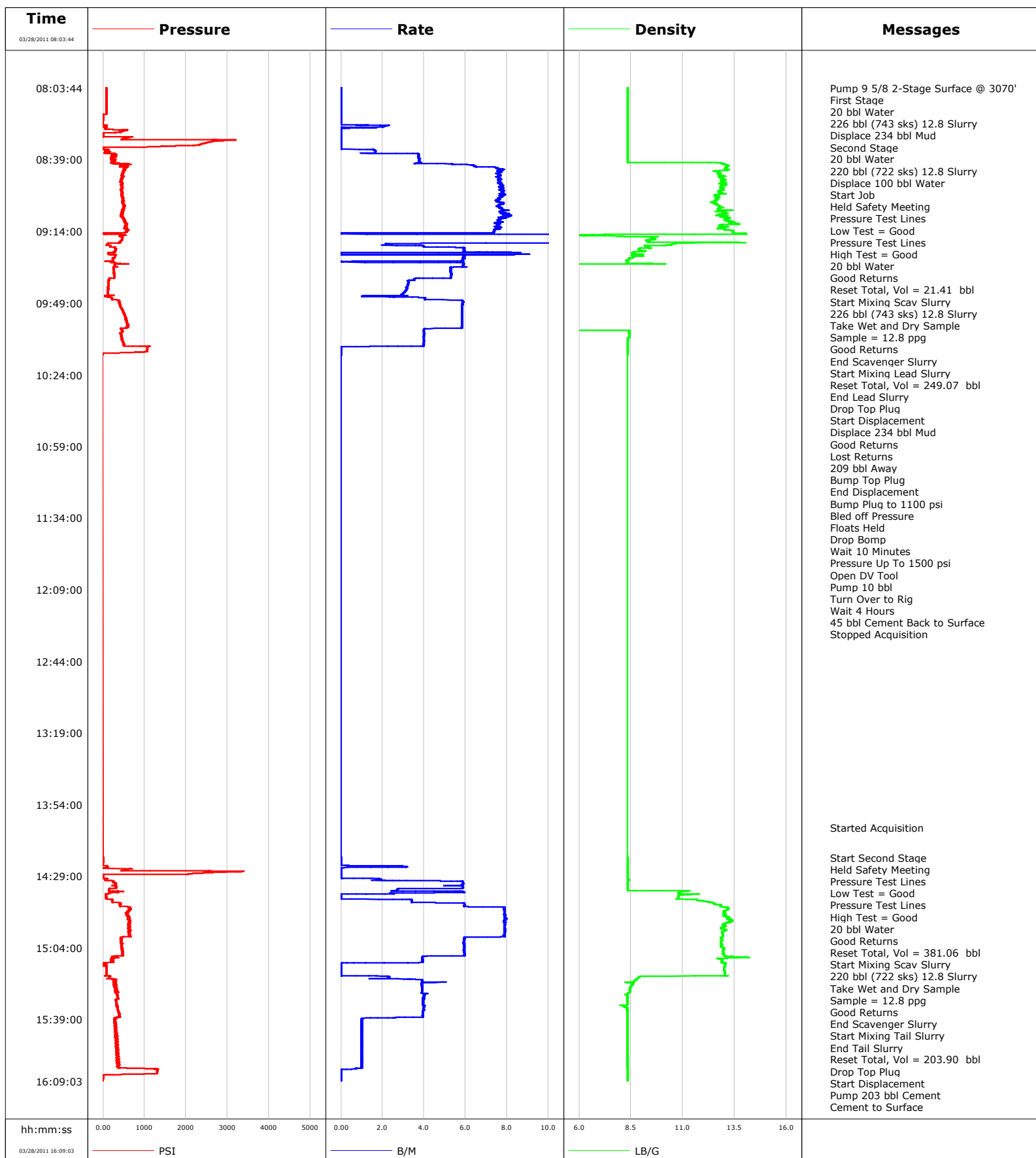


Well RG 433-14-298
Field Ryan Gulch
Engineer Tom Leduc
Country United States

Client Williams
SIR No.
Job Type 9 5/8" 2-Stage Surface
Job Date 03-28-2011





Cementing Service Report

				Customer Williams		Job Number B708-00426		
Well RG 433-14-298 RG 433-14-298			Location (legal) Rio Blanco		Schlumberger Location Grand Junction		Job Start Mar/28/2011	
Field Ryan Gulch		Formation Name/Type Shale		Deviation 0 deg	Bit Size 13.5 in	Well MD 3070.0 ft		Well TVD 3070.0 ft
County Rio Blanco		State/Province Colorado		BHP	BHST 113 degF	BHCT 95 degF	Pore Press. Gradient	
Well Master 0631264713		API/UWI						
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	3070.0	9.630	36.0	J55	8rd	
			0.0	0.000	0.0			
Drilling Fluid Type Bentonite		Max. Density 9.40 lb/gal	Plastic Viscosity 10.000 cP	Tubing/Drill Pipe				
				Depth,	Size,	Weight,	Grade	Thread
Service Line Cementing	Job Type 9 5/8" 2-Stage Surface							
Max. Allowed Tub. Press 5000 psi	Max. Allowed Ann. Press 2000 psi	WH Connection Single Cement head	Perforations/Open Hole					
			Top,	Bottom,		No. of Shots	Total Interval	
							Diameter	
Service Instructions 9 5/8" 2-Stage Surface				Treat Down Casing	Displacement 234.0 bbl	Packer Type	Packer Depth	
				Tubing Vol.	Casing Vol. 234.0 bbl	Annular Vol. 155.0 bbl	Openhole Vol. 415.0 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 1519 psi				Shoe Type Float		Squeeze Type		
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 3070.0 ft		Tool Type		
No. Centralizers		Top Plugs	Bottom Plugs	Stage Tool Type DV		Tool Depth		
Cement Head Type Single				Stage Tool Depth 1294.0 ft		Tail Pipe Size		
Job Scheduled For Mar/28/2011 07:00		Arrived on Location Mar/28/2011 07:00	Leave Location Mar/28/2011 16:00	Collar Type Float		Tail Pipe Depth		
				Collar Depth 3025.0 ft		Sqz. Total Vol.		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
03/28/2011	08:03:44	72	0.0	8.34	0.0			
03/28/2011	08:03:45					Pump 9 5/8 2-Stage Surface @ 3070'		
03/28/2011	08:03:45	72	0.0	8.34	0.0			
03/28/2011	08:03:46					First Stage		
03/28/2011	08:03:46					20 bbl Water		
03/28/2011	08:03:46					226 bbl (743 sks) 12.8 Slurry		
03/28/2011	08:03:46					Displace 234 bbl Mud		
03/28/2011	08:03:46					Second Stage		
03/28/2011	08:03:46	72	0.0	8.34	0.0			
03/28/2011	08:03:47					20 bbl Water		
03/28/2011	08:03:47					220 bbl (722 sks) 12.8 Slurry		
03/28/2011	08:03:47					Displace 100 bbl Water		
03/28/2011	08:03:47	72	0.0	8.34	0.0			
03/28/2011	08:03:49					Start Job		
03/28/2011	08:03:49	72	0.0	8.34	0.0			
03/28/2011	08:03:52					Held Safety Meeting		
03/28/2011	08:03:52	72	0.0	8.34	0.0			
03/28/2011	08:03:54					Pressure Test Lines		
03/28/2011	08:03:54	73	0.0	8.34	0.0			
03/28/2011	08:03:55					Low Test = Good		
03/28/2011	08:03:55	73	0.0	8.34	0.0			

Well RG 433-14-298 RG 433-14-298			Field Ryan Gulch		Job Start Mar/28/2011	Customer Williams	Job Number B708-00426
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
03/28/2011	08:03:57	72	0.0	8.34	0.0		
03/28/2011	08:03:59					High Test = Good	
03/28/2011	08:03:59	73	0.0	8.34	0.0		
03/28/2011	08:04:01					20 bbl Water	
03/28/2011	08:04:01					Good Returns	
03/28/2011	08:04:01	72	0.0	8.34	0.0		
03/28/2011	08:06:14	73	0.0	8.35	0.0		
03/28/2011	08:08:44	74	0.0	8.35	0.0		
03/28/2011	08:11:14	74	0.0	8.34	0.0		
03/28/2011	08:13:44	74	0.0	8.34	0.0		
03/28/2011	08:16:14	74	0.0	8.34	0.0		
03/28/2011	08:18:44	0	0.0	8.34	0.0		
03/28/2011	08:21:14	-4	0.0	8.34	0.0		
03/28/2011	08:23:44	54	0.0	8.34	2.4		
03/28/2011	08:26:14	3	0.0	8.34	2.4		
03/28/2011	08:28:44	496	0.0	8.34	2.4		
03/28/2011	08:31:14	2393	0.0	8.34	2.4		
03/28/2011	08:33:44	7	0.0	8.34	2.4		
03/28/2011	08:36:14	211	3.7	8.34	6.5		
03/28/2011	08:38:44	195	3.8	8.34	15.8		
03/28/2011	08:40:13					Reset Total, Vol = 21.41 bbl	
03/28/2011	08:40:13	208	3.7	8.35	21.4		
03/28/2011	08:40:14					Start Mixing Scav Slurry	
03/28/2011	08:40:14	230	3.7	8.35	21.5		
03/28/2011	08:40:16					226 bbl (743 sks) 12.8 Slurry	
03/28/2011	08:40:16					Take Wet and Dry Sample	
03/28/2011	08:40:16	216	3.8	8.35	21.6		
03/28/2011	08:40:17					Sample = 12.8 ppg	
03/28/2011	08:40:17					Good Returns	
03/28/2011	08:40:17	244	3.8	8.35	21.7		
03/28/2011	08:41:14	577	5.3	12.98	25.7		
03/28/2011	08:43:44	508	7.7	13.03	42.9		
03/28/2011	08:44:20					End Scavenger Slurry	
03/28/2011	08:44:20	497	7.6	12.91	47.5		
03/28/2011	08:44:21					Start Mixing Lead Slurry	
03/28/2011	08:44:21	513	7.5	12.80	47.6		
03/28/2011	08:46:14	486	7.6	12.80	61.9		
03/28/2011	08:48:44	436	7.7	13.03	81.0		
03/28/2011	08:51:14	459	7.7	13.05	100.1		
03/28/2011	08:53:44	419	7.8	12.92	119.5		
03/28/2011	08:56:14	455	7.8	12.55	138.9		
03/28/2011	08:58:44	488	7.5	12.61	158.1		
03/28/2011	09:01:14	499	7.6	12.70	177.2		
03/28/2011	09:03:44	465	8.0	13.39	196.4		
03/28/2011	09:06:14	453	8.0	12.63	216.0		
03/28/2011	09:08:44	531	7.6	13.22	235.5		
03/28/2011	09:11:14	539	7.5	12.74	254.5		
03/28/2011	09:13:21					Reset Total, Vol = 249.07 bbl	
03/28/2011	09:13:21	591	7.4	13.25	270.5		
03/28/2011	09:13:22					End Lead Slurry	
03/28/2011	09:13:22	591	7.4	13.30	270.6		
03/28/2011	09:13:23					Drop Top Plug	
03/28/2011	09:13:23	572	7.4	13.30	270.7		
03/28/2011	09:13:24					Start Displacement	

Well RG 433-14-298 RG 433-14-298			Field Ryan Gulch		Job Start Mar/28/2011	Customer Williams	Job Number B708-00426
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
03/28/2011	09:13:26					Displace 234 bbl Mud	
03/28/2011	09:13:26					Good Returns	
03/28/2011	09:13:26	592	7.4	13.36	271.1		
03/28/2011	09:13:44	609	7.4	13.43	273.3		
03/28/2011	09:16:14	437	25.0	7.24	301.3		
03/28/2011	09:18:44	428	22.8	9.41	362.8		
03/28/2011	09:21:14	170	4.0	9.23	391.4		
03/28/2011	09:23:44	294	5.9	9.09	405.1		
03/28/2011	09:26:14	289	5.9	8.70	415.8		
03/28/2011	09:28:44	160	0.0	8.35	429.6		
03/28/2011	09:31:14	286	5.9	0.01	441.8		
03/28/2011	09:33:44	259	5.3	0.01	455.2		
03/28/2011	09:36:14	266	5.3	0.01	468.4		
03/28/2011	09:38:44	122	3.3	0.02	478.3		
03/28/2011	09:41:14	120	3.2	0.02	486.4		
03/28/2011	09:43:44	116	3.1	0.02	494.2		
03/28/2011	09:46:14	187	3.4	0.02	500.5		
03/28/2011	09:48:44	391	5.9	0.02	512.9		
03/28/2011	09:51:14	432	5.8	0.03	527.5		
03/28/2011	09:53:44	492	5.8	0.03	542.1		
03/28/2011	09:56:14	541	5.8	0.03	556.7		
03/28/2011	09:58:44	571	5.8	0.03	571.2		
03/28/2011	10:01:14	561	5.8	0.03	585.8		
03/28/2011	10:03:44	420	4.0	8.43	596.2		
03/28/2011	10:05:22					Lost Returns	
03/28/2011	10:05:22	438	4.0	8.43	602.7		
03/28/2011	10:05:28					209 bbl Away	
03/28/2011	10:05:28	438	4.0	8.42	603.1		
03/28/2011	10:06:14	455	4.0	8.35	606.2		
03/28/2011	10:08:44	488	4.0	8.35	616.2		
03/28/2011	10:11:14	1069	0.0	8.35	621.9		
03/28/2011	10:13:44	-3	0.0	8.35	621.9		
03/28/2011	14:19:54					Start Second Stage	
03/28/2011	14:19:54	0	0.0	8.34	621.9		
03/28/2011	14:19:55					Held Safety Meeting	
03/28/2011	14:19:55	-0	0.0	8.34	621.9		
03/28/2011	14:19:57					Pressure Test Lines	
03/28/2011	14:19:57	0	0.0	8.34	621.9		
03/28/2011	14:19:58					Low Test = Good	
03/28/2011	14:19:58	0	0.0	8.34	621.9		
03/28/2011	14:20:00					Pressure Test Lines	
03/28/2011	14:20:00	-0	0.0	8.34	621.9		
03/28/2011	14:20:01					High Test = Good	
03/28/2011	14:20:01	-0	0.0	8.34	621.9		
03/28/2011	14:20:02					20 bbl Water	
03/28/2011	14:20:02	0	0.0	8.34	621.9		
03/28/2011	14:20:03					Good Returns	
03/28/2011	14:20:03	0	0.0	8.34	621.9		
03/28/2011	14:21:14	0	0.0	8.34	621.9		
03/28/2011	14:23:44	2	0.0	8.34	621.9		
03/28/2011	14:26:14	470	0.0	8.34	624.4		
03/28/2011	14:28:44	7	0.0	8.34	624.4		
03/28/2011	14:31:14	97	2.6	8.37	626.7		
03/28/2011	14:33:44	316	5.7	8.35	640.9		

Well			Field		Job Start	Customer	Job Number
RG 433-14-298 RG 433-14-298			Ryan Gulch		Mar/28/2011	Williams	B708-00426
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
03/28/2011	14:36:06	137	2.6	10.94	651.5		
03/28/2011	14:36:10					Start Mixing Scav Slurry	
03/28/2011	14:36:10	132	2.5	11.31	651.7		
03/28/2011	14:36:11					220 bbl (722 sks) 12.8 Slurry	
03/28/2011	14:36:11	132	2.5	11.31	651.7		
03/28/2011	14:36:12					Take Wet and Dry Sample	
03/28/2011	14:36:12					Sample = 12.8 ppg	
03/28/2011	14:36:12					Good Returns	
03/28/2011	14:36:12	138	2.4	11.25	651.8		
03/28/2011	14:36:14	239	2.9	11.21	651.9		
03/28/2011	14:38:44	71	0.0	10.79	658.6		
03/28/2011	14:41:14	226	3.4	11.99	661.7		
03/28/2011	14:43:44	410	5.9	12.83	674.6		
03/28/2011	14:46:14	629	7.9	12.97	693.8		
03/28/2011	14:48:44	596	7.9	13.17	713.5		
03/28/2011	14:49:48					End Scavenger Slurry	
03/28/2011	14:49:48	614	8.0	13.13	722.0		
03/28/2011	14:49:49					Start Mixing Tail Slurry	
03/28/2011	14:49:49	614	8.0	13.13	722.1		
03/28/2011	14:51:14	648	7.9	13.27	733.3		
03/28/2011	14:53:44	643	7.9	13.01	753.0		
03/28/2011	14:56:14	649	7.9	12.90	772.7		
03/28/2011	14:58:44	456	6.5	12.88	792.4		
03/28/2011	15:01:14	438	5.9	12.84	807.2		
03/28/2011	15:03:44	443	5.9	12.88	822.0		
03/28/2011	15:06:14	461	5.9	12.96	836.9		
03/28/2011	15:08:44	290	3.9	14.06	850.4		
03/28/2011	15:09:58					End Tail Slurry	
03/28/2011	15:09:58	241	3.9	12.89	855.2		
03/28/2011	15:10:02					Reset Total, Vol = 203.90 bbl	
03/28/2011	15:10:02	200	3.9	12.90	855.4		
03/28/2011	15:10:03					Drop Top Plug	
03/28/2011	15:10:03	229	3.9	12.90	855.5		
03/28/2011	15:10:04					Start Displacement	
03/28/2011	15:10:04	229	3.9	12.90	855.6		
03/28/2011	15:10:05					Pump 203 bbl Cement	
03/28/2011	15:10:05	242	3.9	12.90	855.6		
03/28/2011	15:10:06					Cement to Surface	
03/28/2011	15:10:06	242	3.9	12.88	855.7		
03/28/2011	15:10:08					Displace 100 bbl Water	
03/28/2011	15:10:08					100 bbl Cement to Surface	
03/28/2011	15:10:08	217	3.9	12.88	855.8		
03/28/2011	15:10:11					Good Returns	
03/28/2011	15:10:11	225	3.9	12.89	856.0		
03/28/2011	15:11:14	214	3.9	12.87	860.2		
03/28/2011	15:13:44	78	0.0	13.00	860.6		
03/28/2011	15:16:14	81	0.0	13.01	860.6		
03/28/2011	15:18:44	158	2.2	8.85	862.8		
03/28/2011	15:21:14	262	3.9	8.60	871.6		
03/28/2011	15:23:44	285	3.9	8.44	881.4		
03/28/2011	15:26:14	318	3.9	8.36	891.1		
03/28/2011	15:28:44	358	4.0	8.33	901.1		
03/28/2011	15:31:14	331	3.9	8.33	911.0		
03/28/2011	15:33:44	351	4.0	8.32	921.0		

Well			Field		Job Start	Customer	Job Number
RG 433-14-298 RG 433-14-298			Ryan Gulch		Mar/28/2011	Williams	B708-00426
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
03/28/2011	15:38:44	283	1.0	8.33	939.0		
03/28/2011	15:41:14	287	1.0	8.33	941.5		
03/28/2011	15:43:44	284	1.0	8.33	944.0		
03/28/2011	15:46:14	339	1.0	8.33	946.5		
03/28/2011	15:48:44	330	1.0	8.33	949.0		
03/28/2011	15:51:14	334	1.0	8.33	951.5		
03/28/2011	15:53:44	317	1.0	8.33	954.0		
03/28/2011	15:56:14	326	1.0	8.33	956.5		
03/28/2011	15:58:44	360	1.0	8.33	959.0		
03/28/2011	16:01:14	377	1.0	8.33	961.5		
03/28/2011	16:03:44	1306	0.0	8.34	963.4		
03/28/2011	16:06:14	3	0.0	8.34	963.4		
03/28/2011	16:08:44	-0	0.0	8.34	963.4		
03/28/2011	16:08:55					Bump Top Plug	
03/28/2011	16:08:55	-1	0.0	8.34	963.4		
03/28/2011	16:08:56					End Displacement	
03/28/2011	16:08:56	-1	0.0	8.34	963.4		
03/28/2011	16:08:57					Bump Plug to 1400 psi	
03/28/2011	16:08:57					DV Tool Closed	
03/28/2011	16:08:57					Bled off Pressure	
03/28/2011	16:08:57	-0	0.0	8.34	963.4		
03/28/2011	16:08:58					Tool Held	
03/28/2011	16:08:58					Rig Down	
03/28/2011	16:08:58	-0	0.0	8.34	963.4		
03/28/2011	16:09:01					End Job	

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl									
Slurry 5.2	N2	Mud 0.0	Maximum Rate 25.0		Total Slurry 963.4	Mud 0.0	Spacer 47.6	N2						
Treating Pressure Summary, psi					Breakdown Fluid									
Maximum 3401	Final 1400	Average 375	Bump Plug to 1000	Breakdown	Type FreshWater	Volume 608.0 bbl	Density 8.34 lb/gal							
Avg. N2 Percent		Designed Slurry Volume 446.0 bbl		Displacement 459.2 bbl		Mix Water Temp 40 degF		Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume				
								Washed Thru Perfs	<input type="checkbox"/>	To				
Customer or Authorized Representative Brent Bascom						Schlumberger Supervisor Tom Leduc				Circulation Lost		<input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>
										-		-		