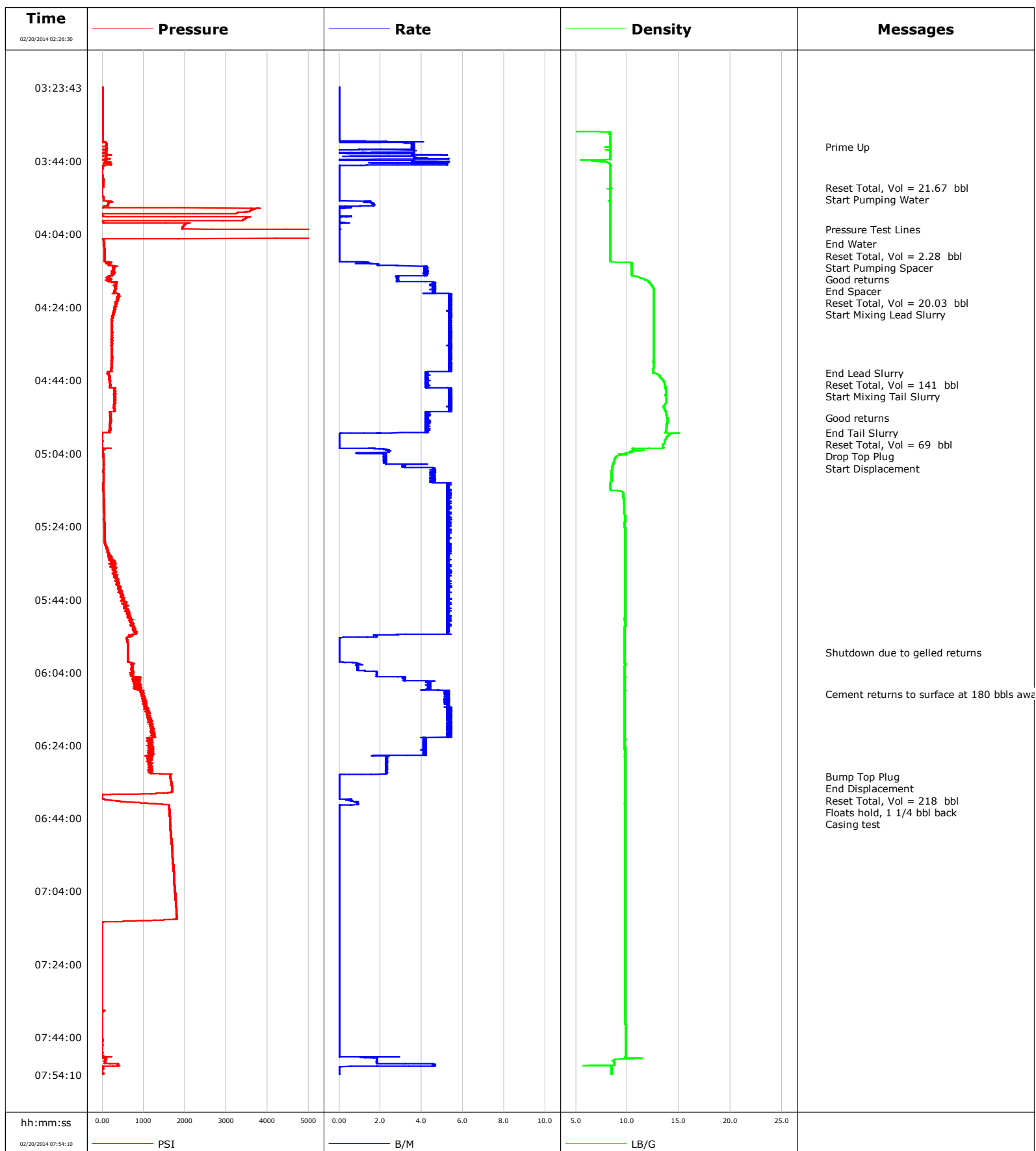


Well RAZOR FEDERAL 26J-2310B
Field WILDCAT
Engineer William Smith
Country United States

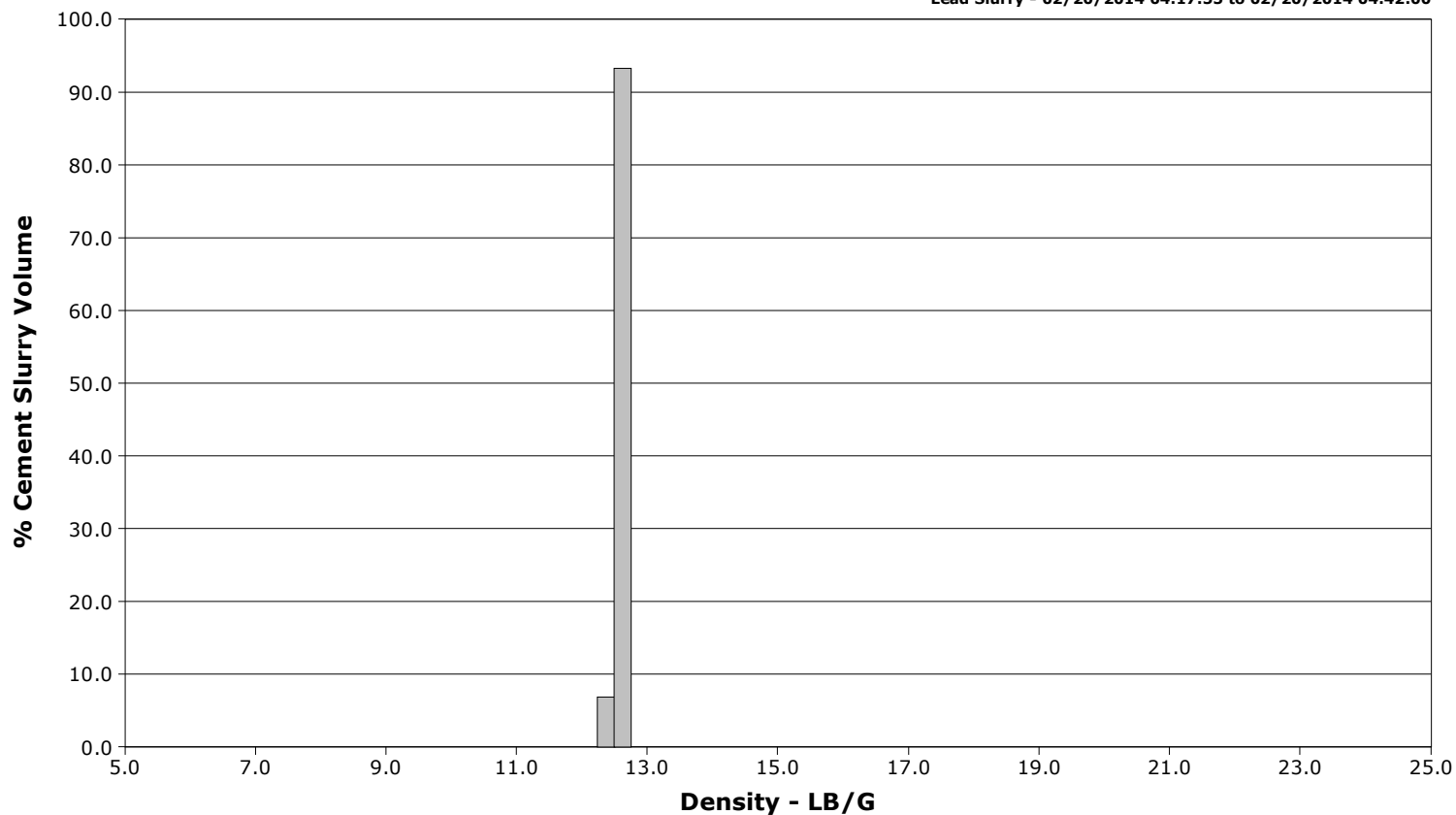
Client WHITING OIL GAS
SIR No. 191110
Job Type INTERMEDIATE
Job Date 02-20-2014



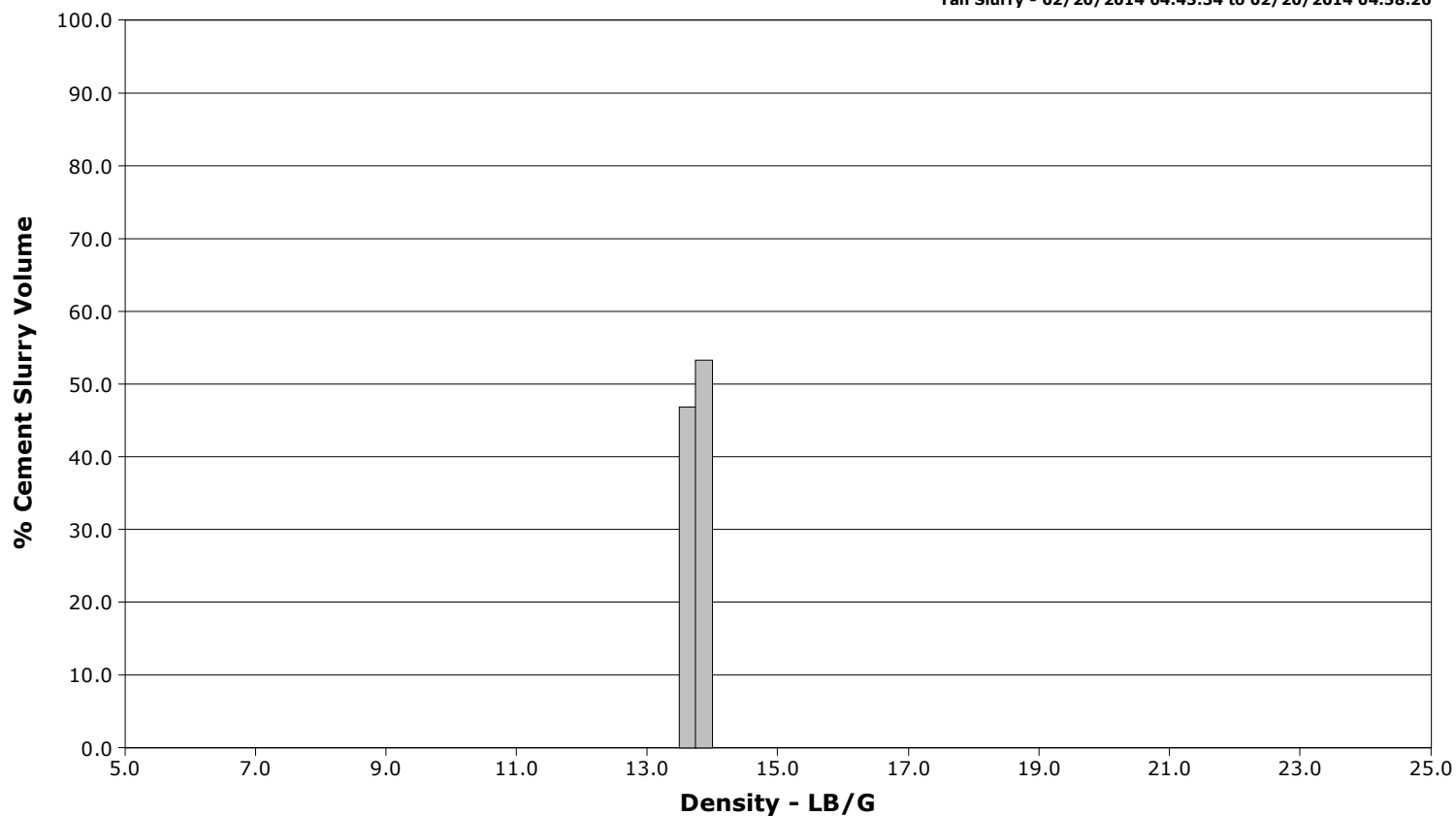
Well RAZOR FEDERAL 26J-2310B
Field WILDCAT
Engineer William Smith
Country United States

Client WHITING OIL GAS
SIR No. 191110
Job Type INTERMEDIATE
Job Date 02-20-2014

Lead Slurry - 02/20/2014 04:17:55 to 02/20/2014 04:42:00



Tail Slurry - 02/20/2014 04:45:34 to 02/20/2014 04:58:26



Cementing Service Report

				Customer WHITING OIL & GAS		Job Number 191110	
Well RAZOR FEDERAL 26J-2310B 26J-2310B			Location (legal)		Schlumberger Location Rock Springs, WY		Job Start Feb/20/2014
Field WILDCAT		Formation Name/Type		Deviation 0 deg	Bit Size 8.8 in	Well MD 6013.8 ft	Well TVD ft
County WELD		State/Province COLORADO		BHP psi	BHST 200 degF	BHCT 162 degF	Pore Press. Gradient lb/gal
Well Master 0631496879		API/UWI					
Rig Name XTREME 18		Drilled For Oil & Gas		Service Via Land		Casing/Liner	
				Depth, ft	Size, in	Weight, lb/ft	Grade
Offshore Zone		Well Class New		Well Type Development			
				6013.8	7.0	29.0	HCL-80
				0.0	0.0	0.0	
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe	
Service Line Cementing		Job Type INTERMEDIATE		T/D	Depth, ft	Size, in	Weight, lb/ft
Max. Allowed Tub. Press 5000 psi		Max. Allowed Ann. Press psi		WH Connection Single Cement head		Perforations/Open Hole	
Service Instructions				Top, ft	Bottom, ft	shot/ft	No. of Shots
				ft	ft		
				ft	ft		
				ft	ft		
				Treat Down Casing	Displacement 221.6 bbl	Packer Type	Packer Depth ft
				Tubing Vol. bbl	Casing Vol. 223.4 bbl	Annular Vol. bbl	Openhole Vol. 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 1183 psi				Shoe Type Float		Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 6013.6 ft		Tool Type	
No. Centralizers 24		Top Plugs 1		Bottom Plugs		Stage Tool Type	
						Tool Depth ft	
Cement Head Type				Stage Tool Depth ft		Tail Pipe Size in	
Job Scheduled For Feb/19/2014 20:30		Arrived on Location Feb/19/2014 20:30		Leave Location Feb/20/2014		Collar Type Float	
						Collar Depth 5965.7 ft	
						Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
02/20/2014	02:26:30	10	0.0	0.01	2.4	Started Acquisition	
02/20/2014	02:35:30	10	0.0	0.01	2.4		
02/20/2014	02:38:30	10	0.0	0.01	2.4		
02/20/2014	02:41:30	10	0.0	0.01	2.4		
02/20/2014	02:44:30	9	0.0	0.01	2.4		
02/20/2014	02:47:30	10	0.0	0.01	2.4		
02/20/2014	02:50:30	10	0.0	0.01	2.4		
02/20/2014	02:53:30	10	0.0	0.01	2.4		
02/20/2014	02:56:30	10	0.0	0.01	2.4		
02/20/2014	02:59:30	10	0.0	0.01	2.4		
02/20/2014	03:02:30	11	0.0	0.01	2.4		
02/20/2014	03:05:30	11	0.0	0.01	2.4		
02/20/2014	03:08:30	10	0.0	0.01	2.4		
02/20/2014	03:11:30	11	0.0	0.01	2.4		
02/20/2014	03:17:30	11	0.0	0.01	2.4		
02/20/2014	03:20:30	11	0.0	0.01	2.4		
02/20/2014	03:26:30	11	0.0	0.01	2.4		
02/20/2014	03:29:30	11	0.0	0.01	2.4		
02/20/2014	03:32:30	10	0.0	0.01	2.4		
02/20/2014	03:35:30	9	0.0	0.01	2.4		
02/20/2014	03:38:30	7	0.0	8.37	2.4		

Well RAZOR FEDERAL 26J-2310B 26J-2310B			Field WILDCAT		Job Start Feb/20/2014		Customer WHITING OIL & GAS		Job Number 191110	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
02/20/2014	03:41:30	98	3.6	8.37	11.8					
02/20/2014	03:44:30	84	3.6	8.16	21.1					
02/20/2014	03:47:30	-1	0.0	8.37	24.1					
02/20/2014	03:50:30	23	0.0	8.37	24.1					
02/20/2014	03:51:15	8	0.0	8.36	24.1	Reset Total, Vol = 21.67 bbl				
02/20/2014	03:51:18	-15	0.0	8.32	24.1	Start Pumping Water				
02/20/2014	03:53:30	-13	0.0	8.37	0.0					
02/20/2014	03:56:30	29	0.0	8.37	2.1					
02/20/2014	03:59:30	3504	0.0	8.37	2.2					
02/20/2014	04:02:30	1937	0.0	8.37	2.3					
02/20/2014	04:02:43	4423	0.1	8.37	2.3	Pressure Test Lines				
02/20/2014	04:05:30	34	0.0	8.37	2.3					
02/20/2014	04:06:39	39	0.0	8.37	2.3	End Water				
02/20/2014	04:06:40	35	0.0	8.37	2.3	Reset Total, Vol = 2.28 bbl				
02/20/2014	04:08:30	50	0.0	8.37	2.3					
02/20/2014	04:10:59	51	0.0	8.37	2.3	Start Pumping Spacer				
02/20/2014	04:11:30	51	0.0	8.37	2.3					
02/20/2014	04:14:18	290	4.1	10.41	10.7	Good returns				
02/20/2014	04:14:30	293	4.2	10.41	11.5					
02/20/2014	04:17:25	331	4.6	12.18	21.7	End Spacer				
02/20/2014	04:17:30	314	4.6	12.21	22.1					
02/20/2014	04:17:33	311	4.5	12.23	22.3	Reset Total, Vol = 20.03 bbl				
02/20/2014	04:17:55	324	4.5	12.31	24.0	Start Mixing Lead Slurry				
02/20/2014	04:20:30	390	5.4	12.57	36.0					
02/20/2014	04:23:30	324	5.4	12.55	52.1					
02/20/2014	04:26:30	246	5.3	12.53	68.2					
02/20/2014	04:29:30	226	5.3	12.54	84.3					
02/20/2014	04:32:30	241	5.3	12.53	100.4					
02/20/2014	04:35:30	231	5.3	12.54	116.5					
02/20/2014	04:38:30	227	5.4	12.54	132.6					
02/20/2014	04:41:30	218	5.3	12.49	148.8					
02/20/2014	04:42:00	134	4.2	12.52	151.1	End Lead Slurry				
02/20/2014	04:44:20	184	4.3	13.52	161.0	Reset Total, Vol = 141 bbl				
02/20/2014	04:44:30	188	4.2	13.53	161.7					
02/20/2014	04:45:34	179	4.3	13.66	166.3	Start Mixing Tail Slurry				
02/20/2014	04:47:30	290	5.3	13.75	176.1					
02/20/2014	04:50:30	309	5.4	13.67	192.2					
02/20/2014	04:53:30	181	4.3	13.80	207.4					
02/20/2014	04:54:21	197	4.3	13.86	211.0	Good returns				
02/20/2014	04:56:30	188	4.3	13.80	220.2					
02/20/2014	04:58:26	5	3.0	13.66	228.4	End Tail Slurry				
02/20/2014	04:58:28	3	1.8	14.43	228.5	Reset Total, Vol = 69 bbl				
02/20/2014	04:59:12	-10	0.0	13.98	228.6	Drop Top Plug				
02/20/2014	04:59:13	-10	0.0	13.97	228.6	Start Displacement				
02/20/2014	04:59:30	-17	0.0	13.82	228.6					
02/20/2014	05:02:30	-13	0.0	13.44	228.6					
02/20/2014	05:05:30	25	2.2	8.79	234.6					
02/20/2014	05:08:30	28	4.5	8.53	243.5					
02/20/2014	05:11:30	28	4.5	8.44	257.1					
02/20/2014	05:14:30	24	5.2	9.46	272.5					
02/20/2014	05:17:30	34	5.3	9.64	288.3					
02/20/2014	05:20:30	37	5.3	9.69	304.0					
02/20/2014	05:23:30	45	5.2	9.76	319.8					
02/20/2014	05:26:30	51	5.2	9.77	335.6					

Well RAZOR FEDERAL 26J-2310B 26J-2310B			Field WILDCAT		Job Start Feb/20/2014	Customer WHITING OIL & GAS		Job Number 191110
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
02/20/2014	05:32:30	207	5.2	9.78	367.2			
02/20/2014	05:35:30	300	5.2	9.78	382.9			
02/20/2014	05:38:30	365	5.3	9.77	398.7			
02/20/2014	05:41:30	433	5.2	9.77	414.5			
02/20/2014	05:44:30	524	5.3	9.77	430.3			
02/20/2014	05:47:30	615	5.2	9.77	446.1			
02/20/2014	05:50:30	753	5.2	9.76	461.8			
02/20/2014	05:53:30	821	5.3	9.76	477.6			
02/20/2014	05:56:30	613	0.0	9.75	480.0			
02/20/2014	05:58:40	616	0.0	9.75	480.0	Shutdown due to gelled returns		
02/20/2014	05:59:30	617	0.0	9.76	480.0			
02/20/2014	06:02:30	717	0.9	9.76	481.1			
02/20/2014	06:05:30	772	3.2	9.76	485.9			
02/20/2014	06:08:30	888	4.4	9.76	498.0			
02/20/2014	06:10:00	982	5.3	9.76	505.6	Cement returns to surface at 180 bbls away		
02/20/2014	06:11:30	1023	5.3	9.76	513.5			
02/20/2014	06:14:30	1087	5.4	9.76	529.4			
02/20/2014	06:17:30	1196	5.3	9.76	545.4			
02/20/2014	06:20:30	1255	5.3	9.76	561.4			
02/20/2014	06:23:30	1111	4.2	9.76	575.5			
02/20/2014	06:26:30	1162	4.2	9.76	588.0			
02/20/2014	06:29:30	1155	2.3	9.77	595.4			
02/20/2014	06:32:34	1645	0.0	9.77	601.2	Bump Top Plug		
02/20/2014	06:32:35	1646	0.0	9.77	601.2	End Displacement		
02/20/2014	06:32:36	1646	0.0	9.77	601.2	Reset Total, Vol = 218 bbl		
02/20/2014	06:35:30	1683	0.0	9.77	601.2			
02/20/2014	06:38:30	-3	0.0	9.77	601.2			
02/20/2014	06:39:41	773	0.9	9.76	601.7	Floats hold, 1 1/4 bbl back		
02/20/2014	06:39:46	895	0.9	9.76	601.8	Casing test		
02/20/2014	06:41:30	1619	0.0	9.77	602.3			
02/20/2014	06:44:30	1637	0.0	9.77	602.3			
02/20/2014	06:47:30	1655	0.0	9.77	602.3			
02/20/2014	06:50:30	1674	0.0	9.77	602.3			
02/20/2014	06:53:30	1694	0.0	9.78	602.3			
02/20/2014	06:56:30	1713	0.0	9.78	602.3			
02/20/2014	06:59:30	1732	0.0	9.78	602.3			
02/20/2014	07:02:30	1751	0.0	9.78	602.3			
02/20/2014	07:05:30	1768	0.0	9.78	602.3			
02/20/2014	07:08:30	1786	0.0	9.79	602.3			
02/20/2014	07:11:30	1804	0.0	9.79	602.3			
02/20/2014	07:14:30	-7	0.0	9.79	602.3			
02/20/2014	07:17:30	-7	0.0	9.79	602.3			
02/20/2014	07:20:30	-7	0.0	9.79	602.3			
02/20/2014	07:23:30	-7	0.0	9.80	602.3			
02/20/2014	07:26:30	-7	0.0	9.80	602.3			
02/20/2014	07:29:30	-6	0.0	9.80	602.3			
02/20/2014	07:32:30	-6	0.0	9.80	602.3			
02/20/2014	07:35:30	-6	0.0	9.80	602.3			
02/20/2014	07:38:30	-10	0.0	9.81	602.3			
02/20/2014	07:41:30	-11	0.0	9.81	602.3			
02/20/2014	07:44:30	10	0.0	9.81	602.3			
02/20/2014	07:47:30	-12	0.0	9.81	602.3			
02/20/2014	07:50:30	58	1.8	8.61	604.2			

Well RAZOR FEDERAL 26J-2310B 26J-2310B	Field WILDCAT	Job Start Feb/20/2014	Customer WHITING OIL & GAS	Job Number 191110
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry 4.4	N2		Mud	Maximum Rate 5.4	Total Slurry 210.0	Mud 0.0		Spacer 20.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 5350	Final 15	Average 546	Bump Plug to 1680	Breakdown	Type		Volume bbl		Density lb/gal		
Avg. N2 Percent %		Designed Slurry Volume 209.0 bbl		Displacement 218.0 bbl		Mix Water Temp 48 degF		Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume 40.0 bbl	
								Washed Thru Perfs		<input type="checkbox"/>	To ft
Customer or Authorized Representative SHARP				Schlumberger Supervisor William Smith				Circulation Lost	<input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>
								-		-	