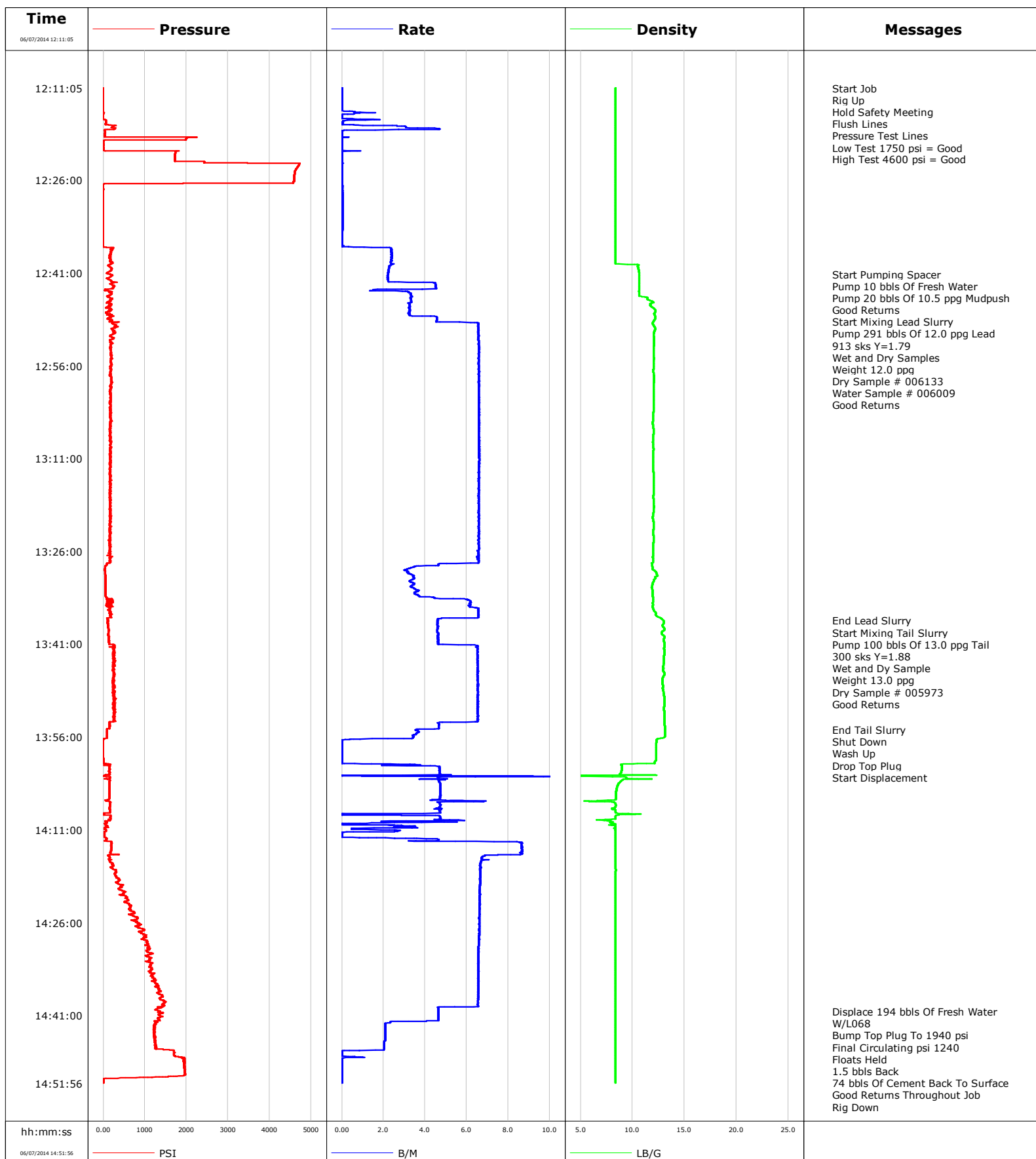


Well John Craig 4-2
Field Wildcat
Engineer Justin Zika/Leiker
Country United States

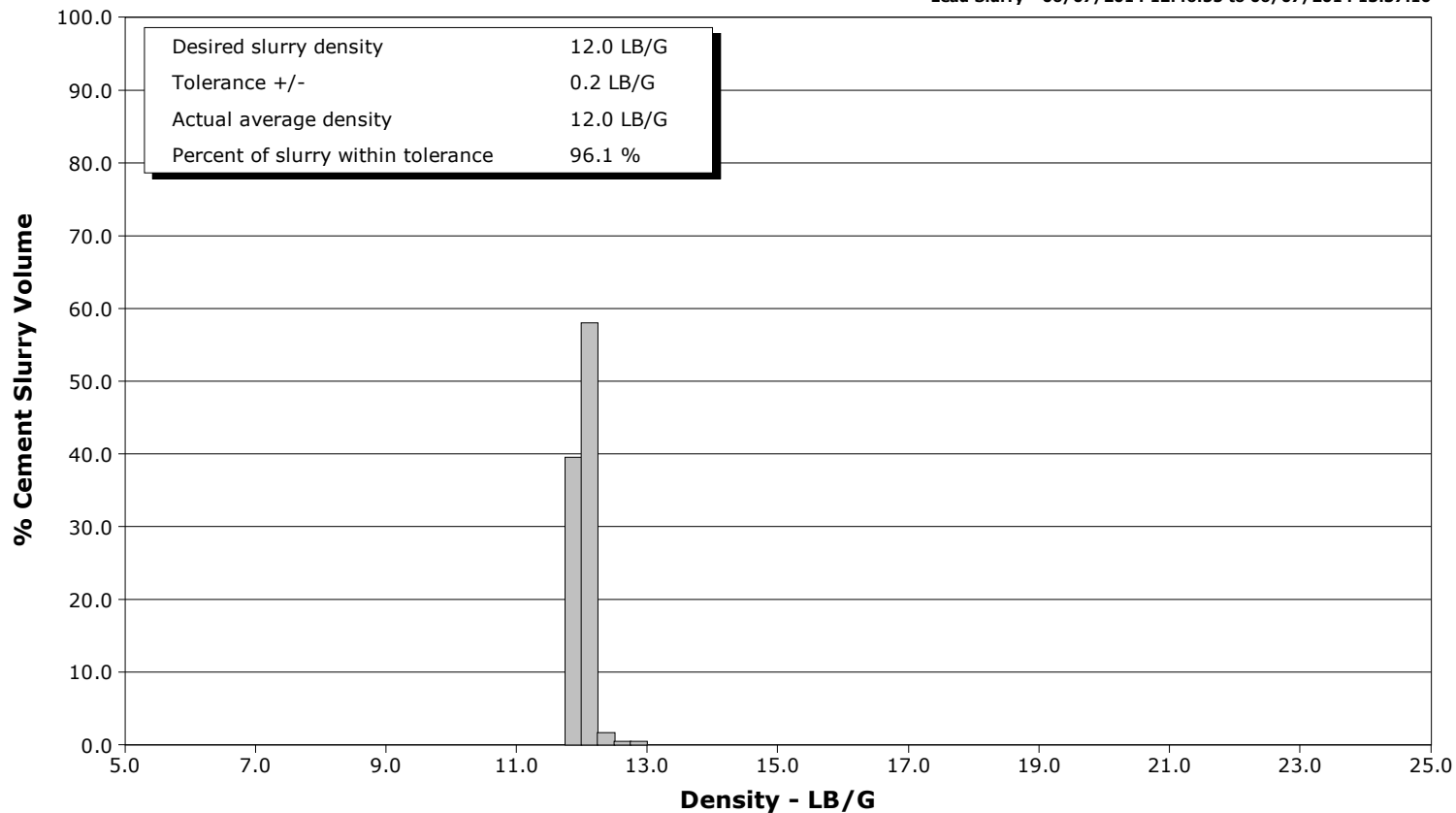
Client Nighthawk
SIR No.
Job Type Production
Job Date 06-07-2014



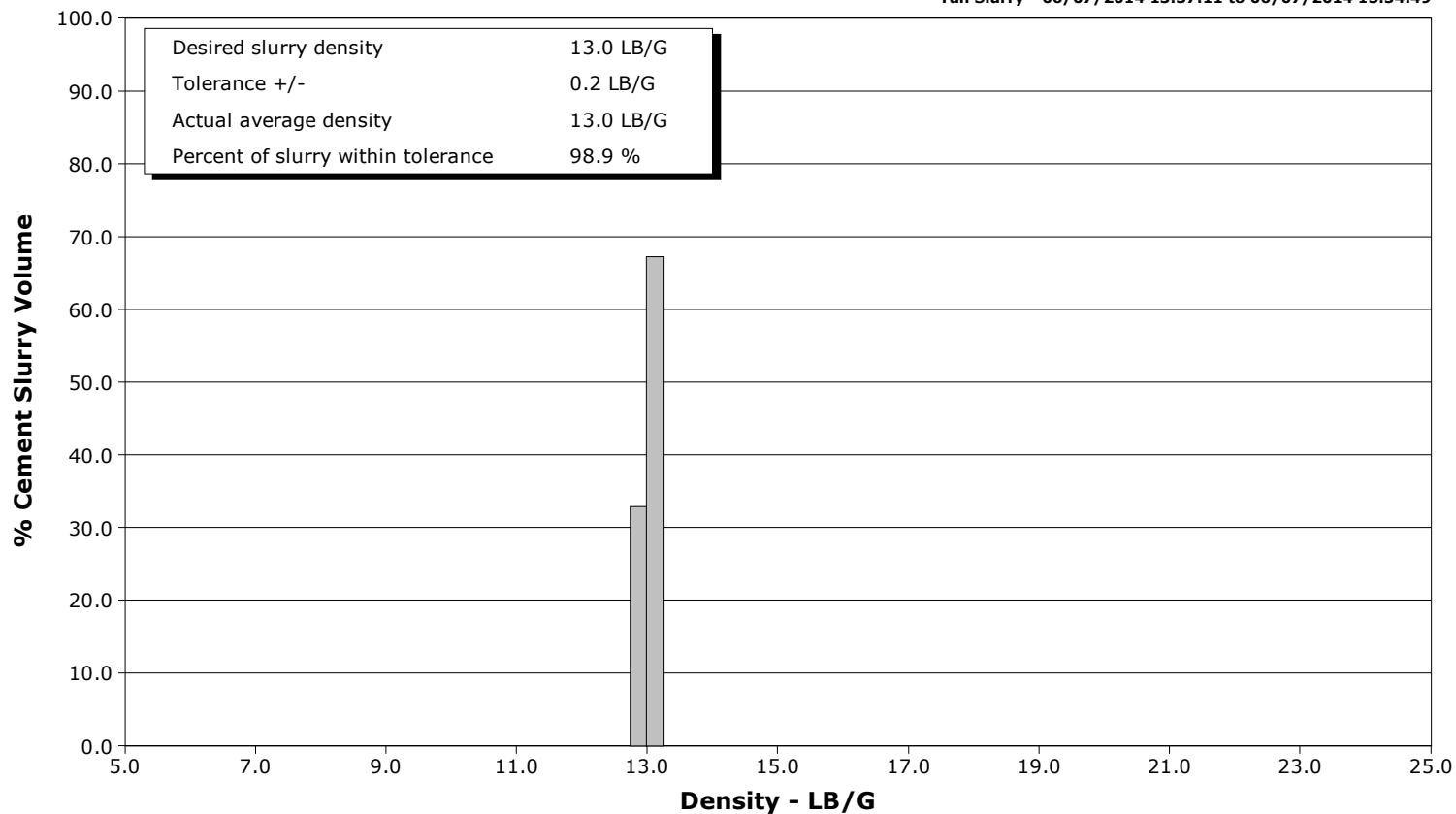
Well John Craig 4-2
Field Wildcat
Engineer Justin Zika/Leiker
Country United States

Client Nighthawk
SIR No.
Job Type Production
Job Date 06-07-2014

Lead Slurry - 06/07/2014 12:46:55 to 06/07/2014 13:37:10



Tail Slurry - 06/07/2014 13:37:11 to 06/07/2014 13:54:49



Cementing Service Report

				Customer Nighthawk		Job Number 1971578	
Well John Craig 4-2 4-2			Location (legal) Cheyenne,WY		Schlumberger Location Cheyenne, WY		Job Start Jun/07/2014
Field Wildcat		Formation Name/Type Shale		Deviation	Bit Size 7.9 in	Well MD 8432.0 ft	Well TVD 8432.0 ft
County Lincoln		State/Province Colorado		BHP	BHST 185 degF	BHCT 158 degF	Pore Press. Gradient
Well Master		API/UWI 631505912					
Rig Name Xtreme 11		Drilled For Oil		Service Via Land		Casing/Liner	
				Depth, ft	Size, in	Weight, lb/ft	Grade
							Thread
Offshore Zone		Well Class New		Well Type Development			
				8430.0	5.500	17.0	N80
				0.0	0.000	0.0	
Drilling Fluid Type		Max. Density		Plastic Viscosity		Tubing/Drill Pipe	
				Depth,	Size,	Weight,	Grade
							Thread
Service Line Cementing		Job Type Production					
Max. Allowed Tub. Press 5000 psi		Max. Allowed Ann. Press		WH Connection Single Cement head		Perforations/Open Hole	
				Top,	Bottom,	No. of Shots	Total Interval
							Diameter
				Treat Down Casing	Displacement 194.0 bbl	Packer Type	Packer Depth
				Tubing Vol.	Casing Vol. 196.0 bbl	Annular Vol. 281.0 bbl	Openhole Vol. 477.0 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 6032 psi				Shoe Type Float		Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 8430.0 ft		Tool Type	
No. Centralizers		Top Plugs 1		Bottom Plugs		Tool Depth	
Cement Head Type Single				Stage Tool Type		Tool Depth	
				Stage Tool Depth		Tail Pipe Size	
Job Scheduled For Jun/07/2014 10:00		Arrived on Location Jun/07/2014 10:00		Leave Location Jun/07/2014 16:00		Collar Type Float	
						Tail Pipe Depth	
				Collar Depth 8336.0 ft		Sqz. Total Vol.	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
06/07/2014	10:54:42					Started Acquisition	
06/07/2014	12:11:05	-3	0.0	8.37	0.0		
06/07/2014	12:11:07					Start Job	
06/07/2014	12:11:07	-3	0.0	8.37	0.0		
06/07/2014	12:11:08					Rig Up	
06/07/2014	12:11:08	-3	0.0	8.37	0.0		
06/07/2014	12:11:09					Hold Safety Meeting	
06/07/2014	12:11:09					Flush Lines	
06/07/2014	12:11:09	-3	0.0	8.37	0.0		
06/07/2014	12:11:15					Pressure Test Lines	
06/07/2014	12:11:15	-3	0.0	8.37	0.0		
06/07/2014	12:11:16					Low Test 1750 psi = Good	
06/07/2014	12:11:16	-3	0.0	8.37	0.0		
06/07/2014	12:11:17					High Test 4600 psi = Good	
06/07/2014	12:11:17	-3	0.0	8.37	0.0		
06/07/2014	12:11:22	-3	0.0	8.37	0.0		
06/07/2014	12:13:02	-3	0.0	8.36	0.0		
06/07/2014	12:14:42	-3	0.0	8.37	0.0		
06/07/2014	12:16:22	67	0.3	8.36	0.6		
06/07/2014	12:18:02	35	0.0	8.36	3.3		
06/07/2014	12:19:42	1	0.0	8.36	3.3		

Well			Field		Job Start		Customer		Job Number	
John Craig 4-2 4-2			Wildcat		Jun/07/2014		Nighthawk		1971578	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
06/07/2014	12:23:02	2432	0.0	8.36	3.3					
06/07/2014	12:24:42	4599	0.0	8.36	3.4					
06/07/2014	12:26:22	4568	0.0	8.36	3.4					
06/07/2014	12:28:02	-2	0.0	8.36	3.4					
06/07/2014	12:29:42	-3	0.0	8.36	3.4					
06/07/2014	12:31:22	-3	0.0	8.36	3.5					
06/07/2014	12:33:02	-3	0.0	8.36	3.5					
06/07/2014	12:34:42	0	0.0	8.36	3.5					
06/07/2014	12:36:22	-5	0.0	8.36	3.6					
06/07/2014	12:38:02	171	2.4	8.36	6.3					
06/07/2014	12:39:42	142	2.4	10.57	10.3					
06/07/2014	12:41:12					Start Pumping Spacer				
06/07/2014	12:41:12	161	2.2	10.66	13.7					
06/07/2014	12:41:15					Pump 10 bbls Of Fresh Water				
06/07/2014	12:41:15	177	2.2	10.66	13.8					
06/07/2014	12:41:16					Pump 20 bbls Of 10.5 ppg Mudpush				
06/07/2014	12:41:16	166	2.2	10.66	13.8					
06/07/2014	12:41:17					Good Returns				
06/07/2014	12:41:17	180	2.2	10.66	13.9					
06/07/2014	12:41:22	233	2.2	10.66	14.1					
06/07/2014	12:43:02	244	4.5	10.65	18.9					
06/07/2014	12:44:42	132	3.3	10.63	24.7					
06/07/2014	12:46:22	173	3.2	11.76	30.2					
06/07/2014	12:46:55					Start Mixing Lead Slurry				
06/07/2014	12:46:55	218	3.3	12.14	32.0					
06/07/2014	12:46:57					Pump 291 bbls Of 12.0 ppg Lead				
06/07/2014	12:46:57					913 sks Y=1.79				
06/07/2014	12:46:57					Wet and Dry Samples				
06/07/2014	12:46:57					Weight 12.0 ppg				
06/07/2014	12:46:57					Dry Sample # 006133				
06/07/2014	12:46:57					Water Sample # 006009				
06/07/2014	12:46:57	133	3.3	12.16	32.1					
06/07/2014	12:46:58					Good Returns				
06/07/2014	12:46:58	187	3.3	12.17	32.2					
06/07/2014	12:48:02	223	4.5	12.17	35.7					
06/07/2014	12:49:42	331	6.5	12.11	44.7					
06/07/2014	12:51:22	203	6.6	12.05	55.7					
06/07/2014	12:53:02	191	6.6	12.02	66.6					
06/07/2014	12:54:42	191	6.6	12.05	77.6					
06/07/2014	12:56:22	190	6.6	12.01	88.6					
06/07/2014	12:58:02	201	6.6	12.07	99.5					
06/07/2014	12:59:42	177	6.6	12.02	110.5					
06/07/2014	13:01:22	174	6.6	12.01	121.5					
06/07/2014	13:03:02	166	6.6	12.03	132.5					
06/07/2014	13:04:42	172	6.6	11.98	143.5					
06/07/2014	13:06:22	152	6.6	12.02	154.4					
06/07/2014	13:08:02	159	6.6	11.96	165.4					
06/07/2014	13:09:42	173	6.6	12.00	176.4					
06/07/2014	13:11:22	178	6.6	11.98	187.4					
06/07/2014	13:13:02	175	6.6	11.99	198.4					
06/07/2014	13:14:42	161	6.6	12.03	209.4					
06/07/2014	13:16:22	180	6.6	12.02	220.4					
06/07/2014	13:18:02	164	6.6	12.03	231.3					
06/07/2014	13:19:42	166	6.6	12.00	242.3					

Well			Field		Job Start	Customer		Job Number
John Craig 4-2 4-2			Wildcat		Jun/07/2014	Nighthawk		1971578
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
06/07/2014	13:23:02	165	6.6	11.99	264.2			
06/07/2014	13:24:42	158	6.6	12.00	275.2			
06/07/2014	13:26:22	175	6.6	11.99	286.2			
06/07/2014	13:28:02	93	4.7	11.88	297.0			
06/07/2014	13:29:42	46	3.3	12.32	302.8			
06/07/2014	13:31:22	49	3.5	11.92	308.5			
06/07/2014	13:33:02	55	3.7	11.91	314.3			
06/07/2014	13:34:42	70	6.2	11.95	323.2			
06/07/2014	13:36:22	179	6.6	12.26	334.0			
06/07/2014	13:37:10					End Lead Slurry		
06/07/2014	13:37:10	117	4.6	12.97	338.5			
06/07/2014	13:37:11					Start Mixing Tail Slurry		
06/07/2014	13:37:11	113	4.6	12.99	338.6			
06/07/2014	13:38:02	109	4.6	12.89	342.5			
06/07/2014	13:38:48					Pump 100 bbls Of 13.0 ppg Tail		
06/07/2014	13:38:48					300 sks Y=1.88		
06/07/2014	13:38:48	136	4.6	13.01	346.0			
06/07/2014	13:38:49					Wet and Dy Sample		
06/07/2014	13:38:49					Weight 13.0 ppg		
06/07/2014	13:38:49					Dry Sample # 005973		
06/07/2014	13:38:49					Good Returns		
06/07/2014	13:38:49	127	4.6	13.00	346.1			
06/07/2014	13:39:42	120	4.6	13.03	350.2			
06/07/2014	13:41:22	253	6.5	13.08	358.4			
06/07/2014	13:43:02	251	6.5	13.04	369.3			
06/07/2014	13:44:42	238	6.5	12.95	380.1			
06/07/2014	13:46:22	245	6.5	12.92	391.0			
06/07/2014	13:48:02	231	6.5	12.91	401.9			
06/07/2014	13:49:42	248	6.5	13.06	412.8			
06/07/2014	13:51:22	295	6.5	13.04	423.7			
06/07/2014	13:53:02	257	6.5	13.05	434.6			
06/07/2014	13:54:42	91	4.7	13.11	443.4			
06/07/2014	13:54:49					End Tail Slurry		
06/07/2014	13:54:49	92	3.6	13.11	443.9			
06/07/2014	13:54:53					Shut Down		
06/07/2014	13:54:53					Wash Up		
06/07/2014	13:54:53	88	3.5	13.11	444.1			
06/07/2014	13:54:55					Drop Top Plug		
06/07/2014	13:54:55	89	3.6	13.11	444.2			
06/07/2014	13:54:57					Start Displacement		
06/07/2014	13:54:57	95	3.6	13.11	444.4			
06/07/2014	13:56:22	3	0.5	12.36	449.1			
06/07/2014	13:58:02	-2	0.0	12.28	449.2			
06/07/2014	13:59:42	6	0.0	12.27	449.2			
06/07/2014	14:01:22	138	4.7	8.96	453.4			
06/07/2014	14:03:02	157	4.7	8.97	461.0			
06/07/2014	14:04:42	148	4.7	8.44	468.9			
06/07/2014	14:06:22	83	6.9	5.45	476.8			
06/07/2014	14:08:02	158	4.7	8.37	484.9			
06/07/2014	14:09:42	57	5.1	7.89	491.1			
06/07/2014	14:11:22	28	0.2	8.36	494.6			
06/07/2014	14:13:02	209	8.5	8.37	498.2			
06/07/2014	14:14:42	174	8.6	8.36	512.6			
06/07/2014	14:16:22	204	6.7	8.36	524.6			

Well			Field		Job Start	Customer	Job Number
John Craig 4-2 4-2			Wildcat		Jun/07/2014	Nighthawk	1971578
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
06/07/2014	14:19:42	358	6.6	8.38	546.8		
06/07/2014	14:21:22	481	6.6	8.37	557.8		
06/07/2014	14:23:02	623	6.6	8.37	568.9		
06/07/2014	14:24:42	624	6.6	8.37	579.9		
06/07/2014	14:26:22	896	6.6	8.37	590.9		
06/07/2014	14:28:02	1014	6.6	8.37	601.9		
06/07/2014	14:29:42	1032	6.6	8.37	612.9		
06/07/2014	14:31:22	1021	6.6	8.37	623.8		
06/07/2014	14:33:02	1136	6.6	8.37	634.8		
06/07/2014	14:34:42	1195	6.6	8.37	645.7		
06/07/2014	14:36:22	1245	6.6	8.37	656.6		
06/07/2014	14:38:02	1408	6.5	8.37	667.5		
06/07/2014	14:39:42	1419	4.6	8.36	678.3		
06/07/2014	14:40:21					Displace 194 bbls Of Fresh Water	
06/07/2014	14:40:21					W/L068	
06/07/2014	14:40:21	1363	4.6	8.36	681.3		
06/07/2014	14:40:49					Bump Top Plug To 1940 psi	
06/07/2014	14:40:49					Final Circulating psi 1240	
06/07/2014	14:40:49					Floats Held	
06/07/2014	14:40:49					1.5 bbls Back	
06/07/2014	14:40:49					74 bbls Of Cement Back To Surface	
06/07/2014	14:40:49					Good Returns Throughout Job	
06/07/2014	14:40:49					Rig Down	
06/07/2014	14:40:49					End Job	
06/07/2014	14:40:49	1325	4.6	8.36	683.5		
06/07/2014	14:41:22	1331	4.6	8.36	686.0		
06/07/2014	14:43:02	1218	2.1	8.36	691.0		
06/07/2014	14:44:42	1227	2.1	8.36	694.5		
06/07/2014	14:46:22	1255	2.0	8.36	697.9		
06/07/2014	14:48:02	1952	0.0	8.37	698.7		
06/07/2014	14:49:42	1966	0.0	8.36	698.7		
06/07/2014	14:51:22	1	0.0	8.36	698.7		

Post Job Summary

Average Pump Rates,					Volume of Fluid Injected, bbl						
Slurry	N2	Mud	Maximum Rate		Total Slurry 391.0	Mud	Spacer 30.0	N2			
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 5000	Final 1240	Average	Bump Plug to 1940	Breakdown	Type		Volume		Density		
Avg. N2 Percent		Designed Slurry Volume 391.0 bbl		Displacement 194.0 bbl		Mix Water Temp 65 degF		Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume 74.0 bbl	
								Washed Thru Perfs	<input type="checkbox"/>	To	
Customer or Authorized Representative Jim Weir				Schlumberger Supervisor Justin Zika				Circulation Lost	<input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>
								-		-	