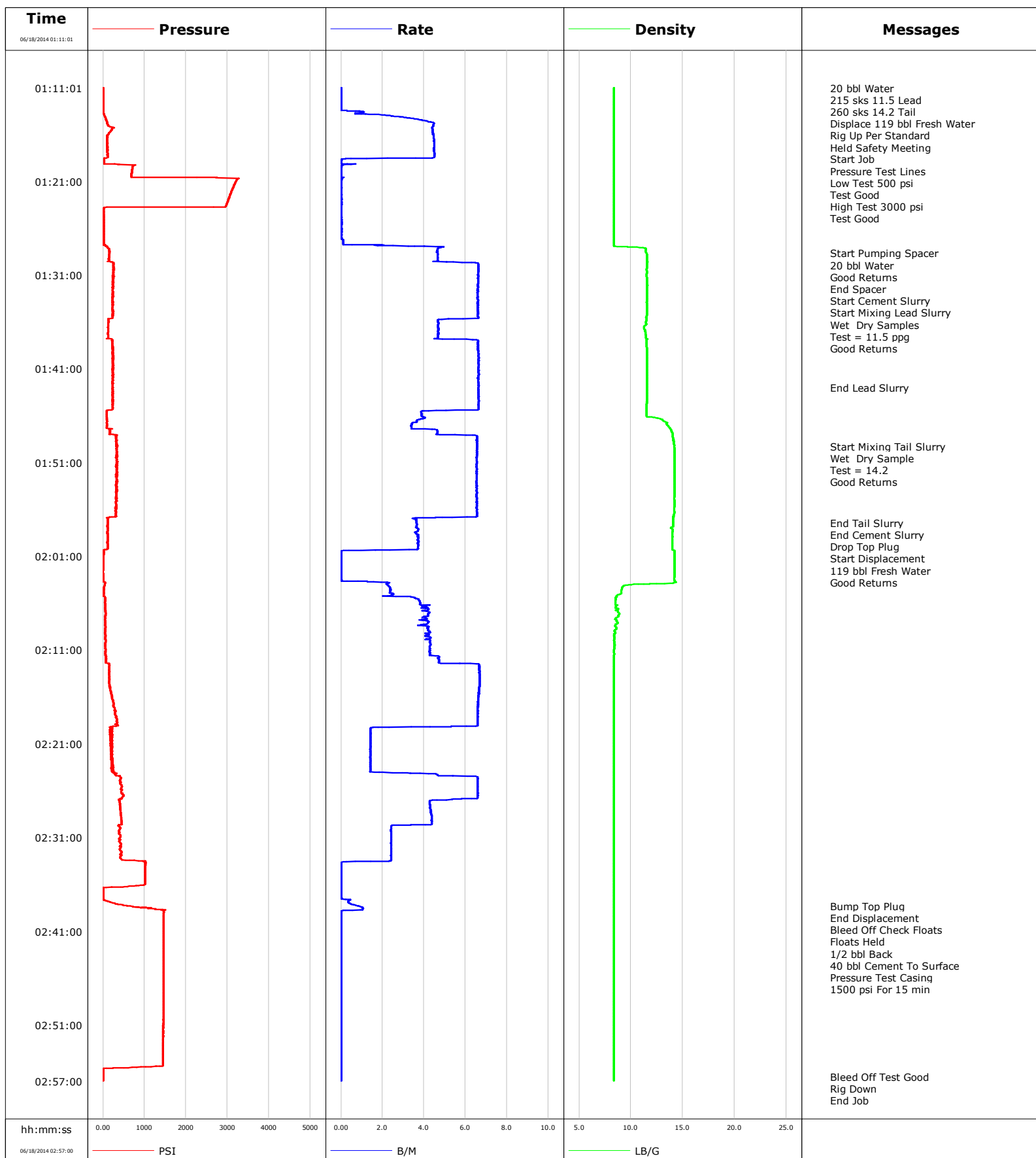


**Well** Horsetail 30F-3106  
**Field** Wildcat  
**Engineer** Jordan Moreland / Stacy Terry  
**Country** United States

**Client** Whiting  
**SIR No.** C459-02813  
**Job Type** 9 5/8 Surface  
**Job Date** 06-17-2014



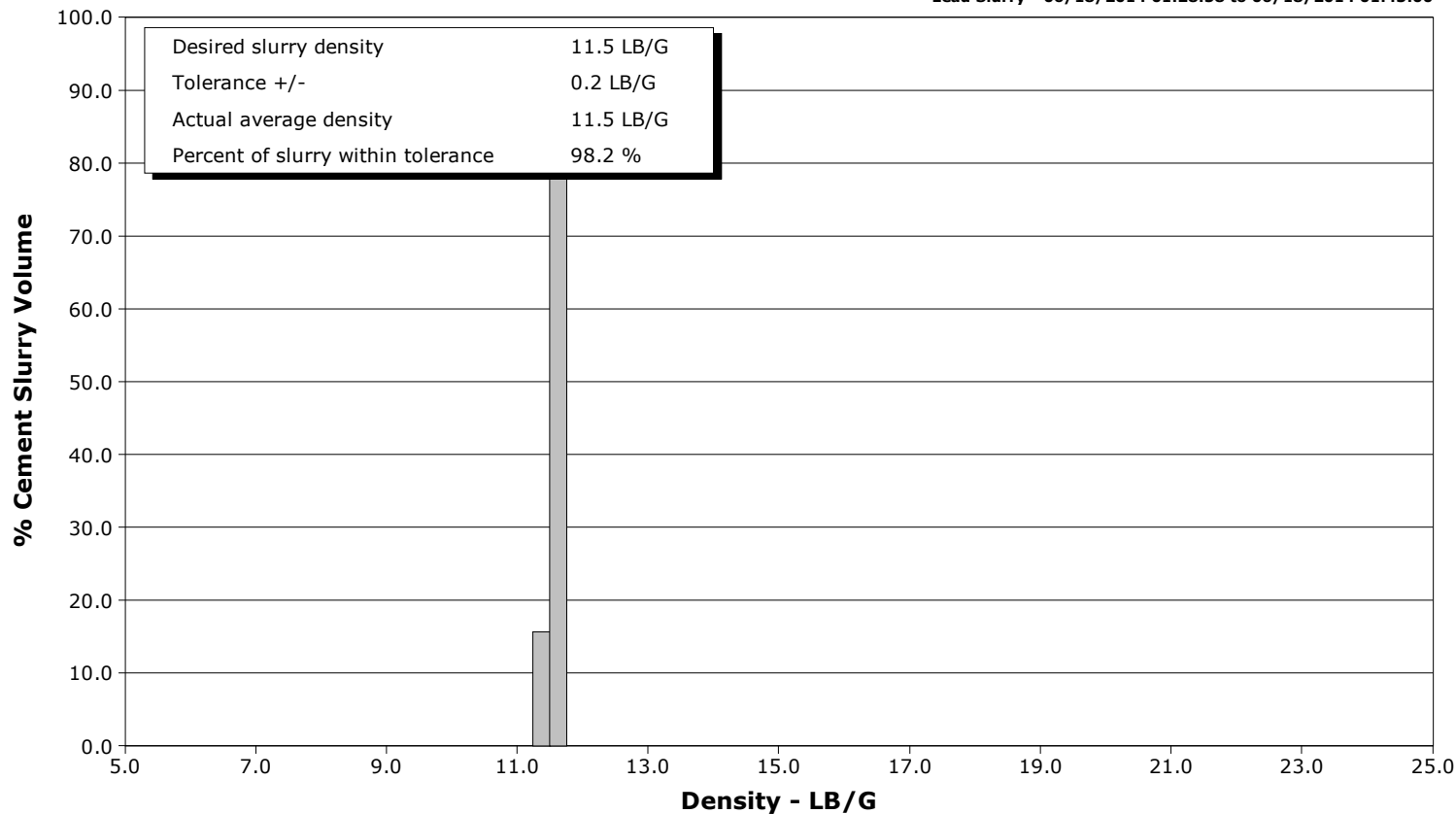


# Schlumberger Cementing Qa/Qc Density Report

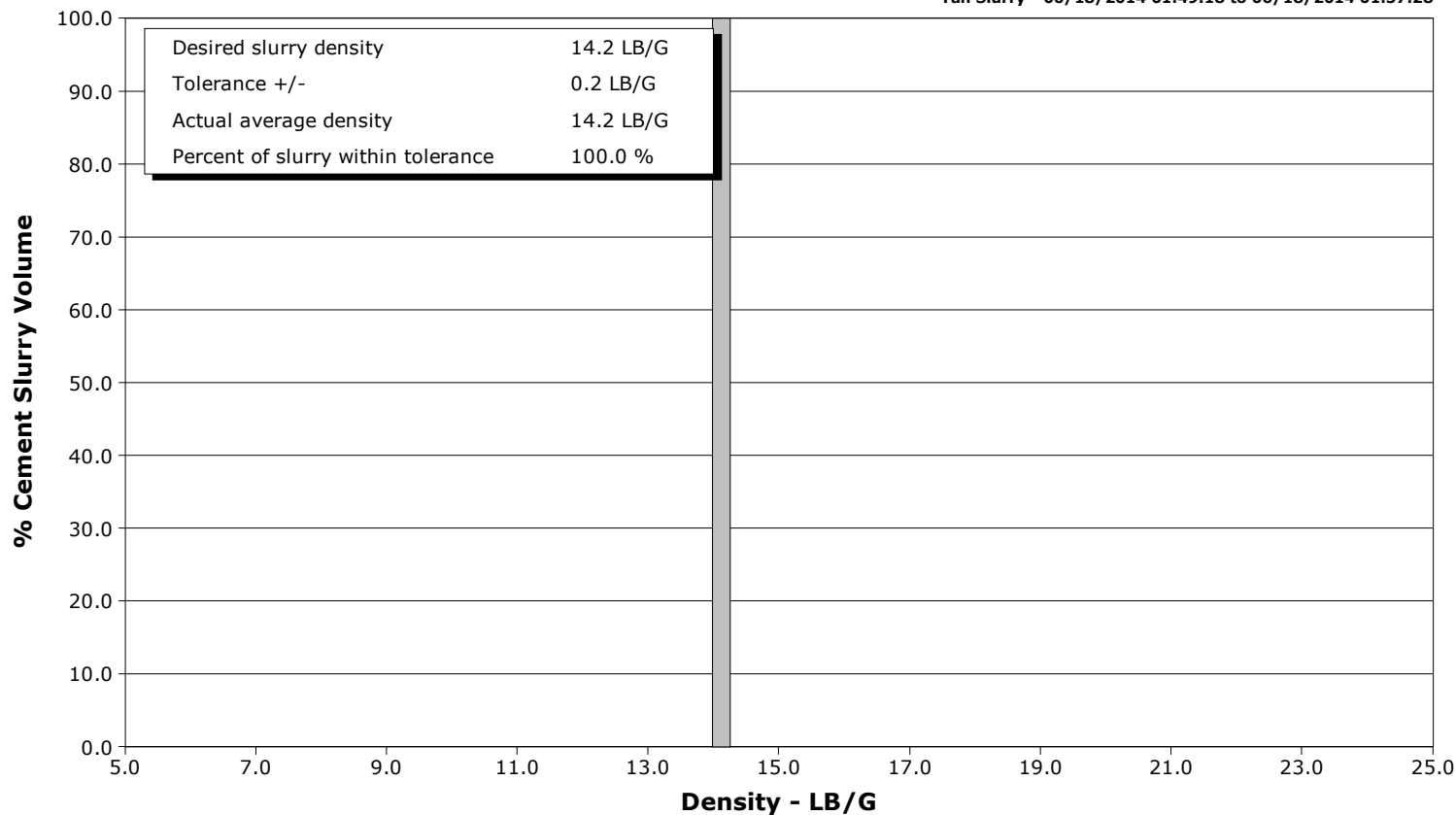
**Well** Horsetail 30F-3106  
**Field** Wildcat  
**Engineer** Jordan Moreland / Stacy Terry  
**Country** United States

**Client** Whiting  
**SIR No.** C459-02813  
**Job Type** 9 5/8 Surface  
**Job Date** 06-17-2014

Lead Slurry - 06/18/2014 01:28:58 to 06/18/2014 01:43:00



Tail Slurry - 06/18/2014 01:49:18 to 06/18/2014 01:57:28







# Cementing Service Report

				Customer Whiting		Job Number C459-02813		
Well Horsetail 30F-3106			Location (legal)		Schlumberger Location CWY		Job Start Jun/17/2014	
Field Wildcat		Formation Name/Type		Deviation	Bit Size 13.5 in	Well MD		Well TVD
County Weld		State/Province Colorado		BHP	BHST 99 degF	BHCT 83 degF	Pore Press. Gradient	
Well Master 0631546514		API/UWI						
Rig Name Xtreme 18	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	1581.0	9.630	36.0	J55	8RD	
			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 9 5/8 Surface							
Max. Allowed Tub. Press 3000 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 119.0 bbl	Packer Type	Packer Depth		
			Tubing Vol.	Casing Vol. 122.0 bbl	Annular Vol. 138.0 bbl	Openhole Vol. 260.0 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			Shoe Type Guide			Squeeze Type		
Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1581.0 ft			Tool Type		
No. Centralizers	Top Plugs 1	Bottom Plugs	Stage Tool Type			Tool Depth		
Cement Head Type Single			Stage Tool Depth			Tail Pipe Size		
Job Scheduled For Jun/17/2014	Arrived on Location Jun/17/2014	Leave Location Jun/17/2014	Collar Type Float			Tail Pipe Depth		
			Collar Depth 1535.0 ft			Sqz. Total Vol.		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
06/18/2014	00:55:14					Started Acquisition		
06/18/2014	01:11:01	6	0.0	8.35	0.0			
06/18/2014	01:11:02					20 bbl Water		
06/18/2014	01:11:02					215 sks 11.5 Lead		
06/18/2014	01:11:02					260 sks 14.2 Tail		
06/18/2014	01:11:02					Displace 119 bbl Fresh Water		
06/18/2014	01:11:02					Rig Up Per Standard		
06/18/2014	01:11:02					Held Safety Meeting		
06/18/2014	01:11:02	6	0.0	8.35	0.0			
06/18/2014	01:11:05					Start Job		
06/18/2014	01:11:05	6	0.0	8.35	0.0			
06/18/2014	01:11:06					Pressure Test Lines		
06/18/2014	01:11:06	6	0.0	8.35	0.0			
06/18/2014	01:11:07					Low Test 500 psi		
06/18/2014	01:11:07					Test Good		
06/18/2014	01:11:07	6	0.0	8.35	0.0			
06/18/2014	01:11:08					High Test 3000 psi		
06/18/2014	01:11:08					Test Good		
06/18/2014	01:11:08	5	0.0	8.35	0.0			
06/18/2014	01:11:14	6	0.0	8.35	0.0			
06/18/2014	01:13:14	3	0.0	8.35	0.0			



Well			Field		Job Start		Customer		Job Number	
Horsetail 30F-3106			Wildcat		Jun/17/2014		Whiting		C459-02813	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
06/18/2014	01:17:14	104	4.5	8.35	14.3					
06/18/2014	01:19:14	365	0.2	8.35	20.3					
06/18/2014	01:21:14	3183	0.0	8.35	20.4					
06/18/2014	01:23:14	3001	0.0	8.35	20.4					
06/18/2014	01:25:14	17	0.0	8.35	20.5					
06/18/2014	01:27:14	15	0.1	8.35	20.5					
06/18/2014	01:28:40					Start Pumping Spacer				
06/18/2014	01:28:40	155	4.7	11.49	24.3					
06/18/2014	01:28:41					20 bbl Water				
06/18/2014	01:28:41					Good Returns				
06/18/2014	01:28:41	149	4.7	11.50	24.4					
06/18/2014	01:28:43					End Spacer				
06/18/2014	01:28:43	156	4.7	11.51	24.5					
06/18/2014	01:28:56					Start Cement Slurry				
06/18/2014	01:28:56	148	4.7	11.54	25.5					
06/18/2014	01:28:58					Start Mixing Lead Slurry				
06/18/2014	01:28:58	145	4.7	11.54	25.7					
06/18/2014	01:28:59					Wet Dry Samples				
06/18/2014	01:28:59					Test = 11.5 ppg				
06/18/2014	01:28:59					Good Returns				
06/18/2014	01:28:59	146	4.7	11.54	25.8					
06/18/2014	01:29:14	146	4.7	11.53	26.9					
06/18/2014	01:31:14	239	6.6	11.52	39.3					
06/18/2014	01:33:14	237	6.6	11.56	52.5					
06/18/2014	01:35:14	231	6.6	11.55	65.7					
06/18/2014	01:37:14	112	4.7	11.39	76.0					
06/18/2014	01:39:14	235	6.6	11.54	88.0					
06/18/2014	01:41:14	233	6.6	11.56	101.2					
06/18/2014	01:43:00					End Lead Slurry				
06/18/2014	01:43:00	229	6.6	11.56	112.9					
06/18/2014	01:43:14	235	6.6	11.56	114.5					
06/18/2014	01:45:14	242	6.6	11.50	127.7					
06/18/2014	01:47:14	94	3.4	13.69	135.8					
06/18/2014	01:49:14	348	6.5	14.19	147.0					
06/18/2014	01:49:18					Start Mixing Tail Slurry				
06/18/2014	01:49:18	329	6.5	14.17	147.5					
06/18/2014	01:49:19					Wet Dry Sample				
06/18/2014	01:49:19	329	6.5	14.18	147.6					
06/18/2014	01:49:20					Test = 14.2				
06/18/2014	01:49:20					Good Returns				
06/18/2014	01:49:20	318	6.6	14.18	147.7					
06/18/2014	01:51:14	312	6.5	14.22	160.1					
06/18/2014	01:53:14	327	6.5	14.21	173.2					
06/18/2014	01:55:14	306	6.5	14.21	186.3					
06/18/2014	01:57:14	112	3.6	14.07	198.3					
06/18/2014	01:57:28					End Tail Slurry				
06/18/2014	01:57:28	113	3.6	14.07	199.2					
06/18/2014	01:58:00					End Cement Slurry				
06/18/2014	01:58:00	115	3.7	13.85	201.1					
06/18/2014	01:58:41					Drop Top Plug				
06/18/2014	01:58:41	110	3.7	13.99	203.6					
06/18/2014	01:58:42					Start Displacement				
06/18/2014	01:58:42	116	3.7	13.99	203.7					
06/18/2014	01:58:43					119 bbl Fresh Water				



Well Horsetail 30F-3106			Field Wildcat		Job Start Jun/17/2014	Customer Whiting	Job Number C459-02813
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
06/18/2014	01:58:43	115	3.7	13.99	203.7		
06/18/2014	01:59:14	114	3.7	13.98	205.7		
06/18/2014	02:01:14	10	0.0	14.21	209.9		
06/18/2014	02:03:14	3	0.0	14.20	209.9		
06/18/2014	02:05:14	21	2.4	8.64	213.4		
06/18/2014	02:07:14	63	4.2	8.86	221.2		
06/18/2014	02:09:14	42	4.1	8.52	229.4		
06/18/2014	02:11:14	60	4.3	8.38	237.9		
06/18/2014	02:13:14	157	6.7	8.35	248.7		
06/18/2014	02:15:14	183	6.7	8.35	262.0		
06/18/2014	02:17:14	279	6.6	8.35	275.3		
06/18/2014	02:19:14	184	3.4	8.35	288.3		
06/18/2014	02:21:14	212	1.4	8.35	291.2		
06/18/2014	02:23:14	246	1.4	8.35	294.1		
06/18/2014	02:25:14	415	6.6	8.35	301.9		
06/18/2014	02:27:14	401	4.3	8.35	314.4		
06/18/2014	02:29:14	444	4.4	8.35	323.1		
06/18/2014	02:31:14	420	2.4	8.35	328.8		
06/18/2014	02:33:14	419	2.4	8.35	333.6		
06/18/2014	02:35:14	1019	0.0	8.35	334.5		
06/18/2014	02:37:14	3	0.0	8.35	334.5		
06/18/2014	02:38:21					Bump Top Plug	
06/18/2014	02:38:21	662	0.9	8.35	334.8		
06/18/2014	02:38:22					End Displacement	
06/18/2014	02:38:22	705	0.9	8.35	334.8		
06/18/2014	02:38:23					Bleed Off Check Floats	
06/18/2014	02:38:23	723	0.9	8.35	334.9		
06/18/2014	02:38:24					Floats Held	
06/18/2014	02:38:24					1/2 bbl Back	
06/18/2014	02:38:24					40 bbl Cement To Surface	
06/18/2014	02:38:24					Pressure Test Casing	
06/18/2014	02:38:24	716	0.9	8.35	334.9		
06/18/2014	02:38:25					1500 psi For 15 min	
06/18/2014	02:38:25	716	1.0	8.35	334.9		
06/18/2014	02:39:14	1464	0.0	8.35	335.3		
06/18/2014	02:41:14	1459	0.0	8.35	335.3		
06/18/2014	02:43:14	1457	0.0	8.35	335.3		
06/18/2014	02:45:14	1455	0.0	8.35	335.3		
06/18/2014	02:47:14	1454	0.0	8.35	335.3		
06/18/2014	02:49:14	1453	0.0	8.35	335.3		
06/18/2014	02:51:14	1453	0.0	8.35	335.3		
06/18/2014	02:53:14	1452	0.0	8.35	335.3		
06/18/2014	02:55:14	1451	0.0	8.35	335.3		
06/18/2014	02:56:32					Bleed Off Test Good	
06/18/2014	02:56:32					Rig Down	
06/18/2014	02:56:32	4	0.0	8.36	335.3		
06/18/2014	02:56:35					End Job	
06/18/2014	02:56:35	4	0.0	8.36	335.3		



Well Horsetail 30F-3106	Field Wildcat	Job Start Jun/17/2014	Customer Whiting	Job Number C459-02813
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Post Job Summary

Average Pump Rates,					Volume of Fluid Injected,			
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2
Treating Pressure Summary,					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume		Density
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp 72 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume		
Customer or Authorized Representative Brady Sharpe				Schlumberger Supervisor Jordan Moreland / Stacy Terry		Washed Thru Perfs <input type="checkbox"/>	To	
						Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-		-