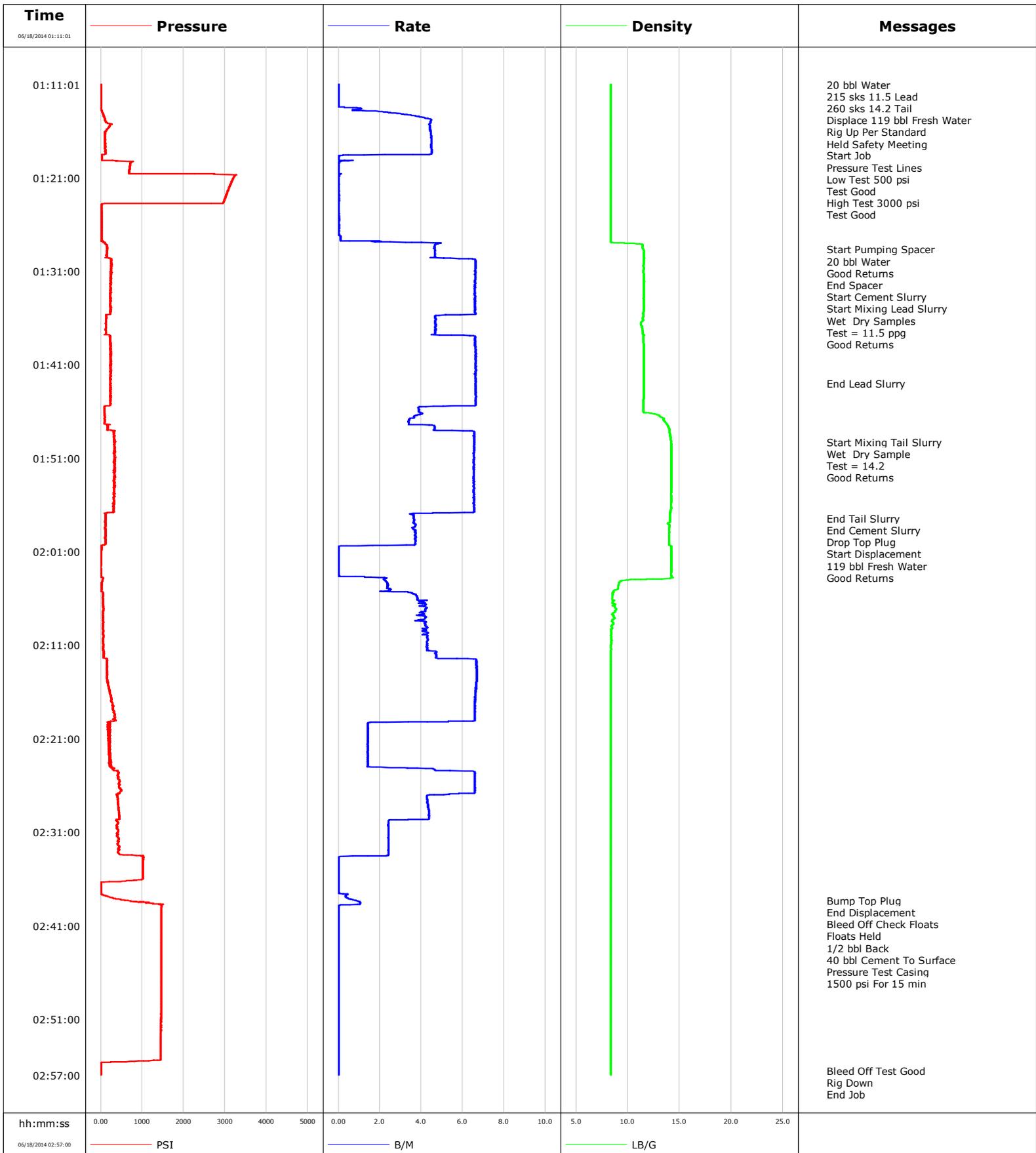


<b>Well</b>	Horsetail 30F-3106	<b>Client</b>	Whiting
<b>Field</b>	Wildcat	<b>SIR No.</b>	C459-02813
<b>Engineer</b>	Jordan Moreland / Stacy Terry	<b>Job Type</b>	9 5/8 Surface
<b>Country</b>	United States	<b>Job Date</b>	06-17-2014

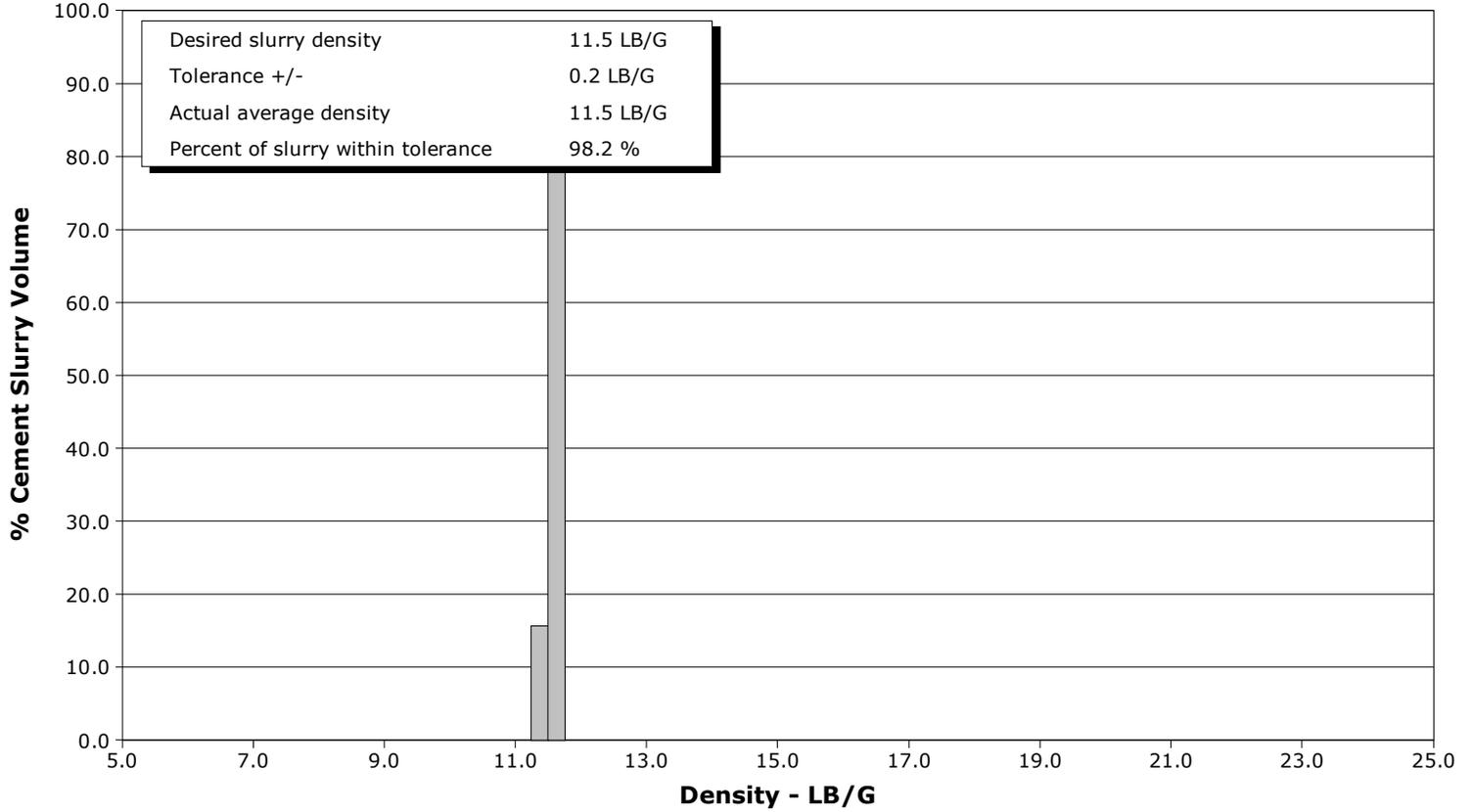


# Schlumberger Cementing Qa/Qc Density Report

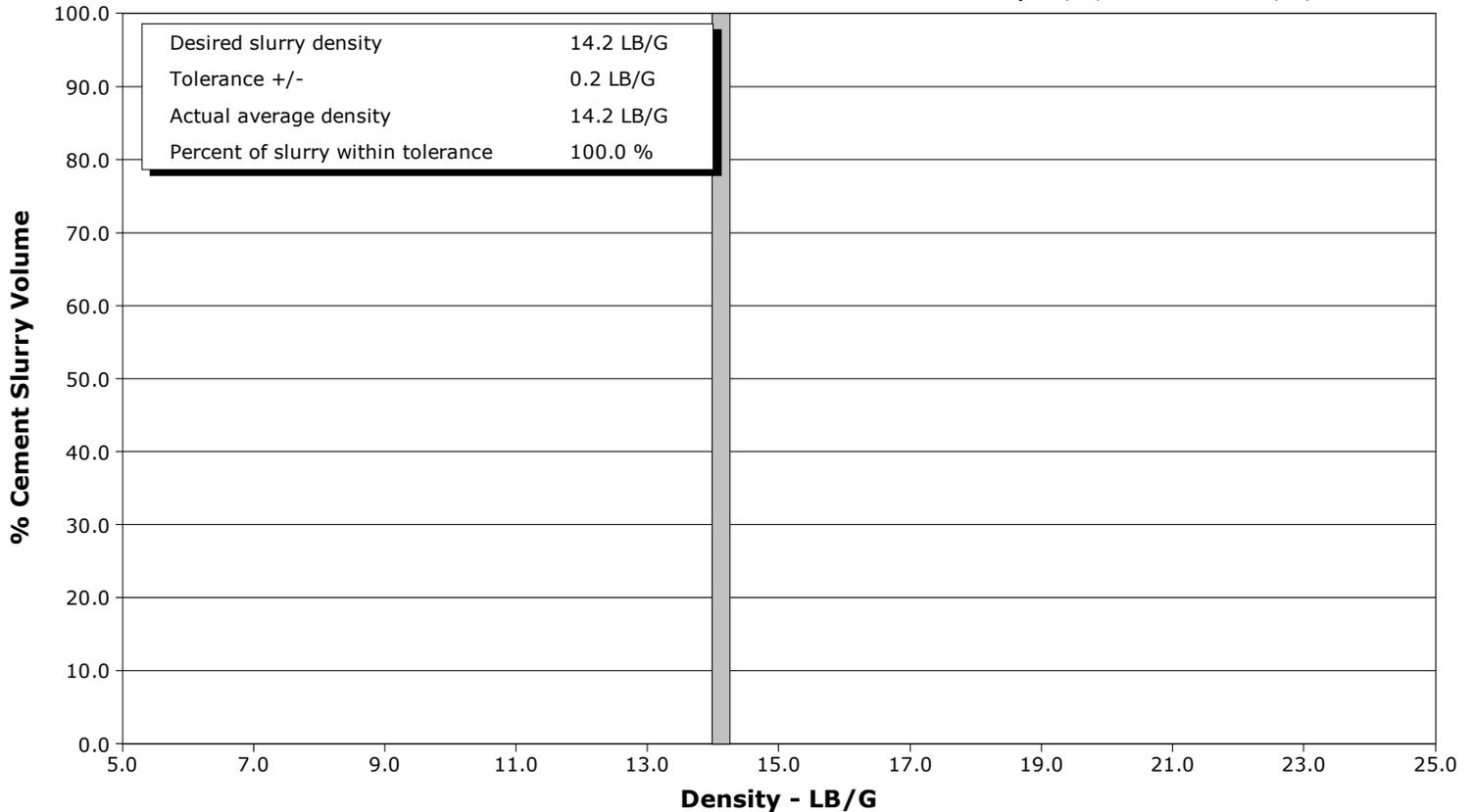
**Well** Horsetail 30F-3106  
**Field** Wildcat  
**Engineer** Jordan Moreland / Stacy Terry  
**Country** United States

**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**



				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	
Service Instructions Rate And Density Checked 20 bbl Water 215 sks Lead 260sks Tail Displace 119 bbl Water										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			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	01:58:43	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		

<b>Well</b> Horsetail 30F-3106	<b>Field</b> Wildcat	<b>Job Start</b> Jun/17/2014	<b>Customer</b> Whiting	<b>Job Number</b> 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
<b>Avg. N2 Percent</b>	<b>Designed Slurry Volume</b>		<b>Displacement</b>	<b>Mix Water Temp</b> 72 degF	<b>Cement Circulated to Surface?</b> <input checked="" type="checkbox"/>	<b>Volume</b>		
<b>Customer or Authorized Representative</b> Brady Sharpe					<b>Washed Thru Perfs</b> <input type="checkbox"/>	<b>To</b>		
<b>Schlumberger Supervisor</b> Jordan Moreland / Stacy Terry					<b>Circulation Lost</b> <input type="checkbox"/>	<b>Job Completed</b> <input checked="" type="checkbox"/>		
					-	-		