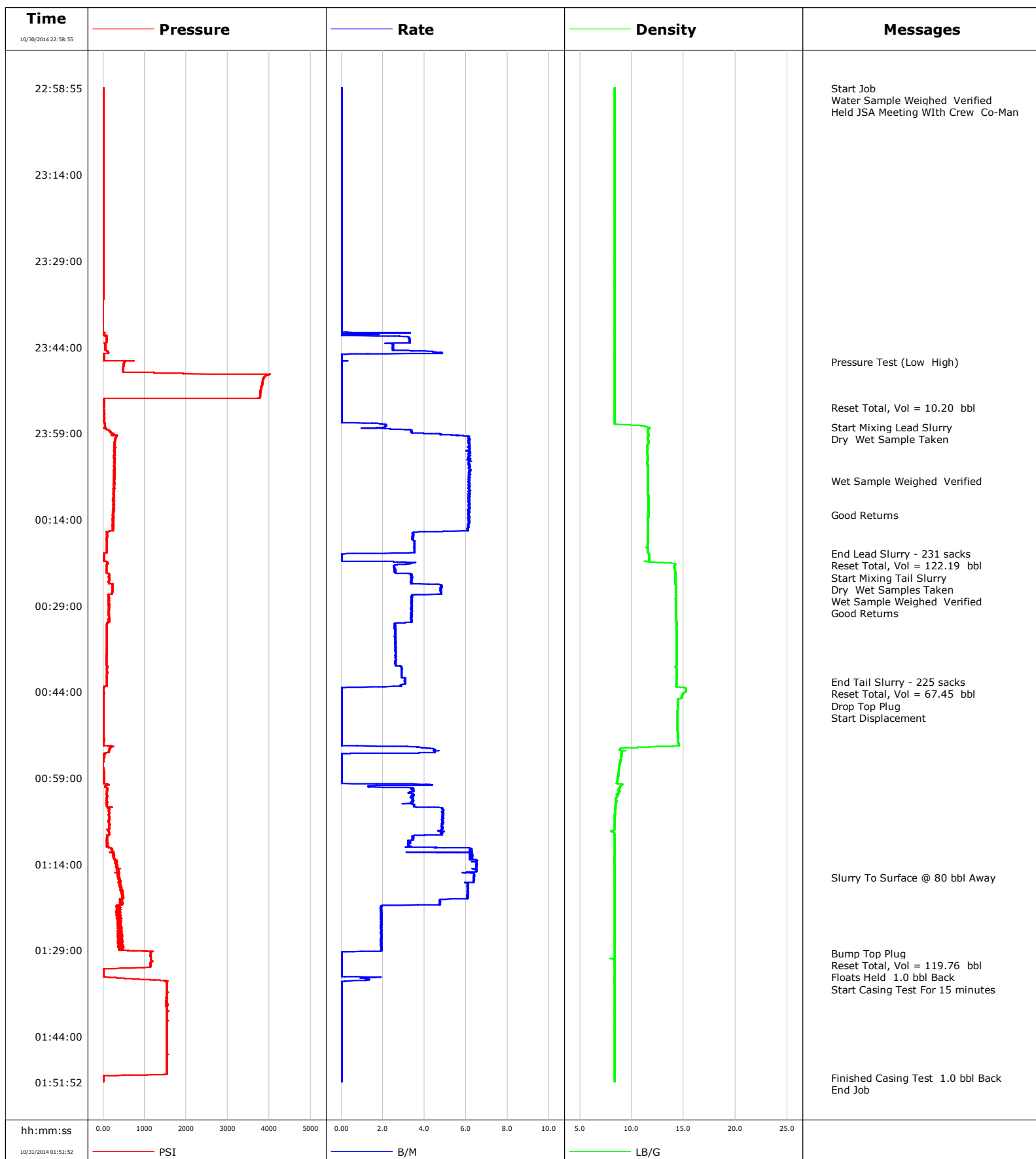


**Well** Horsetail 30F-1941  
**Field** Wildcat  
**Engineer** Jason Holt  
**Country** United States

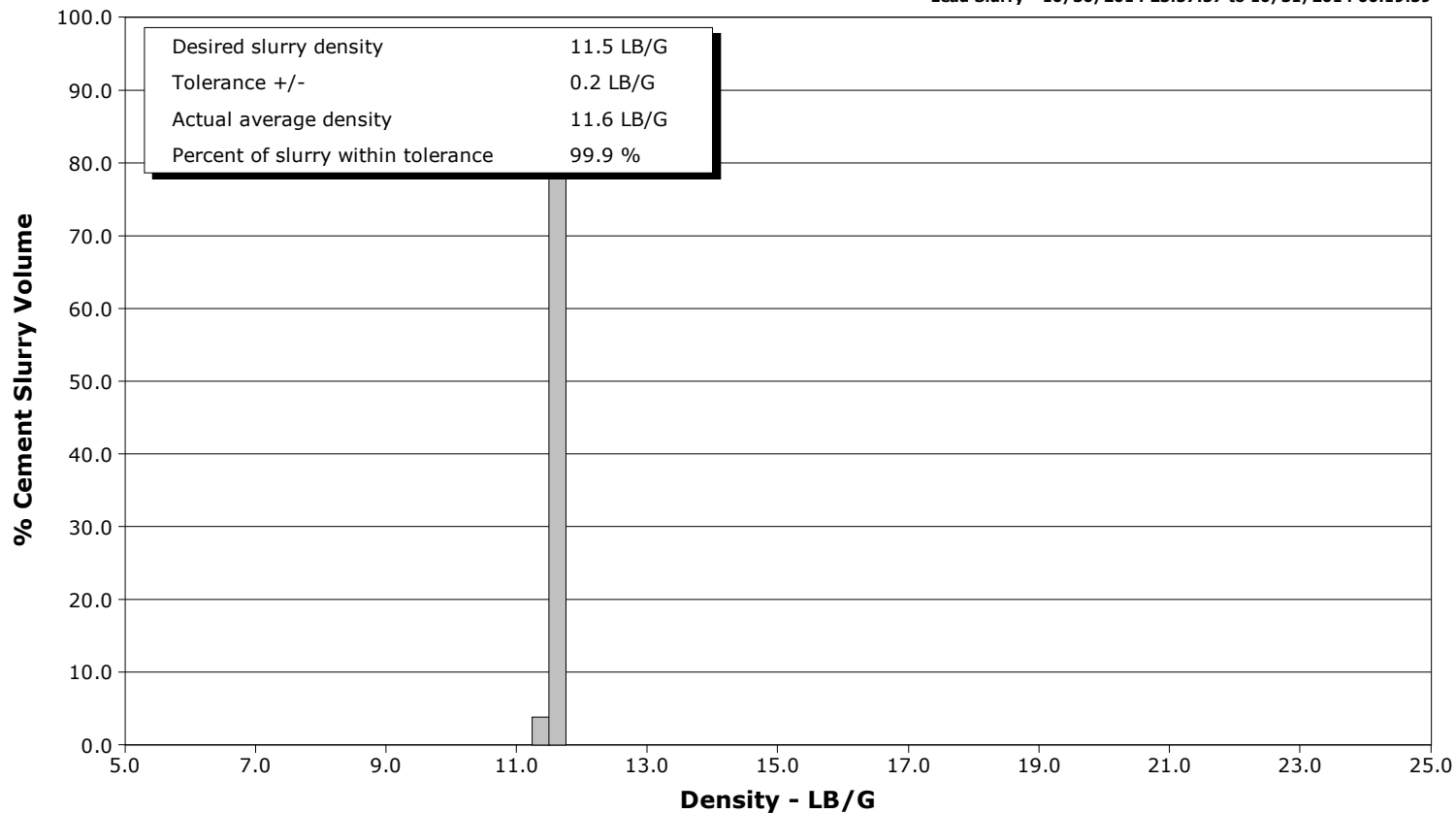
**Client** Whiting Oil Gas Co.  
**SIR No.** D2IK-00118  
**Job Type** 9 5/8" Surface  
**Job Date** 10-30-2014



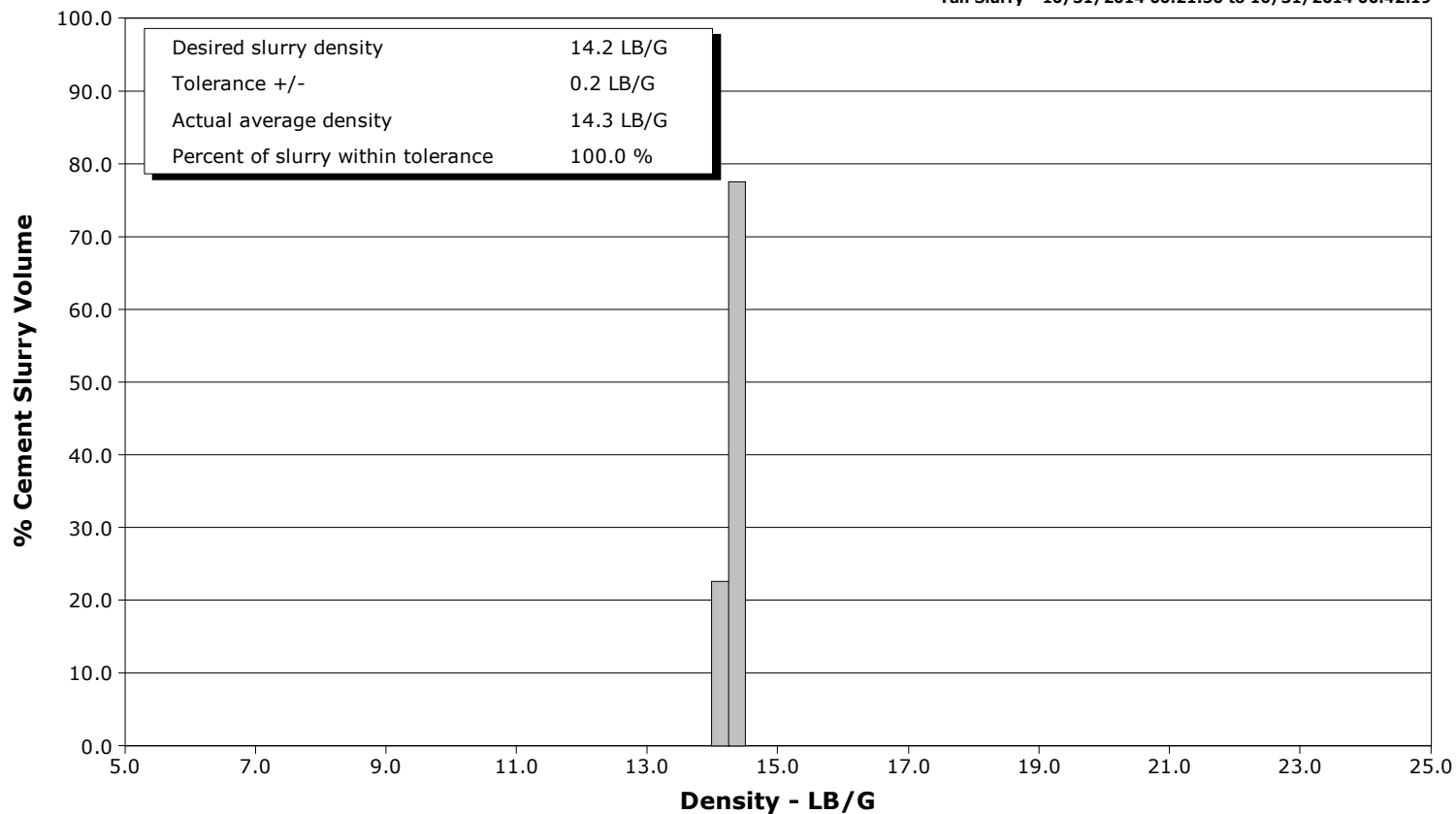
**Well** Horsetail 30F-1941  
**Field** Wildcat  
**Engineer** Jason Holt  
**Country** United States

**Client** Whiting Oil Gas Co.  
**SIR No.** D2IK-00118  
**Job Type** 9 5/8" Surface  
**Job Date** 10-30-2014

**Lead Slurry - 10/30/2014 23:57:57 to 10/31/2014 00:19:59**



**Tail Slurry - 10/31/2014 00:21:50 to 10/31/2014 00:42:19**



# Cementing Service Report

				Customer Whiting Oil & Gas Co.		Job Number D2IK-00118		
Well Horsetail 30F-1941 30F-1941			Location (legal) SENW 30-T10N-R57W		Schlumberger Location Cheyenne, WY		Job Start Oct/30/2014	
Field Wildcat		Formation Name/Type Dirty-Sandstone		Deviation deg	Bit Size 13.5 in	Well MD 1595.1 ft	Well TVD 1595.1 ft	
County Weld		State/Province Colorado		BHP 381 psi	BHST 102 degF	BHCT 83 degF	Pore Press. Gradient lb/gal	
Well Master 0631523939		API/UWI 05123387420000						
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 Other		1595.1	9.6	36.0	J-55
			0.0	0.0	0.0			
Drilling Fluid Type Bentonite		Max. Density 8.40 lb/gal	Plastic Viscosity cP		Tubing/Drill Pipe			
			T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	
Service Line Cementing		Job Type 9 5/8" Surface						
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi	WH Connection 9 5/8"		Perforations/Open Hole			
					Top, ft	Bottom, ft	shot/ft	
					ft	ft		
					ft	ft		
					ft	ft		
					Treat Down Casing	Displacement 120.0 bbl	Packer Type	
							Packer Depth ft	
					Tubing Vol. bbl	Casing Vol. 123.2 bbl	Annular Vol. 138.9 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 789 psi				Shoe Type Guide		Squeeze Type		
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1595.1 ft		Tool Type		
No. Centralizers		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 Oct/30/2014		Arrived on Location Oct/30/2014		Leave Location Oct/30/2014		Collar Type Float		
						Collar Depth 1552.1 ft		
						Sqz. Total Vol. bbl		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
10/30/2014	22:58:55	3	0.0	8.37	0.0	Started Acquisition		
10/30/2014	22:58:57	2	0.0	8.37	0.0	Water Sample Weighed Verified		
10/30/2014	22:58:58	2	0.0	8.37	0.0	Held JSA Meeting With Crew Co-Man		
10/30/2014	23:03:55	2	0.0	8.37	0.0			
10/30/2014	23:08:55	2	0.0	8.37	0.0			
10/30/2014	23:13:55	2	0.0	8.37	0.0			
10/30/2014	23:18:55	2	0.0	8.37	0.0			
10/30/2014	23:23:55	2	0.0	8.37	0.0			
10/30/2014	23:28:55	1	0.0	8.37	0.0			
10/30/2014	23:33:55	2	0.0	8.37	0.0			
10/30/2014	23:38:55	-1	0.0	8.37	0.0			
10/30/2014	23:43:55	54	2.5	8.36	5.9			
10/30/2014	23:46:32	526	0.0	8.36	10.2	Pressure Test (Low High)		
10/30/2014	23:48:55	3965	0.0	8.36	10.2			
10/30/2014	23:53:55	20	0.0	8.36	10.2			
10/30/2014	23:54:33	11	0.0	8.36	10.2	Reset Total, Vol = 10.20 bbl		
10/30/2014	23:57:57	47	2.1	11.54	11.6	Start Mixing Lead Slurry		
10/30/2014	23:58:02	47	2.0	11.64	11.8	Dry Wet Sample Taken		
10/30/2014	23:58:55	170	3.4	11.56	14.3			
10/31/2014	00:03:55	277	6.2	11.52	44.2			
10/31/2014	00:07:16	274	6.2	11.55	64.8	Wet Sample Weighed Verified		

Well			Field		Job Start	Customer	Job Number
Horsetail 30F-1941 30F-1941			Wildcat		Oct/30/2014	Whiting Oil & Gas Co.	D2IK-00118
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
10/31/2014	00:13:13	238	6.1	11.59	101.3	Good Returns	
10/31/2014	00:13:55	242	6.2	11.57	105.6		
10/31/2014	00:18:55	89	3.5	11.40	128.8		
10/31/2014	00:19:59	3	0.6	11.65	132.4	End Lead Slurry	
10/31/2014	00:20:05	13	0.0	11.68	132.4	Reset Total, Vol = 122.19 bbl	
10/31/2014	00:21:50	105	3.1	14.18	133.9	Start Mixing Tail Slurry	
10/31/2014	00:22:00	84	2.6	14.15	134.4	Dry Wet Samples Taken	
10/31/2014	00:23:55	153	3.4	14.21	139.7		
10/31/2014	00:24:00	144	3.4	14.21	140.0	Wet Sample Weighed Verified	
10/31/2014	00:28:52	142	3.4	14.27	159.0	Good Returns	
10/31/2014	00:28:55	132	3.4	14.27	159.2		
10/31/2014	00:33:55	87	2.6	14.31	174.5		
10/31/2014	00:38:55	81	2.6	14.30	187.5		
10/31/2014	00:42:19	92	3.1	14.30	197.3	End Tail Slurry	
10/31/2014	00:43:32	6	0.0	15.21	199.8	Reset Total, Vol = 67.45 bbl	
10/31/2014	00:43:41	6	0.0	15.22	199.8	Drop Top Plug	
10/31/2014	00:43:42	6	0.0	15.22	199.8	Start Displacement	
10/31/2014	00:43:55	7	0.0	15.20	199.8		
10/31/2014	00:48:55	8	0.0	14.41	199.8		
10/31/2014	00:53:55	159	4.4	8.93	1.8		
10/31/2014	00:58:55	21	0.0	8.66	5.2		
10/31/2014	01:03:55	86	3.5	8.42	18.0		
10/31/2014	01:08:55	146	4.8	8.31	42.1		
10/31/2014	01:13:55	332	6.5	8.34	66.9		
10/31/2014	01:16:20	382	6.4	8.36	82.4	Slurry To Surface @ 80 bbl Away	
10/31/2014	01:18:55	459	6.1	8.36	98.4		
10/31/2014	01:23:55	401	1.9	8.36	115.7		
10/31/2014	01:28:55	481	1.9	8.36	125.2		
10/31/2014	01:29:32	1145	0.0	8.36	125.8	Bump Top Plug	
10/31/2014	01:30:49	1187	0.0	8.29	125.8	Reset Total, Vol = 119.76 bbl	
10/31/2014	01:32:26	8	0.0	8.36	125.8	Floats Held 1.0 bbl Back	
10/31/2014	01:33:55	610	1.2	8.36	126.2		
10/31/2014	01:34:31	1535	0.0	8.36	126.7	Start Casing Test For 15 minutes	
10/31/2014	01:38:55	1525	0.0	8.36	126.7		
10/31/2014	01:43:55	1526	0.0	8.36	126.7		
10/31/2014	01:48:55	1527	0.0	8.36	126.7		
10/31/2014	01:51:10	6	0.0	8.37	126.7	Finished Casing Test 1.0 bbl Back	

## Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 4.1	N2	Mud	Maximum Rate 6.5		Total Slurry 326.5	Mud 0.0	Spacer 11.6	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 4034	Final 4	Average 380	Bump Plug to 881	Breakdown	Type FreshWater	Volume 119.9 bbl		Density 8.34 lb/gal
Avg. N2 Percent %		Designed Slurry Volume 184.0 bbl	Displacement 125.8 bbl	Mix Water Temp 56 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 Brady Sharp			Schlumberger Supervisor Jason Holt			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	