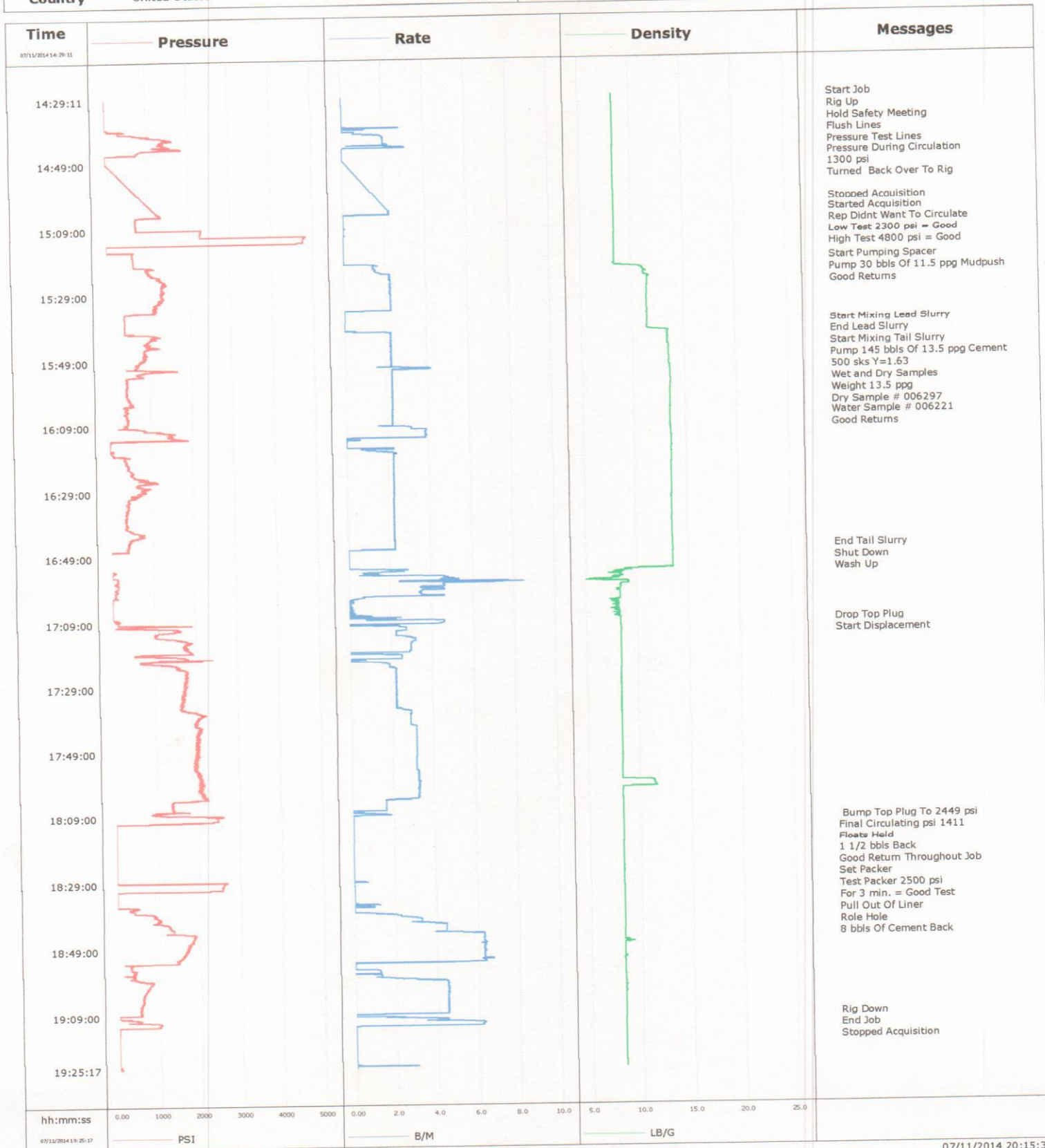


Well Horestail 30F-3105
Field Wildcat
Engineer Justin Zika/Leiker
Country United States

Client Whiting
SIR No.
Job Type Liner
Job Date 07-11-2014



Cementing Service Report

				Customer Whiting				Job Number 1991635							
Well Horestail 30F-3105 30F-3105				Location (legal) Cheyenne,WY				Schlumberger Location Cheyenne, WY				Job Start Jul/11/2014			
Field Wildcat				Formation Name/Type Shale				Deviation		Bit Size 6.1 in		Well MD 13013.0 ft		Well TVD	
County Weld				State/Province Colorado				BHP		BHST 200 degF		BHCT 200 degF		Pore Press. Gradient	
Well Master 0631546516				API/UWI 05-123-392020000											
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		13001.0		4.500		11.6		N80		8RD	
						0.0		0.000		0.0					
Drilling Fluid Type		Max. Density		Plastic Viscosity		Tubing/Drill Pipe									
						Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
Service Line Cementing		Job Type Liner				4892.0		4.000		0.0		N/A		N/A	
						0.0		0.000		0.0					
Max. Allowed Tub. Press 1950 psi		Max. Allowed Ann. Press		WH Connection		Perforations/ Open Hole									
						Top,		Bottom,				No. of Shots		Total Interval	
														Diameter	
						Treat Down Casing		Displacement 156.0 bbl		Packer Type		Packer Depth			
						Tubing Vol.		Casing Vol. 156.0 bbl		Annular Vol. 242.0 bbl		Openhole Vol. 398.0 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 Float				Squeeze Type							
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 13001.0 ft				Tool Type							
No. Centralizers		Top Plugs 1		Bottom Plugs		Stage Tool Type				Tool Depth					
Cement Head Type				Stage Tool Depth				Tail Pipe Size							
Job Scheduled For Jul/11/2014 01:00		Arrived on Location Jul/11/2014 01:00		Leave Location Jul/11/2014		Collar Type Float				Tail Pipe Depth					
						Collar Depth 12951.0 ft				Sqz. Total Vol.					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BSL	Message									
07/11/2014	12:08:05					Started Acquisition									
07/11/2014	14:29:11	-3	0.0	8.32	0.0										
07/11/2014	14:29:21					Start Job									
07/11/2014	14:29:21	-3	0.0	8.32	0.0										
07/11/2014	14:29:22					Rig Up									
07/11/2014	14:29:22	-3	0.0	8.32	0.0										
07/11/2014	14:29:23					Hold Safety Meeting									
07/11/2014	14:29:23					Flush Lines									
07/11/2014	14:29:23	-3	0.0	8.32	0.0										
07/11/2014	14:29:31					Pressure Test Lines									
07/11/2014	14:29:31	-3	0.0	8.32	0.0										
07/11/2014	14:29:38					Pressure During Circulation									
07/11/2014	14:29:38					1300 psi									
07/11/2014	14:29:38	-3	0.0	8.32	0.0										
07/11/2014	14:29:45	-3	0.0	8.32	0.0										
07/11/2014	14:31:25	-4	0.0	8.32	0.0										
07/11/2014	14:33:05	-5	0.0	8.32	0.0										
07/11/2014	14:34:45	-4	0.0	8.32	0.0										
07/11/2014	14:36:25	-5	0.0	8.32	0.0										
07/11/2014	14:38:05	-5	0.0	8.32	0.0										
07/11/2014	14:39:45	314	0.0	8.32	0.6										

Well			Field	Job Start		Customer	Job Number
Horestail 30F-3105 30F-3105			Wildcat	Jul/11/2014		Whiting	1991635
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
07/11/2014	14:43:05	1380	2.0	8.32	5.9		
07/11/2014	14:44:45	1106	0.0	8.32	9.2		
07/11/2014	14:46:25	-4	0.0	8.32	9.2		
07/11/2014	14:48:05	-4	0.0	8.32	9.2		
07/11/2014	14:48:20					Turned Back Over To Rig	
07/11/2014	14:48:20	-3	0.0	8.32	9.2		
07/11/2014	15:04:01					Started Acquisition	
07/11/2014	15:04:01	1225	2.2	8.32	9.2		
07/11/2014	15:04:45	1293	2.2	8.32	10.9		
07/11/2014	15:06:25	710	0.0	8.32	11.8		
07/11/2014	15:06:38					Rep Didnt Want To Circulate	
07/11/2014	15:06:38					Low Test 2300 psi = Good	
07/11/2014	15:06:38	712	0.0	8.32	11.8		
07/11/2014	15:06:39					High Test 4800 psi = Good	
07/11/2014	15:06:39	711	0.0	8.32	11.8		
07/11/2014	15:08:05	717	0.0	8.32	11.8		
07/11/2014	15:09:45	2277	0.0	8.32	11.8		
07/11/2014	15:11:25	4824	0.0	8.32	11.8		
07/11/2014	15:13:05	4777	0.0	8.32	11.8		
07/11/2014	15:14:45	-6	0.0	8.32	11.8		
07/11/2014	15:16:25	626	0.0	8.32	11.8		
07/11/2014	15:18:05	638	0.0	8.32	11.8		
07/11/2014	15:19:00					Start Pumping Spacer	
07/11/2014	15:19:00					Pump 30 bbls Of 11.5 ppg Mudpush	
07/11/2014	15:19:00					Good Returns	
07/11/2014	15:19:00	647	0.0	8.32	11.8		
07/11/2014	15:19:45	652	0.0	8.32	11.8		
07/11/2014	15:21:25	968	1.5	9.90	13.7		
07/11/2014	15:23:05	1119	2.0	11.22	16.4		
07/11/2014	15:24:45	1360	2.2	11.52	20.1		
07/11/2014	15:26:25	1345	2.2	11.44	23.9		
07/11/2014	15:28:05	1356	2.2	11.40	27.6		
07/11/2014	15:29:45	1312	2.3	11.40	31.3		
07/11/2014	15:31:25	1225	2.3	11.35	35.1		
07/11/2014	15:33:05	1101	2.3	11.36	38.9		
07/11/2014	15:34:45	409	0.0	11.41	41.8		
07/11/2014	15:36:25	406	0.0	11.39	41.8		
07/11/2014	15:38:00					Start Mixing Lead Slurry	
07/11/2014	15:38:00					End Lead Slurry	
07/11/2014	15:38:00					Start Mixing Tail Slurry	
07/11/2014	15:38:00					Pump 145 bbls Of 13.5 ppg Cement	
07/11/2014	15:38:00					500 sks Y=1.63	
07/11/2014	15:38:00					Wet and Dry Samples	
07/11/2014	15:38:00					Weight 13.5 ppg	
07/11/2014	15:38:00					Dry Sample # 006297	
07/11/2014	15:38:00					Water Sample # 006221	
07/11/2014	15:38:00					Good Returns	
07/11/2014	15:38:00	412	0.0	11.39	41.8		
07/11/2014	15:38:05	412	0.0	11.39	41.8		
07/11/2014	15:39:45	415	0.0	11.38	41.8		
07/11/2014	15:41:25	1251	2.3	13.41	43.3		
07/11/2014	15:43:05	938	2.2	13.36	47.0		
07/11/2014	15:44:45	1232	2.3	13.38	50.8		
07/11/2014	15:46:25	910	2.2	13.48	54.5		

Well			Field	Job Start		Customer	Job Number
Horetail 30F-3105 30F-3105			Wildcat	Jul/11/2014		Whiting	1991635
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
07/11/2014	15:49:45		716	2.3	13.48	62.0	
07/11/2014	15:51:25		512	2.1	13.44	65.8	
07/11/2014	15:53:05		675	2.2	13.54	70.3	
07/11/2014	15:54:45		439	2.3	13.54	74.0	
07/11/2014	15:56:25		441	2.3	13.59	77.8	
07/11/2014	15:58:05		409	2.3	13.53	81.6	
07/11/2014	15:59:45		431	2.3	13.51	85.4	
07/11/2014	16:01:25		515	2.3	13.49	89.2	
07/11/2014	16:03:05		403	2.3	13.50	92.9	
07/11/2014	16:04:45		407	2.2	13.49	96.7	
07/11/2014	16:06:25		464	2.3	13.49	100.5	
07/11/2014	16:08:05		449	2.3	13.50	104.3	
07/11/2014	16:09:45		795	3.2	13.48	108.2	
07/11/2014	16:11:25		1466	3.9	13.54	114.2	
07/11/2014	16:13:05		67	0.0	13.64	120.3	
07/11/2014	16:14:45		-0	0.0	13.60	120.4	
07/11/2014	16:16:25		21	0.8	13.61	121.2	
07/11/2014	16:18:05		243	2.3	13.57	124.4	
07/11/2014	16:19:45		373	2.3	13.54	128.2	
07/11/2014	16:21:25		434	2.3	13.52	132.0	
07/11/2014	16:23:05		528	2.3	13.50	135.7	
07/11/2014	16:24:45		661	2.3	13.50	139.5	
07/11/2014	16:26:25		672	2.3	13.49	143.3	
07/11/2014	16:28:05		752	2.2	13.50	147.0	
07/11/2014	16:29:45		494	2.3	13.49	150.8	
07/11/2014	16:31:25		423	2.3	13.48	154.6	
07/11/2014	16:33:05		415	2.3	13.48	158.4	
07/11/2014	16:34:45		407	2.3	13.48	162.1	
07/11/2014	16:36:25		368	2.3	13.49	165.9	
07/11/2014	16:38:05		370	2.3	13.47	169.7	
07/11/2014	16:39:45		355	2.3	13.51	173.5	
07/11/2014	16:41:25		731	2.3	13.50	177.3	
07/11/2014	16:43:05		477	2.3	13.50	181.0	
07/11/2014	16:44:45		441	2.3	13.48	184.8	
07/11/2014	16:46:25		387	2.3	13.49	188.6	
07/11/2014	16:46:27					End Tail Slurry	
07/11/2014	16:46:27		382	2.3	13.49	188.7	
07/11/2014	16:46:31					Shut Down	
07/11/2014	16:46:31		375	2.3	13.49	188.8	
07/11/2014	16:46:32					Wash Up	
07/11/2014	16:46:32		392	2.3	13.49	188.8	
07/11/2014	16:48:05		-19	0.0	13.53	190.5	
07/11/2014	16:49:45		-18	0.0	13.52	190.5	
07/11/2014	16:51:25		-18	0.0	13.51	190.5	
07/11/2014	16:53:05		-18	0.1	13.51	190.5	
07/11/2014	16:54:45		-8	1.0	8.36	193.1	
07/11/2014	16:56:25		121	5.0	7.85	199.3	
07/11/2014	16:58:05		148	4.6	9.21	207.3	
07/11/2014	16:59:45		74	3.5	8.39	214.3	
07/11/2014	17:01:25		15	1.2	8.35	220.3	
07/11/2014	17:03:05		-1	0.1	8.10	220.9	
07/11/2014	17:04:45		-4	0.0	8.02	221.0	
07/11/2014	17:06:25		-6	0.0	8.06	221.1	
07/11/2014	17:08:05		90	0.0	8.16	221.6	

Well			Field	Job Start		Customer	Job Number	
Horetail 30F-3105 30F-3105			Wildcat	Jul/11/2014		Whiting	1991635	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
07/11/2014	17:09:01	127	4.6	8.36	223.9			
07/11/2014	17:09:03					Start Displacement		
07/11/2014	17:09:03	126	4.6	8.36	224.1			
07/11/2014	17:09:45	1768	4.4	8.36	227.3			
07/11/2014	17:11:25	1617	2.7	8.36	230.6			
07/11/2014	17:13:05	1032	2.2	8.38	234.7			
07/11/2014	17:14:45	1803	3.2	8.35	239.3			
07/11/2014	17:16:25	1761	3.0	8.35	244.3			
07/11/2014	17:18:05	1855	2.9	8.34	249.2			
07/11/2014	17:19:45	1728	2.5	8.34	251.9			
07/11/2014	17:21:25	646	0.0	8.34	254.0			
07/11/2014	17:23:05	1522	1.9	8.34	256.4			
07/11/2014	17:24:45	1737	2.2	8.34	260.0			
07/11/2014	17:26:25	1745	2.2	8.33	263.7			
07/11/2014	17:28:05	1698	2.2	8.33	267.4			
07/11/2014	17:29:45	1685	2.2	8.33	271.1			
07/11/2014	17:31:25	1688	2.2	8.33	274.9			
07/11/2014	17:33:05	1682	2.2	8.33	278.6			
07/11/2014	17:34:45	1651	2.2	8.33	282.3			
07/11/2014	17:36:25	1980	2.9	8.33	286.4			
07/11/2014	17:38:05	2109	2.9	8.33	291.3			
07/11/2014	17:39:45	1939	2.9	8.33	296.0			
07/11/2014	17:41:25	2111	3.1	8.33	300.9			
07/11/2014	17:43:05	2043	3.2	8.33	306.2			
07/11/2014	17:44:45	2022	3.2	8.33	311.5			
07/11/2014	17:46:25	2005	3.2	8.33	316.7			
07/11/2014	17:48:05	2015	3.2	8.33	322.0			
07/11/2014	17:49:45	2000	3.2	8.33	327.2			
07/11/2014	17:51:25	1930	3.1	8.33	332.5			
07/11/2014	17:53:05	1943	3.1	8.33	337.7			
07/11/2014	17:54:45	2009	3.2	8.33	343.0			
07/11/2014	17:56:25	2030	3.2	8.33	348.4			
07/11/2014	17:58:05	2077	3.3	9.50	353.8			
07/11/2014	17:59:45	2054	3.3	11.58	359.3			
07/11/2014	18:01:25	2128	3.3	8.33	364.7			
07/11/2014	18:03:05	2202	3.2	8.33	370.1			
07/11/2014	18:04:45	1366	1.6	8.33	373.5			
07/11/2014	18:06:25	1388	1.6	8.33	376.2			
07/11/2014	18:08:05	1060	1.0	8.33	377.8	Displace 154 BBls		
07/11/2014	18:09:30					Bump Top Plug To 2449 psi		
07/11/2014	18:09:30	2458	0.0	8.33	378.7			
07/11/2014	18:09:37					Final Circulating psi 1411		
07/11/2014	18:09:37					Floats Held		
07/11/2014	18:09:37	2461	0.0	8.33	378.7			
07/11/2014	18:09:38					1 1/2 bbls Back		
07/11/2014	18:09:38					Good Return Throughout Job		
07/11/2014	18:09:38	2462	0.0	8.33	378.7			
07/11/2014	18:09:45	2463	0.0	8.33	378.7			
07/11/2014	18:11:25	-9	0.0	8.33	378.7			
07/11/2014	18:12:33					Set Packer		
07/11/2014	18:12:33	-8	0.0	8.33	378.7			
07/11/2014	18:12:34					Test Packer 2500 psi		
07/11/2014	18:12:34					For 3 min. = Good Test		
07/11/2014	18:12:34					Pull Out Of Liner		

Well			Field	Job Start		Customer	Job Number	
Horestail 30F-3105 30F-3105			Wildcat	Jul/11/2014		Whiting	1991635	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
07/11/2014	18:12:34	-8	0.0	8.33	378.7			
07/11/2014	18:12:35					8 bbls Of Cement Back		
07/11/2014	18:12:35	-8	0.0	8.33	378.7			
07/11/2014	18:13:05	-8	0.0	8.33	378.8			
07/11/2014	18:14:45	-7	0.0	8.33	378.8			
07/11/2014	18:16:25	-6	0.0	8.33	378.8			
07/11/2014	18:18:05	-6	0.0	8.33	378.8			
07/11/2014	18:19:45	-6	0.0	8.33	378.8			
07/11/2014	18:21:25	-6	0.0	8.33	378.8			
07/11/2014	18:23:05	-8	0.0	8.33	378.8			
07/11/2014	18:24:45	-10	0.0	8.33	378.8			
07/11/2014	18:26:25	-11	0.0	8.33	378.8			
07/11/2014	18:28:05	-11	0.0	8.33	378.8			
07/11/2014	18:29:45	2578	0.0	8.32	378.9			
07/11/2014	18:31:25	2246	0.0	8.33	378.9			
07/11/2014	18:33:05	-10	0.0	8.33	378.9			
07/11/2014	18:34:45	-10	0.0	8.33	378.9			
07/11/2014	18:36:25	177	0.8	8.33	379.2			
07/11/2014	18:38:05	407	0.0	8.33	379.4			
07/11/2014	18:39:45	955	2.9	8.33	382.2			
07/11/2014	18:41:25	1090	3.9	8.33	387.6			
07/11/2014	18:43:05	1327	4.5	8.33	395.0			
07/11/2014	18:44:45	1864	6.3	8.33	403.2			
07/11/2014	18:46:25	1840	6.3	8.33	413.7			
07/11/2014	18:48:05	1708	6.3	8.33	424.3			
07/11/2014	18:49:45	1654	6.3	8.33	434.8			
07/11/2014	18:51:25	1536	6.3	8.33	445.3			
07/11/2014	18:53:05	1282	6.2	8.33	455.9			
07/11/2014	18:54:45	315	0.0	8.33	456.3			
07/11/2014	18:56:25	142	0.8	8.33	457.8			
07/11/2014	18:58:05	456	2.2	8.33	459.8			
07/11/2014	18:59:45	757	4.5	8.33	466.5			
07/11/2014	19:01:25	651	4.5	8.34	474.0			
07/11/2014	19:03:05	595	4.5	8.33	481.6			
07/11/2014	19:04:45	600	4.5	8.33	489.1			
07/11/2014	19:06:25	536	4.5	8.33	496.6			
07/11/2014	19:08:05	526	4.5	8.33	504.1			
07/11/2014	19:09:00					Rig Down		
07/11/2014	19:09:00	7	0.0	8.33	507.0			
07/11/2014	19:09:01					End Job		
07/11/2014	19:09:01	7	0.0	8.33	507.0			
07/11/2014	19:09:45	207	1.9	8.33	507.6			
07/11/2014	19:11:25	1013	6.3	8.32	515.1			
07/11/2014	19:13:05	6	0.0	8.33	521.0			
07/11/2014	19:14:45	5	0.0	8.33	521.0			
07/11/2014	19:16:25	-5	0.0	8.33	521.0			
07/11/2014	19:18:05	-8	0.0	8.33	521.0			
07/11/2014	19:19:45	-7	0.0	8.33	521.0			
07/11/2014	19:21:25	-7	0.0	8.33	521.0			
07/11/2014	19:23:05	-7	0.0	8.33	521.0			
07/11/2014	19:24:45	-0	1.8	8.32	521.4			

Well Horestail 30F-3105 30F-3105	Field Wildcat	Job Start Jul/11/2014	Customer Whiting	Job Number 1991635
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Post Job Summary

Average Pump Rates,				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry 145.0	Mud	Spacer 30.0	N2
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum 2000	Final 1411	Average	Bump Plug to 2449	Breakdown	Type	Volume	Density
Avg. N2 Percent	Designed Slurry Volume 145.0 bbl	Displacement 156.0 bbl	Mix Water Temp 75 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 8.0 bbl		
				Washed Thru Perfs <input type="checkbox"/>	To		
Customer or Authorized Representative Kevin Mosley			Schlumberger Supervisor Justin Zika/Leiker		Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
					-	-	

JOB PROCEDURE

Pressure Test to: 500/4500 psi

Stage	Volume (bbls)	Density (ppg)	Rate (bpm)	Time (min)
N/A	0	8.34	6	0
N/A	0	0.00	6	0
MUDPUSH II	30	11.5	6	5
N/A	0	0.00	6	0
13.5 Liner	145	13.50	6	25
Shut Down Drop Top Plug Wash on Fly				10
Displacement	156	8.34	8	20

55

Slow down in the last 10 bbls

60 min

DO NOT DISPLACE OVER:

156.7

bbls

Bump the Plug

Check Float

Differential Pressure: 1039 psi

Lift Pressure: 9482 psi

LEAD:

TT= 3:30

TAIL :

TT= 5:15