

Cementing Service Report

				Customer Whiting				Job Number D0XZ-00477									
Well Horsetail 30F-1944				Location (legal)				Schlumberger Location				Job Start Sep/29/2014					
Field Wildcat		Formation Name/Type Shala		Deviation 90 deg		Bit Size 6.1 in		Well MD 13679.0 ft		Well TVD 5534.0 ft							
County Weld		State/Province Colorado		BHP psi		BHST 200 degF		BHCT 200 degF		Pore Press. Gradient lb/gal							
Well Master 0631523938		API/UWI 5123387410000															
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		6135.0		7.0		29.0		L80		8RD			
						13679.0		4.5		11.6		L80		8RD			
Drilling Fluid Type Other		Max. Density 9.40 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe											
						T/D		Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
Service Line Cementing		Job Type Liner				D		4981.0		4.0		0.0					
								0.0		0.0		0.0					
Max. Allowed Tub. Press 4500 psi		Max. Allowed Ann. Press psi		WH Connection Baker		Perforations/Open Hole											
						Top, ft		Bottom, ft		shot/ft		No. of Shots		Total Interval ft			
						ft		ft									
						ft		ft						Diameter in			
						ft		ft									
Service Instructions 5bbl water 40bbl Mudpush @ 11.5# 158bbl 545sks Liner CMT @ 13.5# 1.63 Yield 7.65 gal/sk water						Treat Down Drill Pipe		Displacement 166.1 bbl		Packer Type		Packer Depth ft					
						Tubing Vol. 32.0 bbl		Casing Vol. 134.1 bbl		Annular Vol. 261.0 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 psi				Shoe Type Float							Squeeze Type						
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 13679.0 ft							Tool Type						
No. Centralizers		Top Plugs 1		Bottom Plugs		Stage Tool Type							Tool Depth ft				
Cement Head Type Single						Stage Tool Depth ft							Tail Pipe Size in				
Job Scheduled For Sep/29/2014 19:30		Arrived on Location Sep/29/2014 19:30		Leave Location Sep/30/2014 07:30		Collar Type Float							Tail Pipe Depth ft				
						Collar Depth 13632.8 ft							Sqz. Total Vol. bbl				
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message											
09/30/2014	02:58:45	-4	0.1	8.35	0.0	Started Acquisition											
09/30/2014	02:59:09	-4	0.1	8.36	0.0	Start Job											
09/30/2014	02:59:11	-1	1.0	8.33	0.0	Start Pumping 5bbl Water											
09/30/2014	03:03:45	145	0.0	8.34	5.0												
09/30/2014	03:08:05	1005	0.0	8.34	5.1	Pressure Test Lines 1000psi											
09/30/2014	03:08:45	986	0.0	8.34	5.1												
09/30/2014	03:10:40	5376	0.0	8.34	5.1	Pressure Test Lines 5000psi											
09/30/2014	03:13:45	-11	0.0	8.34	5.1												
09/30/2014	03:16:07	-17	0.0	8.34	5.1	Reset Total, Vol = 5.08 bbl											
09/30/2014	03:18:45	-18	0.0	8.34	5.1												
09/30/2014	03:21:03	665	2.3	11.31	6.4	Start pumping mudpush											
09/30/2014	03:23:45	1492	4.5	11.54	15.6												
09/30/2014	03:28:26	126	0.0	11.47	33.6	End Mudpush											
09/30/2014	03:28:30	156	0.0	11.47	33.6	Reset Total, Vol = 28.48 bbl											
09/30/2014	03:28:45	138	0.0	11.47	33.6												
09/30/2014	03:33:45	520	2.3	13.20	34.5												
09/30/2014	03:33:52	484	2.3	13.37	34.7	Start Mixing Lead Slurry											
09/30/2014	03:38:45	1352	4.5	13.49	55.8												
09/30/2014	03:43:45	1312															

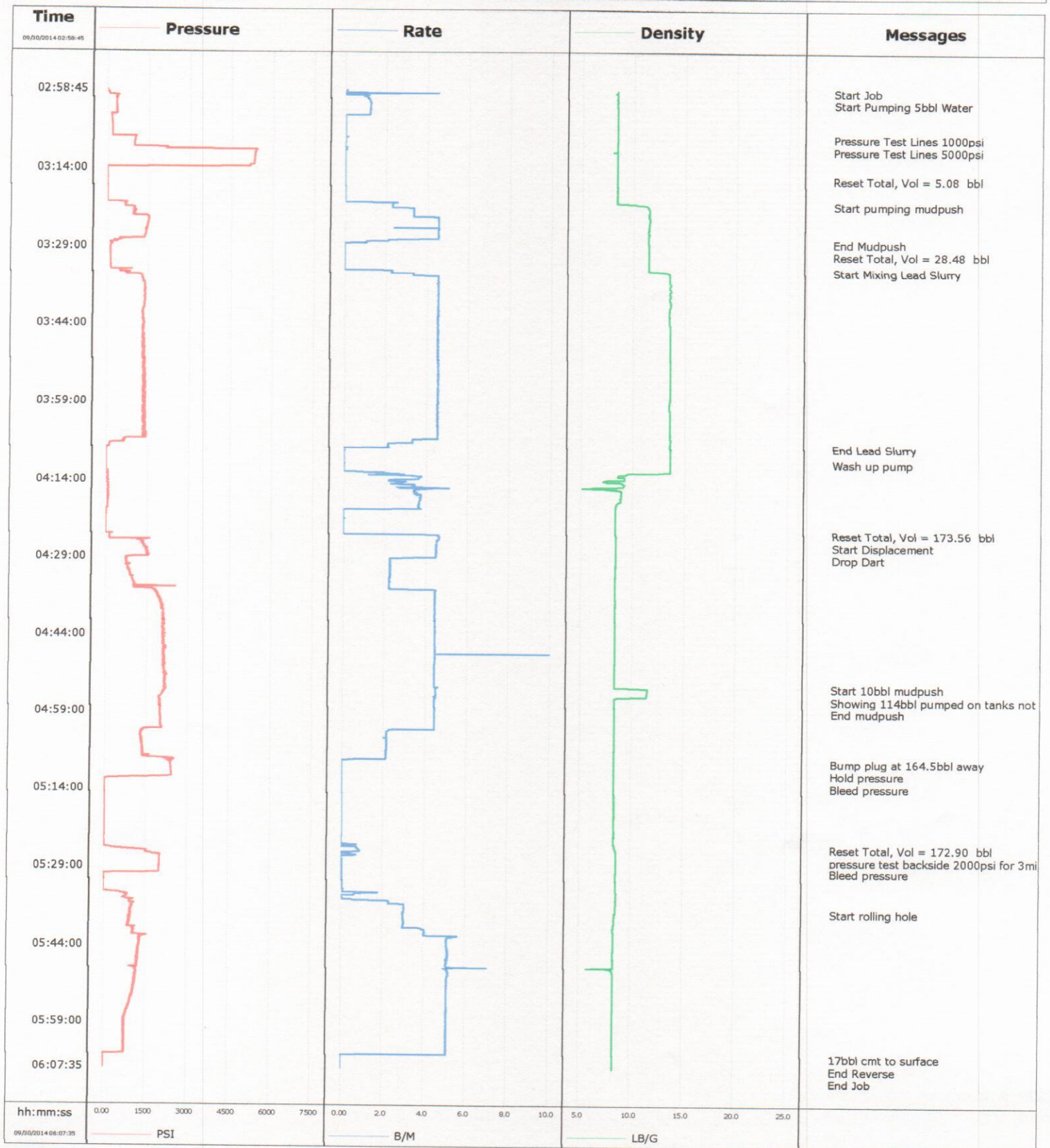
Well		Field		Job Start		Customer		Job Number
Horsetail 30F-1944		Wildcat		Sep/29/2014		Whiting		D0XZ-00477
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
09/30/2014	04:03:45	1328	4.5	13.51	168.6			
09/30/2014	04:07:42	7	0.0	13.61	182.7	End Lead Slurry		
09/30/2014	04:08:45	-4	0.0	13.60	182.7			
09/30/2014	04:10:38	-4	0.0	13.57	182.8	Wash up pump		
09/30/2014	04:13:45	29	2.5	8.84	187.0			
09/30/2014	04:18:45	72	3.7	8.38	204.1			
09/30/2014	04:23:45	-1	0.0	8.33	207.1			
09/30/2014	04:24:32	52	0.1	8.33	207.1	Reset Total, Vol = 173.56 bbl		
09/30/2014	04:24:39	169	4.5	8.36	207.4	Start Displacement		
09/30/2014	04:24:54	138	4.6	8.39	208.6	Drop Dart		
09/30/2014	04:28:45	1510	4.5	8.37	225.9			
09/30/2014	04:33:45	987	2.2	8.34	237.9			
09/30/2014	04:38:45	2047	4.4	8.34	257.0			
09/30/2014	04:43:45	2102	4.4	8.33	279.3			
09/30/2014	04:48:45	2141	4.4	8.33	306.4			
09/30/2014	04:53:45	2150	4.4	8.34	328.6			
09/30/2014	04:54:21	2157	4.5	11.55	331.3	Start 10bbl mudpush		
09/30/2014	04:54:45	2180	4.5	11.51	333.1	Showing 114bbl pumped on tanks not digital		
09/30/2014	04:56:00	1995	4.5	8.62	338.7	End mudpush		
09/30/2014	04:58:45	1986	4.4	8.33	351.0			
09/30/2014	05:03:45	1320	2.1	8.33	370.2			
09/30/2014	05:08:45	2410	0.0	8.33	379.6			
09/30/2014	05:08:52	2365	0.0	8.33	379.6	Bump plug at 164.5bbl away		
09/30/2014	05:09:02	2385	0.0	8.34	379.6	Hold pressure		
09/30/2014	05:10:57	2434	0.0	8.34	379.6	Bleed pressure		
09/30/2014	05:13:45	8	0.0	8.34	379.6			
09/30/2014	05:18:45	7	0.0	8.34	379.6			
09/30/2014	05:23:45	-3	0.0	8.34	379.6			
09/30/2014	05:25:30	290	0.8	8.49	380.0	Reset Total, Vol = 172.90 bbl		
09/30/2014	05:27:10	2027	0.0	8.57	380.7	pressure test backside 2000psi for 3min.		
09/30/2014	05:28:45	2013	0.0	8.56	380.8			
09/30/2014	05:30:00	2007	0.0	8.54	380.8	Bleed pressure		
09/30/2014	05:33:45	-3	0.1	8.57	381.0			
09/30/2014	05:37:43	938	3.0	8.47	388.0	Start rolling hole		
09/30/2014	05:38:45	941	3.0	8.42	391.1			
09/30/2014	05:43:45	1313	5.1	8.36	411.2			
09/30/2014	05:48:45	1129	5.1	8.23	437.1			
09/30/2014	05:53:45	1040	5.1	8.34	462.7			
09/30/2014	05:58:45	771	5.1	8.34	488.3			
09/30/2014	06:03:45	787	5.1	8.34	513.8			
09/30/2014	06:05:33	9	0.0	8.34	520.1	17bbl cmt to surface		
09/30/2014	06:05:48	6	0.0	8.34	520.1	End Reverse		

Well	Horsetail 30F-1944	Field	Wildcat	Job Start	Sep/29/2014	Customer	Whiting	Job Number	D0XZ-00477
------	--------------------	-------	---------	-----------	-------------	----------	---------	------------	------------

Post Job Summary

Average Pump Rates, bbl/ min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2	
3.5			296.0	158.0	0.0	40.0		
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final	Average	Ramp Plug to	Breakdown	Type	Volume	Density	
2436	0	1161	2300			bbl	lb/gal	
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume		
%	158.0 bbl		164.5 bbl	64 degF	<input checked="" type="checkbox"/>	15.0 bbl		
Customer or Authorized Representative Lewis Young			Schlumberger Supervisor Chris Valerio/Charles Peavey		Washed Thru Perfs	To		
					<input type="checkbox"/>	ft		
					Circulation Lost	Job Completed		
					<input type="checkbox"/>	<input checked="" type="checkbox"/>		
					-	-		

Well	Horsetail	Client	Whiting
Field	Wildcat	SIR No.	D0XZ-00477
Engineer	Chris Valerio/Charles Peavey	Job Type	Liner
Country	United States	Job Date	09-29-2014



09/30/2014 06:21:41