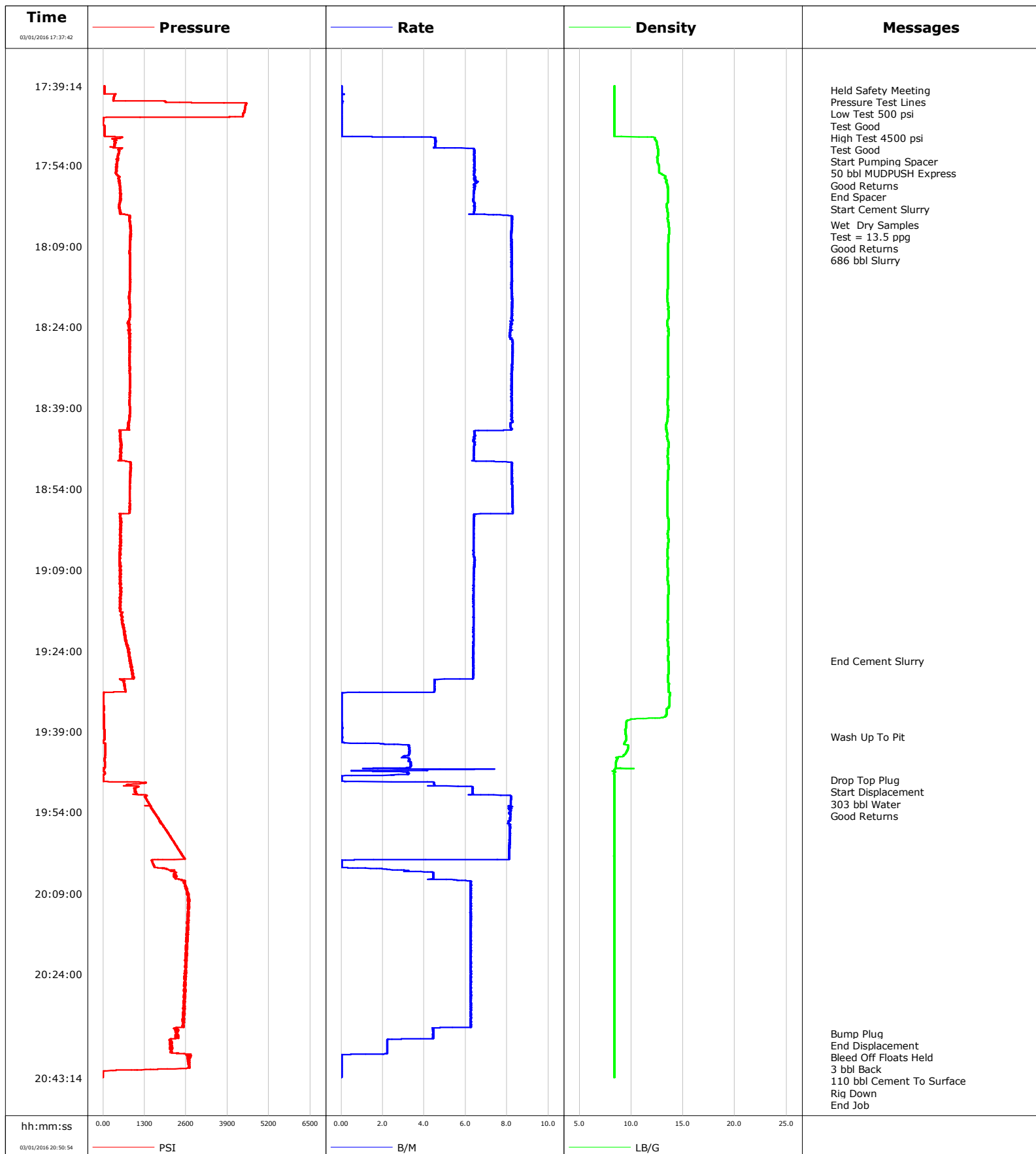


Well	Horsetail 07E-0636	Client	Whiting
Field		SIR No.	DKFJ-00020
Engineer	Jordan Moreland / Connley Jensen	Job Type	5 1/2 Production
Country		Job Date	



Cementing Service Report

				Customer Whiting				Job Number DKFJ-00020			
Well Horsetail 07E-0636			Location (legal)			Schlumberger Location			Job Start Mar/01/2016		
Field		Formation Name/Type		Deviation deg		Bit Size 8.5 in		Well MD ft		Well TVD ft	
County Weld		State/Province Colorado		BHP psi		BHST 214 degF		BHCT 214 degF		Pore Press. Gradient lb/gal	
Well Master 0631641689		API/UWI 0512341648									
Rig Name Unit 409		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		13698.0		5.5		20.0	
						0.0		0.0		0.0	
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
										Weight, lb/ft	
										Grade	
										Thread	
Service Line Cementing		Job Type 5 1/2 Production									
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection Single Cement head		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
										No. of Shots	
										Total Interval ft	
										Diameter in	
						Treat Down Casing		Displacement 303.0 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 304.0 bbl		Annular Vol. 573.0 bbl	
										Openhole Vol. 891.0 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 11531 psi						Shoe Type Float				Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 13698.0 ft				Tool Type	
No. Centralizers		Top Plugs 1		Bottom Plugs 1		Stage Tool Type				Tool Depth ft	
Cement Head Type Double						Stage Tool Depth ft				Tail Pipe Size in	
Job Scheduled For Mar/01/2016		Arrived on Location Mar/01/2016		Leave Location Mar/01/2016		Collar Type Float				Tail Pipe Depth ft	
						Collar Depth 13650.0 ft				Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message					
03/01/2016	17:37:42	248	2.0	8.35	0.0						
03/01/2016	17:39:00	38	0.0	8.36	2.2	Rig Up Per Standard					
03/01/2016	17:39:42	36	0.0	8.35	2.2						
03/01/2016	17:40:00	36	0.0	8.36	2.2	Held Safety Meeting					
03/01/2016	17:41:00	357	0.0	8.36	2.2	Pressure Test Lines					
03/01/2016	17:41:42	327	0.0	8.36	2.2						
03/01/2016	17:42:00	317	0.0	8.35	2.2	Low Test 500 psi					
03/01/2016	17:43:00	4458	0.0	8.36	2.2	Test Good					
03/01/2016	17:43:42	4436	0.0	8.36	2.2						
03/01/2016	17:44:00	4427	0.0	8.36	2.2	High Test 4500 psi					
03/01/2016	17:45:00	3961	0.0	8.36	2.2	Test Good					
03/01/2016	17:45:42	9	0.0	8.36	2.2						
03/01/2016	17:46:00	-4	0.0	8.36	2.2	Start Pumping Spacer					
03/01/2016	17:47:00	34	0.0	8.36	2.2	50 bbl MUDPUSH Express					
03/01/2016	17:47:42	38	0.0	8.36	2.2						
03/01/2016	17:48:00	37	0.0	8.36	2.2	Good Returns					
03/01/2016	17:49:42	375	4.6	12.44	6.7						
03/01/2016	17:51:42	504	6.4	12.59	17.5						
03/01/2016	17:53:42	438	6.4	12.60	30.3						
03/01/2016	17:54:00	424	6.4	12.66	32.3	End Spacer					
03/01/2016	17:55:42	439	6.4	12.97	43.2						

Well Horsetail 07E-0636			Field		Job Start Mar/01/2016		Customer Whiting		Job Number DKFJ-00020	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G		Volume BBL		Message	
03/01/2016	17:59:42	552		6.4	13.54		68.9			
03/01/2016	18:00:00	556		6.4	13.53		70.8		Start Cement Slurry	
03/01/2016	18:01:42	496		6.5	13.39		81.7			
03/01/2016	18:03:42	835		8.2	13.52		95.5			
03/01/2016	18:05:00	853		8.2	13.60		106.2		Wet Dry Samples	
03/01/2016	18:05:42	863		8.2	13.63		111.9			
03/01/2016	18:06:00	887		8.2	13.65		114.4		Test = 13.5 ppg	
03/01/2016	18:07:00	869		8.2	13.60		122.6		Good Returns	
03/01/2016	18:07:42	854		8.2	13.59		128.3			
03/01/2016	18:08:00	848		8.2	13.58		130.8		686 bbl Slurry	
03/01/2016	18:09:42	830		8.2	13.53		144.8			
03/01/2016	18:11:42	847		8.2	13.55		161.2			
03/01/2016	18:13:42	848		8.2	13.53		177.6			
03/01/2016	18:15:42	853		8.2	13.55		194.1			
03/01/2016	18:17:42	824		8.2	13.49		210.5			
03/01/2016	18:19:42	832		8.2	13.54		226.9			
03/01/2016	18:21:42	849		8.2	13.59		243.4			
03/01/2016	18:23:42	817		8.2	13.47		259.8			
03/01/2016	18:25:42	832		8.1	13.56		276.1			
03/01/2016	18:27:42	824		8.3	13.54		292.6			
03/01/2016	18:29:42	839		8.2	13.52		309.1			
03/01/2016	18:31:42	841		8.2	13.52		325.6			
03/01/2016	18:33:42	838		8.2	13.56		342.0			
03/01/2016	18:35:42	832		8.2	13.55		358.4			
03/01/2016	18:37:42	831		8.2	13.48		374.8			
03/01/2016	18:39:42	843		8.2	13.53		391.3			
03/01/2016	18:41:42	811		8.2	13.43		407.7			
03/01/2016	18:43:42	550		6.4	13.47		423.1			
03/01/2016	18:45:42	577		6.4	13.61		436.0			
03/01/2016	18:47:42	566		6.4	13.52		448.8			
03/01/2016	18:49:42	859		8.2	13.57		463.0			
03/01/2016	18:51:42	855		8.2	13.54		479.4			
03/01/2016	18:53:42	834		8.2	13.50		495.9			
03/01/2016	18:55:42	837		8.2	13.48		512.3			
03/01/2016	18:57:42	825		8.3	13.49		528.8			
03/01/2016	18:59:42	541		6.4	13.59		543.4			
03/01/2016	19:01:42	560		6.4	13.56		556.2			
03/01/2016	19:03:42	546		6.4	13.57		568.9			
03/01/2016	19:05:42	527		6.4	13.50		581.7			
03/01/2016	19:07:42	504		6.4	13.51		594.5			
03/01/2016	19:09:42	515		6.4	13.53		607.3			
03/01/2016	19:11:42	544		6.4	13.56		620.0			
03/01/2016	19:13:42	544		6.4	13.56		632.8			
03/01/2016	19:15:42	524		6.4	13.53		645.5			
03/01/2016	19:17:42	564		6.4	13.54		658.3			
03/01/2016	19:19:42	668		6.4	13.55		671.0			
03/01/2016	19:21:42	692		6.4	13.52		683.8			
03/01/2016	19:23:42	794		6.4	13.57		696.5			
03/01/2016	19:25:42	828		6.4	13.55		709.2			
03/01/2016	19:26:00	829		6.3	13.57		711.1		End Cement Slurry	
03/01/2016	19:27:42	894		6.4	13.57		721.9			
03/01/2016	19:29:42	655		4.5	13.55		733.9			
03/01/2016	19:31:42	333		4.5	13.58		742.9			
03/01/2016	19:33:42	4		0.0	13.68		743.2			

Well			Field		Job Start		Customer		Job Number	
Horsetail 07E-0636					Mar/01/2016		Whiting		DKFJ-00020	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
03/01/2016	19:37:42	27	0.0	9.53	743.2					
03/01/2016	19:39:42	34	0.0	9.47	743.3					
03/01/2016	19:40:00	34	0.0	9.51	743.3	Wash Up To Pit				
03/01/2016	19:41:42	68	3.3	9.72	744.7					
03/01/2016	19:43:42	49	3.1	8.90	751.2					
03/01/2016	19:45:42	52	3.2	8.52	757.8					
03/01/2016	19:47:42	7	0.0	8.37	762.3					
03/01/2016	19:48:00	6	0.0	8.37	762.3	Drop Top Plug				
03/01/2016	19:49:00	764	4.5	8.38	765.3	Start Displacement				
03/01/2016	19:49:42	1008	6.3	8.38	769.4					
03/01/2016	19:50:00	1016	6.3	8.38	771.3	303 bbl Water				
03/01/2016	19:51:00	1350	8.2	8.37	778.0	Good Returns				
03/01/2016	19:51:42	1370	8.2	8.37	783.7					
03/01/2016	19:53:42	1569	8.2	8.37	800.1					
03/01/2016	19:55:42	1780	8.1	8.37	816.3					
03/01/2016	19:57:42	2012	8.1	8.37	832.6					
03/01/2016	19:59:42	2239	8.1	8.37	848.8					
03/01/2016	20:01:42	2453	8.1	8.37	865.0					
03/01/2016	20:03:42	1572	0.0	8.37	874.0					
03/01/2016	20:05:42	2212	4.4	8.36	878.7					
03/01/2016	20:07:42	2592	6.3	8.36	889.7					
03/01/2016	20:09:42	2678	6.3	8.37	902.1					
03/01/2016	20:11:42	2655	6.2	8.37	914.6					
03/01/2016	20:13:42	2673	6.2	8.37	927.1					
03/01/2016	20:15:42	2620	6.2	8.37	939.6					
03/01/2016	20:17:42	2652	6.2	8.38	952.1					
03/01/2016	20:19:42	2600	6.2	8.37	964.6					
03/01/2016	20:21:42	2574	6.3	8.37	977.0					
03/01/2016	20:23:42	2604	6.2	8.37	989.5					
03/01/2016	20:25:42	2582	6.2	8.37	1002.0					
03/01/2016	20:27:42	2565	6.3	8.37	1014.5					
03/01/2016	20:29:42	2538	6.2	8.37	1027.0					
03/01/2016	20:31:42	2537	6.3	8.37	1039.5					
03/01/2016	20:33:42	2482	6.2	8.37	1052.0					
03/01/2016	20:35:00	2317	4.4	8.37	1058.2	Bump Plug				
03/01/2016	20:35:42	2258	4.4	8.37	1061.3					
03/01/2016	20:36:00	2270	4.4	8.37	1062.6	End Displacement				
03/01/2016	20:37:00	2097	2.2	8.37	1065.0	Bleed Off Floats Held				
03/01/2016	20:37:42	2098	2.2	8.37	1066.5					
03/01/2016	20:38:00	2101	2.2	8.37	1067.2	3 bbl Back				
03/01/2016	20:39:00	2617	0.0	8.37	1069.2	110 bbl Cement To Surface				
03/01/2016	20:39:42	2720	0.0	8.37	1069.2					
03/01/2016	20:40:00	2673	0.0	8.37	1069.2	Rig Down				
03/01/2016	20:41:00	2677	0.0	8.37	1069.2	End Job				
03/01/2016	20:41:42	1579	0.0	8.37	1069.2					
03/01/2016	20:43:42	-4	0.0	8.37	1069.2					
03/01/2016	20:45:42	0	0.7	8.37	1069.3					
03/01/2016	20:47:42	-13	0.0	8.37	1070.3					

Well Horsetail 07E-0636	Field	Job Start Mar/01/2016	Customer Whiting	Job Number DKFJ-00020
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final 0	Average	Bump Plug to	Breakdown	Type	Volume bbl		Density lb/gal
Avg. N2 Percent %	Designed Slurry Volume 0.0 bbl	Displacement bbl	Mix Water Temp 66 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume bbl		
				Washed Thru Perfs <input type="checkbox"/>		To ft		
Customer or Authorized Representative			Schlumberger Supervisor Jordan Moreland / Connley Jensen			Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
						-		-