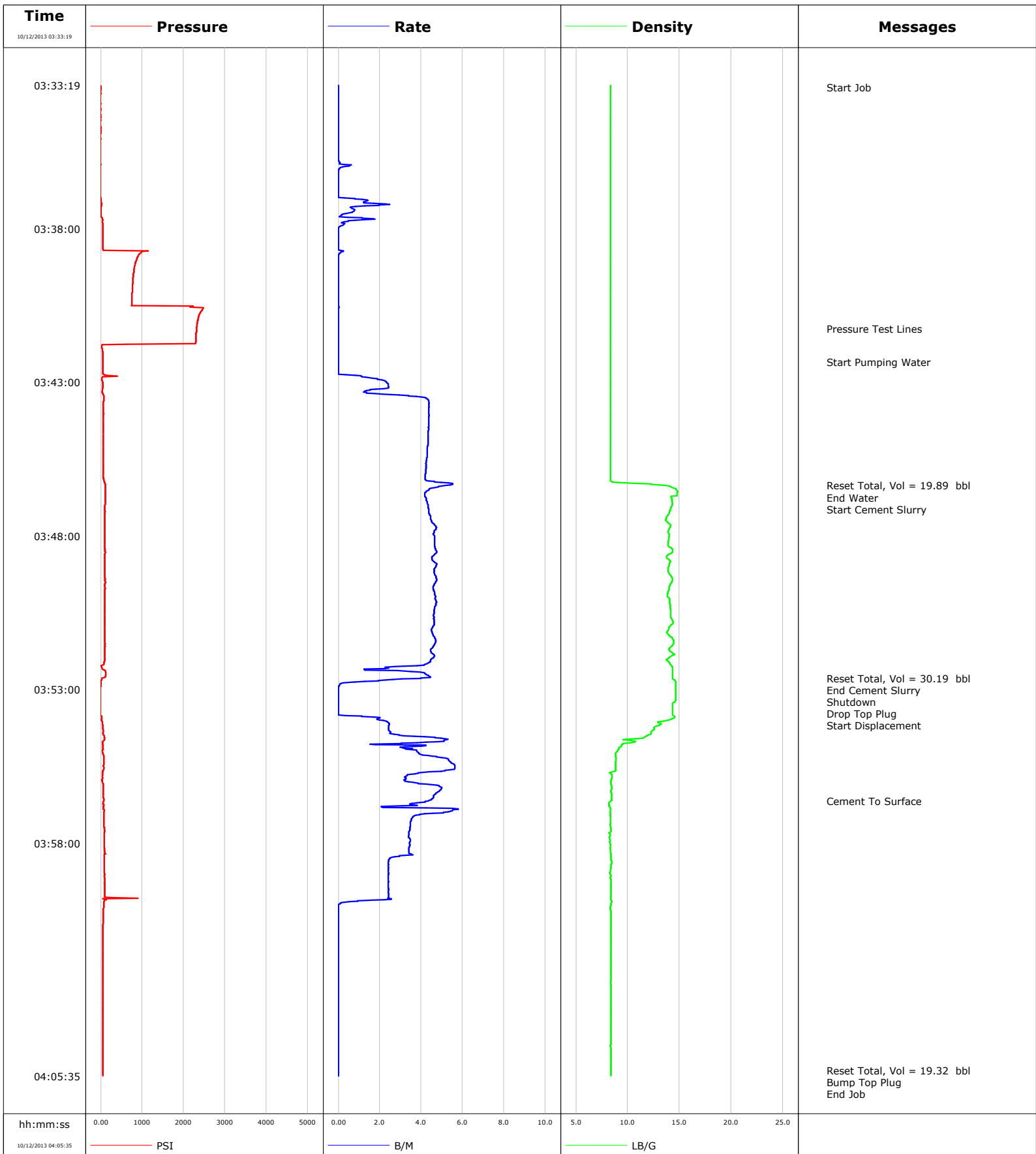


<b>Well</b>	BIG SKY 12-11	<b>Client</b>	NIGHTHAWK
<b>Field</b>	DJ	<b>SIR No.</b>	CPU7-00005
<b>Engineer</b>	MATT WHITE	<b>Job Type</b>	SURFACE
<b>Country</b>	United States	<b>Job Date</b>	10-11-2013



				<b>Customer</b> NIGHTHAWK			<b>Job Number</b> CPU7-00005								
<b>Well</b> BIG SKY 12-11			<b>Location (legal)</b>			<b>Schlumberger Location</b> WORLAND			<b>Job Start</b> Oct/11/2013						
<b>Field</b> DJ		<b>Formation Name/Type</b>			<b>Deviation</b>		<b>Bit Size</b> 12.3 in		<b>Well MD</b> 337.0 ft		<b>Well TVD</b> 337.0 ft				
<b>County</b> LINCOLN		<b>State/Province</b> Wyoming			<b>BHP</b>		<b>BHST</b>		<b>BHCT</b>		<b>Pore Press. Gradient</b>				
<b>Well Master</b>		<b>API/UWI</b>													
<b>Rig Name</b>		<b>Drilled For</b> Oil		<b>Service Via</b> Land		<b>Casing/Liner</b>									
						<b>Depth, ft</b>		<b>Size, in</b>		<b>Weight, lb/ft</b>		<b>Grade</b>		<b>Thread</b>	
<b>Offshore Zone</b>		<b>Well Class</b> New		<b>Well Type</b> Development		337.0		8.630		24.0		J55		8RD	
						0.0		0.000		0.0					
<b>Drilling Fluid Type</b> Water		<b>Max. Density</b> 8.34 lb/gal		<b>Plastic Viscosity</b>		<b>Tubing/Drill Pipe</b>									
						<b>Depth,</b>		<b>Size,</b>		<b>Weight,</b>		<b>Grade</b>		<b>Thread</b>	
<b>Service Line</b> Cementing		<b>Job Type</b> SURFACE													
<b>Max. Allowed Tub. Press</b> 1000 psi		<b>Max. Allowed Ann. Press</b>		<b>WH Connection</b> Single Cement head		<b>Perforations/Open Hole</b>									
						<b>Top,</b>		<b>Bottom,</b>		<b>No. of Shots</b>		<b>Total Interval</b>			
<b>Service Instructions</b> Cement Surface Casing														<b>Diameter</b>	
						<b>Treat Down</b> Casing		<b>Displacement</b> 18.8 bbl		<b>Packer Type</b>		<b>Packer Depth</b>			
						<b>Tubing Vol.</b>		<b>Casing Vol.</b> 21.5 bbl		<b>Annular Vol.</b> 24.8 bbl		<b>Openhole Vol.</b> 49.0 bbl			
<b>Casing/Tubing Secured</b> <input checked="" type="checkbox"/>		<b>1 Hole Vol. Circulated prior to Cement</b> <input checked="" type="checkbox"/>		<b>Casing Tools</b>				<b>Squeeze Job</b>							
<b>Lift Pressure</b> 100 psi		<b>Shoe Type</b> Guide		<b>Squeeze Type</b>											
<b>Pipe Rotated</b> <input type="checkbox"/>		<b>Pipe Reciprocated</b> <input type="checkbox"/>		<b>Shoe Depth</b> 337.0 ft		<b>Tool Type</b>									
<b>No. Centralizers</b>		<b>Top Plugs</b> 1		<b>Bottom Plugs</b>		<b>Stage Tool Type</b>		<b>Tool Depth</b>							
<b>Cement Head Type</b> Single		<b>Stage Tool Depth</b>		<b>Tail Pipe Size</b>											
<b>Job Scheduled For</b> Oct/11/2013		<b>Arrived on Location</b> Oct/11/2013		<b>Leave Location</b> Oct/11/2013		<b>Collar Type</b> Float		<b>Tail Pipe Depth</b>							
						<b>Collar Depth</b> 295.0 ft		<b>Sqz. Total Vol.</b>							
<b>Date</b>	<b>Time 24-hr clock</b>	<b>Treating Pressure PSI</b>	<b>Flow Rate B/M</b>	<b>Density LB/G</b>	<b>Volume BBL</b>	<b>Message</b>									
10/12/2013	03:18:40					Started Acquisition									
10/12/2013	03:33:19	-0	0.0	8.37	0.0										
10/12/2013	03:33:23					Start Job									
10/12/2013	03:33:23	-0	0.0	8.37	0.0										
10/12/2013	03:33:40	-0	0.0	8.37	0.0										
10/12/2013	03:38:40	52	0.0	8.36	0.8										
10/12/2013	03:41:15					Pressure Test Lines									
10/12/2013	03:41:15	2317	0.0	8.36	0.8										
10/12/2013	03:42:20					Start Pumping Water									
10/12/2013	03:42:20	49	0.0	8.36	0.8										
10/12/2013	03:43:40	71	4.4	8.36	3.1										
10/12/2013	03:46:22					Reset Total, Vol = 19.89 bbl									
10/12/2013	03:46:22	110	5.2	13.63	14.9										
10/12/2013	03:46:28					End Water									
10/12/2013	03:46:28	111	4.5	14.55	15.4										
10/12/2013	03:46:34					Start Cement Slurry									
10/12/2013	03:46:34	108	4.2	14.82	15.8										
10/12/2013	03:48:40	101	4.6	13.81	25.3										
10/12/2013	03:52:38					Reset Total, Vol = 30.19 bbl									
10/12/2013	03:52:38	42	4.0	14.34	43.1										
10/12/2013	03:52:42					End Cement Slurry									

Well		Field		Job Start		Customer		Job Number	
BIG SKY 12-11		DJ		Oct/11/2013		NIGHTHAWK		CPU7-00005	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
10/12/2013	03:52:44					Shutdown			
10/12/2013	03:52:44	-4	1.9	14.62	43.4				
10/12/2013	03:52:47					Drop Top Plug			
10/12/2013	03:52:47	10	0.5	14.63	43.4				
10/12/2013	03:53:40	-3	0.0	14.34	43.4				
10/12/2013	03:54:01					Start Displacement			
10/12/2013	03:54:01	20	2.2	13.79	43.7				
10/12/2013	03:56:37					Cement To Surface			
10/12/2013	03:56:37	76	4.4	8.50	54.2				
10/12/2013	03:58:40	87	2.4	8.44	61.4				
10/12/2013	04:03:40	55	0.0	8.40	64.4				
10/12/2013	04:05:24					Reset Total, Vol = 19.32 bbl			
10/12/2013	04:05:24	54	0.0	8.40	64.4				
10/12/2013	04:05:29					Bump Top Plug			
10/12/2013	04:05:29	55	0.0	8.40	64.4				
10/12/2013	04:05:31					End Job			
10/12/2013	04:05:31	55	0.0	8.40	64.4				

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2	
3.0			5.0	31.0		20.0		
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density	
120	0	60	900					
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume		
	31.0 bbl		18.8 bbl	68 degF	<input checked="" type="checkbox"/>			
					Washed Thru Perfs	To		
					<input type="checkbox"/>			
Customer or Authorized Representative			Schlumberger Supervisor			Circulation Lost	Job Completed	
			MATT WHITE			<input type="checkbox"/>	<input checked="" type="checkbox"/>	
						-	-	