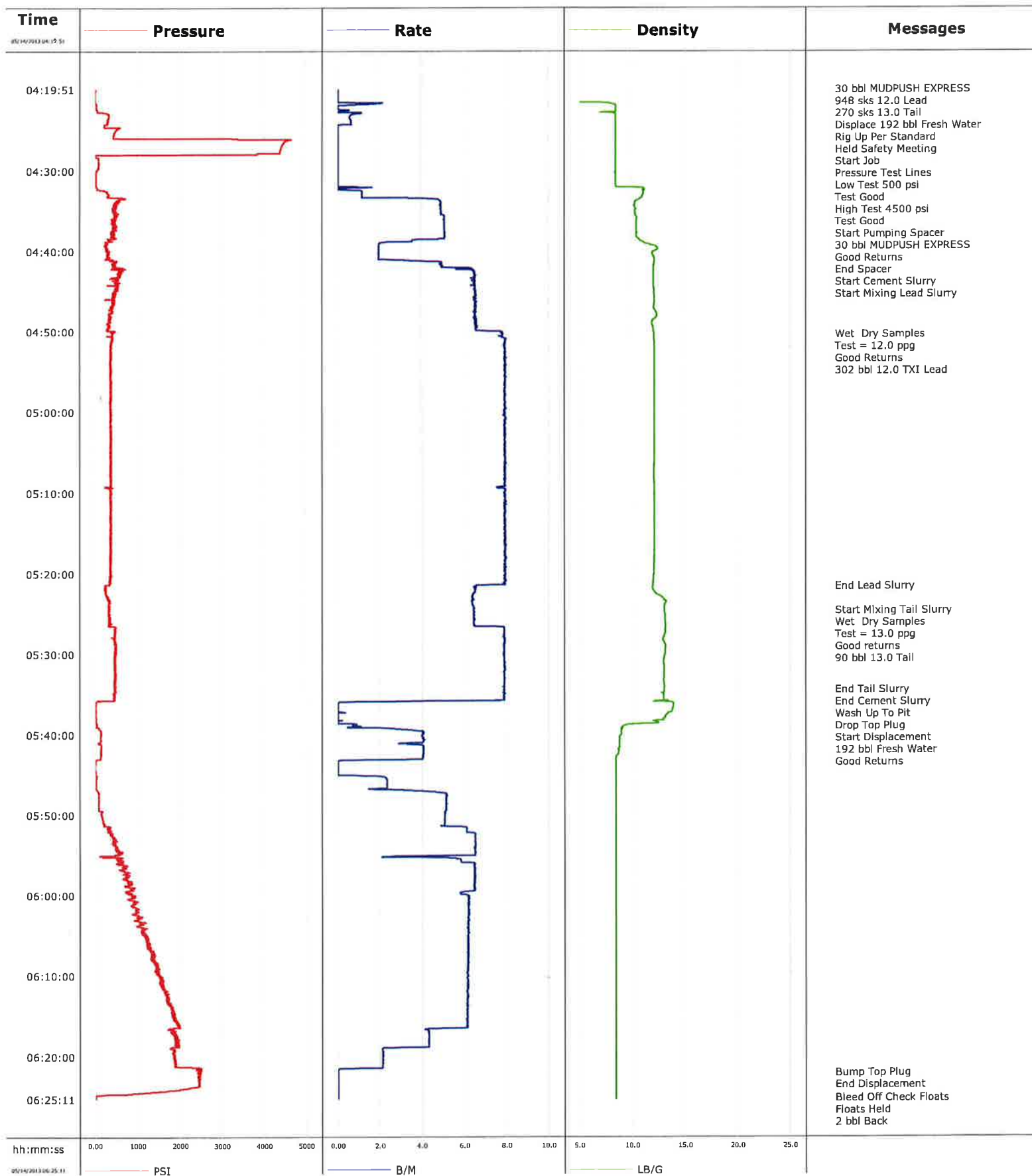


Well Big Sky 4-11
Field Wildcat
Engineer Jordan Moreland
Country United States

Client Nighthawk
SIR No.
Job Type 5 1/2 Production
Job Date 05-14-2013





Cementing Service Report

				Customer Nighthawk		Job Number CAIO-00489	
Well Big Sky 4-11		Location (legal)		Schlumberger Location GCO		Job Start May/14/2013	
Field Wildcat		Formation Name/Type		Deviation	Bit Size 7.9 in	Well MD	Well TVD
County Lincoln		State/Province Colorado		BHP	BHST 183 degF	BHCT 156 degF	Pore Press. Gradient
Well Master 0631452276		API/UWI					
Well Name Extreme 11	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	300.0	8.630	24.0	J-55	8RD
			0.0	5.500	17.0	N80	BUTT
Drilling Fluid Type		Max. Density	Plastic Viscosity	Tubing/Drill Pipe			
				Depth,	Size,	Weight,	Grade
Service Line Cementing		Job Type 5 1/2 Production					
Max. Allowed Tub. Press. 4500 psi		Max. Allowed Ann. Press	WH Connection Single Cement head	Perforations/Open Hole			
				Top,	Bottom,	No. of Shots	Total Interval
							Diameter
				Treat Down Casing	Displacement 192.0 bbl	Packer Type	Packer Depth
				Tubing Vol.	Casing Vol. 193.0 bbl	Annular Vol. 259.0 bbl	Openhole Vol. 454.0 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 Guide		Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 8346.0 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 May/14/2013		Arrived on Location May/14/2013	Leave Location May/14/2013	Collar Type Float		Tail Pipe Depth	
				Collar Depth 8253.0 ft		Sqz. Total Vol.	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
05/14/2013	03:12:01					Started Acquisition	
05/14/2013	04:19:51					30 bbl MUDPUSH EXPRESS	
05/14/2013	04:19:51					948 sks 12.0 Lead	
05/14/2013	04:19:51					270 sks 13.0 Tail	
05/14/2013	04:19:51					Displace 192 bbl Fresh Water	
05/14/2013	04:19:51	1	0.0	0.01	0.0		
05/14/2013	04:19:52					Rig Up Per Standard	
05/14/2013	04:19:52					Held Safety Meeting	
05/14/2013	04:19:52	1	0.0	0.01	0.0		
05/14/2013	04:19:53					Start Job	
05/14/2013	04:19:53	1	0.0	0.01	0.0		
05/14/2013	04:19:55					Pressure Test Lines	
05/14/2013	04:19:55	1	0.0	0.01	0.0		
05/14/2013	04:19:56					Low Test 500 psi	
05/14/2013	04:19:56					Test Good	
05/14/2013	04:19:56					High Test 4500 psi	
05/14/2013	04:19:56	1	0.0	0.01	0.0		
05/14/2013	04:19:57					Test Good	
05/14/2013	04:19:57	1	0.0	0.01	0.0		
05/14/2013	04:22:01	28	0.0	8.40	0.5		
05/14/2013	04:25:21	439	0.0	8.41	1.5		

Well			Field	Job Start	Customer	Job Number
Big Sky 4-11			Wildcat	May/14/2013	Nighthawk	CAIO-00489
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
05/14/2013	04:32:01	36	1.5	10.34	1.6	
05/14/2013	04:34:50					Start Pumping Spacer
05/14/2013	04:34:50					30 bbl MUDPUSH EXPRESS
05/14/2013	04:34:50	405	4.9	10.22	10.1	
05/14/2013	04:34:51					Good Returns
05/14/2013	04:34:51	405	4.9	10.21	10.2	
05/14/2013	04:35:21	506	4.9	10.25	12.6	
05/14/2013	04:38:41	356	3.5	10.77	29.1	
05/14/2013	04:41:41					End Spacer
05/14/2013	04:41:41	416	4.9	12.00	36.8	
05/14/2013	04:42:01	576	5.2	11.98	38.5	
05/14/2013	04:42:27					Start Cement Slurry
05/14/2013	04:42:27					Start Mixing Lead Slurry
05/14/2013	04:42:27	573	6.5	11.98	41.1	
05/14/2013	04:45:21	427	6.5	12.05	59.9	
05/14/2013	04:48:41	315	6.6	11.85	81.6	
05/14/2013	04:50:22					Wet Dry Samples
05/14/2013	04:50:22					Test = 12.0 ppg
05/14/2013	04:50:22					Good Returns
05/14/2013	04:50:22					302 bbl 12.0 TXI Lead
05/14/2013	04:50:22	389	7.8	12.03	93.2	
05/14/2013	04:52:01	353	7.9	12.07	106.2	
05/14/2013	04:55:21	352	7.9	12.07	132.6	
05/14/2013	04:58:41	345	7.9	12.06	159.0	
05/14/2013	05:02:01	352	7.9	12.06	185.4	
05/14/2013	05:05:21	368	7.9	12.06	211.8	
05/14/2013	05:08:41	365	7.9	12.05	238.3	
05/14/2013	05:12:01	364	7.9	12.07	264.6	
05/14/2013	05:15:21	370	7.9	12.07	291.0	
05/14/2013	05:18:41	361	7.9	12.05	317.5	
05/14/2013	05:21:35					End Lead Slurry
05/14/2013	05:21:35	227	6.5	11.89	340.2	
05/14/2013	05:22:01	239	6.5	11.97	343.0	
05/14/2013	05:24:36					Start Mixing Tail Slurry
05/14/2013	05:24:36	334	6.4	13.02	359.6	
05/14/2013	05:24:37					Wet Dry Samples
05/14/2013	05:24:37					Test = 13.0 ppg
05/14/2013	05:24:37					Good returns
05/14/2013	05:24:37					90 bbl 13.0 Tail
05/14/2013	05:24:37	310	6.4	13.02	359.7	
05/14/2013	05:25:21	332	6.4	13.07	364.4	
05/14/2013	05:28:41	479	7.9	13.05	388.9	
05/14/2013	05:32:01	472	7.9	12.97	415.2	
05/14/2013	05:34:28					End Tail Slurry
05/14/2013	05:34:28	456	7.9	12.99	434.5	
05/14/2013	05:34:29					End Cement Slurry
05/14/2013	05:34:29	440	7.9	12.99	434.6	
05/14/2013	05:34:31					Wash Up To Pit
05/14/2013	05:34:31	465	7.9	13.00	434.9	
05/14/2013	05:34:33					Drop Top Plug
05/14/2013	05:34:33					Start Displacement
05/14/2013	05:34:33	436	7.9	13.00	435.2	
05/14/2013	05:34:35					192 bbl Fresh Water
05/14/2013	05:34:35					Good Returns

Well			Field	Job Start	Customer	Job Number
Big Sky 4-11			Wildcat	May/14/2013	Nighthawk	CAIO-00489
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
05/14/2013	05:35:21	445	7.9	12.93	441.5	
05/14/2013	05:38:41	39	0.9	10.38	445.4	
05/14/2013	05:42:01	134	4.0	8.67	456.8	
05/14/2013	05:45:21	25	2.3	8.41	461.8	
05/14/2013	05:48:41	80	5.1	8.41	474.2	
05/14/2013	05:52:01	308	6.1	8.41	491.7	
05/14/2013	05:55:21	523	5.5	8.41	512.4	
05/14/2013	05:58:41	827	6.5	8.41	533.5	
05/14/2013	06:02:01	978	6.2	8.41	554.1	
05/14/2013	06:05:21	1241	6.2	8.41	574.7	
05/14/2013	06:08:41	1421	6.1	8.41	595.2	
05/14/2013	06:12:01	1670	6.1	8.41	615.6	
05/14/2013	06:15:21	1861	6.1	8.41	636.0	
05/14/2013	06:18:41	1914	4.3	8.41	652.3	
05/14/2013	06:21:57					Bump Top Plug
05/14/2013	06:21:57	2475	0.0	8.41	658.5	
05/14/2013	06:21:58					End Displacement
05/14/2013	06:21:58	2397	0.0	8.41	658.5	
05/14/2013	06:22:01	2470	0.0	8.41	658.5	
05/14/2013	06:25:05					Bleed Off Check Floats
05/14/2013	06:25:05	-1	0.0	8.41	658.5	
05/14/2013	06:25:06					Floats Held
05/14/2013	06:25:06					2 bbl Back
05/14/2013	06:25:06	-1	0.0	8.41	658.5	
05/14/2013	06:25:08					End Job
05/14/2013	06:25:08	0	0.0	8.41	658.5	

Post Job Summary

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