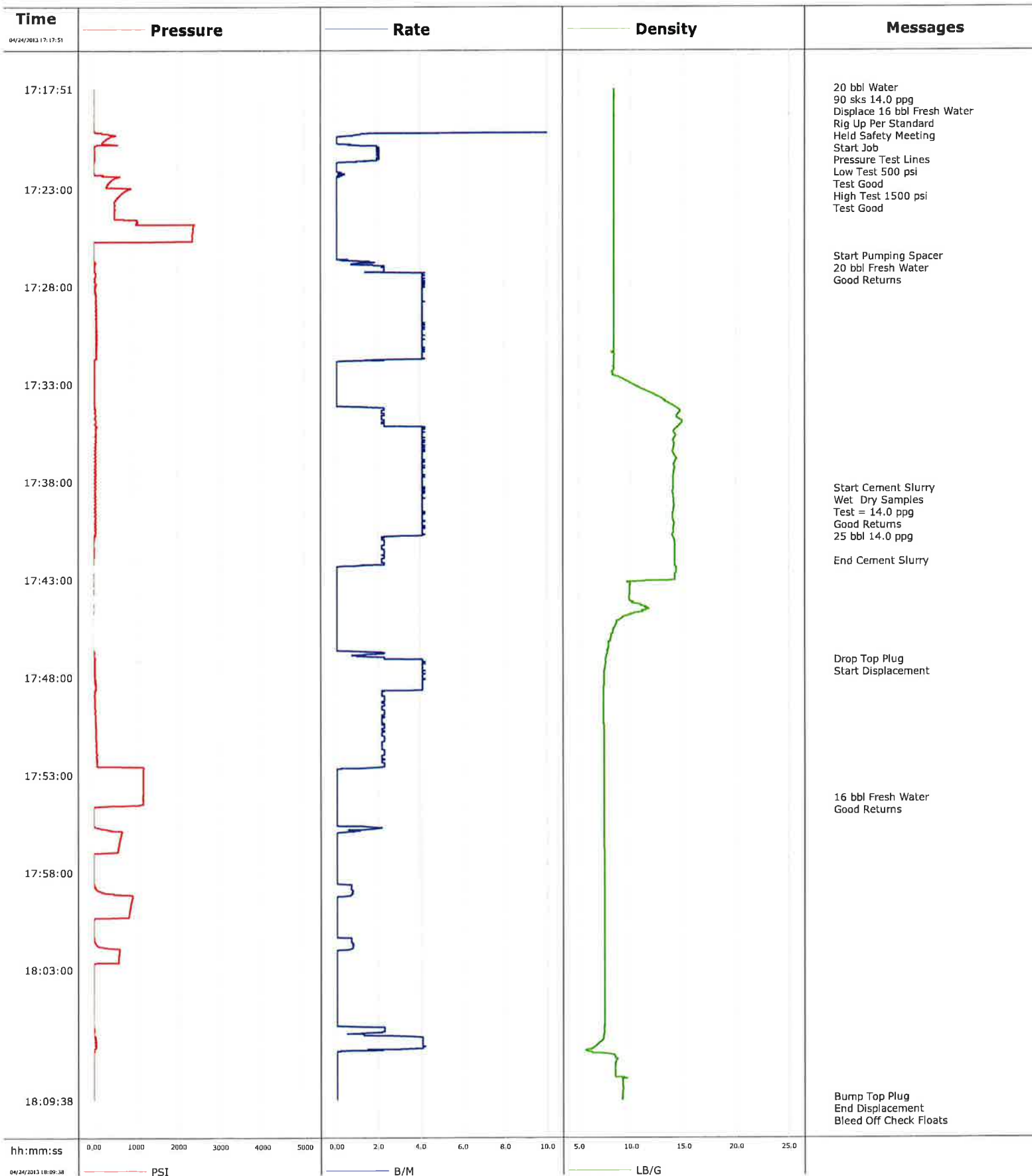


**Well** TAOS 1-10  
**Field** Wildcat  
**Engineer** Jordan Moreland  
**Country** United States

**Client** Nighthawk  
**SIR No.**  
**Job Type** 8 5/8 Surface  
**Job Date** 04-24-2013





# Cementing Service Report

				Customer Nighthawk		Job Number C1YY-00007									
Well TAOS 1-10		Location (legal)		Schlumberger Location GCO		Job Start Apr/24/2013									
Field Wildcat		Formation Name/Type		Deviation		Bit Size 11.0 in		Well MD		Well TVD					
County		State/Province Colorado		BHP		BHST 84 degF		BHCT 80 degF		Pore Press. Gradient					
Well Master 0631451707		API/UWI													
Rig Name SPUD		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		295.0		8.630		24.0		J55		8RD	
						0.0		0.000		0.0					
Drilling Fluid Type		Max. Density		Plastic Viscosity		Tubing/Drill Pipe									
						Depth,		Size,		Weight,		Grade		Thread	
Service Line Cementing		Job Type 8 5/8 Surface													
Max. Allowed Tub. Press 1500 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 16.0 bbl		Packer Type		Packer Depth			
						Tubing Vol.		Casing Vol. 17.0 bbl		Annular Vol. 14.0 bbl		Openhole Vol. 33.0 bbl			
Casing/Tubing Secured <input type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input type="checkbox"/>				Casing Tools				Squeeze Job					
Lift Pressure 123 psi						Shoe Type Guide				Squeeze Type					
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 300.0 ft				Tool Type					
No. Centralizers		Top Plugs		Bottom Plugs		Stage Tool Type				Tool Depth					
Cement Head Type Single						Stage Tool Depth				Tail Pipe Size					
Job Scheduled For Apr/24/2013		Arrived on Location Apr/24/2013		Leave Location Apr/24/2013		Collar Type Float				Tail Pipe Depth					
						Collar Depth 150.0 ft				Sqz. Total Vol.					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message									
04/24/2013	17:08:58					Started Acquisition									
04/24/2013	17:17:51					20 bbl Water									
04/24/2013	17:17:51					90 sks 14.0 ppg									
04/24/2013	17:17:51					Displace 16 bbl Fresh Water									
04/24/2013	17:17:51					Rig Up Per Standard									
04/24/2013	17:17:51					Held Safety Meeting									
04/24/2013	17:17:51	-4	25.0	8.38	0.4										
04/24/2013	17:17:53					Start Job									
04/24/2013	17:17:53	-4	25.0	8.38	1.2										
04/24/2013	17:17:54					Pressure Test Lines									
04/24/2013	17:17:54	-6	25.0	8.38	1.7										
04/24/2013	17:17:55					Low Test 500 psi									
04/24/2013	17:17:55					Test Good									
04/24/2013	17:17:55					High Test 1500 psi									
04/24/2013	17:17:55					Test Good									
04/24/2013	17:17:55	-6	25.0	8.38	2.1										
04/24/2013	17:18:58	-3	25.0	8.38	28.3										
04/24/2013	17:20:58	12	2.0	8.38	57.9										
04/24/2013	17:22:58	877	0.0	8.38	59.2										
04/24/2013	17:24:58	2356	0.0	8.38	59.2										
04/24/2013	17:26:30					Start Pumping Spacer									

Well			Field	Job Start		Customer	Job Number
TAOS 1-10			Wildcat	Apr/24/2013		Nighthawk	C1YY-00007
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
04/24/2013	17:26:39					20 bbl Fresh Water	
04/24/2013	17:26:39	-4	0.3	8.38	59.2		
04/24/2013	17:26:40					Good Returns	
04/24/2013	17:26:40	-2	0.3	8.38	59.2		
04/24/2013	17:26:58	17	2.2	8.38	59.6		
04/24/2013	17:28:58	51	4.1	8.38	67.2		
04/24/2013	17:30:58	66	4.1	8.38	75.4		
04/24/2013	17:32:58	17	0.0	9.95	78.7		
04/24/2013	17:34:58	48	2.2	14.81	80.4		
04/24/2013	17:36:58	37	4.1	14.15	88.3		
04/24/2013	17:38:22					Start Cement Slurry	
04/24/2013	17:38:22	37	4.1	13.96	94.0		
04/24/2013	17:38:24					Wet Dry Samples	
04/24/2013	17:38:24	27	4.1	13.95	94.1		
04/24/2013	17:38:25					Test = 14.0 ppg	
04/24/2013	17:38:25	28	4.1	13.95	94.2		
04/24/2013	17:38:26					Good Returns	
04/24/2013	17:38:26					25 bbl 14.0 ppg	
04/24/2013	17:38:26	28	4.1	13.95	94.3		
04/24/2013	17:38:58	32	4.1	14.03	96.5		
04/24/2013	17:40:58	7	2.2	14.07	104.3		
04/24/2013	17:42:05					End Cement Slurry	
04/24/2013	17:42:05	-1	2.2	14.11	106.8		
04/24/2013	17:42:58	-14	0.0	14.11	107.2		
04/24/2013	17:44:58	-12	0.0	9.17	107.2		
04/24/2013	17:46:58	13	1.6	7.60	107.7		
04/24/2013	17:47:08					Drop Top Plug	
04/24/2013	17:47:08	28	4.1	7.56	108.2		
04/24/2013	17:47:09					Start Displacement	
04/24/2013	17:47:09	25	4.1	7.56	108.2		
04/24/2013	17:48:58	20	2.2	7.37	115.1		
04/24/2013	17:50:58	54	2.2	7.39	119.6		
04/24/2013	17:52:58	1172	0.0	7.42	123.3		
04/24/2013	17:54:13					16 bbl Fresh Water	
04/24/2013	17:54:13					Good Returns	
04/24/2013	17:54:13	1168	0.0	7.42	123.3		
04/24/2013	17:54:58	-4	0.0	7.42	123.3		
04/24/2013	17:56:58	566	0.0	7.43	123.8		
04/24/2013	17:58:58	111	0.8	7.45	124.0		
04/24/2013	18:00:58	-7	0.0	7.47	124.2		
04/24/2013	18:02:58	-9	0.0	7.45	124.6		
04/24/2013	18:04:58	-9	0.0	7.44	124.6		
04/24/2013	18:06:58	37	4.1	6.50	127.8		
04/24/2013	18:08:58	-7	0.0	9.17	128.4		
04/24/2013	18:09:31					Bump Top Plug	
04/24/2013	18:09:31					End Displacement	
04/24/2013	18:09:31	-7	0.0	9.15	128.4		
04/24/2013	18:09:33					Bleed Off Check Floats	
04/24/2013	18:09:33					Rebump Floats	
04/24/2013	18:09:33					Bleed Off	
04/24/2013	18:09:33					Floats Held	
04/24/2013	18:09:33					Wash Up Rig Down	
04/24/2013	18:09:33	-7	0.0	9.14	128.4		

Well	Field	Job Start	Customer	Job Number
TAOS 1-10	Wildcat	Apr/24/2013	Nighthawk	C1YY-00007

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?		Volume
					65 degF	Washed Thru Perfs		To
Customer or Authorized Representative				Schlumberger Supervisor		Circulation Lost		Job Completed
Jim Weir				Jordan Moreland				