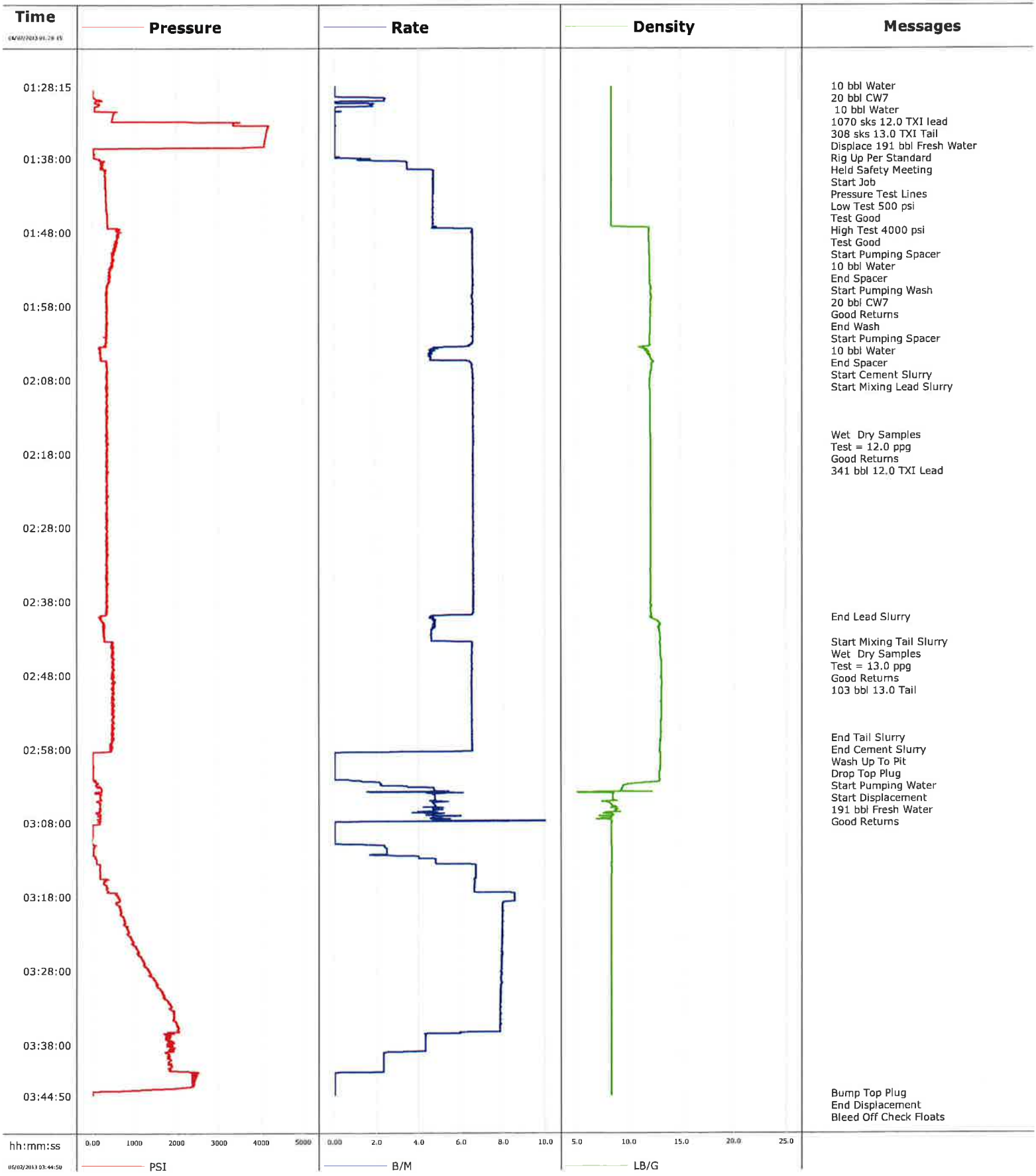
Schlumberger

Cementing Job Report

Well	Taos 1-10	**Client**	Nighthawk Production
Field	Wildcat	**SIR No.**	
Engineer	Jordan Moreland	**Job Type**	5 1/2 Production
Country	United States	**Job Date**	06-01-2013



Schlumberger

Cementing Service Report

Customer	Job Number
Nighthawk Production	CAIO-00533

Well	Location (legal)	Schlumberger Location	Job Start
Taos 1-10		GCO	Jun/01/2013

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
Wildcat			7.9 in		

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Lincoln	Colorado		183 degF	148 degF	

Well Master	API/UWI
0631451707	05073065200000

Rig Name	Drilled For	Service Via
Extreme 11	Oil	Land

Offshore Zone	Well Class	Well Type
	New	Development

Drilling Fluid Type	Max. Density	Plastic Viscosity

Service Line	Job Type
Cementing	5 1/2 Production

Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection
4000 psi		Single Cement head

Service Instructions

Rate And Density Checked
10 bbl Water
20 bbl CW7
10 bbl Water
1070 sks 12.0 TXI lead
308 sks 13.0 txi Tail

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
300.0	8.630	24.0	n80	8RD
8296.0	5.500	17.0	n80	BUTT

Tubing/Drill Pipe

Depth,	Size,	Weight,	Grade	Thread

Perforations/Open Hole

Top,	Bottom,		No. of Shots	Total Interval
				Diameter

Treat Down	Displacement	Packer Type	Packer Depth
Casing	191.0 bbl		

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
	193.0 bbl	257.0 bbl	451.0 bbl

Casing/Tubing Secured	1 Hole Vol. Circulated prior to Cement
[X]	[X]

Lift Pressure	Pipe Rotated	Pipe Reciprocated
5936 psi	[ ]	[X]

No. Centralizers	Top Plugs	Bottom Plugs
	1	

Cement Head Type
Single

Job Scheduled For	Arrived on Location	Leave Location
Jun/01/2013	Jun/01/2013	Jun/01/2013

Casing Tools		Squeeze Job	
Shoe Type	Guide	Squeeze Type	
Shoe Depth	8296.0 ft	Tool Type	
Stage Tool Type		Tool Depth	
Stage Tool Depth		Tail Pipe Size	
Collar Type	Float	Tail Pipe Depth	
Collar Depth	8205.0 ft	Sqz. Total Vol.	

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
06/02/2013	00:28:00					Started Acquisition
06/02/2013	01:28:15					10 bbl Water
06/02/2013	01:28:15					20 bbl CW7
06/02/2013	01:28:15					10 bbl Water
06/02/2013	01:28:15	-48	0.0	8.32	0.0	
06/02/2013	01:28:16					1070 sks 12.0 TXI lead
06/02/2013	01:28:16					308 sks 13.0 TXI Tail
06/02/2013	01:28:16					Displace 191 bbl Fresh Water
06/02/2013	01:28:16					Rig Up Per Standard
06/02/2013	01:28:16					Held Safety Meeting
06/02/2013	01:28:16	-49	0.0	8.32	0.0	
06/02/2013	01:28:18					Start Job
06/02/2013	01:28:18	-48	0.0	8.32	0.0	
06/02/2013	01:28:20					Pressure Test Lines
06/02/2013	01:28:20	-48	0.0	8.32	0.0	
06/02/2013	01:28:21					Low Test 500 psi
06/02/2013	01:28:21	-48	0.0	8.32	0.0	
06/02/2013	01:28:22					Test Good
06/02/2013	01:28:22					High Test 4000 psi
06/02/2013	01:28:22					Test Good
06/02/2013	01:28:22	-48	0.0	8.32	0.0	

Well	Field	Job Start	Customer	Job Number
Taos 1-10	Wildcat	Jun/01/2013	Nighthawk Production	CAIO-00533

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
06/02/2013	01:34:40	4113	0.0	8.32	2.2	
06/02/2013	01:37:00					Start Pumping Spacer
06/02/2013	01:37:00	13	0.0	8.32	2.2	
06/02/2013	01:38:50	194	3.4	8.32	4.4	
06/02/2013	01:40:00					10 bbl Water
06/02/2013	01:40:00					End Spacer
06/02/2013	01:40:00					Start Pumping Wash
06/02/2013	01:40:00					20 bbl CW7
06/02/2013	01:40:00					Good Returns
06/02/2013	01:40:00					End Wash
06/02/2013	01:40:00	287	4.7	8.32	9.1	
06/02/2013	01:43:00	311	4.7	8.32	23.1	
06/02/2013	01:45:00					Start Pumping Spacer
06/02/2013	01:45:00					10 bbl Water
06/02/2013	01:45:00					End Spacer
06/02/2013	01:45:00	325	4.7	8.32	32.5	
06/02/2013	01:47:10	358	4.7	8.31	42.6	
06/02/2013	01:48:00					Start Cement Slurry
06/02/2013	01:48:00	595	6.5	11.89	47.4	
06/02/2013	01:50:00					Start Mixing Lead Slurry
06/02/2013	01:50:00	519	6.6	11.92	60.5	
06/02/2013	01:51:20	478	6.6	11.96	69.3	
06/02/2013	01:55:30	333	6.6	12.09	96.6	
06/02/2013	01:59:40	323	6.6	12.04	124.0	
06/02/2013	02:03:50	168	4.7	11.53	150.9	
06/02/2013	02:08:00	342	6.6	11.99	175.0	
06/02/2013	02:12:10	317	6.6	12.01	202.4	
06/02/2013	02:15:34					Wet Dry Samples
06/02/2013	02:15:34	340	6.6	12.05	224.8	
06/02/2013	02:15:35					Test = 12.0 ppg
06/02/2013	02:15:35					Good Returns
06/02/2013	02:15:35					341 bbl 12.0 TXI Lead
06/02/2013	02:15:35	339	6.6	12.05	224.9	
06/02/2013	02:16:20	342	6.6	12.06	229.8	
06/02/2013	02:20:30	346	6.6	12.07	257.3	
06/02/2013	02:24:40	332	6.6	12.07	284.7	
06/02/2013	02:28:50	345	6.6	12.08	312.1	
06/02/2013	02:33:00	342	6.6	12.06	339.5	
06/02/2013	02:37:10	342	6.6	12.06	367.0	
06/02/2013	02:40:14					End Lead Slurry
06/02/2013	02:40:14	197	4.6	12.09	386.5	
06/02/2013	02:41:20	284	4.8	12.86	391.7	
06/02/2013	02:43:36					Start Mixing Tail Slurry
06/02/2013	02:43:36	463	6.5	12.95	402.4	
06/02/2013	02:43:38					Wet Dry Samples
06/02/2013	02:43:38					Test = 13.0 ppg
06/02/2013	02:43:38	466	6.5	12.95	402.7	
06/02/2013	02:43:39					Good Returns
06/02/2013	02:43:39					103 bbl 13.0 Tail
06/02/2013	02:43:39	463	6.5	12.95	402.8	
06/02/2013	02:45:30	478	6.5	13.00	414.8	
06/02/2013	02:49:40	512	6.5	13.09	441.9	
06/02/2013	02:53:50	480	6.5	13.05	469.1	
06/02/2013	02:56:33					End Tail Slurry

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06/02/2013	02:56:35					End Cement Slurry
06/02/2013	02:56:35	496	6.5	13.03	487.0	
06/02/2013	02:56:36					Wash Up To Pit
06/02/2013	02:56:36	496	6.5	13.03	487.1	
06/02/2013	02:56:37					Drop Top Plug
06/02/2013	02:56:37	479	6.5	13.03	487.2	
06/02/2013	02:56:38					Start Pumping Water
06/02/2013	02:56:38					Start Displacement
06/02/2013	02:56:38	480	6.5	13.03	487.3	
06/02/2013	02:56:39					191 bbl Fresh Water
06/02/2013	02:56:39					Good Returns
06/02/2013	02:56:39	449	6.5	13.03	487.4	
06/02/2013	02:58:00	427	6.5	12.92	496.2	
06/02/2013	03:02:10	38	0.0	12.91	499.0	
06/02/2013	03:06:20	165	4.8	8.79	515.7	
06/02/2013	03:10:30	-2	0.0	8.33	523.1	
06/02/2013	03:14:40	178	6.7	8.34	538.7	
06/02/2013	03:18:50	555	8.0	8.32	568.9	
06/02/2013	03:23:00	853	7.9	8.32	602.0	
06/02/2013	03:27:10	1229	7.9	8.32	635.0	
06/02/2013	03:31:20	1690	7.8	8.32	667.8	
06/02/2013	03:35:30	2012	7.8	8.32	700.5	
06/02/2013	03:39:40	1831	2.3	8.32	720.6	
06/02/2013	03:43:50	2157	0.0	8.32	725.6	
06/02/2013	03:44:39					Bump Top Plug
06/02/2013	03:44:39	-0	0.0	8.32	725.6	
06/02/2013	03:44:41					End Displacement
06/02/2013	03:44:41	-0	0.0	8.32	725.6	
06/02/2013	03:44:42					Bleed Off Check Floats
06/02/2013	03:44:42					Floats Held
06/02/2013	03:44:42					2 bbl Back
06/02/2013	03:44:42	-0	0.0	8.32	725.6	
06/02/2013	03:44:43					20 bbl Cement To Surface
06/02/2013	03:44:43					Rig Down
06/02/2013	03:44:43	-1	0.0	8.32	725.6	
06/02/2013	03:44:44					End Job
06/02/2013	03:44:44	1	0.0	8.32	725.6	

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		
			65 degF	Cement Circulated to Surface? [X]	Volume
				Washed Thru Perfs [ ]	To

Customer or Authorized Representative	Schlumberger Supervisor		
Jim Weir	Jordan Moreland	Circulation Lost [ ]	Job Completed [X]
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