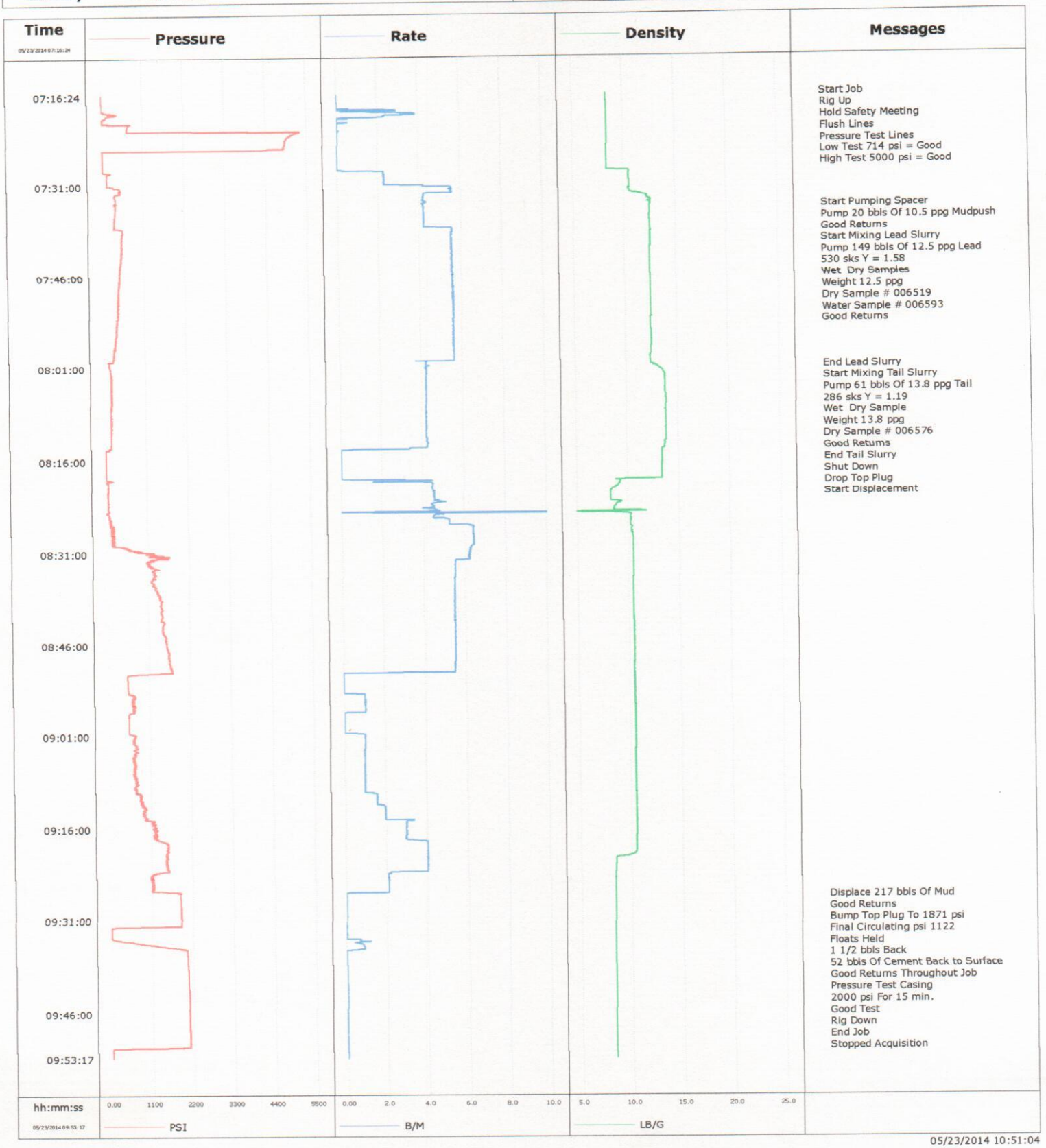
Schlumberger

Cementing Job Report

CemCAT v1.3

Well	Razor Federal 26J-2309A	**Client**	Whiting
Field	Wildcat	**SIR No.**	
Engineer	Justin Zika	**Job Type**	Intermediate
Country	United States	**Job Date**	05-23-2014



05/23/2014 10:51:04

Cementing Service Report

Customer	Job Number
Whiting	1939998

Well	Location (legal)	Schlumberger Location	Job Start
Razor Federal 26J-2309A 26J-2309A	Cheyenne,WY	Cheyenne, WY	May/23/2014

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
Wildcat	Shale		8.8 in	6008.0 ft	5579.0 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Weld	Colorado		187 degF	148 degF	

Well Master	API/UWI
0631496880	5123380440000

Rig Name	Drilled For	Service Via
Xtreme 18	Oil	Land

Offshore Zone	Well Class	Well Type
	New	Development

Drilling Fluid Type	Max. Density	Plastic Viscosity

Service Line	Job Type
Cementing	Intermediate

Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection
5000 psi		Single Cement head

Service Instructions

Rig Up
Hold Safety Meeting
Flush Lines
Pressure Test Lines
Pump 20 bbls Of 10.5 ppg Mudpush
Pump 149 bbls Of 12.5 ppg Lead
Pump 61 bbls Of 13.8 ppg Tail
Shut Down/ Drop Plug
Displace

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
5998.0	7.000	29.0	P110	8RD
0.0	0.000	0.0		

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	221.0 bbl		

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
	223.0 bbl	165.0 bbl	393.0 bbl

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

Lift Pressure	Pipe Rotated	Pipe Reciprocated
4520 psi		

No. Centralizers	Top Plugs	Bottom Plugs
	1	

Cement Head Type
Single

Job Scheduled For	Arrived on Location	Leave Location
May/23/2014 19:30	May/23/2014 04:30	May/23/2014 11:30

Casing Tools		Squeeze Job	
Shoe Type	Float	Squeeze Type	
Shoe Depth	5998.0 ft	Tool Type	
Stage Tool Type		Tool Depth	
Stage Tool Depth		Tail Pipe Size	
Collar Type	Float	Tail Pipe Depth	
Collar Depth	5951.0 ft	Sqz. Total Vol.	

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
05/23/2014	07:01:33					Started Acquisition
05/23/2014	07:16:24	2	0.0	8.34	0.0	
05/23/2014	07:16:26					Start Job
05/23/2014	07:16:26	2	0.0	8.34	0.0	
05/23/2014	07:16:33	3	0.0	8.34	0.0	
05/23/2014	07:16:36					Rig Up
05/23/2014	07:16:36					Hold Safety Meeting
05/23/2014	07:16:36					Flush Lines
05/23/2014	07:16:36	3	0.0	8.34	0.0	
05/23/2014	07:16:40					Pressure Test Lines
05/23/2014	07:16:40	2	0.0	8.34	0.0	
05/23/2014	07:16:43					Low Test 714 psi = Good
05/23/2014	07:16:43					High Test 5000 psi = Good
05/23/2014	07:16:43	2	0.0	8.34	0.0	
05/23/2014	07:18:13	1	0.0	8.34	0.0	
05/23/2014	07:19:53	156	2.5	8.34	2.1	
05/23/2014	07:21:33	698	0.0	8.34	3.0	
05/23/2014	07:23:13	5033	0.0	8.34	3.0	
05/23/2014	07:24:53	4903	0.0	8.34	3.0	
05/23/2014	07:26:33	29	0.0	8.34	3.0	
05/23/2014	07:28:13	29	0.0	8.34	3.1	

Well	Field	Job Start	Customer	Job Number
Razor Federal 26J-2309A 26J-2309A	Wildcat	May/23/2014	Whiting	1939998

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
05/23/2014	07:31:33	489	5.6	10.53	10.4	
05/23/2014	07:33:13	356	4.2	12.24	18.7	
05/23/2014	07:34:33					Start Pumping Spacer
05/23/2014	07:34:33	348	4.2	12.53	24.2	
05/23/2014	07:34:36					Pump 20 bbls Of 10.5 ppg Mudpush
05/23/2014	07:34:36					Good Returns
05/23/2014	07:34:36	351	4.2	12.51	24.5	
05/23/2014	07:34:53	357	4.2	12.50	25.6	
05/23/2014	07:34:57					Start Mixing Lead Slurry
05/23/2014	07:34:57	354	4.2	12.51	25.9	
05/23/2014	07:35:03					Pump 149 bbls Of 12.5 ppg Lead
05/23/2014	07:35:03					530 sks Y = 1.58
05/23/2014	07:35:03					Wet Dry Samples
05/23/2014	07:35:03					Weight 12.5 ppg
05/23/2014	07:35:03					Dry Sample # 006519
05/23/2014	07:35:03					Water Sample # 006593
05/23/2014	07:35:03					Good Returns
05/23/2014	07:35:03	345	4.2	12.52	26.3	
05/23/2014	07:36:33	332	4.2	12.44	32.6	
05/23/2014	07:38:13	518	5.6	12.52	39.8	
05/23/2014	07:39:53	528	5.5	12.53	49.1	
05/23/2014	07:41:33	519	5.5	12.52	58.3	
05/23/2014	07:43:13	500	5.5	12.49	67.6	
05/23/2014	07:44:53	453	5.5	12.49	76.8	
05/23/2014	07:46:33	445	5.6	12.51	86.1	
05/23/2014	07:48:13	415	5.6	12.52	95.4	
05/23/2014	07:49:53	394	5.6	12.51	104.7	
05/23/2014	07:51:33	404	5.6	12.51	114.0	
05/23/2014	07:53:13	368	5.6	12.52	123.3	
05/23/2014	07:54:53	351	5.6	12.52	132.7	
05/23/2014	07:56:33	332	5.6	12.55	142.0	
05/23/2014	07:58:13	282	5.6	12.51	151.3	
05/23/2014	07:59:53	152	4.4	12.39	160.6	
05/23/2014	08:00:39					End Lead Slurry
05/23/2014	08:00:39	137	4.2	12.70	163.8	
05/23/2014	08:01:33	169	4.2	13.49	167.6	
05/23/2014	08:01:57					Start Mixing Tail Slurry
05/23/2014	08:01:57	177	4.2	13.61	169.3	
05/23/2014	08:02:02					Pump 61 bbls Of 13.8 ppg Tail
05/23/2014	08:02:02					286 sks Y = 1.19
05/23/2014	08:02:02					Wet Dry Sample
05/23/2014	08:02:02					Weight 13.8 ppg
05/23/2014	08:02:02					Dry Sample # 006576
05/23/2014	08:02:02					Good Returns
05/23/2014	08:02:02	179	4.2	13.65	169.7	
05/23/2014	08:03:13	186	4.2	13.77	174.6	
05/23/2014	08:04:53	182	4.2	13.73	181.6	
05/23/2014	08:06:33	186	4.2	13.84	188.6	
05/23/2014	08:08:13	182	4.2	13.82	195.6	
05/23/2014	08:09:53	179	4.2	13.84	202.6	
05/23/2014	08:11:33	180	4.2	13.84	209.7	
05/23/2014	08:13:13	175	4.3	13.70	216.7	
05/23/2014	08:14:19					End Tail Slurry
05/23/2014	08:14:19	10	0.6	13.41	220.9	

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05/23/2014	08:14:21	15	0.1	13.40	220.9	
05/23/2014	08:14:23					Drop Top Plug
05/23/2014	08:14:23	16	0.0	13.40	220.9	
05/23/2014	08:14:26					Start Displacement
05/23/2014	08:14:26	16	0.0	13.40	220.9	
05/23/2014	08:14:53	17	0.0	13.39	220.9	
05/23/2014	08:16:33	19	0.0	13.38	220.9	
05/23/2014	08:18:13	20	0.0	13.38	220.9	
05/23/2014	08:19:53	68	4.5	9.21	223.5	
05/23/2014	08:21:33	68	4.5	8.34	231.0	
05/23/2014	08:23:13	76	4.4	9.00	238.7	
05/23/2014	08:24:53	89	4.7	10.31	246.5	
05/23/2014	08:26:33	125	6.3	10.27	254.9	
05/23/2014	08:28:13	146	6.4	10.39	265.6	
05/23/2014	08:29:53	263	6.4	10.46	276.3	
05/23/2014	08:31:33	1509	6.2	10.46	286.7	
05/23/2014	08:33:13	1241	5.5	10.46	296.3	
05/23/2014	08:34:53	1249	5.5	10.47	305.5	
05/23/2014	08:36:33	1314	5.5	10.46	314.6	
05/23/2014	08:38:13	1417	5.5	10.47	323.8	
05/23/2014	08:39:53	1455	5.5	10.47	333.0	
05/23/2014	08:41:33	1450	5.5	10.47	342.1	
05/23/2014	08:43:13	1483	5.5	10.47	351.3	
05/23/2014	08:44:53	1562	5.5	10.48	360.4	
05/23/2014	08:46:33	1579	5.5	10.47	369.5	
05/23/2014	08:48:13	1638	5.5	10.47	378.7	
05/23/2014	08:49:53	1697	5.5	10.47	387.8	
05/23/2014	08:51:33	518	0.0	10.48	393.4	
05/23/2014	08:53:13	535	0.0	10.48	393.5	
05/23/2014	08:54:53	661	1.0	10.48	394.1	
05/23/2014	08:56:33	647	1.0	10.48	395.9	
05/23/2014	08:58:13	538	0.0	10.48	396.7	
05/23/2014	08:59:53	546	0.0	10.48	396.8	
05/23/2014	09:01:33	655	1.0	10.49	397.6	
05/23/2014	09:03:13	689	1.0	10.48	399.2	
05/23/2014	09:04:53	679	1.0	10.48	400.9	
05/23/2014	09:06:33	677	1.0	10.49	402.6	
05/23/2014	09:08:13	754	1.0	10.49	404.2	
05/23/2014	09:09:53	730	1.0	10.49	405.9	
05/23/2014	09:11:33	854	1.6	10.48	408.3	
05/23/2014	09:13:13	936	2.0	10.48	411.3	
05/23/2014	09:14:53	1137	3.0	10.49	414.9	
05/23/2014	09:16:33	1221	3.0	10.48	419.8	
05/23/2014	09:18:13	1499	4.0	10.48	425.0	
05/23/2014	09:19:53	1556	4.0	10.45	431.8	
05/23/2014	09:21:33	1526	4.0	8.49	438.5	
05/23/2014	09:23:13	1263	2.2	8.43	444.9	
05/23/2014	09:24:53	1104	2.1	8.36	448.4	
05/23/2014	09:26:33	1627	2.1	8.35	451.9	
05/23/2014	09:26:56					Displace 217 bbls Of Mud
05/23/2014	09:26:56					Good Returns
05/23/2014	09:26:56	1851	0.0	8.36	452.1	
05/23/2014	09:27:02					Bump Top Plug To 1871 psi
05/23/2014	09:27:02	1852	0.0	8.36	452.1	

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05/23/2014	09:27:06	1854	0.0	8.36	452.1	
05/23/2014	09:27:07					Floats Held
05/23/2014	09:27:07					1 1/2 bbls Back
05/23/2014	09:27:07					52 bbls Of Cement Back to Surface
05/23/2014	09:27:07					Good Returns Throughout Job
05/23/2014	09:27:07	1854	0.0	8.36	452.1	
05/23/2014	09:28:13	1866	0.0	8.36	452.1	
05/23/2014	09:29:53	1879	0.0	8.36	452.2	
05/23/2014	09:31:33	1890	0.0	8.36	452.2	
05/23/2014	09:33:13	23	0.0	8.36	452.2	
05/23/2014	09:34:46					Pressure Test Casing
05/23/2014	09:34:46	797	0.7	8.36	452.7	
05/23/2014	09:34:47					2000 psi For 15 min.
05/23/2014	09:34:47					Good Test
05/23/2014	09:34:47	815	0.7	8.36	452.7	
05/23/2014	09:34:48					Rig Down
05/23/2014	09:34:48					End Job
05/23/2014	09:34:48	835	0.7	8.36	452.8	
05/23/2014	09:34:53	930	0.8	8.36	452.8	
05/23/2014	09:36:33	2043	0.0	8.36	453.6	
05/23/2014	09:38:13	2052	0.0	8.36	453.6	
05/23/2014	09:39:53	2060	0.0	8.36	453.7	
05/23/2014	09:41:33	2067	0.0	8.36	453.7	
05/23/2014	09:43:13	2073	0.0	8.36	453.7	
05/23/2014	09:44:53	2079	0.0	8.36	453.8	
05/23/2014	09:46:33	2087	0.0	8.36	453.8	
05/23/2014	09:48:13	2094	0.0	8.36	453.8	
05/23/2014	09:49:53	2100	0.0	8.36	453.9	
05/23/2014	09:51:33	1518	0.0	8.36	453.9	
05/23/2014	09:53:13	21	0.0	8.35	453.9	

Post Job Summary

Average Pump Rates,				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry 210.0	Mud	Spacer 20.0	N2

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum 5000	Final 1122	Average	Bump Plug to 1871	Breakdown	Type	Volume	Density

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp		
	210.0 bbl	221.0 bbl	70 degF	Cement Circulated to Surface? [X]	Volume 52.0 bbl
				Washed Thru Perfs [ ]	To

Customer or Authorized Representative	Schlumberger Supervisor		
Brady Sharp	Justin Zika	Circulation Lost [ ]	Job Completed [X]
		-	-