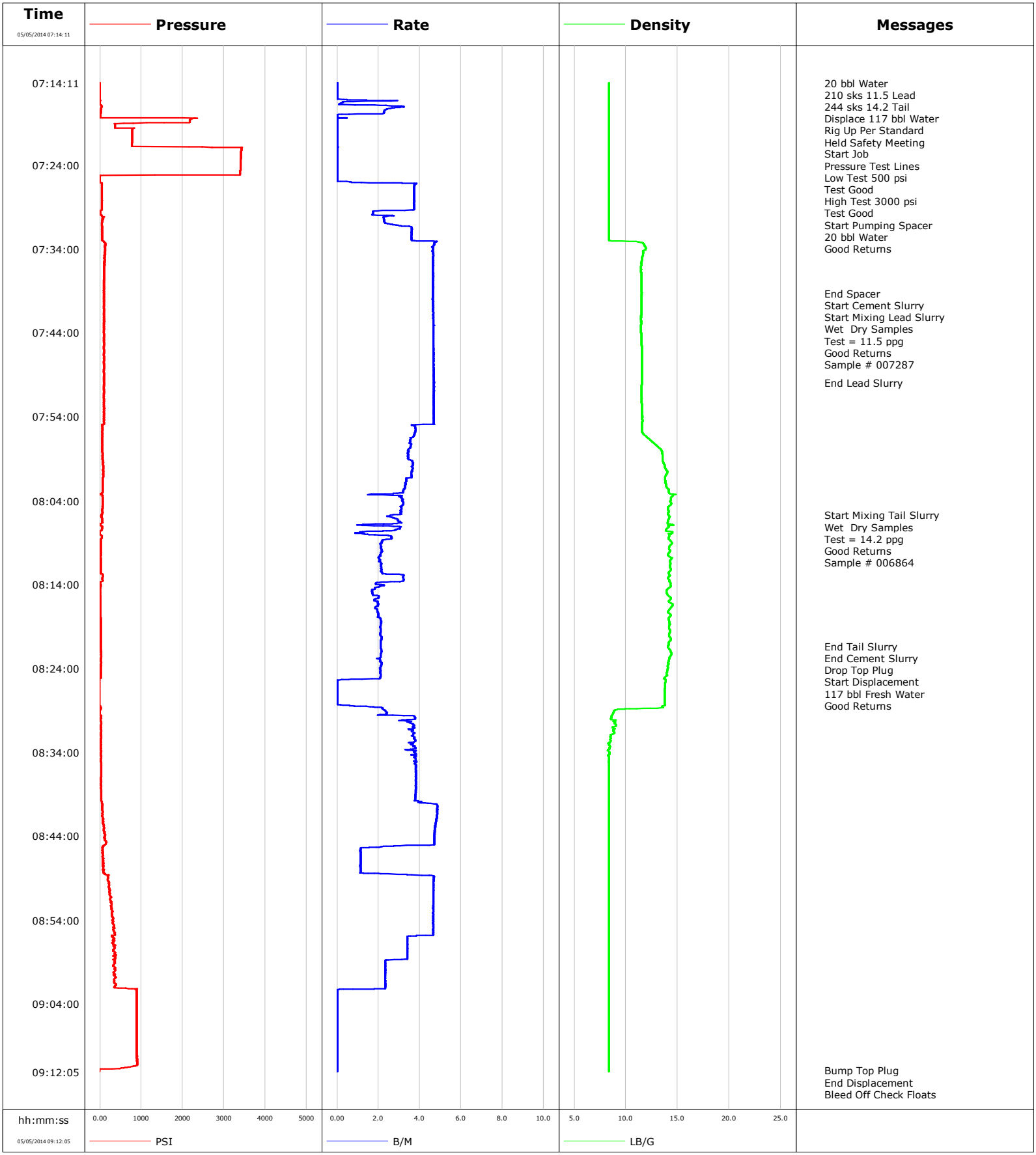
Schlumberger Cementing Job Report

Well	Razor Federal 26J-2309A	**Client**	Whiting
Field		**SIR No.**	CMI1-00916
Engineer	Jordan Moreland	**Job Type**	9 5/8 Surface
Country	United States	**Job Date**	05-04-2014



Cementing Service Report

Customer	Job Number
Whiting	CMI1-00916

Well	Location (legal)	Schlumberger Location	Job Start
Razor Federal 26J-2309A		CWY	May/04/2014

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

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Weld	Colorado		99 degF	82 degF	

Well Master	API/UWI
0631496880	05123380440000

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	9 5/8 Surface

Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection
3000 psi		Single Cement head

Service Instructions

Rate And Density Checked
20 bbl Water
210 sks 11.5 Lead
244 sks 14.2 Tail

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
1555.0	9.630	36.0	J55	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	117.0 bbl		

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
	120.0 bbl	135.0 bbl	256.0 bbl

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

Lift Pressure	Pipe Rotated	Pipe Reciprocated
769 psi	☐	☐

No. Centralizers	Top Plugs	Bottom Plugs
	1	

Cement Head Type
Single

Job Scheduled For	Arrived on Location	Leave Location
May/04/2014	May/04/2014	May/04/2014

Casing Tools		Squeeze Job	
Shoe Type	Guide	Squeeze Type	
Shoe Depth	1555.0 ft	Tool Type	
Stage Tool Type		Tool Depth	
Stage Tool Depth		Tail Pipe Size	
Collar Type	Float	Tail Pipe Depth	
Collar Depth	1510.0 ft	Sqz. Total Vol.	

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
05/05/2014	06:00:22					Started Acquisition
05/05/2014	07:14:11	-4	0.0	8.36	0.0	
05/05/2014	07:14:12					20 bbl Water
05/05/2014	07:14:12					210 sks 11.5 Lead
05/05/2014	07:14:12	-3	0.0	8.36	0.0	
05/05/2014	07:14:13					244 sks 14.2 Tail
05/05/2014	07:14:13					Displace 117 bbl Water
05/05/2014	07:14:13					Rig Up Per Standard
05/05/2014	07:14:13					Held Safety Meeting
05/05/2014	07:14:13	-3	0.0	8.36	0.0	
05/05/2014	07:14:16					Start Job
05/05/2014	07:14:16	-4	0.0	8.36	0.0	
05/05/2014	07:14:18					Pressure Test Lines
05/05/2014	07:14:18	-3	0.0	8.36	0.0	
05/05/2014	07:14:19					Low Test 500 psi
05/05/2014	07:14:19					Test Good
05/05/2014	07:14:19					High Test 3000 psi
05/05/2014	07:14:19	-3	0.0	8.36	0.0	
05/05/2014	07:14:20					Test Good
05/05/2014	07:14:20	-4	0.0	8.36	0.0	
05/05/2014	07:14:22	-4	0.0	8.36	0.0	

Well	Field	Job Start	Customer	Job Number
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Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
05/05/2014	07:18:22	9	0.1	8.35	3.1	
05/05/2014	07:20:22	779	0.0	8.35	3.2	
05/05/2014	07:22:22	3416	0.0	8.35	3.2	
05/05/2014	07:24:22	3396	0.0	8.35	3.2	
05/05/2014	07:26:22	44	3.7	8.35	4.2	
05/05/2014	07:26:53					Start Pumping Spacer
05/05/2014	07:26:53	45	3.7	8.36	6.1	
05/05/2014	07:26:54					20 bbl Water
05/05/2014	07:26:54	42	3.7	8.36	6.2	
05/05/2014	07:26:55					Good Returns
05/05/2014	07:26:55	43	3.7	8.36	6.2	
05/05/2014	07:28:22	46	3.7	8.36	11.6	
05/05/2014	07:30:22	81	2.3	8.35	17.4	
05/05/2014	07:32:22	50	3.6	8.35	23.6	
05/05/2014	07:34:22	118	4.6	11.66	32.1	
05/05/2014	07:36:22	102	4.6	11.48	41.4	
05/05/2014	07:38:22	101	4.6	11.51	50.7	
05/05/2014	07:39:19					End Spacer
05/05/2014	07:39:19					Start Cement Slurry
05/05/2014	07:39:19	98	4.6	11.52	55.1	
05/05/2014	07:39:20					Start Mixing Lead Slurry
05/05/2014	07:39:20	95	4.6	11.52	55.2	
05/05/2014	07:39:21					Wet Dry Samples
05/05/2014	07:39:21	95	4.6	11.52	55.3	
05/05/2014	07:39:22					Test = 11.5 ppg
05/05/2014	07:39:22					Good Returns
05/05/2014	07:39:22					Sample # 007287
05/05/2014	07:39:22	100	4.6	11.52	55.3	
05/05/2014	07:40:22	99	4.6	11.51	60.0	
05/05/2014	07:42:22	91	4.7	11.47	69.3	
05/05/2014	07:44:22	100	4.7	11.49	78.6	
05/05/2014	07:46:22	100	4.7	11.53	87.9	
05/05/2014	07:48:22	96	4.7	11.54	97.3	
05/05/2014	07:49:55					End Lead Slurry
05/05/2014	07:49:55	102	4.7	11.53	104.5	
05/05/2014	07:50:22	91	4.7	11.52	106.6	
05/05/2014	07:52:22	89	4.7	11.52	116.0	
05/05/2014	07:54:22	97	4.7	11.57	125.3	
05/05/2014	07:56:22	61	3.7	11.99	133.4	
05/05/2014	07:58:22	60	3.4	13.51	140.4	
05/05/2014	08:00:22	72	3.6	13.90	147.6	
05/05/2014	08:02:22	66	3.3	13.91	154.5	
05/05/2014	08:04:22	66	3.2	14.40	160.6	
05/05/2014	08:05:44					Start Mixing Tail Slurry
05/05/2014	08:05:44	33	2.7	14.10	164.8	
05/05/2014	08:05:45					Wet Dry Samples
05/05/2014	08:05:45					Test = 14.2 ppg
05/05/2014	08:05:45					Good Returns
05/05/2014	08:05:45	33	2.6	14.11	164.8	
05/05/2014	08:05:46					Sample # 006864
05/05/2014	08:05:46	37	2.6	14.12	164.9	
05/05/2014	08:06:22	51	2.9	14.08	166.5	
05/05/2014	08:08:22	39	2.6	14.15	171.1	
05/05/2014	08:10:22	14	2.1	14.08	175.6	

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Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
05/05/2014	08:14:22	5	1.9	14.24	184.9	
05/05/2014	08:16:22	11	2.0	14.51	188.6	
05/05/2014	08:18:22	15	2.1	14.17	192.6	
05/05/2014	08:20:22	16	2.2	14.32	196.8	
05/05/2014	08:21:22					End Tail Slurry
05/05/2014	08:21:22	15	2.1	14.07	198.9	
05/05/2014	08:21:23					End Cement Slurry
05/05/2014	08:21:23	13	2.1	14.06	198.9	
05/05/2014	08:21:28					Drop Top Plug
05/05/2014	08:21:28	14	2.1	14.07	199.1	
05/05/2014	08:21:29					Start Displacement
05/05/2014	08:21:29	15	2.1	14.07	199.1	
05/05/2014	08:21:31					117 bbl Fresh Water
05/05/2014	08:21:31					Good Returns
05/05/2014	08:21:31	15	2.1	14.08	199.2	
05/05/2014	08:22:22	25	2.1	14.39	201.0	
05/05/2014	08:24:22	22	2.1	13.98	205.2	
05/05/2014	08:26:22	-17	0.0	13.76	207.2	
05/05/2014	08:28:22	-17	0.1	13.74	207.2	
05/05/2014	08:30:22	30	3.5	8.83	212.4	
05/05/2014	08:32:22	19	3.7	8.53	219.7	
05/05/2014	08:34:22	24	3.7	8.27	227.1	
05/05/2014	08:36:22	32	3.8	8.36	234.7	
05/05/2014	08:38:22	26	3.8	8.35	242.4	
05/05/2014	08:40:22	59	4.8	8.35	250.3	
05/05/2014	08:42:22	70	4.8	8.35	259.9	
05/05/2014	08:44:22	114	4.7	8.35	269.4	
05/05/2014	08:46:22	63	1.1	8.35	274.6	
05/05/2014	08:48:22	78	1.1	8.35	276.8	
05/05/2014	08:50:22	219	4.7	8.35	285.5	
05/05/2014	08:52:22	266	4.7	8.35	294.9	
05/05/2014	08:54:22	304	4.6	8.35	304.2	
05/05/2014	08:56:22	342	3.4	8.35	312.8	
05/05/2014	08:58:22	355	3.4	8.35	319.6	
05/05/2014	09:00:22	341	2.3	8.35	324.7	
05/05/2014	09:02:22	886	0.0	8.36	329.0	
05/05/2014	09:04:22	883	0.0	8.36	329.0	
05/05/2014	09:06:22	887	0.0	8.36	329.0	
05/05/2014	09:08:22	891	0.0	8.36	329.0	
05/05/2014	09:10:22	892	0.0	8.36	329.0	
05/05/2014	09:11:57					Bump Top Plug
05/05/2014	09:11:57	-18	0.0	8.36	329.0	
05/05/2014	09:11:58					End Displacement
05/05/2014	09:11:58	-18	0.0	8.36	329.0	
05/05/2014	09:11:59					Bleed Off Check Floats
05/05/2014	09:11:59					Floats Held
05/05/2014	09:11:59					3/4 bbl Back
05/05/2014	09:11:59	-18	0.0	8.36	329.0	
05/05/2014	09:12:00					37 bbl Cement To Surface
05/05/2014	09:12:00					Rig Down
05/05/2014	09:12:00	-17	0.0	8.36	329.0	
05/05/2014	09:12:02					End Job
05/05/2014	09:12:02	-18	0.0	8.36	329.0	

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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
			62 degF	X	
				Washed Thru Perfs ☐	To

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost	Job Completed
Mark Hicks	Jordan Moreland	☐	X
		-	-