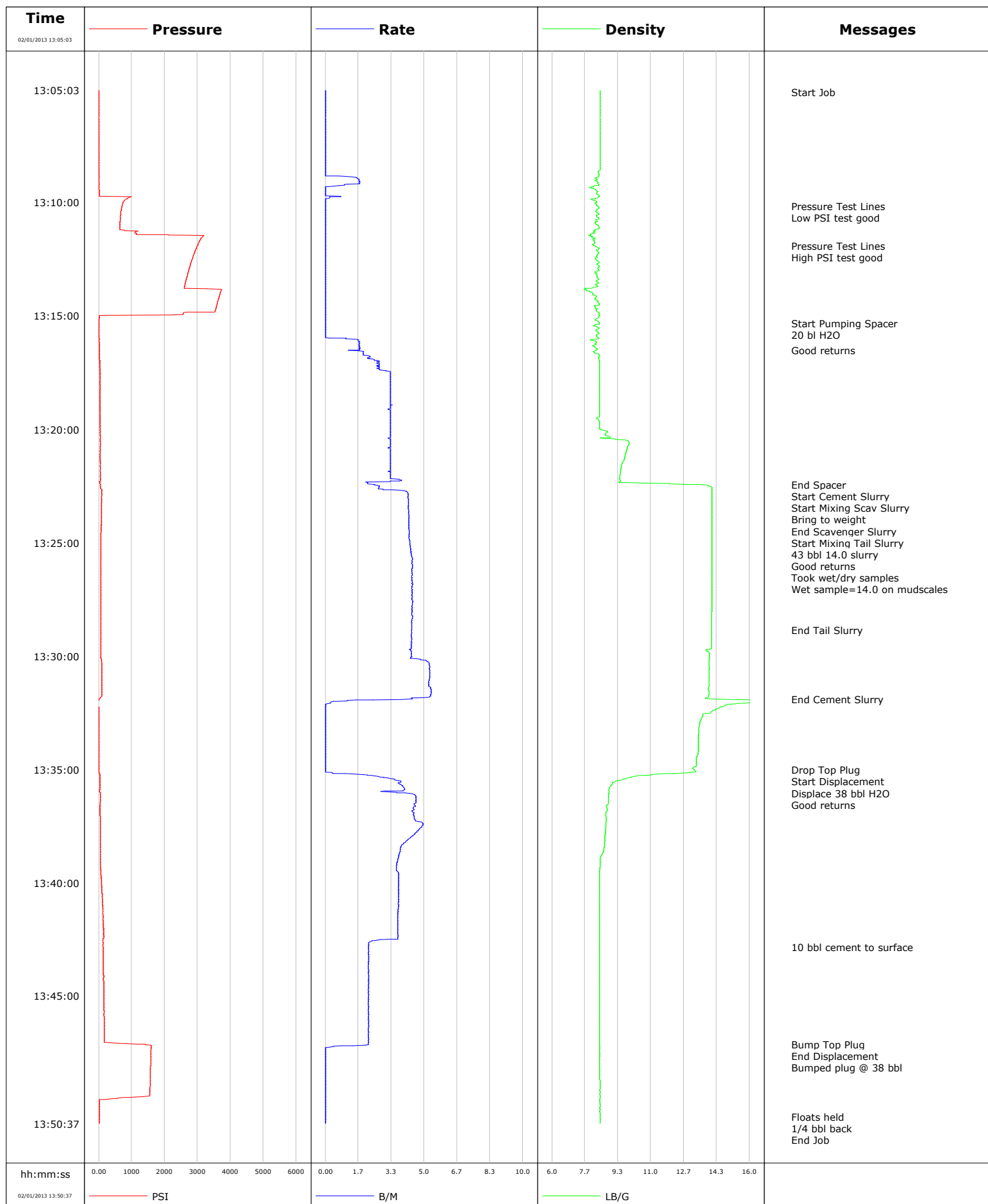


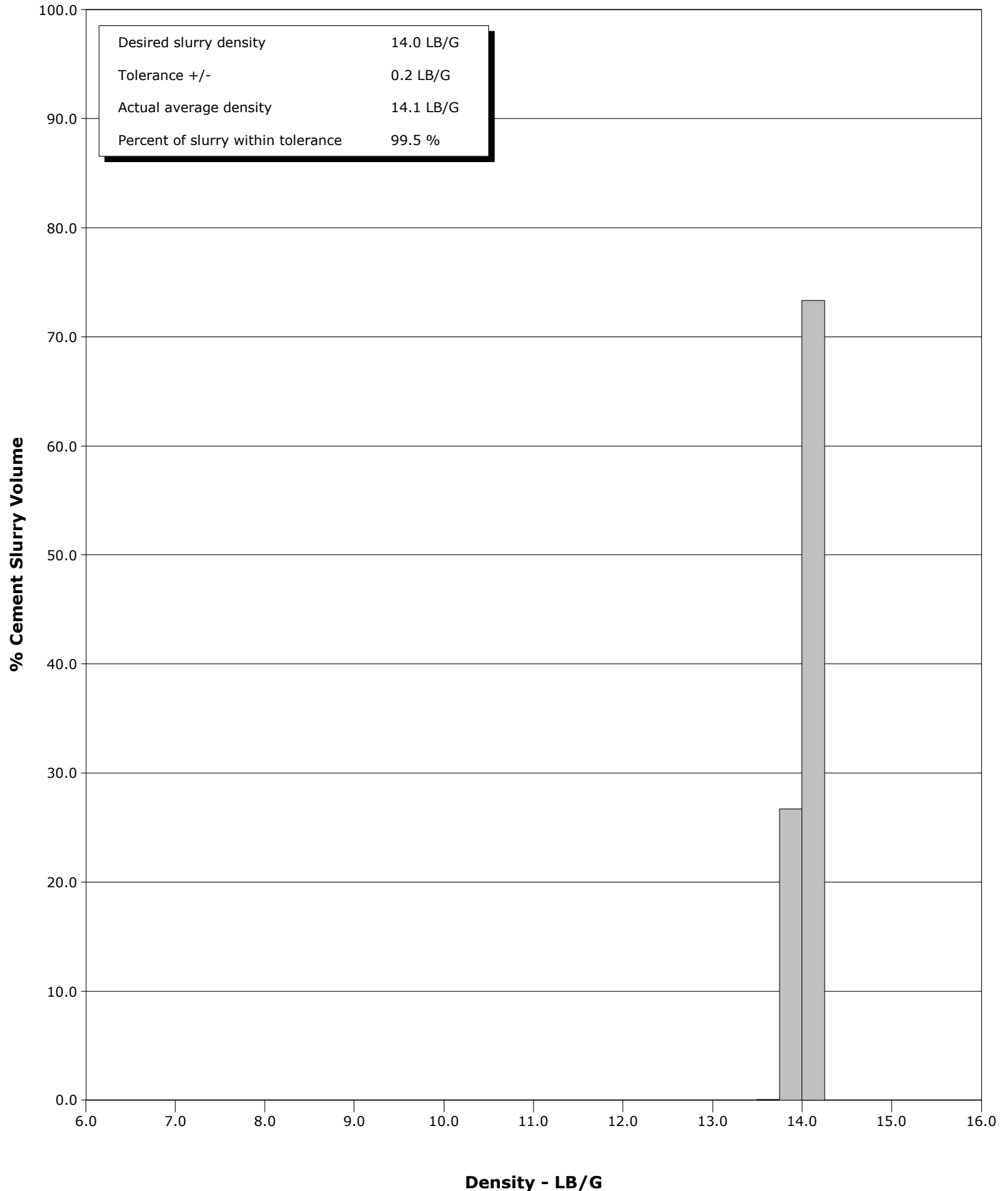
<b>Well</b>	Foristall Stage 36-11S-56W	<b>Client</b>	Cascade
<b>Field</b>	Wildcat	<b>SIR No.</b>	C459-01091
<b>Engineer</b>	Matt Fair/Mike Reedy	<b>Job Type</b>	9 5/8 Surface
<b>Country</b>	United States	<b>Job Date</b>	02-01-2013



**Well** Foristall Stage 36-11S-56W  
**Field** Wildcat  
**Engineer** Matt Fair/Mike Reedy  
**Country** United States

**Client** Cascade  
**SIR No.** C459-01091  
**Job Type** 9 5/8 Surface  
**Job Date** 02-01-2013

**Cement Slurry - 02/01/2013 13:22:28 to 02/01/2013 13:31:54**



					Customer Cascade			Job Number C459-01091									
Well Foristall Stage 36-11S-56W				Location (legal)			Schlumberger Location			Job Start Feb/01/2013							
Field Wildcat		Formation Name/Type Shale			Deviation deg		Bit Size 12.3 in		Well MD 520.0 ft		Well TVD 520.0 ft						
County Lincoln		State/Province Colorado			BHP psi		BHST 85 degF		BHCT 80 degF		Pore Press. Gradient lb/gal						
Well Master 0631440478		API/UWI															
Rig Name Cascade 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		520.0		9.6		36.0		J55		8RD			
						0.0		0.0		0.0							
Drilling Fluid Type Other		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe											
						T/D		Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
Service Line Cementing		Job Type 9 5/8 Surface															
Max. Allowed Tub. Press 3520 psi		Max. Allowed Ann. Press 2030 psi		WH Connection Single Cement head		Perforations/Open Hole											
						Top, ft		Bottom, ft		shot/ft		No. of Shots		Total Interval ft			
Service Instructions 155sks/43bbl 14.0 Tail Y=1.54						ft		ft									
						ft		ft						Diameter in			
						ft		ft									
		Treat Down Casing		Displacement 38.0 bbl		Packer Type		Packer Depth ft									
		Tubing Vol. bbl		Casing Vol. 40.0 bbl		Annular Vol. 29.0 bbl		Openhole Vol. 69.0 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 257 psi				Shoe Type Guide		Squeeze Type											
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 520.0 ft		Tool Type											
No. Centralizers		Top Plugs 1		Bottom Plugs 0		Stage Tool Type				Tool Depth ft							
Cement Head Type				Stage Tool Depth ft		Tail Pipe Size in											
Job Scheduled For Feb/01/2013 12:00		Arrived on Location Feb/01/2013 12:00		Leave Location Feb/01/2013 15:00		Collar Type Float				Tail Pipe Depth ft							
						Collar Depth 491.0 ft				Sqz. Total Vol. bbl							
Date	Time 24-hr clock	CPF1_DENSITY LB/G	CPF1_PRESS PSI	CPF1_TTL_RATE B/M	CPF1_TTL_STAGE BBL	CPF1_TTL_VOLUME BBL	Message										
02/01/2013	13:05:03	8.43	10	0.0	0.0	0.0	Started Acquisition										
02/01/2013	13:05:07	8.43	9	0.0	0.0	0.0	Start Job										
02/01/2013	13:07:33	8.43	7	0.0	0.0	0.0											
02/01/2013	13:10:03	8.19	734	0.0	0.7	0.7											
02/01/2013	13:10:10	8.30	707	0.0	0.7	0.7	Pressure Test Lines										
02/01/2013	13:10:11	8.34	703	0.0	0.7	0.7	Low PSI test good										
02/01/2013	13:11:55	8.17	2997	0.0	0.7	0.7	Pressure Test Lines										
02/01/2013	13:11:56	8.21	2991	0.0	0.7	0.7	High PSI test good										
02/01/2013	13:12:33	8.25	2829	0.0	0.7	0.7											
02/01/2013	13:15:03	8.38	17	0.0	0.7	0.7											
02/01/2013	13:15:20	8.40	10	0.0	0.7	0.7	Start Pumping Spacer										
02/01/2013	13:15:21	8.40	10	0.0	0.7	0.7	20 bl H2O										
02/01/2013	13:16:32	8.25	20	1.2	1.6	1.6	Good returns										
02/01/2013	13:17:33	8.42	33	3.3	4.1	4.1											
02/01/2013	13:20:03	8.58	44	3.3	12.4	12.4											
02/01/2013	13:22:27	13.47	49	2.5	0.0	20.1	End Spacer										
02/01/2013	13:22:28	13.74	52	2.5	0.1	20.2	Start Cement Slurry										
02/01/2013	13:22:29	13.93	48	2.6	0.1	20.2	Start Mixing Scav Slurry										
02/01/2013	13:22:30	13.93	54	2.8	0.2	20.3	Bring to weight										
02/01/2013	13:22:33	14.08	55	2.7	0.3	20.4											
02/01/2013	13:23:22	14.10	86	4.2	3.5	23.6	End Scavenger Slurry										

Well Foristall Stage 36-11S-56W			Field Wildcat		Job Start Feb/01/2013	Customer Cascade		Job Number C459-01091
Date	Time 24-hr clock	CPF1_DENSITY LB/G	CPF1_PRESS PSI	CPF1_TTL_RATE B/M	CPF1_TTL_STAGE BBL	CPF1_TTL_VOLUME BBL	Message	
02/01/2013	13:23:45	14.10	79	4.2	5.1	25.2	Good returns	
02/01/2013	13:24:09	14.10	76	4.2	6.8	26.9	Took wet/dry samples	
02/01/2013	13:24:18	14.10	75	4.2	7.5	27.6	Wet sample=14.0 on mudscales	
02/01/2013	13:25:03	14.10	69	4.3	10.6	30.8		
02/01/2013	13:27:33	14.10	67	4.4	21.6	41.7		
02/01/2013	13:28:51	14.08	63	4.4	27.3	47.4	End Tail Slurry	
02/01/2013	13:30:03	13.99	61	4.4	32.5	52.6		
02/01/2013	13:31:54	14.06	9	4.4	42.1	62.2	End Cement Slurry	
02/01/2013	13:32:33	13.76	3	0.0	42.4	62.5		
02/01/2013	13:35:01	13.19	11	0.0	0.0	62.5	Drop Top Plug	
02/01/2013	13:35:02	13.20	11	0.0	0.0	62.5	Start Displacement	
02/01/2013	13:35:03	13.24	11	0.0	0.0	62.5	Displace 38 bbl H2O	
02/01/2013	13:36:01	8.90	43	3.6	2.8	65.3	Good returns	
02/01/2013	13:37:33	8.74	52	4.9	9.8	72.3		
02/01/2013	13:40:03	8.42	87	3.7	19.6	82.1		
02/01/2013	13:42:33	8.42	126	2.5	28.8	91.3		
02/01/2013	13:42:50	8.42	136	2.2	29.4	91.9	10 bbl cement to surface	
02/01/2013	13:45:03	8.42	152	2.2	34.3	96.7		
02/01/2013	13:47:08	8.42	1413	2.2	38.8	101.3	Bump Top Plug	
02/01/2013	13:47:10	8.43	1586	2.1	38.9	101.4	End Displacement	
02/01/2013	13:47:12	8.43	1593	0.8	38.9	101.4	Bumped plug @ 38 bbl	
02/01/2013	13:47:33	8.43	1582	0.0	38.9	101.4		
02/01/2013	13:50:03	8.43	19	0.0	38.9	101.4		
02/01/2013	13:50:19	8.43	20	0.0	38.9	101.4	Floats held	
02/01/2013	13:50:25	8.43	20	0.0	38.9	101.4	1/4 bbl back	

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 3.5	N2	Mud	Maximum Rate 5.4		Total Slurry 43.0	Mud 0.0	Spacer 20.1	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3731	Final 19	Average 400	Bump Plug to 1200	Breakdown	Type	Volume bbl		Density lb/gal
Avg. N2 Percent %		Designed Slurry Volume 43.0 bbl	Displacement 38.0 bbl	Mix Water Temp 55 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 10.0 bbl	
					Washed Thru Perfs <input type="checkbox"/>		To ft	
Customer or Authorized Representative Red Menge			Schlumberger Supervisor Matt Fair/Mike Reedy			Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
						-		-



# Service Quality Evaluation

Client:	Cascade
Field:	Wildcat
Rig:	Cascade Spud
Well:	Foristall Stage 36-11S-56W
Service Line:	Cementing
Job Type:	9 5/8 Surface

Service Order #:	
Date:	Feb/01/2013
Operating Time (hh:mm):	00:00
Client Rep:	Red Menge
Schlumberger Engineer:	Matt Fair/Mike Reedy
Schlumberger FSM:	

Main Objective:

To be completed by Company Rep. Please answer Y (Yes) or N (No) and add any comments below.

		Score	Yes / No		Result
1	HSE				
1a	Free of lost time injury and compliance with SLB and loc. spec. HSE practice	5	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	5
1b	Free of environmental spill or non-compliant discharge	5	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	5
1c	Wellsite left clean	4	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	4
Sub-total					100%

2	Design / Preparation				
2a	Program incl. job simulation (CemCADE) & pump schedule / tool hydraulic calcs	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
2b	Equipment maintenance schedule completed / Green tagged	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
2c	All materials and equipment required for job/contingency checked & on location	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
2d	Safety / pre-job meeting conducted with all involved present	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
Sub-total					100%

3	Execution				
3a	Lost time < 30 mins	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
3b	Equipment pressure tested succesfully	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
3c	All key parameters monitored and recorded accurately (Pressure, Rate, Density)	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3d	Plugs / darts released and tested succesfully	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3e	Density variation met expectations	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3f	Personnel performed as per expectations	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3g	Equipment performed as per expectations	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3h	Job pumped as per design	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
3i	Did job start on time	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3j	Free of Operational failures (screen out, Cementing Example, etc.)	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
Sub-total					100%

4	Evaluation				
4a	Main job objective achieved with no consequential non-productive time	10	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	10
Sub-total					100%

Total 100%

Comments: (Please include a brief explanation for a "NO" response and summarize any innovations attempted on this well.)

Client:	Schlumberger:
Client Signature:	Schlumberger Signature: