

Cementing Service Report

				Customer Whiting			Job Number C459-02576					
Well Razor Fed. 26J-2311A			Location (legal)			Schlumberger Location			Job Start Apr/20/2014			
Field Wildcat		Formation Name/Type Shale			Deviation 90 deg		Bit Size 6.0 in		Well MD 13320.0 ft		Well TVD 5588.0 ft	
County Weld		State/Province Colorado			BHP psi		BHST 200 degF		BHCT 200 degF		Pore Press. Gradient lb/gal	
Well Master 631496878		API/UWI 5123380410000										
Rig Name Xtreme #18		Drilled For Oil		Service Via Land		Casing/Liner						
						Depth, ft		Size, in		Weight, lb/ft		
						6000.0		7.0		29.0		
Offshore Zone		Well Class New		Well Type Development		8354.0		4.5		11.6		
										Grade L80		
										Thread 8RD		
Drilling Fluid Type Oil Mud		Max. Density 9.60 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe						
						T/D		Depth, ft		Size, in		
						D		4902.0		4.0		
										Weight, lb/ft		
										Grade		
										Thread		
Service Line Cementing		Job Type Liner										
Max. Allowed Tub. Press 4500 psi		Max. Allowed Ann. Press psi		WH Connection Baker CMT Head		Perforations/Open Hole						
						Top, ft		Bottom, ft		shot/ft		
						ft		ft		No. of Shots		
						ft		ft		Total Interval ft		
						ft		ft		Diameter in		
						Treat Down Drill Pipe		Displacement 161.7 bbl		Packer Type		
										Packer Depth ft		
						Tubing Vol. 33.0 bbl		Casing Vol. 129.4 bbl		Annular Vol. 237.2 bbl		
										Openhole Vol. 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 psi				Shoe Type Float				Squeeze Type				
Pipe Rotated <input type="checkbox"/>				Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 13320.7 ft			Tool Type	
No. Centralizers				Top Plugs 1		Bottom Plugs		Stage Tool Type			Tool Depth ft	
Cement Head Type Single				Stage Tool Depth ft				Tail Pipe Size in				
Job Scheduled For Apr/20/2014 06:00		Arrived on Location Apr/20/2014 06:00		Leave Location Apr/21/2014 03:00		Collar Type Float			Tail Pipe Depth ft			
						Collar Depth 13275.0 ft			Sqz. Total Vol. bbl			
Date		Time 24-hr clock		Treating Pressure PSI		Flow Rate B/M		Density LB/G		Volume BBL		Message
04/20/2014		23:26:48		2		0.0		8.35		0.0		Started Acquisition
04/20/2014		23:26:51		2		0.0		8.35		0.0		Start Job
04/20/2014		23:31:48		-1		0.0		8.36		0.1		
04/20/2014		23:33:52		498		1.7		8.35		1.1		Fill lines with 5bbl water
04/20/2014		23:36:48		151		0.0		8.35		5.4		
04/20/2014		23:38:00		343		0.0		8.35		5.4		Pressure Test Lines 500psi
04/20/2014		23:39:14		5021		0.0		8.35		5.4		Pressure Test Lines 5000psi
04/20/2014		23:41:48		302		0.0		8.35		5.5		
04/20/2014		23:43:46		603		1.4		8.35		5.6		Reset Total, Vol = 5.64 bbl
04/20/2014		23:44:18		768		3.3		11.50		7.3		Start 30bbl Mudpush
04/20/2014		23:46:48		1071		4.5		11.60		18.2		
04/20/2014		23:51:00		510		3.3		12.51		35.6		End Mudpush
04/20/2014		23:51:02		512		3.2		12.55		35.7		Reset Total, Vol = 30.07 bbl
04/20/2014		23:51:48		404		2.0		13.96		37.8		
04/20/2014		23:52:46		403		2.1		14.53		39.8		Start Mixing Lead Slurry
04/20/2014		23:56:48		785		4.5		13.26		57.4		
04/21/2014		00:01:48		880		4.5		13.46		79.9		
04/21/2014		00:06:48		838		4.5		13.42		102.4		
04/21/2014		00:11:48		927		4.5		13.39		124.9		
04/21/2014		00:16:48		897		4.5		13.49		147.4		
04/21/2014		00:21:48		828		4.5		13.56		169.9		

Well			Field		Job Start		Customer		Job Number	
Razor Fed. 26J-2311A			Wildcat		Apr/20/2014		Whiting		C459-02576	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
04/21/2014	00:25:39	-347	0.0	13.63	186.3	End Lead Slurry				
04/21/2014	00:25:40	-347	0.0	13.63	186.3	Drop Top Plug				
04/21/2014	00:25:41	-347	0.0	13.63	186.3	Start Displacement				
04/21/2014	00:26:48	-352	0.0	13.69	186.3					
04/21/2014	00:31:48	-261	3.0	8.81	187.1					
04/21/2014	00:32:44	-302	3.5	8.35	190.3	Pumping displacement				
04/21/2014	00:35:26	372	3.3	8.36	199.3	10bbl fresh water away				
04/21/2014	00:36:48	474	3.3	8.35	203.8					
04/21/2014	00:41:48	1037	3.3	8.35	220.1					
04/21/2014	00:46:48	1487	4.1	8.35	241.4					
04/21/2014	00:51:48	1475	4.1	8.35	261.8					
04/21/2014	00:56:48	1453	4.1	8.35	282.2					
04/21/2014	01:01:48	1475	4.1	8.35	302.7					
04/21/2014	01:06:48	1526	4.1	8.35	323.1					
04/21/2014	01:11:48	1114	2.2	8.35	342.8	Slow rate to 2bpm				
04/21/2014	01:15:59	2043	0.0	8.35	351.3	Bump plug 161bbl away				
04/21/2014	01:16:08	1896	0.0	8.35	351.3	Hold pressure				
04/21/2014	01:16:48	1997	0.0	8.35	351.3					
04/21/2014	01:18:07	1920	0.0	8.35	351.3	End Displacement				
04/21/2014	01:18:11	1683	0.0	8.35	351.3	Reset Total, Vol = 165.04 bbl				
04/21/2014	01:18:47	-369	0.0	8.35	351.3	bleed pressure				
04/21/2014	01:19:58	-368	0.0	8.36	351.4	Floats holding 1.5bbl returned				
04/21/2014	01:21:48	-367	0.0	8.36	351.4					
04/21/2014	01:26:48	-368	0.0	8.36	351.4					
04/21/2014	01:28:48	1995	0.0	8.35	352.5	Pressure up backside to 2000psi				
04/21/2014	01:29:05	1993	0.0	8.35	352.5	Hold 2000psi for 5min.				
04/21/2014	01:31:48	1985	0.0	8.36	352.5					
04/21/2014	01:33:52	-59	0.0	8.36	352.6	Bleed pressure				
04/21/2014	01:36:48	-368	0.1	8.35	352.7					
04/21/2014	01:41:48	744	3.0	8.36	356.7					
04/21/2014	01:46:48	1445	6.3	8.36	377.1					
04/21/2014	01:51:48	161	0.0	8.36	393.6					
04/21/2014	01:56:48	1320	6.3	8.35	400.0					
04/21/2014	02:01:48	986	0.0	8.49	421.2					
04/21/2014	02:06:48	698	6.3	8.36	446.3					
04/21/2014	02:08:34	-366	0.0	8.36	449.2	10bbl cmt returned to surface				
04/21/2014	02:08:44	-366	0.0	8.36	449.2	end reverse				

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
2.9			17.1	151.0	30.0	39.8	
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
2043	0	1029	2000			bbl	lb/gal
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume	
%	151.0 bbl		161.0 bbl	58 degF	<input checked="" type="checkbox"/>	10.0 bbl	
Customer or Authorized Representative				Schlumberger Supervisor		Circulation Lost	Job Completed
Kevin Moseley				Chris Valerio		-	<input checked="" type="checkbox"/>

Well	Razor Fed.	Client	Whiting
Field	Wildcat	SIR No.	C459-02576
Engineer	Chris Valerio	Job Type	Liner
Country	United States	Job Date	04-20-2014

