

## Cementing Service Report

<b>Customer</b> Whiting Oil & Gas Corporation				<b>Job Number</b> D21K-00564			
<b>Well</b> Razor33N-2805 0631548272		<b>Location (legal)</b> X18 Sec 33 T10N R68W		<b>Schlumberger Location</b> Cheyenne, WY		<b>Job Start</b> Dec/10/2014	
<b>Field</b> Wildcat		<b>Formation Name/Type</b> Dirty-Sandstone		<b>Deviation</b> deg		<b>Bit Size</b> 8.8 in	
<b>County</b> Weld		<b>State/Province</b> Colorado		<b>Well MD</b> 6100.0 ft		<b>Well TVD</b> 5723.0 ft	
<b>Well Master</b> 0631548272		<b>API/UWI</b>		<b>BHP</b> psi		<b>BHST</b> 189 degF	
<b>Rig Name</b> Xtreme 18		<b>Drilled For</b> Oil		<b>Service Via</b> Land		<b>BHCT</b> 160 degF	
<b>Offshore Zone</b>		<b>Well Class</b> New		<b>Well Type</b> Other		<b>Pore Press. Gradient</b> lb/gal	
<b>Drilling Fluid Type</b> Calodril		<b>Max. Density</b> 10.30 lb/gal		<b>Plastic Viscosity</b> cP		<b>Casing/Liner</b>	
<b>Service Line</b> Cementing		<b>Job Type</b> 7" Intermediate		<b>Depth, ft</b> 6064.2		<b>Size, in</b> 7.0	
<b>Max. Allowed Tub. Press</b> psi		<b>Max. Allowed Ann. Press</b> psi		<b>WH Connection</b> 7"		<b>Weight, lb/ft</b> 29.0	
<b>Service Instructions</b>				<b>Grade</b> P-110		<b>Thread</b> LT&C	
				<b>Tubing/Drill Pipe</b>			
				<b>T/D</b>			
				<b>Depth, ft</b>			
<b>Perforations/Open Hole</b>		<b>Top, ft</b>		<b>Bottom, ft</b>		<b>shot/ft</b>	
		<b>ft</b>		<b>ft</b>		<b>No. of Shots</b>	
		<b>ft</b>		<b>ft</b>		<b>Total Interval</b> ft	
		<b>ft</b>		<b>ft</b>		<b>Diameter</b> in	
<b>Treat Down</b> Casing		<b>Displacement</b> 223.7 bbl		<b>Packer Type</b>		<b>Packer Depth</b> ft	
<b>Tubing Vol.</b> bbl		<b>Casing Vol.</b> 225.4 bbl		<b>Annular Vol.</b> bbl		<b>Openhole Vol.</b> bbl	
<b>Casing/Tubing Secured</b> <input checked="" type="checkbox"/>		<b>1 Hole Vol. Circulated prior to Cement</b> <input checked="" type="checkbox"/>		<b>Casing Tools</b>		<b>Squeeze Job</b>	
<b>Lift Pressure</b> 4570 psi		<b>Pipe Rotated</b> <input type="checkbox"/>		<b>Pipe Reciprocated</b> <input type="checkbox"/>		<b>Shoe Type</b> Float	
<b>No. Centralizers</b>		<b>Top Plugs</b> 1		<b>Bottom Plugs</b>		<b>Squeeze Type</b>	
<b>Cement Head Type</b> Single		<b>Stage Tool Type</b>		<b>Stage Tool Depth</b> ft		<b>Tool Type</b>	
<b>Job Scheduled For</b> Dec/10/2014		<b>Arrived on Location</b> Dec/10/2014		<b>Leave Location</b> Dec/10/2014		<b>Tool Depth</b> ft	
		<b>Collar Type</b> Float		<b>Collar Depth</b> 6020.5 ft		<b>Tail Pipe Size</b> in	
		<b>Collar Depth</b> 6020.5 ft		<b>Sq. Total Vol.</b> bbl		<b>Tail Pipe Depth</b> ft	
<b>Date</b>	<b>Time 24-hr clock</b>	<b>CPF1_PRESS PSI</b>	<b>CPF1_DENSITY LB/G</b>	<b>CPF1_TTL_RATE B/M</b>	<b>CPF1_TTL_VOLUME BBL</b>	<b>Message</b>	
12/10/2014	10:35:13	6	0.01	0.0	0.0	Started Acquisition	
12/10/2014	10:35:16	6	0.01	0.0	0.0	Start Job	
12/10/2014	10:35:17	6	0.01	0.0	0.0	Water Sample Weighed Verified	
12/10/2014	10:35:41	6	0.01	0.0	0.0	Held JSA Meeting With Crew	
12/10/2014	10:40:13	17	7.76	1.1	0.0		
12/10/2014	10:45:13	24	8.34	0.0	0.0		
12/10/2014	10:50:13	7	8.35	0.0	0.0		
12/10/2014	10:55:13	7	8.34	0.0	0.0		
12/10/2014	10:59:00	36	8.35	0.0	0.0		
12/10/2014	11:00:13	710	8.34	0.0	5.6	Pressure Test Lines: Low/High	
12/10/2014	11:05:13	3796	8.34	0.0	5.7		
12/10/2014	11:09:22	46	8.35	0.0	5.7		
12/10/2014	11:09:25	45	8.34	0.0	5.7	Reset Total, Vol = 5.65 bbl	
12/10/2014	11:10:13	95	8.34	0.6	0.0	End Pumping Water Ahead	
12/10/2014	11:11:06	181	10.41	3.3	1.9	Start Pumping MudPush Express	
12/10/2014	11:15:13	185	10.57	3.3	15.6		
12/10/2014	11:16:52	91	12.53	1.9	20.2	Start Mixing Lead Slurry	
12/10/2014	11:16:57	96	12.50	2.0	20.4	Reset Total, Vol = 20.41 bbl	
12/10/2014	11:17:44	219	12.44	3.3	22.9	Wet/Dry Sample Taken	
12/10/2014	11:19:00	188	12.52	3.3	27.0	Wet Sample Weighed and Verified	
12/10/2014	11:20:13	172	12.57	3.3	31.1		



Well		Field		Job Start		Customer	Job Number
Razor33N-2805 0631548272		Wildcat		Dec/10/2014		Whiting Oil & Gas Corporation	D2IK-00564
Date	Time 24-hr clock	CPF1_PRESS PSI	CPF1_DENSITY LB/G	CPF1_TTL_RATE B/M	CPF1_TTL_VOLUME BBL	Message	
12/10/2014	11:25:13	414	12.55	6.1	57.6		
12/10/2014	11:30:13	290	12.58	6.1	88.2		
12/10/2014	11:35:13	277	12.55	6.1	118.9		
12/10/2014	11:37:04	175	12.55	4.8	129.4	Good Returns	
12/10/2014	11:40:13	179	12.55	4.8	144.4		
12/10/2014	11:45:13	108	12.57	3.4	166.1		
12/10/2014	11:47:00	79	12.55	3.0	172.2	End Lead Slurry	
12/10/2014	11:47:24	82	13.00	3.1	173.4	Reset Total, Vol = 153.01 bbl	
12/10/2014	11:48:53	89	13.82	2.8	177.8	Start Mixing Tail Slurry	
12/10/2014	11:49:42	90	13.85	2.9	180.1	Wet/Dry Sample Taken	
12/10/2014	11:50:13	74	13.88	2.5	181.5		
12/10/2014	11:51:20	107	13.89	3.0	184.4	Wet Sample Weighed and Verified	
12/10/2014	11:54:53	99	13.87	3.0	195.4	Good Returns	
12/10/2014	11:55:13	255	13.88	4.7	196.7		
12/10/2014	12:00:13	144	13.91	3.3	221.1		
12/10/2014	12:05:01	5	14.11	0.3	236.1	End Tail Slurry	
12/10/2014	12:05:12	5	14.01	0.0	236.1	Reset Total, Vol = 62.70 bbl	
12/10/2014	12:05:13	5	13.99	0.0	236.1		
12/10/2014	12:06:02	5	13.90	0.0	236.1	Drop Top Plug	
12/10/2014	12:06:12	5	13.89	0.0	236.1	Start Displacement	
12/10/2014	12:10:13	5	13.72	0.0	236.1		
12/10/2014	12:15:13	5	10.67	0.0	0.0		
12/10/2014	12:20:13	52	8.45	3.8	11.5		
12/10/2014	12:25:04	173	9.59	6.3	26.1	Good Returns	
12/10/2014	12:25:13	164	9.61	6.2	27.1		
12/10/2014	12:30:13	164	9.90	6.3	58.6		
12/10/2014	12:35:13	576	9.90	6.0	88.8		
12/10/2014	12:40:13	627	9.89	4.6	116.2		
12/10/2014	12:45:13	550	9.90	1.9	137.9		
12/10/2014	12:50:13	917	9.90	4.6	158.0		
12/10/2014	12:52:30	983	9.90	4.7	166.3	Cement To Surface @ 140 bbl Away	
12/10/2014	12:55:13	1066	9.90	4.6	178.8		
12/10/2014	13:00:13	1226	9.84	4.6	198.6		
12/10/2014	13:05:13	1302	8.36	4.6	221.6		
12/10/2014	13:06:19	1870	8.36	0.0	223.7	Bump Top Plug	
12/10/2014	13:06:21	1870	8.36	0.0	223.7	End Displacement	
12/10/2014	13:06:25	1872	8.36	0.0	223.7	Reset Total, Vol = 223.68 bbl	
12/10/2014	13:09:19	8	8.37	0.0	223.7	Floats Held 1.0 bbl Back	
12/10/2014	13:10:13	21	8.36	0.0	223.7		
12/10/2014	13:15:13	1617	8.35	0.0	225.5		
12/10/2014	13:20:13	1653	8.28	0.0	225.5		
12/10/2014	13:25:13	1688	0.95	0.0	225.5		
12/10/2014	13:29:52	9	8.35	0.0	225.5	End Casing Test Floats Held	
12/10/2014	13:30:13	8	8.35	0.0	225.5		

<b>Well</b> Razor33N-2805 0631548272	<b>Field</b> Wildcat	<b>Job Start</b> Dec/10/2014	<b>Customer</b> Whiting Oil & Gas Corporation	<b>Job Number</b> D2IK-00564
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### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 4.4	N2	Mud	Maximum Rate 7.8	Total Slurry 215.7	Mud 0.0	Spacer 20.5	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3926	Final 11	Average 549	Bump Plug to 1372	Breakdown	Type Mud	Volume 223.7 bbl	Density 10.30 lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 210.0 bbl	Displacement 223.7 bbl	Mix Water Temp 50 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Washed Thru Perfs <input type="checkbox"/>	Volume 80.0 bbl	To ft	
Customer or Authorized Representative Grant Dotson			Schlumberger Supervisor Jason Holt		Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>		



<b>Well</b>	Razor33N-2805	<b>Client</b>	Whiting Oil Gas Corporation
<b>Field</b>	Wildcat	<b>SIR No.</b>	D2IK-00564
<b>Engineer</b>	Jason Holt	<b>Job Type</b>	7" Intermediate
<b>Country</b>	United States	<b>Job Date</b>	12-10-2014

