

# CEMENT JOB REPORT



<b>CUSTOMER</b> CARRIZO OIL & GAS INC XML			<b>DATE</b> 16-AUG-13		<b>F.R. #</b> 10011007778		<b>SERV. SUPV.</b> COLE W MARRIOTT						
<b>LEASE &amp; WELL NAME</b> BOB WHITE 4-36-8-62 - API 05123377450000			<b>LOCATION</b> 36-8N-62W				<b>COUNTY-PARISH-BLOCK</b> Weld Colorado						
<b>DISTRICT</b> Brighton			<b>DRILLING CONTRACTOR RIG #</b> Xtreme Coil #19				<b>TYPE OF JOB</b> Intermediate						
<b>SIZE &amp; TYPE OF PLUGS</b>		<b>LIST-CSG-HARDWARE</b>			<b>MECHANICAL BARRIERS</b>		<b>MD</b>	<b>TVD</b>	<b>HANGER TYPES</b>		<b>MD</b>	<b>TVD</b>	
Cement Plug, Rubber, Bottom 7 in		Float Shoe 7 - 8rd											
Cement Plug, Rubber, Top 7 in		Float Collar, Dif Fill, 7 - 8rd											
<b>MATERIALS FURNISHED BY BJ</b>				<b>LAB REPORT NO.</b>		<b>PHYSICAL SLURRY PROPERTIES</b>							
						<b>SACKS OF CEMENT</b>	<b>SLURRY WGT PPG</b>	<b>SLURRY YLD FT</b>	<b>WATER GPS</b>	<b>PUMP TIME HR:MIN</b>	<b>Bbl SLURRY</b>	<b>Bbl MIX WATER</b>	
Drilling Mud							9.5				68		
Fresh Water							8.33				10		
SealBond + SB Plus							8.4				40		
Premium Lite Cmt + adds				431		12.5	1.94	10.65	03:30	148.96	109.27		
50:50 (Poz:Class G) + adds				164		13.5	1.45	7.07	02:45	42.29	27.59		
Drilling Mud							9.5				257.66		
<b>Available Mix Water</b> 900 <b>Bbl.</b>				<b>Available Displ. Fluid</b> 400 <b>Bbl.</b>				<b>TOTAL</b>		566.91	136.86		
<b>HOLE</b>			<b>TBG-CSG-D.P.</b>						<b>COLLAR DEPTHS</b>				
<b>SIZE</b>	<b>% EXCESS</b>	<b>DEPTH</b>	<b>ID</b>	<b>OD</b>	<b>WGT.</b>	<b>TYPE</b>	<b>MD</b>	<b>TVD</b>	<b>GRADE</b>	<b>SHOE</b>	<b>FLOAT</b>	<b>STAGE</b>	
8.75	35	6670	6.366	7	23	CSG	6661	6525	P-110	6661	6575	0	
<b>LAST CASING</b>			<b>PKR-CMT RET-BR PL-LINER</b>			<b>PERF. DEPTH</b>		<b>TOP CONN</b>		<b>WELL FLUID</b>			
<b>ID</b>	<b>OD</b>	<b>WGT</b>	<b>TYPE</b>	<b>MD</b>	<b>TVD</b>	<b>BRAND &amp; TYPE</b>	<b>DEPTH</b>	<b>TOP</b>	<b>BTM</b>	<b>SIZE</b>	<b>THREAD</b>	<b>TYPE</b>	<b>WGT.</b>
8.9	9.625	36	CSG	1434	1434	No packer	0	0	0	7	8RD	WATER BASED ML	9.6
<b>DISPL. VOLUME</b>		<b>DISPL. FLUID</b>		<b>CAL. PSI</b>	<b>CAL. MAX PSI</b>	<b>OP. MAX</b>	<b>MAX TBG PSI</b>		<b>MAX CSG PSI</b>		<b>MIX WATER</b>		
<b>VOLUME</b>	<b>UOM</b>	<b>TYPE</b>	<b>WGT.</b>	<b>BUMP PLUG</b>	<b>TO REV.</b>	<b>SQ. PSI</b>	<b>RATED</b>	<b>Operator</b>	<b>RATED</b>	<b>Operator</b>			
258.9	BBLS	Drilling Mud	9.5	1059	0	0	0	0	3488	3000	Rig		
<b>EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: None</b>													
<b>PRESSURE/RATE DETAIL</b>						<b>EXPLANATION</b>							
<b>TIME HR:MIN.</b>	<b>PRESSURE - PSI</b>		<b>RATE BPM</b>	<b>Bbl. FLUID PUMPED</b>	<b>FLUID TYPE</b>	<b>SAFETY MEETING: BJ CREW</b> <input checked="" type="checkbox"/> <b>CO. REP.</b> <input checked="" type="checkbox"/>							
	<b>PIPE</b>	<b>ANNULUS</b>				<b>TEST LINES</b> 4408 PSI							
						<b>CIRCULATING WELL - RIG</b> <input checked="" type="checkbox"/> <b>BJ</b> <input type="checkbox"/>							
23:05	0	0	0	0	N/A	Arrive on location 63 miles							
23:30	0	0	0	0	N/A	Spot trucks rig running casing							
23:40	0	0	0	0	N/A	Pre rig up safety meeting							
02:10	0	0	0	0	N/A	Pre job safety meeting							
02:25	4408	0	0	0	H2O	Pressure test							
02:30	489	0	5.6	10	H2O	Fresh water							
02:35	428	0	5.6	40	H2O	Seal bond spacer							
02:52	135	0	4.8	145	CMT	Batch up weigh and pump 431 sxs of lead cement @ 12.5 ppg							
03:27	176	0	4.1	43	CMT	Batch up weigh and pump 164 sxs of tail cement @ 13.5 ppg							
03:40	0	0	0	0	N/A	Drop plug							
03:42	1015	0	6.5	200	MUD	Displacement							
04:16	1344	0	5.6	40	MUD	Slow rate							
04:23	1375	0	4.1	19	MUD	Bump plug							
04:26	2573	0	0	0	N/A	Plug down							
04:32	1502	0	2.8	2	MUD	Casing test							

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TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES 4408 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	1375	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	0	499	0	Y <input checked="" type="checkbox"/> N	



# CEMENTING LABORATORY REPORT

Lab Report #C08-074-13

COMPANY :	Carrizo Oil & Gas	DATE:	August 21, 2013
WELL NAME:	Bob White 4-36-8-62	LOCATION:	Weld County, Colorado
DISTRICT:	Brighton	TYPE JOB:	Intermediate
API #	05-123-37745-0000	TOC(md):	
DEPTH MD(ft):	6,625 ft	BHST(°F):	194 °F
CASING SIZE("):	7 in	BHCT(°F):	129 °F
TUBING SIZE("):		BHSqT(°F):	163 °F
HOLE SIZE("):	8 3/4 in	TOL (°F):	Static      Circ

## SLURRY DESIGN DATA

#1	Lead Slurry: Premium Lite Cement + 6% Bentonite + 0.4% FL-52 + 0.25% Cello Flake
#2	Tail Slurry: Class G Cement:Poz:Bentonite (50:50:3) + 0.5% SMS + 0.4% FL-52
#3	

SLURRY PROPERTIES			#1	#2	#3
Density : ppg			12.50	13.50	
Yield :cu.ft./sk.			1.94	1.45	
Mixing Water: gal/sk.			10.65	7.07	
Water Type:			Fresh	Fresh	
Testing Temperature :			128 °F	128 °F	
Thickening Time: hrs:mins.			3:39	4:28	
Free Water: mls.					
Fluid Loss:ml/30min					
Compressive Strength:					
Rheologies			RPM		
			300		
			200		
			100		
			6		
			3		
			600		
			PV		
			YP		
Gel Strength : #/100sq.ft.			10 sec.		
			10 min.		

REMARKS :	
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**COMMENTS :** The above data is supplied solely for informational purposes and BHI makes no guarantees or warranties, either express or implied, with respect to the accuracy or use of this data. All product warranties and guarantees shall be governed by the standard contract terms at the time of sale.



## C156

