

# CEMENT JOB REPORT



<b>CUSTOMER</b> CARRIZO OIL & GAS INC XML			<b>DATE</b> 06-NOV-14		<b>F.R. #</b> 10011115195			<b>SERV. SUPV.</b> STEVEN S ISCHE						
<b>LEASE &amp; WELL NAME</b> HEMBERGER #4-26-8-60 - API 05123393310000			<b>LOCATION</b> 26-8N-60W			<b>COUNTY-PARISH-BLOCK</b> Weld Colorado								
<b>DISTRICT</b> Brighton			<b>DRILLING CONTRACTOR RIG #</b>			<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, Top 7 in		Float Collar, Al Flap, 7 - 8rd		None		0	0	None		0	0			
		Float Shoe 7 - 8rd												
		Centralizer, Positive, 7 in												
<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<sup>3</sup></b>	<b>WATER GPS</b>	<b>PUMP TIME HR:MIN</b>	<b>Bbl SLURRY</b>	<b>Bbl MIX WATER</b>
SealBond + SB Plus				N/A				0	8.4	0	0	00:00	40	
Premium Lite Cmt + adds				N/A				378	12.5	1.94	10.64	03:30	115	84.19
50:50 (Poz:Class G) + adds				N/A				200	13.5	1.45	7.06	02:45	49	31.93
Drilling Mud				N/A				0	9.9	0	0	00:00	246	
<b>Available Mix Water</b> 400 Bbl.				<b>Available Displ. Fluid</b> 400 Bbl.				<b>TOTAL</b>				450	116.12	
<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	6350	6.366	7	23	CSG	6377	6377	N-80	6377	6286	1		
<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	9.63	36	CSG	1451	1451	No packer	0	0	0	7	8RD	WATER BASED	8.7	
<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>				
246	BBLS	Drilling Mud	9.9	1344	0	0	0	0	6995	2500	Rig			
<b>Circulation Prior to Job</b>														
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>						Circulation Time: 2			Circulation Rate: 4 BPM					
Mud Density In: 8.7 LBS/GAL Mud Density Out: 8.7 LBS/GAL						PV & YP Mud In: 8			PV & YP Mud Out: 8					
Gas Present: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> Units:						Solids Present at End of Circulation: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>								
<b>Displacement And Mud Removal</b>														
Displaced By: Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/>						Amount Bled Back After Job: 2 BBLS								
Returns During Job: <input type="checkbox"/> NONE <input type="checkbox"/> PARTIAL <input checked="" type="checkbox"/> FULL						Method Used to Verify Returns: Visual								
Cement Returns at Surface: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						Were Returns Planned at Surface: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES								
Pipe Movement: <input type="checkbox"/> ROTATION <input type="checkbox"/> RECIPROCATION <input checked="" type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE														
Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES						Quantity: 34			Type: <input type="checkbox"/> BOW <input type="checkbox"/> RIGID					
Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input type="checkbox"/> MANIFOLD <input checked="" type="checkbox"/> NO MANIFOLD														
<b>Plugs</b>														
Number of Attempts by BJ: 0						Competition: 0			Wiper Balls Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES Quantity:					
Plug Catcher Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES						Parabow Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES								
Was There a Bottom: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES						Top of Plug: 0 FT			Bottom of Plug: 0 FT					
<b>Squeezes (Update Original Treatment Report for Primary Job)</b>														
BLOCK SQUEEZE <input type="checkbox"/> SHOE SQUEEZE <input type="checkbox"/> TOP OF LINER SQUEEZE <input type="checkbox"/> PLANNED <input type="checkbox"/> UNPLANNED <input type="checkbox"/>														
Liner Packer: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES						Bond Log: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES			PSI Applied: 0 Fluid Weight: 0 LBS/GAL					
<b>Casing Test (Update Original Treatment Report for Primary Job)</b>														
Casing Test Pressure: 0 PSI						With 0 LBS/GAL Mud			Time Held: 00 Hours 00 Minutes					
<b>EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:</b> None														

# CEMENT JOB REPORT



## Shoe Test (Update Original Treatment Report for Primary Job)

Depth Drilled out of Shoe: 0 FT Target EMW: 0 LBS/GAL Actual EMW: 0 LBS/GAL  
 Number of Times Tests Conducted: 0 Mud Weight When Test was Conducted: 0 LBS/GAL

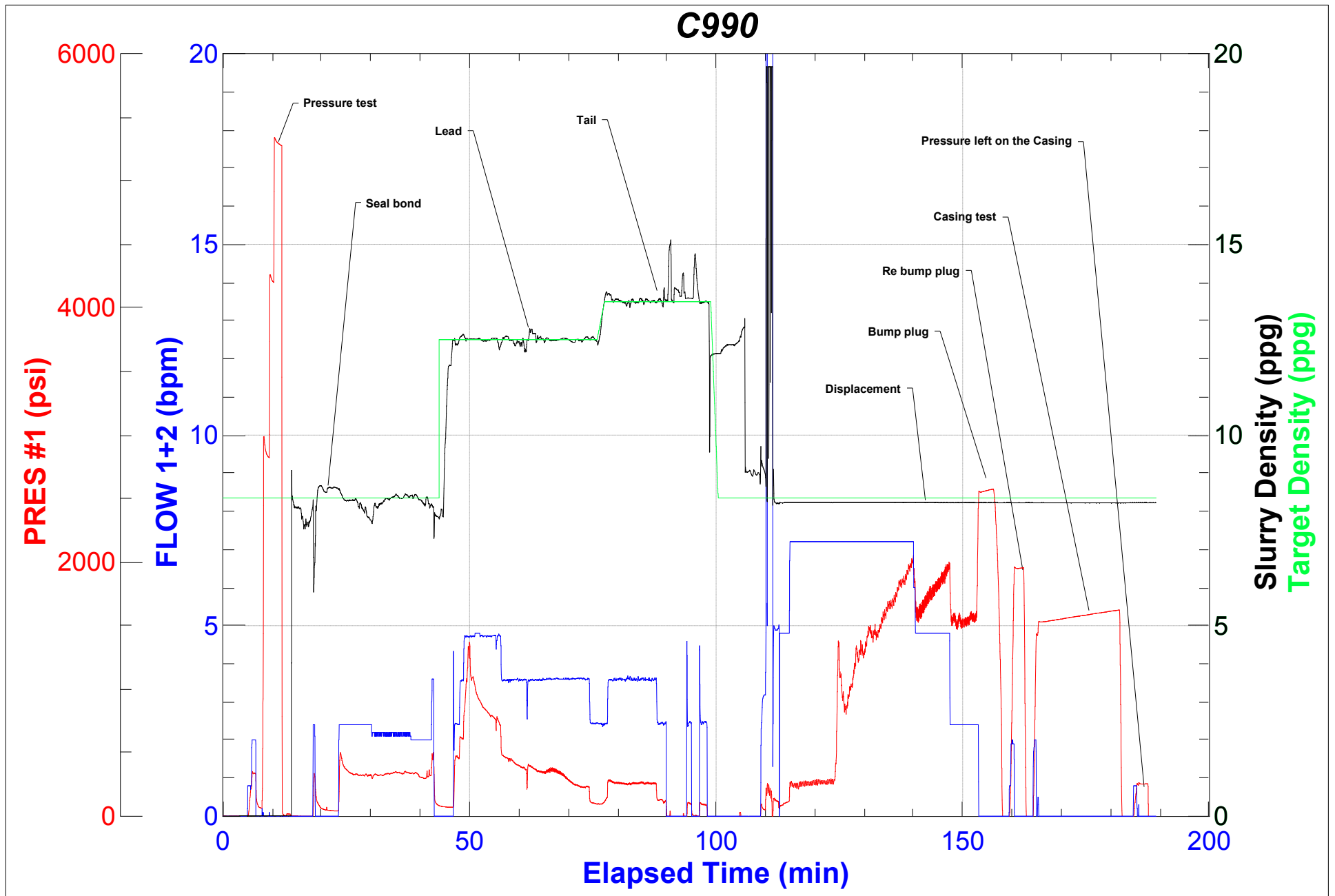
Problems Before Job (I.E. Running Casing, Circulating Well, ETC)  
 None

Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)  
 None

Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)  
 None

PRESSURE/RATE DETAIL						EXPLANATION
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 5339 PSI
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>
01:30	0	0	0	0	N/A	Arrive on location
06:00	0	0	0	0	N/A	Spot trucks and pre rig up safty meeting
07:00	0	0	0	0	N/A	JSA with crew
08:03	280	0	2	2	H2O	Load lines
08:08	5339	0	0	0	H2O	Pressure test
08:16	426	0	2.4	40	H2O	Seal bond spacer
08:45	1079	0	4.7	115	CMT	Batch up, weigh and send 12.5#
09:17	279	0	3.5	49	CMT	13.5# Tail
09:37	0	0	0	0	N/A	Drop bottom plug
09:47	1991	0	7	190	MUD	Displacement
10:19	1876	0	4.8	230	MUD	Rate Change
10:24	1675	0	2	246	H2O	Rate Change
10:32	2553	0	0	0	H2O	Bump plug
10:34	0	0	0	0	N/A	Test floats floats don't hold
10:39	1962	0	0	0	H2O	Pressure up
10:41	0	0	0	0	N/A	Test floats still bleeding back
10:45	1531	0	0	0	H2O	Casing test
11:00	1680	0	0	0	N/A	End casing test floats still bleeding back
11:05	260	0	0	0	N/A	Leave pressure on casing
11:10	0	0	0	0	N/A	Rig down safty meeting

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	2553	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	62	452	260	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	





# CEMENTING LABORATORY REPORT

## Lab Report #

COMPANY :	Carrizo Oil & Gas	DATE:	November 5, 2014
WELL NAME:	Hemberger #4-26-8-60	LOCATION:	Weld County, Colorado
DISTRICT:	Brighton	TYPE JOB:	Intermediate
API #	05-123-39331-0000	TOC(md):	
DEPTH MD(ft):	6,350 ft	BHST(°F):	189 °F
CASING SIZE("):	7 in	BHCT(°F):	141 °F
TUBING SIZE("):		BHSqT(°F):	156 °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 + 0.04% Static Free
#2	Tail Slurry: Class G Cement:Poz:Bentonite II (50:50:3) + 0.5% SMS + 0.4% FL-52 + 0.04% Static Free
#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 :			141 °F	141 °F	
Thickening Time: hrs:mins.			2:40	1:58	
Free Water: mls.					
Fluid Loss:ml/30min					
Compressive Strength:					
		hrs.			
		hrs.			
Rheologies		RPM			
		300			
		200			
		100			
		6			
		3			
		600			
		PV			
		YP			
Gel Strength : #/100sq.ft.		10 sec.			
		10 min.			

REMARKS :	
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