

# CEMENT JOB REPORT



<b>CUSTOMER</b> CARRIZO OIL & GAS INC XML				<b>DATE</b> 17-NOV-13		<b>F.R. #</b> 10011027800				<b>SERV. SUPV.</b> FELIPE LANDA			
<b>LEASE &amp; WELL NAME</b> SPEAKER 3-27-11-8-61 - API 05123383310000				<b>LOCATION</b> 27-8N-61W				<b>COUNTY-PARISH-BLOCK</b> Weld Colorado					
<b>DISTRICT</b> Brighton				<b>DRILLING CONTRACTOR RIG #</b> Xtreme Coil #17				<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		Centralizer, with Pins, 7 in											
		Float Collar, Auto Fill, 7 - 8rd											
		Float Shoe 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<sup>3</sup></b>	<b>WATER GPS</b>	<b>PUMP TIME HR:MIN</b>	<b>Bbl SLURRY</b>	<b>Bbl MIX WATER</b>	
Drilling Mud + Biocide							9.5				68		
Fresh Water							8.33				10		
SealBond + SB Plus							8.4				40		
Premium Lite Cmt + adds						409	12.5	1.94	10.65	03:30	141.35	103.69	
50:50 (Poz:Class G) + adds						198	13.5	1.45	7.07	02:45	51.05	33.31	
Drilling Mud							9.5				258		
<b>Available Mix Water</b> 400 <b>Bbl.</b>				<b>Available Displ. Fluid</b> 400 <b>Bbl.</b>				<b>TOTAL</b>		568.41		137.01	
<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	6660	6.366	7	23	CSG	6640	6640	P-110	6640	6554	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	9.63	36		1440	1440	NO PACKER	0	0	0	7	8RD	WATER BASED	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	BBLS	Drilling Mud	9.5	1074	0	0	0	0	6340	5072	TANK		
<b>Circulation Prior to Job</b>													
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>						Circulation Time: 1			Circulation Rate: 3 BPM				
Mud Density In: 9.6 LBS/GAL Mud Density Out: 9.6 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: 1.5 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 type="checkbox"/> YES <input checked="" type="checkbox"/> NO						Were Returns Planned at Surface: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES							
Pipe Movement: <input type="checkbox"/> ROTATION <input type="checkbox"/> RECIPROCATION <input type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE													
Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES						Quantity: 58			Type: <input type="checkbox"/> BOW <input type="checkbox"/> RIGID				
Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input checked="" type="checkbox"/> MANIFOLD <input type="checkbox"/> NO MANIFOLD													
<b>Plugs</b>													
Number of Attempts by BJ: 0						Competition:			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: 1701 PSI						With 9.6 LBS/GAL Mud			Time Held: 00 Hours 15 Minutes				

# 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

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: 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 4662 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
09:00	0	0	0	0	NA	YARD CALL	
11:48	0	0	0	0	NA	LEAVE YARD	
13:18	0	0	0	0	NA	ARRIVED ON LOCATION ( RIG RUNNING CASING )	
18:45	0	0	0	0	NA	SPOT TRUCKS/PRE RIG UP SAFETY MEETING	
19:25	0	0	0	0	NA	SAFETY MEETING	
20:09	380	0	1.3	2	H2O	LOAD LINES	
20:12	2790	0	0	0	H2O	LOW PRESSURE TEST	
20:15	4662	0	0	0	H2O	HIGH PRESSURE TEST	
20:18	628	0	5	10	H2O	FRESH WATER	
20:25	450	0	4.1	40	H2O	SEALBOND + SEALBOND PLUS	
20:40	692	0	5.6	141	LEAD	409 SACKS OF PREMIUM LITE CEMENT + 25 lbs/sack CELLO FLAKE + 0.2% FL-52 + 6% BENTONITE @ 12.5 PPG	
21:19	87	0	3	49	TAIL	198 SACKS OF 50):50:POZ(FLY ASH):CLASS "G" CEMENT + 0.4% FL-52 + 3% BENTONITE + 0.5% SODIUM METASIILICATE @ 13.5 PPG	
21:41	0	0	0	0	NA	DROP PLUG	
21:42	963	0	5.9	200	MUD	DISPLACE	
22:18	1040	0	4.1	38	MUD	RATE CHANGE	
22:27	1081	0	2.8	20	MUD	RATE CHANGE	
22:34	1701	0	2.8	0	MUD	BUMP PLUG @ 258 BBLs	
22:34	1701	0	0	0	MUD	CASING TEST	
22:49	1866	0	0	0	MUD	END CASING TEST	
22:50	0	0	0	0	MUD	BLEED OFF PRESSURE/CHECK FLOATS	
23:00	0	0	0	0	NA	POST JOB RIG DOWN SAFETY MEETING	
BUMPED PLUG <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	PSI TO BUMP PLUG 1701	TEST FLOAT EQUIP. <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	BBL.CMT RETURNS/ REVERSED 0	TOTAL BBL. PUMPED 514	PSI LEFT ON CSG 0	SPOT TOP OUT CEMENT Y <input checked="" type="checkbox"/> N	Service Supervisor Signature:



# CEMENTING LABORATORY REPORT

## Lab Report #C1104713

COMPANY :	Carrizo Oil & Gas Inc	DATE:	November 17, 2013
WELL NAME:	Speaker 3-27-11-8-61	LOCATION:	Weld County, Colorado
DISTRICT:	Brighton	TYPE JOB:	Intermediate
API #	05-123-38331-0000	TOC(md):	
DEPTH MD(ft):	6,664 ft	BHST(°F):	186 °F
CASING SIZE("):	7 in	BHCT(°F):	125 °F
TUBING SIZE("):		BHSqT(°F):	157 °F
HOLE SIZE("):	8 3/4 in	TOL (°F):	Static Circ

### SLURRY DESIGN DATA

#1	Lead Slurry: Premium Lite Cement + 6% Bentonite, 0.2% FL-52, 0.25 pps Cello Flake
#2	Tail Slurry: Class G Cement: FA (50:50) + 3% Bentonite, 0.5% Sodium Metasilicate, 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 :			124 °F	124 °F	
Thickening Time: hrs:mins.			5:15	3:51	
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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**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.

## SPEAKER 3-27-8-61 (C156)

