

# CEMENT JOB REPORT



<b>CUSTOMER</b> CARRIZO OIL & GAS INC XML		<b>DATE</b> 12-MAY-13		<b>F.R. #</b> 1001987115		<b>SERV. SUPV.</b> FELIPE LANDA							
<b>LEASE &amp; WELL NAME</b> SIEVERS 1-3-7-62 - API 05123365570000		<b>LOCATION</b> 3-7N-62W		<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>						
Cement Plug, Rubber, Bottom 7 in		Centralizer, with Pins, 7 in											
Cement Plug, Rubber, Top 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		0		0	9.5	0	0	00:00	68				
Fresh Water		0		0	8.33	0	0	00:00	10				
SealBond + SB Plus		0		0	8.4	0	0	00:00	40				
Premium Lite Cmt + adds				454	12.5	1.94	10.65	04:00	157.03	115.07			
50/50 (Poz/Class G) + adds				141	13.5	1.71	8.30	03:00	43.01	27.87			
Drilling Mud		0		0	9.5	0	0		267.54				
<b>Available Mix Water</b> 400 <b>Bbl.</b>		<b>Available Displ. Fluid</b> 400 <b>Bbl.</b>		<b>TOTAL</b>				585.59	142.94				
<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		6876	6.366	7	23	CSG	6860	6604	P-110	6860	6774		
<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	1416	1416	NO PACKER	0	0	0	7	8RD	WATER BASED	9.7
<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>			
266	BBLS	Drilling Mud	9.5	1335	0	0	0	0	7968	3000	FRAC TANK		
<b>Circulation Prior to Job</b>													
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>						Circulation Time: 1			Circulation Rate: 5 BPM				
Mud Density In: 9.7 LBS/GAL Mud Density Out: 9.7 LBS/GAL						PV & YP Mud In: 0			PV & YP Mud Out: 0				
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: 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: 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: 2002 PSI With 9.7 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)  
 CEMENT BACK TO SURFACE EARLY PUMP MAX RATE FOR JOB 4 BPM

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

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: CASING GETTING STUCK

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 4647 PSI
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>
16:00	0	0	0	0	NA	YARD CALL
20:02	0	0	0	0	NA	ARRIVE ON LOCATION ( RIG RUNNING CASING)
22:00	0	0	0	0	NA	SPOT TRUCKS/ PRE-RIG UP SAFETY MEETING ( RIG CIRCULATING)
23:10	0	0	0	0	NA	SAFETY MEETING
23:40	10	0	1.5	2	H2O	LOAD LINES
23:48	84	0	2	10	H2O	SPACER ( BIOCID 1 GALLON )
23:53	266	0	4.5	40	H2O	SEAL BOND + SEAL BOND PLUS SPACER
00:03	272	0	4.6	146	LEAD	BATCH TO WEIGHT 454 SKS PLC + 0.25 LBS/SKS CELLO FLAKE + 0.4% FL-52 + 6% BENTONITE @ 12.5 PPG
00:45	91	0	2.4	43	TAIL	141 SKS 50):50: POZ ( FLY ASH ) "G" CEMENT + 20% SILICA FLOUR + 0.4% FL-52 + 3% BENTONITE + 0.1% SMS @ 13.5 PPG
01:05	0	0	0	0	NA	DROP PLUG
01:07	952	0	4.2	210	MUD	DISPLACEMENT
02:06	1429	0	3.6	57	MUD	RATE CHANGE
02:21	1990	0	0	0	MUD	BUMP PLUG @ 266 BBLs ( 64 BBLs CEMENT BACK )
02:24	2002	0	0	0	MUD	CASING TEST ( 15 MIN )
02:39	0	0	0	0	NA	CHECK FLOATS (2 BBLs BACK)
02:45	0	0	0	0	NA	POST RIG DOWN SAFETY 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	1990	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	64	505	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	



# CEMENTING LABORATORY REPORT

## Lab Report #C05-048-13

COMPANY :	Carrizo Oil & Gas	DATE:	May 12, 2013
WELL NAME:	Sievers 1-3-7-62	LOCATION:	Weld County, Colorado
DISTRICT:	Brighton	TYPE JOB:	Intermediate
API #	05-123-36557-0000	TOC(md):	
DEPTH MD(ft):	6,604 ft	BHST(°F):	212 °F
CASING SIZE("):	7 in	BHCT(°F):	140 °F
TUBING SIZE("):		BHSqT(°F):	178 °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: FA (50:50) + 20% Silica Flour + 3% Bentonite + 0.4% FL-52 + 0.1% SMS
#3	

SLURRY PROPERTIES			#1	#2	#3
Density : ppg			12.50	13.50	
Yield :cu.ft./sk.			1.94	1.71	
Mixing Water: gal/sk.			10.65	8.30	
Water Type:			Fresh	Fresh	
Testing Temperature :			139 °F	139 °F	
Thickening Time: hrs:mins.			10:00+	10:00+	
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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