

# CEMENT JOB REPORT



<b>CUSTOMER</b> CARRIZO OIL & GAS INC XML				<b>DATE</b> 17-SEP-13		<b>F.R. #</b> 10011013939		<b>SERV. SUPV.</b> ERIC S DEWIT						
<b>LEASE &amp; WELL NAME</b> O'HARE 1-5-10-57 - API 05123365780000				<b>LOCATION</b> 5-10N-57W				<b>COUNTY-PARISH-BLOCK</b> Weld Colorado						
<b>DISTRICT</b> Brighton				<b>DRILLING CONTRACTOR RIG #</b> Xtreme Coil #19				<b>TYPE OF JOB</b> Plug Back						
<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>			
None		No Shoe		None		0	0	None		0	0			
None				None		0	0	None		0	0			
				None		0	0	None		0	0			
<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>
Mud Clean I								0	8.4	0	0	00:00	21	
(50:50) Poz:Class G + Adds								348	14.4	1.21	5.40	03:30	75.2	44.73
Mud Clean I								0	8.4	0	0	00:00	3	
Drilling Mud								0	9.5	0	0	00:00	55	
Mud Clean I								0	8.4	0	0	00:00	27	
Class G + Additives								256	17	0.99	3.77	02:30	44.9	22.86
Mud Clean I								0	8.4	0	0	00:00	4	
Drilling Mud								0	9.5	0	0	00:00	47	
Available Mix Water 400 Bbl.				Available Displ. Fluid 400 Bbl.				<b>TOTAL</b>				277.1	67.59	
<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	0	6231	8.921	9.625	36	CSG	1404	1404	J-55	0	0	0		
			3.34	4	14	DP	6231	6231	X-95					
<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	1404	1404	No packer	0	0	0	4	XH	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>				
95	BBLS	Drilling Mud	9.5	0	0	0	0	0	0	0	Rig			
		Drilling Mud	9.5											
<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: 10			PV & YP Mud Out: 10					
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: 0 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 checked="" type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE														
Centralizers: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES						Quantity:		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: 2 Competition: 2						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: 4518 FT			Bottom of Plug: 6231 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						

# CEMENT JOB REPORT



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

Casing Test Pressure: 0 PSI With 0 LBS/GAL Mud Time Held: 00 Hours 00 Minutes

## 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 3075 PSI		
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>		
19:30	0	0	0	0	N/A	Leave yard		
21:33	0	0	0	0	N/A	Arrive an locatin		
21:45	0	0	0	0	N/A	Spot trucks, Pre rig up safety meeting		
23:00	0	0	0	0	N/A	Pre job safety meeting		
23:28	0	0	1	1.5	H2O	Load lines		
23:30	3075	0	0	0	H2O	Pressure test pumps and lines		
23:43	326	0	4.8	21	H2O	Mud clean l spacer		
23:51	395	0	4.8	70	CMT	Batch, weigh, and pump first plug @14.4#		
00:17	71	0	4.8	4	H2O	Displace with mud clean l		
00:18	112	0	6	40	MUD	Displace with mud		
00:25	92	0	3.6	4	MUD	Drop rate		
00:27	0	0	0	0	MUD	Balance plug		
00:29	0	0	0	0	N/A	Rig pull pipe/ roll hole		
01:56	285	0	4.8	27	MUDCLEA	Spacer		
02:05	212	0	3.6	38	CMT	Batch, weigh, and pump second plug @17#		
02:22	68	0	4.8	5	H2O	Fresh water displacement		
02:23	91	0	4.8	30	MUD	Displacement		
02:30	59	0	2.4	12	MUD	Drop rate		
02:36	0	0	0	0	N/A	Balance plug		
02:40	0	0	0	0	N/A	Pre 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:
Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	0	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	0	255	0	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	



# CEMENTING LABORATORY REPORT

## Lab Report #C0905013

COMPANY :	Carrizo Oil & Gas Inc	DATE:	September 16, 2013
WELL NAME:	O'Hare #1-5-10-57	LOCATION:	Weld County, Colorado
DISTRICT:	Brighton	TYPE JOB:	Filler Plug and Kick Off Plug
API #	05-123-37372-0000	TOC(md):	
DEPTH MD(ft):	6,550 ft	BHST(°F):	203 °F
CASING SIZE("):	9 5/8 in	BHCT(°F):	134 °F
TUBING SIZE("):		BHSqT(°F):	171 °F
HOLE SIZE("):	8 3/4 in	TOL (°F):	Static Circ

### SLURRY DESIGN DATA

#1	Filler Plug : 50:50:2 ( FA:G:Bentonite) + 0.1% R-3.
#2	Kick Off Plug: Class G + 0.05% R-3, 0.4% CD-32.
#3	

SLURRY PROPERTIES			#1	#2	#3
Density : ppg			14.40	17.00	
Yield :cu.ft./sk.			1.21	0.99	
Mixing Water: gal/sk.			5.40	3.77	
Water Type:			Fresh	Fresh	
Testing Temperature :			135 °F	116 °F	
Thickening Time: hrs:mins.			3:18	2:18	
Free Water: mls.					
Fluid Loss:ml/30min					
Compressive Strength:	UCA		179 °F	168 °F	
	24	hrs.	1674 psi	3843 psi	
	72	hrs.	1688 psi	3878 psi	
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.



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DISTRICT:	Brighton	TYPE JOB:	Filler Plug and Kick Off Plug
API #	05-123-37372-0000	TOC(md):	
DEPTH MD(ft):	6,550 ft	BHST(°F):	203 °F
CASING SIZE("):	9 5/8 in	BHCT(°F):	136 °F
TUBING SIZE("):		BHSqT(°F):	171 °F
HOLE SIZE("):	8 3/4 in	TOL (°F):	Static Circ

## SLURRY DESIGN DATA

#1	Filler Plug : 50:50:2 ( FA:G:Bentonite) + 0.15% R-3.
#2	Kiock Off Plugg: Class G + 0.15% R-3 2, 0.4% CD-32.
#3	

SLURRY PROPERTIES			#1	#2	#3
Density : ppg			14.40	17.00	
Yield :cu.ft./sk.			1.21	0.99	
Mixing Water: gal/sk.			5.40	3.77	
Water Type:			Fresh	Fresh	
Testing Temperature :			160 °F	136 °F	
Thickening Time: hrs:mins.			3:35	3:37	
Free Water: mls.					
Fluid Loss:ml/30min					
Compressive Strength:	UCA		110 °F	160 °F	
	24	hrs.	1674 psi	3843 psi	
	72	hrs.	2100 psi	5078 psi	
Rheologies	RPM				
	300				
	200				
	100				
	6				
	3				
	600				
	PV				
	YP				
Gel Strength : #/100sq.ft.	10 sec.				
	10 min.				

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