

Report Printed on: OCT-03-14 16:45:20

# 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

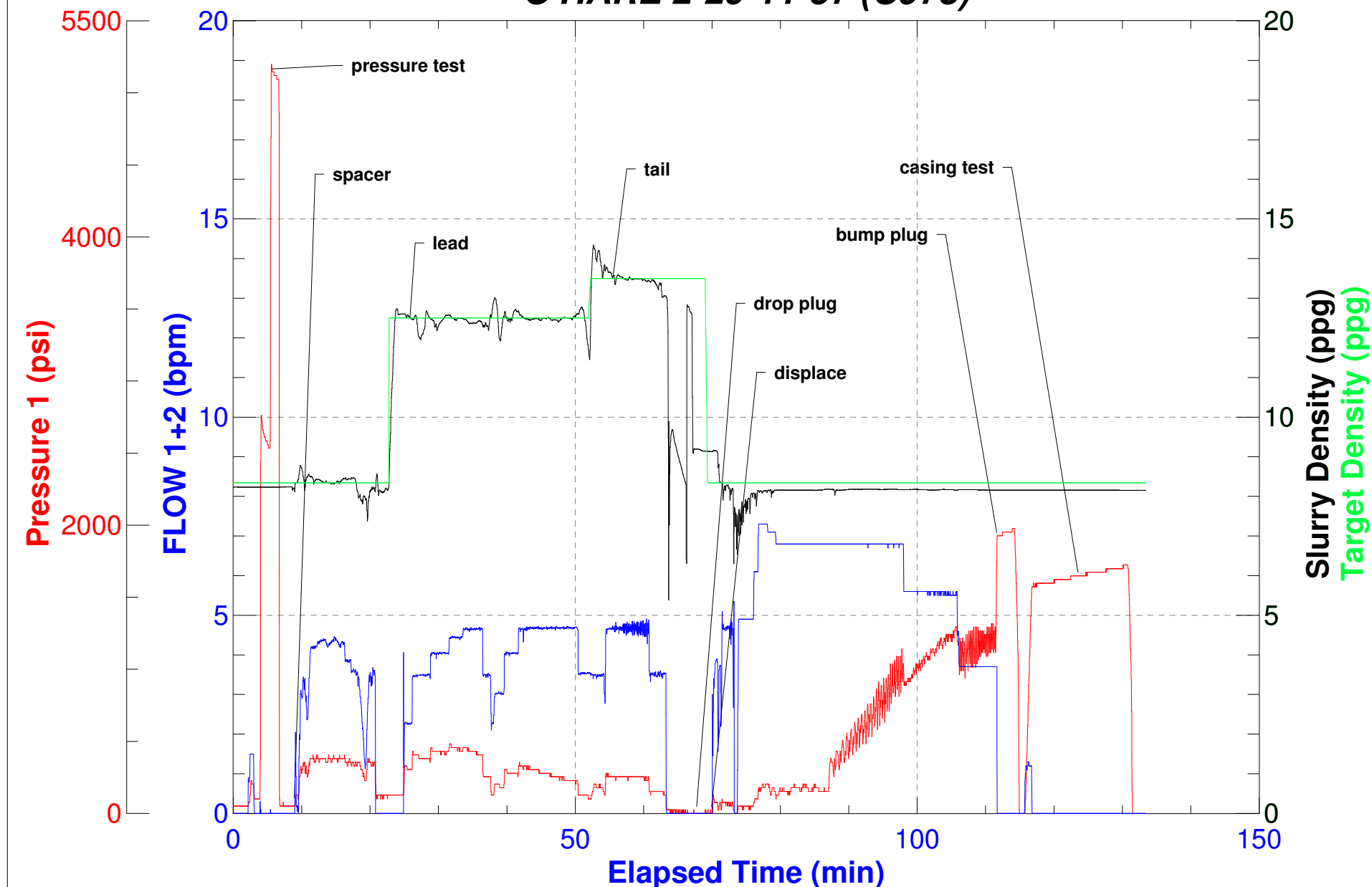
Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)  
 NONE

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 5222 PSI
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>
23:00	0	0	0	0	NA	ARRIVE ON LOCATION 10-2-14 ( RTS 02:30 ) rig just started running casing
08:45	0	0	0	0	NA	CASING CREW RIGGING DOWN
09:10	0	0	0	0	NA	SPOT TRUCKS/PRE RIG UP SAFETY MEETING
09:50	0	0	0	0	NA	SAFETY MEETING
10:12	200	0	.8	1	H2O	LOAD LINES
10:13	1763	0	0	0	H2O	LOW PRESSURE TEST
10:15	5222	0	0	0	H2O	HIGH PRESSURE TEST
10:18	380	0	4.2	40	H2O	SEAL BOND + SEAL BOND PLUS
10:35	344	0	4.7	118	LEAD	347 SACKS OF PREMIUM LITE CEMENT + 0.04% STATIC FREE + 0.25 lbs/sack CELLO FLAKE + 0.4% FL-52 + 0.5 gals/100 sack FP-6L + 6% BENTONITE II @ 12.5 PPG
11:02	254	0	4.7	45	TAIL	194 SACKS OF (50:50) POZ (FLY ASH): CLASS "G" CEMENT + 0.04% STATIC FREE + 0.4% FL-52 + 0.5 gals/100 sack FP-6L + 0.5% SODIUM METASILICATE + 3% BENTONITE II @ 13.5 PPG
11:20	0	0	0	0	NA	DROP PLUG
11:21	988	0	6.8	160	MUD	DISPLACE
11:47	1242	0	5.5	40	MUD	RATE CHANGE
11:55	1288	0	3.6	31	MUD	RATE CHANGE
12:01	1952	0	3.6	0	MUD	BUMP PLUG @ 231 BBLS ( 35 bbls spacer back )
12:03	0	0	0	0	MUD	CHECK FLOATS
12:05	1560	0	1.2	0	MUD	CASING TEST
12:20	1710	0	0	0	MUD	END CASING TEST
12:30	0	0	0	0	NA	POST JOB 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	1952	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	0	434	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

## O'HARE 2-29-11-57 (C973)





# CEMENTING LABORATORY REPORT

## Lab Report #C10-005-14

COMPANY :	Carrizo Oil & Gas	DATE:	October 2, 2014
WELL NAME:	O'Hare 2-29-11-57	LOCATION:	Weld County, Colorado
DISTRICT:	Brighton	TYPE JOB:	Intermediate
API #	05-123-40082-0000	TOC(md):	
DEPTH MD(ft):	5,750 ft	BHST(°F):	182 °F
CASING SIZE("):	7 in	BHCT(°F):	141 °F
TUBING SIZE("):		BHSqT(°F):	153 °F
HOLE SIZE("):	8 3/4 in	TOL (°F):	Static Circ

### SLURRY DESIGN DATA

#1	Lead Slurry: Premium Lite Cement + 6% Bentonite II, 0.4% FL-52, 0.25% pps Cello Flake, 0.04% Static Free, 0.5 gal/100sack FP-6L	
#2	Tail Slurry: 50:50:3 (FA:G:Bentonite II) + 0.5% SMS, 0.4% FL-52, 0.04% Static Free, gal/100sack FP-6L	0.5
#3		

SLURRY PROPERTIES			#1	#2	#3
Density : ppg			12.50	13.50	
Yield :cu.ft./sk.			1.94	1.45	
Mixing Water: gal/sk.			10.64	7.06	
Water Type:			Fresh	Fresh	
Testing Temperature :			139 °F	140 °F	
Thickening Time: hrs:mins.			2:46	2:42	
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 :	Tail gelled off at the time shown and never fully set until machine was shutdown for 15 min at 7 hours into the test. The cement can be considered set and was liekly hard around the shaft, but still spinning on the outside after 2:42.
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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 acurracy or use of this data. All product warranties and guarantees shall be governed by the standard contract terms at the time of sale.



FIELD RECEIPT NO. 10011104385

<b>CUSTOMER</b> CARRIZO OIL & GAS INC XML					<b>CREDIT APPROVAL NO.</b>		<b>PURCHASE ORDER NO.</b>		<b>CUSTOMER NUMBER</b> 0040003338 - 0040139823-1		<b>INVOICE NUMBER</b>			
<b>MAIL STREET OR BOX NUMBER</b> 500 DALLAS STREET, SUITE 2499					<b>CITY</b> Houston		<b>STATE</b> Texas		<b>ZIP CODE</b> 77063					
<b>DATE WORK MO. DAY YEAR</b> COMPLETED 10 03 2014					<b>BHI REPRESENTATIVE</b> FELIPE LANDA		<b>WELL API NO:</b> 05123400820000		<b>WELL TYPE :</b> New Well					
<b>DISTRICT</b> PP, BRIGHTON					<b>JOB DEPTH (ft)</b> 5,981		<b>WELL CLASS :</b> Oil							
<b>WELL NAME AND NUMBER</b> O'HARE 2-29-11-57					<b>TD WELL DEPTH (ft)</b> 6,001		<b>GAS USED ON JOB :</b> No Gas							
<b>WELL LOCATION :</b> 29-11N-57W					<b>COUNTY/PARISH</b> Weld		<b>STATE</b> Colorado		<b>JOB TYPE CODE :</b> Intermediate					
<b>PRODUCT CODE</b>		<b>DESCRIPTION</b>				<b>UNIT OF MEASURE</b>	<b>QUANTITY</b>	<b>LIST PRICE UNIT</b>	<b>GROSS AMOUNT</b>	<b>% DISC.</b>	<b>NET AMOUNT</b>			
100021		Class G Cement				sacks	97	31.800	3,084.60	70%	925.38			
100275		Sodium Metasilicate				lbs	82	4.100	336.20	70%	100.86			
100295		Cello Flake				lbs	87	5.100	443.70	70%	133.11			
100317		Poz (Fly Ash)				sacks	97	14.200	1,377.40	70%	413.22			
398224		Premium Lite Cement				sacks	347	27.650	9,594.55	70%	2,878.37			
488015		FL-52				lbs	187	26.900	5,030.30	70%	1,509.09			
488019		FP-6L				gals	3	104.250	312.75	70%	93.83			
488449		Bentonite II				lbs	2301	0.440	1,012.44	70%	303.73			
488521		SealBond Plus				lbs	600	4.730	2,838.00	45%	1,560.90			
499632		Granulated Sugar				lbs	100	3.840	384.00	70%	115.20			
499680		Static Free				lbs	19	40.700	773.30	70%	231.99			
L398463-00		SealBond Spacer, w/ 45 lb bag				bbls	40	278.000	11,120.00	45%	6,116.00			
		SUB-TOTAL FOR Product Material							36,307.24	60.39%	14,381.68			
<b>ARRIVE LOCATION :</b>		<b>MO.</b> 10	<b>DAY</b> 02	<b>YEAR</b> 2014	<b>TIME</b> 23:00	<b>SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE LAST PAGE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.</b>  <div style="text-align: center;"> <b>CUSTOMER AUTHORIZED AGENT</b> </div>				<b>SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.</b>  <div style="text-align: center;"> <b>CUSTOMER AUTHORIZED AGENT</b>  X </div>				
<b>CUSTOMER REP.</b> ANDREW TAYLOR					<b>BHI APPROVED</b> X									
<b>SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS</b>														



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<b>MAIL INVOICE TO</b>		<b>STREET OR BOX NUMBER</b> 500 DALLAS STREET, SUITE 2499				<b>CITY</b> Houston		<b>STATE</b> Texas		<b>ZIP CODE</b> 77063		
<b>DATE WORK COMPLETED</b>	<b>MO.</b> 10	<b>DAY</b> 03	<b>YEAR</b> 2014	<b>BHI REPRESENTATIVE</b> FELIPE LANDA		<b>WELL API NO:</b> 05123400820000		<b>WELL TYPE :</b> New Well				
<b>DISTRICT</b> PP, BRIGHTON					<b>JOB DEPTH (ft)</b> 5,981		<b>WELL CLASS :</b> Oil					
<b>WELL NAME AND NUMBER</b> O'HARE 2-29-11-57					<b>TD WELL DEPTH (ft)</b> 6,001		<b>GAS USED ON JOB :</b> No Gas					
<b>WELL LOCATION :</b>		<b>LEGAL DESCRIPTION</b> 29-11N-57W				<b>COUNTY/PARISH</b> Weld		<b>STATE</b> Colorado		<b>JOB TYPE CODE :</b> Intermediate		
<b>PRODUCT CODE</b>	<b>DESCRIPTION</b>					<b>UNIT OF MEASURE</b>	<b>QUANTITY</b>	<b>LIST PRICE UNIT</b>	<b>GROSS AMOUNT</b>	<b>% DISC.</b>	<b>NET AMOUNT</b>	
A152	Personnel Per Diem Chrg - Cement Svc					ea	1	210.000	210.00	0%	210.00	
M100	Bulk Materials Blending Charge					cu ft	645	5.450	3,515.25	70%	1,054.58	
R798	Automatic Density System					job	1	1,990.000	1,990.00	70%	597.00	
	SUB-TOTAL FOR Service Charges								5,715.25	67.43%	1,861.58	
F063A	Cement Pumping, 5001 - 6000 ft					6hrs	1	7,325.000	7,325.00	70%	2,197.50	
F090	Fuel per pump charge - cement					pump/hr	4	70.250	281.00	0%	281.00	
J050	Cement Head					job	1	830.000	830.00	70%	249.00	
J225	Data Acquisition, Cement, Standard					job	1	2,130.000	2,130.00	70%	639.00	
J390	Mileage, Heavy Vehicle					miles	232	11.850	2,749.20	70%	824.76	
J391	Mileage, Auto, Pick-Up or Treating Van					miles	232	6.700	1,554.40	70%	466.32	
K289	Misc Cement Pumping, Non-Pump Time					hrs	4	575.000	2,300.00	0%	2,300.00	
	SUB-TOTAL FOR Equipment								17,169.60	59.48%	6,957.58	
J401	Bulk Delivery, Dry Products					ton-mi	2927	3.940	11,532.38	70%	3,459.71	
	SUB-TOTAL FOR Freight/Delivery Charges								11,532.38	70.00%	3,459.71	
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<b>CUSTOMER REP.</b> ANDREW TAYLOR						<b>CUSTOMER AUTHORIZED AGENT</b>  <b>BHI APPROVED</b>				<b>X</b>		
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	FIELD ESTIMATE							70,724.47	62.30%	26,660.55	
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