

# CEMENT JOB REPORT



<b>CUSTOMER</b> CARRIZO OIL & GAS INC XML			<b>DATE</b> 26-NOV-14		<b>F.R. #</b> 10011120540			<b>SERV. SUPV.</b> ROBERT HORAN						
<b>LEASE &amp; WELL NAME</b> TIMBRO RANCH #1-3-9-59 - API 05123404550000			<b>LOCATION</b> 3-9N-59W			<b>COUNTY-PARISH-BLOCK</b> Weld Colorado								
<b>DISTRICT</b> Brighton			<b>DRILLING CONTRACTOR RIG #</b> Xtreme Coil 19			<b>TYPE OF JOB</b> Surface								
<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 9-5/8 in		Cement Basket, Slip On, 9-5/8 in			NONE				NONE					
		Centralizer, with Pins, 9-5/8 in												
		Float Collar, Auto Fill, 9-5/8 - 8rd												
		Float Shoe 9-5/8 - 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>		
Fresh Water + 2 lbs Red Dye				N/A		0	8.34	0	0	00:00	15			
Type III Cmt + adds				C11-093-14		146	14.5	1.41	6.82	02:37	36.58	23.70		
Premium Lite Cmt + adds				C11-093-14		403	13	1.81	9.46	00:49	130.21	90.77		
Fresh Water				N/A		0	8.34	0	0	00:00	109.01			
<b>Available Mix Water</b> 500 Bbl.				<b>Available Displ. Fluid</b> 500 Bbl.		<b>TOTAL</b>			290.80		114.47			
<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>		
12.25	100	1815	8.921	9.625	36	CSG	1795	1795	J-55					
<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>
15.	16	65		70	70	NO PACKER			0	0	9.625	8RND	WATER BASED	8.34
<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>			
135	BBLS	Fresh Water		8.34	0	0	0	0	0	3520	2816	RIG 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: 8.34 LBS/GAL				Mud Density Out: 8.34 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"/> RECIPROICATION <input checked="" type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE														
Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES				Quantity: 17				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: 1541 PSI				With 8.34 LBS/GAL Mud				Time Held: 00 Hours 15 Minutes						
<b>EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING-NONE</b>														

# 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

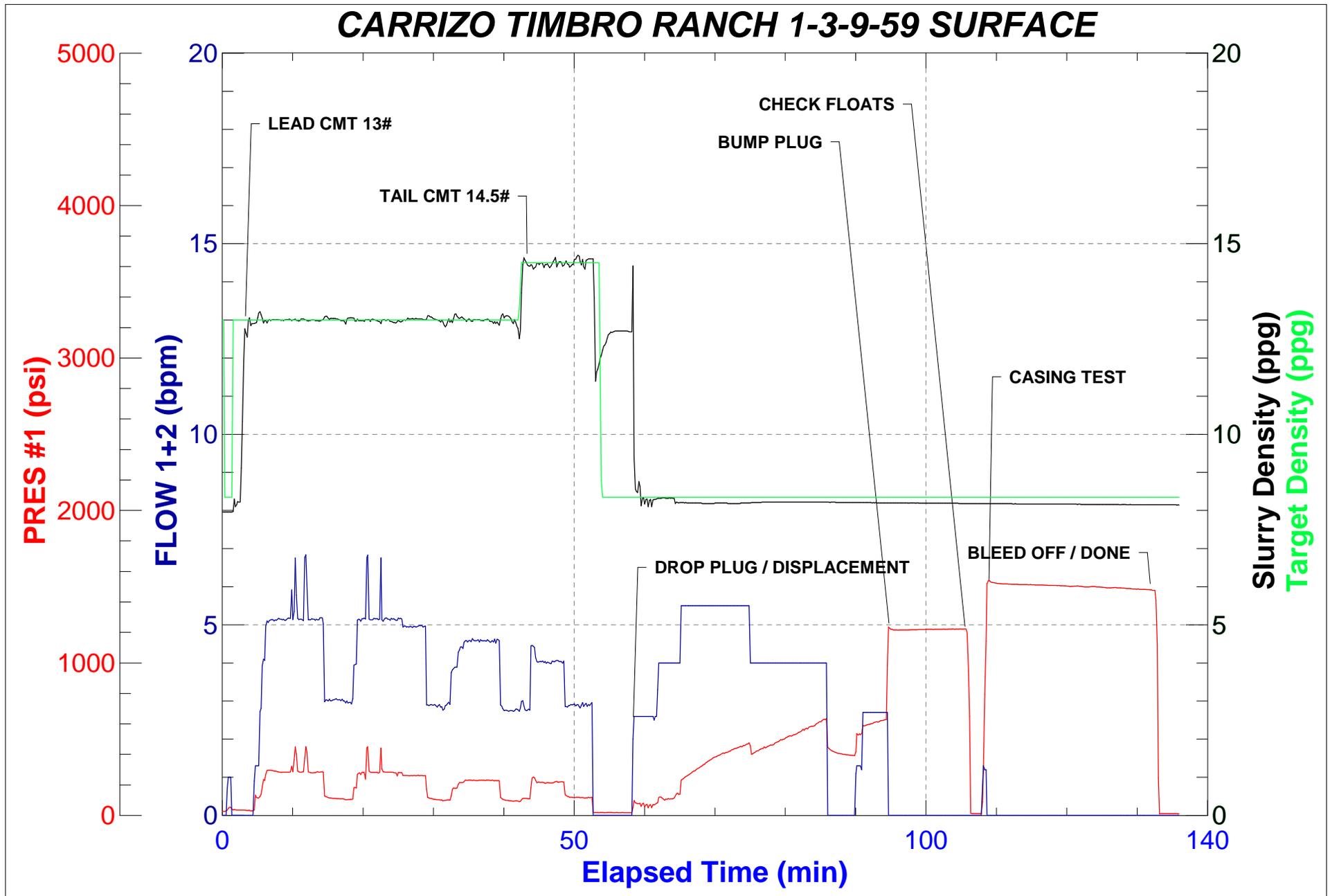
Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)  
NONE

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	4154 PSI
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/>	BJ <input type="checkbox"/>
07:00	0	0	0	0	N/A	YARD CALL	
09:30	0	0	0	0	N/A	SAFETY MEETING	
09:45	0	0	0	0	N/A	LEAVE YARD	
11:55	0	0	0	0	N/A	ARRIVE LOCATION	
15:30	0	0	0	0	N/A	STAGE TRUCKS	
16:15	0	0	0	0	N/A	SAFETY MEETING	
17:25	0	0	1	1	H2O	LOAD LINES	
17:28	4154	0	0	0	H2O	PRESSURE TEST	
17:35	190	0	4	15	H2O	SPACER DYE	
17:53	165	0	5	165	LEAD CMT	BATCH, WEIGH, PUMP 13#	
18:34	247	0	4.8	35	TAIL CMT	BATCH, WEIGH, PUMP 14.5#	
18:45	123	0	4.8	10	H2O	DROP PLUG / DISPLACEMENT	
18:55	232	0	5	30	H2O	RATE CHANGE	
19:07	408	0	4	80	H2O	RATE CHANGE	
19:22	596	0	2.4	122	H2O	RATE CHANGE	
19:26	1220	0	2.4	135	H2O	BUMP PLUG	
19:41	0	0	0	0	N/A	BLEED OFF / CHECK FLOATS	
19:42	1541	0	1	1	H2O	CASING TEST	
20:02	0	0	0	0	N/A	BLEED OFF / DONE	
<b>BUMPED PLUG</b> <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<b>PSI TO BUMP PLUG</b> 1220	<b>TEST FLOAT EQUIP.</b> <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<b>BBL.CMT RETURNS/ REVERSED</b> 84	<b>TOTAL BBL. PUMPED</b> 354	<b>PSI LEFT ON CSG</b> 0	<b>SPOT TOP OUT CEMENT</b> Y <input checked="" type="checkbox"/> N	<b>Service Supervisor Signature:</b>  



# CARRIZO TIMBRO RANCH 1-3-9-59 SURFACE





**CEMENTING LABORATORY REPORT**  
Lab Report #C11-093-14

<b>COMPANY :</b>	Carrizo Oil & Gas Inc.	<b>DATE:</b>	November 25, 2014
<b>WELL NAME:</b>	Timbro Ranch #1-3-9-59	<b>LOCATION:</b>	Weld County, Colorado
<b>DISTRICT:</b>	Brighton	<b>TYPE JOB:</b>	Surface
<b>API #</b>	05-123-40455-0000	<b>TOC(md):</b>	
<b>DEPTH MD(ft):</b>	1,450 ft	<b>BHST(°F):</b>	109 °F
<b>CASING SIZE("):</b>	9 5/8 in	<b>BHCT(°F):</b>	85 °F
<b>TUBING SIZE("):</b>		<b>BHSqT(°F):</b>	94 °F
<b>HOLE SIZE("):</b>	12 1/4 in	<b>TOL (°F):</b>	Static      Circ

**SLURRY DESIGN DATA**

<b>#1</b>	Lead Slurry : Premium Lite Cement + 6% Bentonite + 3% Calcium Chloride + 3% Sodium Chloride + 0.25 pps Cello Flake + 0.04% Static Free + 0.5 gps FP-6L
<b>#2</b>	Tail Slurry : Type III Cement + 1.5% Calcium Chloride + 0.25 pps Cello Flake + 0.04 pps Static Free + 0.5 gps FP-6L
<b>#3</b>	

<b>SLURRY PROPERTIES</b>		<b>#1</b>	<b>#2</b>	<b>#3</b>
Density : ppg		13.00	14.50	
Yield :cu.ft./sk.		1.81	1.41	
Mixing Water: gal/sk.		9.46	6.82	
Water Type:		Fresh	Fresh	
Testing Temperature :		85 °F	85 °F	
Thickening Time: hrs:mins.		3:39	1:53	
Free Water: mls.				
Fluid Loss:ml/30min				
Compressive Strength:				
	hrs.			
	hrs.			
<b>Rheologies</b>	<b>RPM</b>			
	300			
	200			
	100			
	6			
	3			
	600			
	PV			
	YP			
<b>Gel Strength : #/100sq.ft.</b>	<b>10 sec.</b>			
	<b>10 min.</b>			

**REMARKS :**

**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.



FIELD RECEIPT NO. 10011120540

<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 INVOICE TO :</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> 11	<b>DAY</b> 26	<b>YEAR</b> 2014	<b>BHI REPRESENTATIVE</b> ROBERT HORAN	<b>WELL API NO:</b> 05123404550000	<b>WELL TYPE :</b> New Well			
<b>DISTRICT</b> PP, BRIGHTON				<b>JOB DEPTH(ft)</b> 1,795	<b>WELL CLASS :</b> Oil				
<b>WELL NAME AND NUMBER</b> TIMBRO RANCH #1-3-9-59				<b>TD WELL DEPTH(ft)</b> 1,815	<b>GAS USED ON JOB :</b> No Gas				
<b>WELL LOCATION :</b> 3-9N-59W		<b>LEGAL DESCRIPTION</b> Weld		<b>COUNTY/PARISH</b> Colorado	<b>STATE</b>	<b>JOB TYPE CODE :</b> Surface			
<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>
100112	Calcium Chloride			lbs	1890	1.290	2,438.10	70%	731.43
100295	Cello Flake			lbs	170	5.100	867.00	70%	260.10
100404	Sodium Chloride			lbs	1355	0.520	704.60	70%	211.38
398224	Premium Lite Cement			sacks	530	27.650	14,654.50	70%	4,396.35
488019	FP-6L			gals	4	104.250	417.00	70%	125.10
488449	Bentonite II			lbs	2767	0.440	1,217.48	70%	365.24
499632	Granulated Sugar			lbs	100	3.840	384.00	70%	115.20
499680	Static Free			lbs	25	40.700	1,017.50	70%	305.25
499703	Type III Cement			sacks	146	31.700	4,628.20	70%	1,388.46
	SUB-TOTAL FOR Product Material						26,328.38	70.00%	7,898.51
A152	Personnel Per Diem Chrg - Cement Svc			ea	1	210.000	210.00	0%	210.00
M100	Bulk Materials Blending Charge			cu ft	795	5.450	4,332.75	70%	1,299.83
R798	Automatic Density System			job	1	1,990.000	1,990.00	70%	597.00
	SUB-TOTAL FOR Service Charges						6,532.75	67.75%	2,106.83
<b>ARRIVE LOCATION :</b>	<b>MO.</b> 11	<b>DAY</b> 26	<b>YEAR</b> 2014	<b>TIME</b> 11:55	<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>			<b>SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.</b>	
<b>CUSTOMER REP.</b> JEFF					<b>CUSTOMER AUTHORIZED AGENT</b> X			<b>BHI APPROVED</b>	
<b>SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS</b>								<b>CUSTOMER AUTHORIZED AGENT</b> X	



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CUSTOMER CARRIZO OIL & GAS INC XML					CREDIT APPROVAL NO.	PURCHASE ORDER NO.	CUSTOMER NUMBER 0040003338 - 0040139823-1	INVOICE NUMBER			
MAIL INVOICE TO :			STREET OR BOX NUMBER 500 DALLAS STREET, SUITE 2499		CITY Houston		STATE Texas	ZIP CODE 77063			
DATE WORK COMPLETED	MO. 11	DAY 26	YEAR 2014	BHI REPRESENTATIVE ROBERT HORAN	WELL API NO: 05123404550000	WELL TYPE : New Well					
DISTRICT PP, BRIGHTON				JOB DEPTH(ft) 1,795		WELL CLASS : Oil					
WELL NAME AND NUMBER TIMBRO RANCH #1-3-9-59				TD WELL DEPTH(ft) 1,815		GAS USED ON JOB : No Gas					
WELL LOCATION :		LEGAL DESCRIPTION 3-9N-59W		COUNTY/PARISH Weld	STATE Colorado	JOB TYPE CODE : Surface					
PRODUCT CODE	DESCRIPTION				UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT	
F055A	Cement Pumping, 1001 - 2000 ft				4hrs	1	4,875.000	4,875.00	70%	1,462.50	
F090	Fuel per pump charge - cement				pump/hr	10	70.250	702.50	0%	702.50	
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	212	11.850	2,512.20	70%	753.66	
J391	Mileage, Auto, Pick-Up or Treating Van				miles	212	6.700	1,420.40	70%	426.12	
K289	Misc Cement Pumping, Non-Pump Time				hrs	1	575.000	575.00	70%	172.50	
SUB-TOTAL FOR Equipment								13,045.10	66.23%	4,405.28	
J401	Bulk Delivery, Dry Products				ton-mi	3500	3.940	13,790.00	70%	4,137.00	
J402	Bulk Delivery, Standby Charge				hrs	2	226.500	453.00	70%	135.90	
SUB-TOTAL FOR Freight/Delivery Charges								14,243.00	70%	4,272.90	
FIELD ESTIMATE								60,149.23	68.94%	18,683.52	
ARRIVE LOCATION :	MO. 11	DAY 26	YEAR 2014	TIME 11:55	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.				SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.		
CUSTOMER REP. JEFF					CUSTOMER AUTHORIZED AGENT				X		
SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS									CUSTOMER AUTHORIZED AGENT		