

# CEMENT JOB REPORT



<b>CUSTOMER</b> CARRIZO OIL & GAS INC XML			<b>DATE</b> 16-DEC-14		<b>F.R. #</b> 10011126100			<b>SERV. SUPV.</b> Zachary Fagg						
<b>LEASE &amp; WELL NAME</b> TIMBRO RANCH 2-3-9-59 - API 05123404540000			<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		0	0	NONE		0	0		
		Centralizer, with Fins, 9-5/8 in												
		Float Collar, Al Flap, 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						0	8.34	0	0	00:00	15			
Type III Cmt + adds				C12-064-14		146	14.5	1.41	6.82	01:43	37	23.97		
Premium Lite Cmt + adds				C12-064-14		524	13	1.81	9.46	02:39	169.30	118.02		
Fresh Water						0	8.34	0	0	00:00	137.2			
<b>Available Mix Water</b> 500 <b>Bbl.</b>				<b>Available Displ. Fluid</b> 500 <b>Bbl.</b>				<b>TOTAL</b>		358.50		141.99		
<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	1800	8.921	9.625	36	CSG	1817	1817	P-110	1817	1773.51	1		
<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	0	9.625	8 RND	FRESH WATER	8.5
<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>			
137.2	BBLS	Fresh Water		8.34	1324	0	0	0	0	2816	1518	RIG		
<b>Circulation Prior to Job</b>														
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>				Circulation Time: 4				Circulation Rate: 4 BPM						
Mud Density In: 8.5 LBS/GAL				Mud Density Out: 8.5 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: 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: 1518 PSI				With 8.5 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

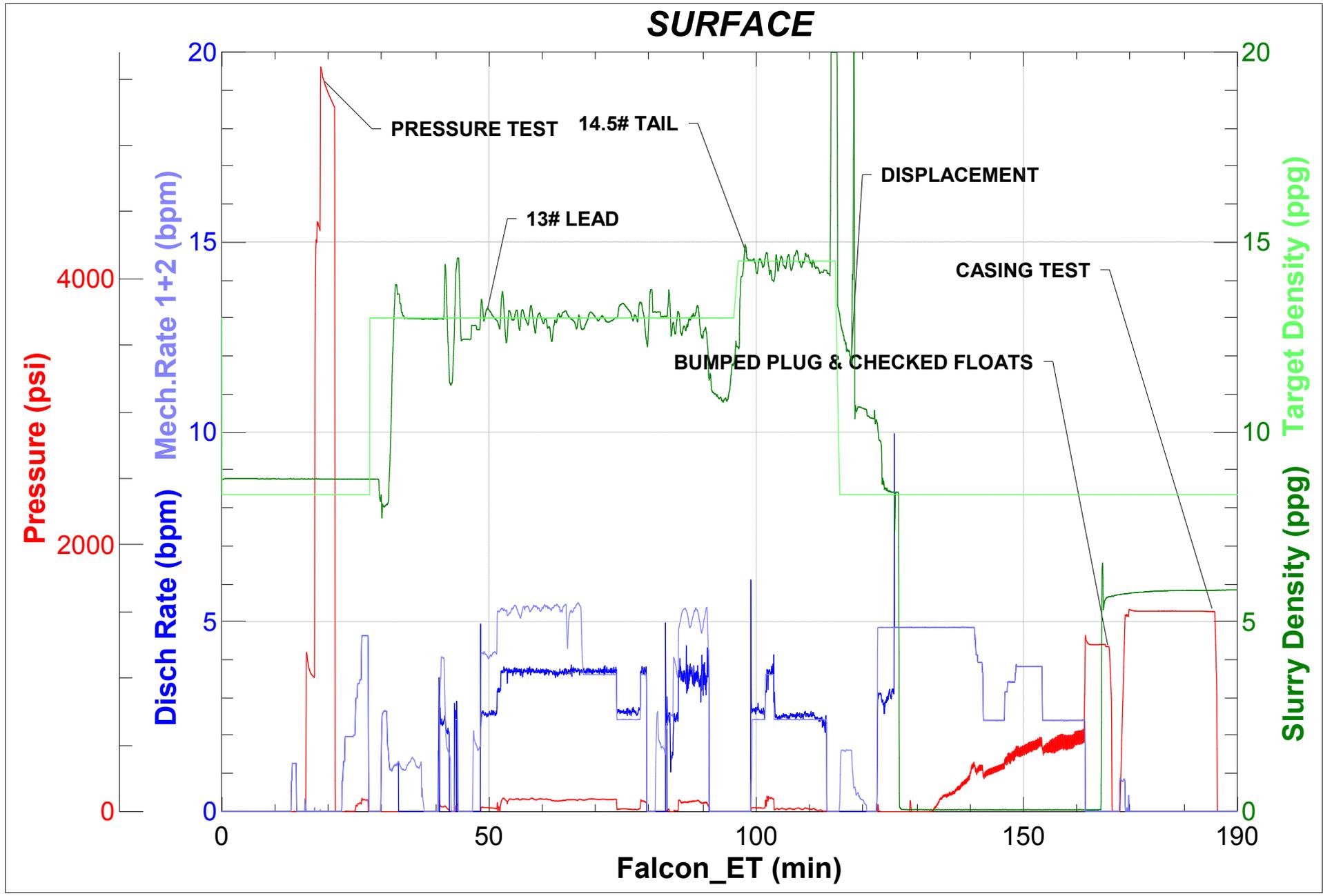
Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)  
NONE

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	5519 PSI
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/>	BJ <input type="checkbox"/>
14:10	0	0	0	0	N/A	LEFT DISTRICT	
16:40	0	0	0	0	N/A	ARRIVE ON LOCATION	
04:13	0	0	0	0	N/A	SPOT TRUCKS	
04:35	0	0	0	0	N/A	PRE RIG UP SAFETY MEETING AND RIG UP	
05:55	0	0	0	0	N/A	SAFETY MEETING	
07:00	0	0	1.2	1	H2O	LOAD LINES	
07:03	1129	0	0	0	H2O	LOW PRESSURE TEST	
07:05	5519	0	0	0	H2O	HIGH PRESSURE TEST	
07:11	160	0	5.6	15	H2O	PRE FLUSH WITH DYE	
07:20	150	0	3.6	169	CMT	BATCH, WEIGH AND PUMP 13# LEAD SLURRY	
08:23	55	0	2.6	38	CMT	14.5# TAIL SLURRY	
08:47	0	0	0	0	N/A	RELEASE PLUG	
08:50	311	0	4.8	120	H2O	DISPLACEMENT	
09:22	562	0	2.4	17	H2O	SLOW RATE	
09:30	1324	0	0	0	H2O	BUMPED PLUG	
09:34	0	0	0	0	H2O	CHECKED FLOATS	
09:38	1518	0	0	0	H2O	CASING TEST (1500/15MIN)	
09:53	0	0	0	0	N/A	SHUT DOWN	
09:58	0	0	0	0	N/A	RIG DOWN SAFETY MEETING & RIG DOWN	

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	1324	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	63	359	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

# SURFACE





**CEMENTING LABORATORY REPORT**  
Lab Report #C12-064-14

<b>COMPANY :</b>	Carrizo Oil & Gas INC.	<b>DATE:</b>	December 17, 2014
<b>WELL NAME:</b>	Timbro Ranch 2-3-9-59	<b>LOCATION:</b>	Brighton
<b>DISTRICT:</b>	Brighton	<b>TYPE JOB:</b>	9-5/8" Surface Casing (Field)
<b>API #</b>	05-123-40454-0000	<b>TOC(md):</b>	
<b>DEPTH MD(ft):</b>	1,800 ft	<b>BHST(°F):</b>	116 °F
<b>CASING SIZE("):</b>	9 5/8 in	<b>BHCT(°F):</b>	89 °F
<b>TUBING SIZE("):</b>		<b>BHSqT(°F):</b>	98 °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 II + 3% Calcium Chloride + 3% Sodium Chloride + 0.25 pps Cello Flake + 0.5 gals/100 sack FP-6L + 0.04% Static Free
<b>#2</b>	Tail Slurry: Type III Cement + 0.25 pps Cello Flake + 1.5% Calcium Chloride + 0.5 gals/100 sack FP-6L + 0.04 pps Static Free
<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 :		89 °F	89 °F	
Thickening Time: hrs:mins.		2:39	1:43	
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>	10 sec.			
	10 min.			

**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. 10011126100

<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>		<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> 12	<b>DAY</b> 18	<b>YEAR</b> 2014	<b>BHI REPRESENTATIVE</b> Zachary Fagg		<b>WELL API NO:</b> 05123404540000	<b>WELL TYPE :</b> New Well					
<b>DISTRICT</b> PP, BRIGHTON					<b>JOB DEPTH (ft)</b> 1,817		<b>WELL CLASS :</b> Oil					
<b>WELL NAME AND NUMBER</b> TIMBRO RANCH 2-3-9-59					<b>TD WELL DEPTH (ft)</b> 1,840		<b>GAS USED ON JOB :</b> No Gas					
<b>WELL LOCATION :</b>		<b>LEGAL DESCRIPTION</b> 3-9N-59W			<b>COUNTY/PARISH</b> Weld	<b>STATE</b> Colorado	<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	1874	1.290	2,417.46	70%	725.24		
100295	Cello Flake				lbs	169	5.100	861.90	70%	258.57		
100404	Sodium Chloride				lbs	1341	0.520	697.32	70%	209.20		
398224	Premium Lite Cement				sacks	524	27.650	14,488.60	70%	4,346.58		
488019	FP-6L				gals	4	104.250	417.00	70%	125.10		
488449	Bentonite II				lbs	2736	0.440	1,203.84	70%	361.15		
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							26,115.82	70.00%	7,834.75		
A152	Personnel Per Diem Chrg - Cement Svc				ea	1	210.000	210.00	0%	210.00		
M100	Bulk Materials Blending Charge				cu ft	890	5.450	4,850.50	70%	1,455.15		
R798	Automatic Density System				job	1	1,990.000	1,990.00	70%	597.00		
	SUB-TOTAL FOR Service Charges							7,050.50	67.92%	2,262.15		
<b>ARRIVE LOCATION :</b>	<b>MO.</b> 12	<b>DAY</b> 17	<b>YEAR</b> 2014	<b>TIME</b> 16:04	<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> BOB MCNEECE											<b>CUSTOMER AUTHORIZED AGENT</b>	
<b>SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS</b>											<b>CUSTOMER AUTHORIZED AGENT</b>	
					<b>X</b>							



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<b>DATE WORK COMPLETED</b>	<b>MO.</b> 12	<b>DAY</b> 18	<b>YEAR</b> 2014	<b>BHI REPRESENTATIVE</b> Zachary Fagg		<b>WELL API NO:</b> 05123404540000	<b>WELL TYPE :</b> New Well			
<b>DISTRICT</b> PP, BRIGHTON					<b>JOB DEPTH (ft)</b> 1,817		<b>WELL CLASS :</b> Oil			
<b>WELL NAME AND NUMBER</b> TIMBRO RANCH 2-3-9-59					<b>TD WELL DEPTH (ft)</b> 1,840		<b>GAS USED ON JOB :</b> No Gas			
<b>WELL LOCATION :</b>		<b>LEGAL DESCRIPTION</b> 3-9N-59W			<b>COUNTY/PARISH</b> Weld	<b>STATE</b> Colorado	<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>
F055A	Cement Pumping, 1001 - 2000 ft				4hrs	1	4,875.000	4,875.00	70%	1,462.50
F088	Cement Pumping, Additional hrs				hrs	15	900.000	13,500.00	0%	13,500.00
F090	Fuel per pump charge - cement				pump/hr	6	70.250	421.50	0%	421.50
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	222	11.850	2,630.70	70%	789.21
J391	Mileage, Auto, Pick-Up or Treating Van				miles	222	6.700	1,487.40	70%	446.22
	SUB-TOTAL FOR Equipment							25,874.60	32.34%	17,507.43
J401	Bulk Delivery, Dry Products				ton-mi	4160	3.940	16,390.40	70%	4,917.12
J402	Bulk Delivery, Standby Charge				hrs	2	226.500	453.00	70%	135.90
J404	Bulk Delivery, Return of Unused Mtls				ton-mi	522	3.940	2,056.68	70%	617.00
	SUB-TOTAL FOR Freight/Delivery Charges							18,900.08	70.00%	5,670.02
	FIELD ESTIMATE							77,941.00	57.31%	33,274.35
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<b>SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS</b>									<b>BHI APPROVED</b>	