

# 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 MD 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>	
Fresh Water + 2 lbs Red Dye		N/A		0	8.34	0	
Type III Cmt + adds		C11-093-14		146	14.5	1.41	
Premium Lite Cmt + adds		C11-093-14		403	13	1.81	
Fresh Water		N/A		0	8.34	0	
<b>Available Mix Water</b> 500 <b>Bbl.</b>		<b>Available Displ. Fluid</b> 500 <b>Bbl.</b>		<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>
12.25	100	1815	8.921	9.625	36	CSG	1795
<b>LAST CASING</b>		<b>PKR-CMT RET-BR PL-LINER</b>		<b>PERF. DEPTH</b>		<b>TOP CONN</b>	
<b>ID</b>	<b>OD</b>	<b>WGT</b>	<b>TYPE</b>	<b>MD</b>	<b>TVD</b>	<b>WELL FLUID</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>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>
135	BBLS	Fresh Water	8.34	0	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			
Mud Density In: 8.34 LBS/GAL				Mud Density Out: 8.34 LBS/GAL			
Gas Present: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>				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			
Plug Catcher Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				Wiper Balls Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES			
Was There a Bottom: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				Parabow Used: <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				Time Held: 00 Hours 15 Minutes			
<b>EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING</b> NONE							

# 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

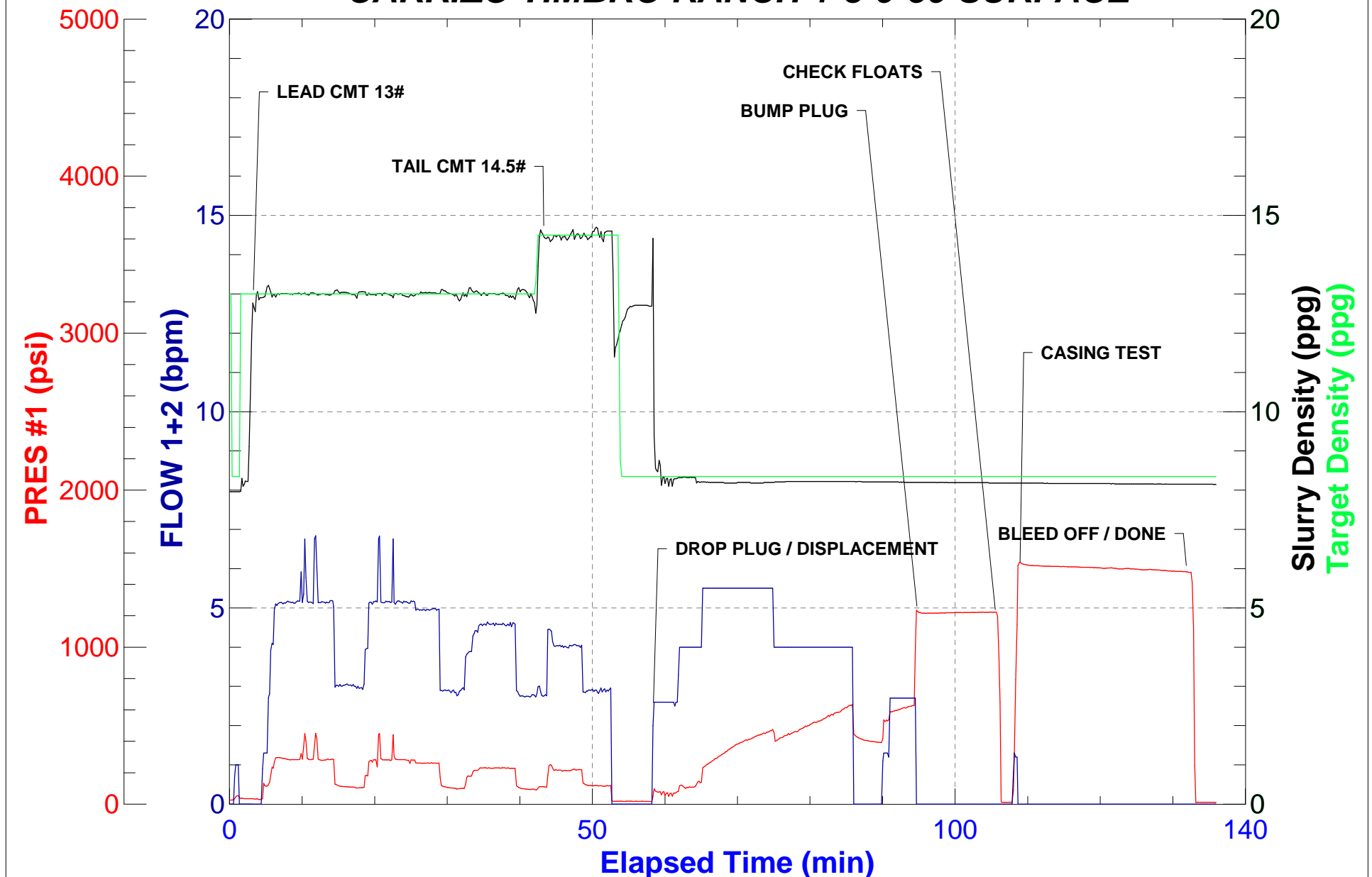
Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)  
 NONE

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

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	1220	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	84	354	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

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





# CEMENTING LABORATORY REPORT

## Lab Report #C11-093-14

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

### SLURRY DESIGN DATA

#1	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
#2	Tail Slurry : Type III Cement + 1.5% Calcium Chloride + 0.25 pps Cello Flake + 0.04 pps Static Free + 0.5 gps FP-6L
#3	

SLURRY PROPERTIES			#1	#2	#3
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.			
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.



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> 11 26 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>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	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> 11 26 2014 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>   <b>CUSTOMER AUTHORIZED AGENT</b>					<b>X</b>					
<b>SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS</b>							<b>X</b>					



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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 : 3-9N-59W		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 : 11 26 2014 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								X				
		CUSTOMER AUTHORIZED AGENT						BHI APPROVED				