

# CEMENT JOB REPORT



<b>CUSTOMER</b> CARRIZO OIL & GAS INC XML			<b>DATE</b> 03-OCT-14		<b>F.R. #</b> 10011104385			<b>SERV. SUPV.</b> FELIPE LANDA					
<b>LEASE &amp; WELL NAME</b> O'HARE 2-29-11-57 - API 05123400820000			<b>LOCATION</b> 29-11N-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> Intermediate							
<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 7 in		Centralizer, with Pins, 7 in											
		Float Collar, Al Flap, 7 - 8rd											
		Float Shoe 7 - 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>	
SealBond + SB Plus							8.4				40		
Premium Lite Cmt + adds						347	12.5	1.94	10.64	03:30	119.8	87.71	
50:50 (Poz:Class G) + adds						194	13.5	1.45	7.06	02:45	50.02	32.59	
Drilling Mud							9.9				231.7		
<b>Available Mix Water</b> 400 Bbl.			<b>Available Displ. Fluid</b> 400 Bbl.			<b>TOTAL</b>			441.52		120.30		
<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	35	6001	6.366	7	23	CSG	5981			5981	5888	0	
<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		1400	1400	NO PACKER	0	0	0	7	8RD	WATER BASED	9.8
<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>		
231.7	BBLS	Drilling Mud		9.9	1242	0	0	0	0	6340	5072	TANK	
<b>Circulation Prior to Job</b>													
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>				Circulation Time: 1				Circulation Rate: 4 BPM					
Mud Density In: 9.8 LBS/GAL				Mud Density Out: 9.8 LBS/GAL				PV & YP Mud In: 9		PV & YP Mud Out: 9			
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 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 type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE													
Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES				Quantity: 50				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:				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: 1560 PSI						With 9.8 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	

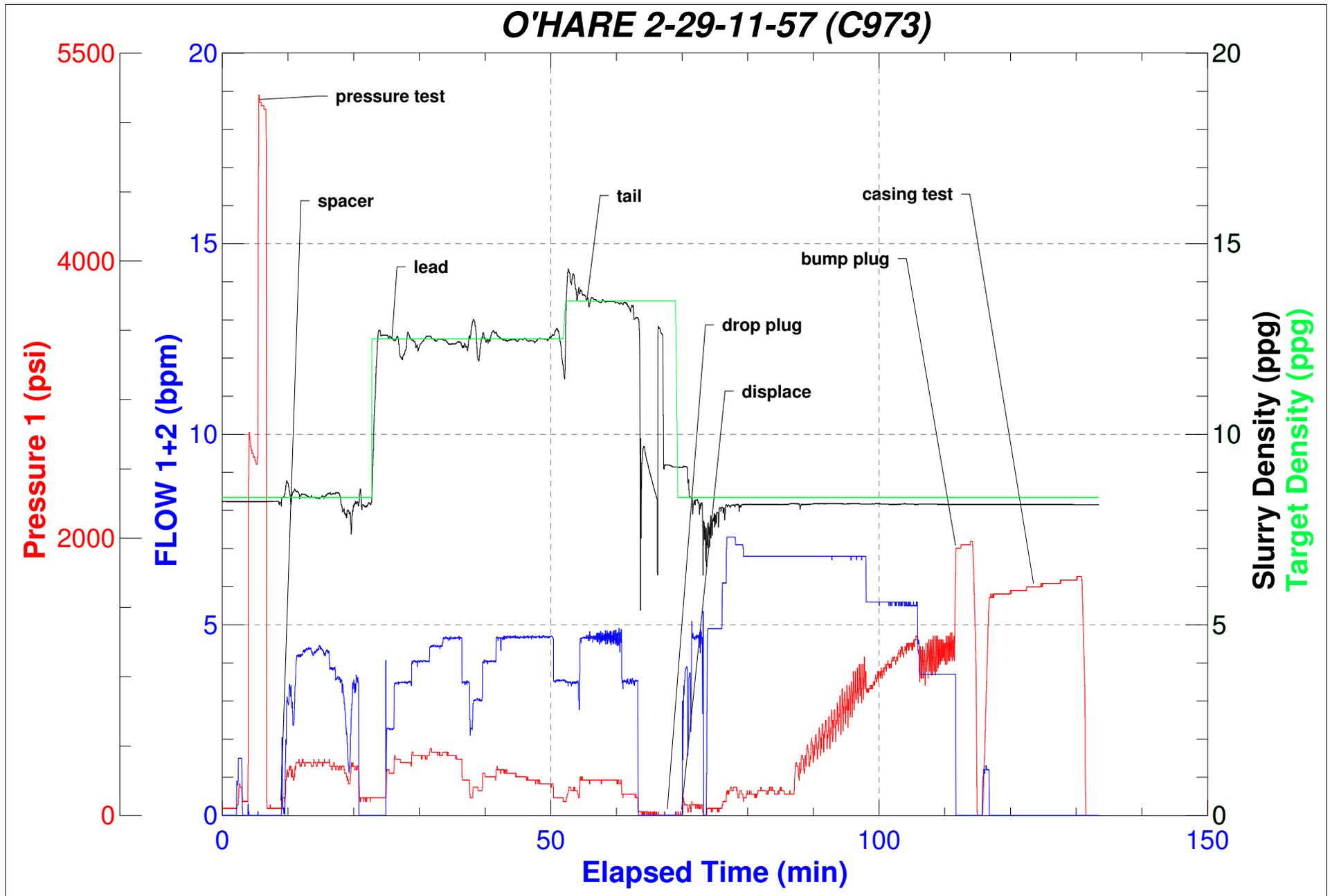
Problems Before Job (I.E. Running Casing, Circulating Well, ETC)  
NONE

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	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	





**CEMENTING LABORATORY REPORT**  
Lab Report #C10-005-14

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

**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 INVOICE TO</b> 500 DALLAS STREET, SUITE 2499		<b>STREET OR BOX NUMBER</b>		<b>CITY</b> Houston		<b>STATE</b> Texas	<b>ZIP CODE</b> 77063		
<b>DATE WORK COMPLETED</b> 10/03/2014	<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> 29-11N-57W		<b>LEGAL DESCRIPTION</b>		<b>COUNTY/PARISH</b> Weld	<b>STATE</b> Colorado	<b>JOB TYPE CODE :</b> Intermediate			
PRODUCT CODE	DESCRIPTION			UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT
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			bbbls	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>			<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> ANDREW TAYLOR					<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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<b>DATE WORK COMPLETED</b> 10/03/2014	<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> 29-11N-57W		<b>LEGAL DESCRIPTION</b>		<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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PRODUCT CODE	DESCRIPTION				UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT
	FIELD ESTIMATE							70,724.47	62.30%	26,660.55
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