



**CEMENTER'S WELL SERVICE, INC.**  
P.O. BOX 336220 • GREELEY, CO 80633 • (970) 353-7299 • FAX (970) 353-7712

OUR INVOICE

201106

Date <u>12/15/12</u>	Well Owner <u>Great Western</u>	Well No. <u>30-18</u>	Lease <u>Five River BB</u>
County <u>Weld</u>	State <u>Colorado</u>	Field	
Charge to <u>Cade Drilling LLC</u>	Charge Code		
Address <u>3450 WCR #2</u>	<u>Code #25</u>	For Office Use Only	
City, State <u>Ft Lupton, Colorado 80621</u>			
Pump Truck No. <u>1201</u>	Code	Bulk Truck No. <u>1216/1224</u>	Code
Type of Job	Depth	Ft. <u>613</u>	To
Surface <u>8 5/8" CSG 21#</u>	Bottom of Surface	Ft. <u>603</u>	To
Plug	Plug Landed @ <u>561</u>	Ft.	Time On <u>1130</u>
Production	Pipe Landed @ <u>603</u>	Ft.	Time Off <u>Plug down 1545</u>

Reference No.	Description	Qty.	Meas.	Unit Price
	Pump Truck Charge			
	Cement Neat <u>✓ 100% EXCESS</u>	<u>410</u>	<u>SKS</u>	
	Poz. Mix			
	Calcium Chloride	<u>3%</u>		
	Gel % Flo-Cele <u>1/4#Per Sack</u>			
	Handling Charge			
	Hauling Charge			
	Additional Cement	<u>40</u>	<u>SKS</u>	
<u>8 5/8"</u>	<u>Guide Shoe</u>	<u>1</u>		
<u>"</u>	<u>Cement Basket</u>	<u>1</u>		
<u>"</u>	<u>Centralizers</u>	<u>3</u>		<u>70.00</u>
	<u>Box Thread Lock</u>	<u>1</u>		
<u>Mix Rate 4 BPM / Disp Rate 5 BPM</u>				
<u>Slurry Vol 1.18 cu ft/sk / Slurry wt. 14.8-15.2 ppg</u>				
<u>Total Slurry Vol. 94.5 BBL cement</u>				
<u>Plug landed @ 200 PSI</u>				

Remarks: <u>Pre-Flush w/15 BBL H<sub>2</sub>O</u>	Tax Reference Code	Sub Total
<u>Displace w/ 35.6 BBL H<sub>2</sub>O</u>	State <u>CO 2.9%</u>	Tax
<u>Circulate 5 BBL cement</u>	Disc.	Total

Truck No.	Code	State Mileage	Nebraska	Colorado	Wyoming	Other	Total Mileage
<u>1201</u>		Pump Truck		<u>28</u>			
<u>1216/1224</u>		Bulk Truck		<u>28/28</u>			

We do not assume any responsibility for any damage or conditions resulting from our services. All pricing is subject to review and revision.

Delivered By Jim, Adam, Joshua, Tucker

Received By

Customer or His Agent



## Every Project Is Personal

Pioneer Wireline Services, LLC

Service Order No.

2- 013233

**Phone: 303.659.6581**

**Fax: 303.659.1789**

Date: 2/27/20

Client Info	Company					AFE #			
	Billing Address					City		ST	Zip
Well Info	Lease & Well #				Field Name				
	Legal Description								
	Nearest Town		County / Parish	ST	Rig	Permit #	Price Zone	API #	
Crew	Engineer		Crew Members				Unit #		Miles

THE UNDERSIGNED HEREBY CERTIFIES THAT HE HAS FULL AUTHORITY TO ENTER INTO THIS CONTRACT ON BEHALF OF THE CLIENT AND AGREES TO THE TERMS AND CONDITIONS SET FORTH ON THE REVERSE SIDE HEREOF.

### Client Approval

Name Printed

Signature

[illegible]

	Total Time	Oper. Time	Free Stand By	Charge Time
Equipment				
Crew				

### Client Approval

Name Printed

Signature

### Pioneer Representative

Name Printed

Signature

SUBTOTAL

**DISCOUNT**

**NET SUBTOTAL**

TAX

**NET TOTAL**

**PIONEER OFFICE USE ONLY – Approval**

Name Printed

Signature



FIELD RECEIPT NO. 1001954639

CUSTOMER GREAT WESTERN OIL & GAS				CREDIT APPROVAL NO.		PURCHASE ORDER NO.		CUSTOMER NUMBER 20013943 - 00229266		INVOICE NUMBER	
MAIL STREET OR BOX NUMBER 2005 HOWARD SMITH AVE EAST				CITY Windsor		STATE Colorado		ZIP CODE 80550			
DATE WORK MO. 12 DAY 18 YEAR 2012		BHI REPRESENTATIVE CALEB C KINGSLEY		WELL API NO: 05123320440000		WELL TYPE: New Well					
DISTRICT BJS, BRIGHTON				JOB DEPTH(ft) 6,746		WELL CLASS: Gas					
WELL NAME AND NUMBER FIVE RIVERS BB #30-18				TD WELL DEPTH(ft) 6,754		GAS USED ON JOB: No Gas					
WELL LOCATION: 30-5N-63W		LEGAL DESCRIPTION Weld		COUNTY/PARISH		STATE Colorado		JOB TYPE CODE: Long String			
PRODUCT CODE	DESCRIPTION			UNIT OF MEASURE	QUANTITY	PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT		
100021	Class G Cement			sacks	145	29.700	4,306.50	55%	1,937.93		
100112	Calcium Chloride			lbs	250	1.220	305.00	100%	0.00		
100120	Bentonite			lbs	957	0.500	478.50	55%	215.33		
100121	Silica Flour			lbs	4872	0.530	2,582.16	55%	1,161.97		
100275	Sodium Metasilicate			lbs	169	3.900	659.10	55%	296.60		
100317	Poz (Fly Ash)			sacks	145	13.200	1,914.00	55%	861.30		
100404	Sodium Chloride			lbs	150	0.490	73.50	100%	0.00		
398108	Mud Clean II			gals	840	1.610	1,352.40	55%	608.58		
398224	Premium Lite Cement			sacks	275	24.050	6,613.75	55%	2,976.19		
488013	CD-32			lbs	74	12.650	936.10	55%	421.25		
488015	FL-52			lbs	98	25.600	2,508.80	55%	1,128.96		
488019	FP-6L			gals	5	99.250	496.25	55%	223.31		
488353	CSE-2			lbs	2200	1.610	3,542.00	55%	1,593.90		
499702	ClayCare, Clay Treat-2C, 260 gl tote			gals	8	140.000	1,120.00	55%	504.00		
SUB-TOTAL FOR Product Material							26,888.06	55.63%	11,929.32		
ARRIVE LOCATION : MO. 12 DAY 18 YEAR 2012 TIME 16:17				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. SHAWN ARMSTRONG				SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS				CUSTOMER AUTHORIZED AGENT X			
				CUSTOMER AUTHORIZED AGENT				BHI APPROVED X			



FIELD RECEIPT NO. 1001954639

CUSTOMER GREAT WESTERN OIL & GAS				CREDIT APPROVAL NO.		PURCHASE ORDER NO.		CUSTOMER NUMBER 20013943 - 00229266		INVOICE NUMBER	
MAIL INVOICE TO 2005 HOWARD SMITH AVE EAST				CITY Windsor		STATE Colorado		ZIP CODE 80550			
DATE WORK COMPLETED		MO. 12	DAY 18	YEAR 2012	WELL API NO: 05123320440000		WELL TYPE: New Well				
DISTRICT BJS, BRIGHTON					JOB DEPTH(ft) 6,746		WELL CLASS: Gas				
WELL NAME AND NUMBER FIVE RIVERS BB #30-18					TD WELL DEPTH(ft) 6,754		GAS USED ON JOB: No Gas				
WELL LOCATION:		LEGAL DESCRIPTION 30-5N-63W		COUNTY/PARISH Weld		STATE Colorado		JOB TYPE CODE: Long String			
PRODUCT CODE	DESCRIPTION				UNIT OF MEASURE	QUANTITY	PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT	
A152	Personnel Per Diem Chrg - Cement Svc				ea	1	161.500	161.50	0%	161.50	
M100	Bulk Materials Blending Charge				cu ft	727	4.170	3,031.59	55%	1,364.22	
	SUB-TOTAL FOR Service Charges							3,193.09	52.22%	1,525.72	
F065A	Cement Pumping, 6001 - 7000 ft				6hrs	1	6,900.000	6,900.00	55%	3,105.00	
F090	Fuel per pump charge - cement				pump/hr	4	61.000	244.00	0%	244.00	
J050	Cement Head				job	1	635.000	635.00	55%	285.75	
J225	Data Acquisition, Cement, Standard				job	1	1,635.000	1,635.00	55%	735.75	
J390	Mileage, Heavy Vehicle				miles	88	9.100	800.80	55%	360.36	
J391	Mileage, Auto, Pick-Up or Treating Van				miles	88	5.150	453.20	55%	203.94	
	SUB-TOTAL FOR Equipment							10,668.00	53.74%	4,934.80	
J401	Bulk Delivery, Dry Products				ton-mi	1250	3.030	3,787.50	55%	1,704.38	
	SUB-TOTAL FOR Freight/Delivery Charges							3,787.50	55.00%	1,704.38	
	FIELD ESTIMATE							44,536.65	54.88%	20,094.22	
ARRIVE LOCATION:		MO. 12	DAY 18	YEAR 2012	TIME 16:17		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.				
CUSTOMER REP. SHAWN ARMSTRONG							CUSTOMER AUTHORIZED AGENT X				
SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS							BHI APPROVED X				

# CEMENT JOB REPORT



<b>CUSTOMER</b> GREAT WESTERN OIL & GAS				<b>DATE</b> 18-DEC-12		<b>F.R. #</b> 1001954639		<b>SERV. SUPV.</b> CALEB C KINGSLEY			
<b>LEASE &amp; WELL NAME</b> FIVE RIVERS BB #30-18 - API 05123320440000				<b>LOCATION</b> 30-5N-63W				<b>COUNTY-PARISH-BLOCK</b> Weld Colorado			
<b>DISTRICT</b> Brighton				<b>DRILLING CONTRACTOR RIG #</b> CADE 25				<b>TYPE OF JOB</b> Long String			

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
Cement Plug, Rubber, Top 4-1/2 in	Cement Basket, Slip On, 4-1/2 in	NONE	0	0	NONE	0	0
	Centralizer, with Pins, 4-1/2 in	NONE	0	0	NONE	0	0
	Float Collar, Auto Fill, 4-1/2 - 8rd	NONE	0	0	NONE	0	0
	Guide Shoe, Texas-Notched 4-1/2 i						

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES						
		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT <sup>3</sup>	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
Treated Water	0	0	8.34	0	0	00:00	20	
50:50G:Poz+.4CD32+.3CD32+.1SMS+20SF	0	290	14.6	1.38	5.90	00:00	71.2 40.69	
Treated Water	0	0	8.34	0	0	00:00	104.5	
Mud Clean II	0	0	8.5	0	0	00:00	20	
Treated Water	0	0	8.34	0	0	00:00	20	
PLC+4%Gel+.6%SMS+8#/skCSE2	0	275	11	3.22	19.86	00:00	157.7 130.18	
Available Mix Water	200 Bbl.	Available Displ. Fluid	200 Bbl.	TOTAL		393.4	170.88	

HOLE			TBG-CSG-D.P.							COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
7.875	0	6754	4	4.5	11.6	CSG	6746	6746	N-80	6746	6728	0

LAST CASING				PKR-CMT RET-BR PL-LINER				PERF. DEPTH			TOP CONN		WELL FLUID	
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.	
8.1	8.63	24	CSG	603	603	NO PACKER OR CEMENT R	0	0	0	4.5	8RND	WATER BASED	9.4	

DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	
104.5	BBLS	Treated Water	8.34	1082.9	0	0	0	0	7780	6224	RIG TANK

### Circulation Prior to Job

Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	Circulation Time: 1	Circulation Rate: 6 BPM
Mud Density In: 9.4 LBS/GAL Mud Density Out: 9.4 LBS/GAL	PV & YP Mud In: 14	PV & YP Mud Out: 14
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"/>	

### Displacement And Mud Removal

Displaced By: Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/>	Amount Bled Back After Job: 1 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 checked="" type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE	
Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES	Quantity: 30 Type: <input checked="" 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	

### Plugs

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

### Squeezes (Update Original Treatment Report for Primary Job)

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	

**EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: NONE**

# CEMENT JOB REPORT



## Casing Test (Update Original Treatment Report for Primary Job)

Casing Test Pressure: 0 PSI With 0 LBS/GAL Mud Time Held: 00 Hours 00 Minutes

## 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	4091 PSI	
						CIRCULATING WELL - RIG	<input checked="" type="checkbox"/>	BJ <input type="checkbox"/>
15:17	0	0	0	0	NA	LEAVE THE YARD		
16:20	0	0	0	0	NA	ARRIVE TO LOCATION		
16:25	0	0	0	0	NA	SPOT TRUCKS		
16:50	0	0	0	0	NA	SAFETY MEETING		
17:20	4091	0	0	0	H2O	PRESSURE TEST		
17:25	527	0	7.2	20	H2O	CLAY CARE WATER SPACER		
17:28	555	0	7.2	20	H2O	MUD CLEAN II SPACER		
17:31	374	0	7.2	20	H2O	CLAY CARE WATER SPACER		
17:35	400	0	6.1	150	CMT	LEAD CMT PUMPED AT 11 PPG		
17:59	120	0	3.3	66	CMT	TAIL CMT PUMPED AT 14.6 PPG		
18:20	0	0	0	0	NA	SHUT DOWN TO WASH UP		
18:23	0	0	0	0	NA	DROP PLUG		
18:30	120	0	6	70	H2O	DISPLACEMENT		
18:41	578	0	4.8	20	H2O	DROP RATE		
18:46	1036	0	3.6	14	H2O	DROP RATE		
18:49	1240	0	3.6	104	H2O	FINAL LIFT		
18:49	2538	0	3.6	0	H2O	BUMP PLUG		
18:51	2589	0	0	0	H2O	BLEED OFF/FLOATS HELD		
18:40	171	0	6	58	H2O	CAUGHT CMT		
19:30	0	0	0	0	NA	LEAVE LOCATION		

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	1082.9	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	0	380	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>C. Vining</i>





Baker Hughes JobMaster Program Version 3.60  
Job Number: 1001954639  
Customer: GREAT WESTERN  
Well Name: FIVE RIVERS BB 30-18

