



CEMENTER'S WELL SERVICE, INC.

P.O. BOX 336220 • GREELEY, CO 80633 • (970) 353-7299 • FAX (970) 353-7712

OUR INVOICE

200645

Date <u>8/27/12</u>	Well Owner <u>Great Western</u>	Well No. <u>25-22-18</u>	Lease <u>Great Western</u>
County <u>Neld</u>	State <u>Colorado</u>	Field	
Charge to <u>CADE Drilling, LLC</u>	Charge Code		
Address <u>3450 WCR 27 #2 (CADE #25)</u>	For Office Use Only		
City, State <u>FT. Lupton, Colorado 80621</u>			
Pump Truck No. <u>1208</u>	Code	Bulk Truck No. <u>1217</u>	Code
Type of Job	Depth	Ft. <u>743</u>	To
<u>Surface</u> <u>8 5/8" CSG-24"</u>	Bottom of Surface	Ft. <u>732</u>	To
Plug	Plug Landed @ <u>690</u>	Ft.	Time On <u>1830</u>
Production	Pipe Landed @ <u>732</u>	Ft.	Time Off <u>Plug Down @ 2000</u>

Reference No.	Description	Qty.	Meas.	Unit Price	Amount
	Pump Truck Charge				
	Cement Neat ✓	520	SKS		
	Poz. Mix				
	Calcium Chloride	3%			
	Gel % Flo-Cele $\frac{1}{4}$ #Per Sack				
	Handling Charge				
	Hauling Charge				
	Additional Cement				
8 5/8"	Centralizers	3			
"	Cement Basket	1			
"	Guide Shoe	1			
"	Baffle Plate	1			
	Box-thread lock	1			
	Mix Rate 4 BPM	Slurry Vol- 1.18	FT ³ /5K- water Temp		
	Disp Rate 5 BPM	Slurry WT 15.2	PAG		
	Plug landed @ 600 PSI	Total Slurry Vol-	109.2 BBL Cement		
Remarks: Pre-Flush w/ 20 BBL H ² O	Tax Reference Code	Sub Total			
Displace w/ 43.8 BBL H ² O	State CO 2.9 %	Tax			
Circulate 4 BBL Cement	Disc.	Total			

Truck No.	Code	State Mileage	Nebraska	Colorado	Wyoming	Other	Total Mileage
1208		Pump Truck		30			
1217		Bulk Truck		30			



FIELD RECEIPT NO. 1001932387

CUSTOMER GREAT WESTERN OIL & GAS				CREDIT APPROVAL NO.		PURCHASE ORDER NO.		CUSTOMER NUMBER 20013943 - 00229286		INVOICE NUMBER						
MAIL INVOICE TO STREET OR BOX NUMBER 503 MAIN ST				CITY Windsor		STATE Colorado		ZIP CODE 80550								
DATE WORK COMPLETED		MO. 08	DAY 30	YEAR 2012	BHI REPRESENTATIVE AARON M MCWILLIAMS		WELL API NO: 05123357050000		WELL TYPE : New Well							
DISTRICT BJS, BRIGHTON				JOB DEPTH(ft) 7,494		WELL CLASS : Gas										
WELL NAME AND NUMBER GREAT WESTERN #25-22-18				TD WELL DEPTH(ft) 7,532		GAS USED ON JOB : No Gas										
WELL LOCATION :				LEGAL DESCRIPTION 25-6N-67W		COUNTY/PARISH Weld		STATE Colorado		JOB TYPE CODE : Long String						
PRODUCT CODE		DESCRIPTION			UNIT OF MEASURE		QUANTITY		LIST PRICE UNIT		GROSS AMOUNT		% DISC.		NET AMOUNT	
100021		Class G Cement			sacks		153		31.800		4,865.40		55%		2,189.43	
100120		Bentonite			lbs		1079		0.530		571.87		55%		257.34	
100121		Silica Flour			lbs		5124		0.590		3,023.16		55%		1,360.42	
100275		Sodium Metasilicate			lbs		188		4.100		770.80		55%		346.86	
100317		Poz (Fly Ash)			sacks		153		14.200		2,172.60		55%		977.67	
398108		Mud Clean II			gals		840		1.700		1,428.00		55%		642.60	
398224		Premium Lite Cement			sacks		310		27.650		8,571.50		55%		3,857.18	
488013		CD-32			lbs		77		13.300		1,024.10		55%		460.85	
488015		FL-52			lbs		103		26.900		2,770.70		55%		1,246.82	
488353		CSE-2			lbs		2480		1.700		4,216.00		55%		1,897.20	
499702		ClayCare, Clay Treat-2C, 260 gl tote			gals		8		147.000		30,590.13		55.00%		13,765.57	
		SUB-TOTAL FOR Product Material														
A152		Personnel Per Diem Chrg - Cement Svc			ea		1		210.000		210.00		0%		210.00	
M100		Bulk Materials Blending Charge			cu ft		793		5.450		4,321.85		55%		1,944.83	
		SUB-TOTAL FOR Service Charges									4,531.85		52.45%		2,154.83	
ARRIVE LOCATION :		MO. 08	DAY 30	YEAR 2012	TIME 21:10			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								CUSTOMER AUTHORIZED AGENT X					CUSTOMER AUTHORIZED AGENT X			
SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS								CUSTOMER AUTHORIZED AGENT X					BHI APPROVED X			



FIELD RECEIPT NO. 1001932387

CUSTOMER GREAT WESTERN OIL & GAS				CREDIT APPROVAL NO.		PURCHASE ORDER NO.		CUSTOMER NUMBER 20013943 - 00229266		INVOICE NUMBER	
MAIL INVOICE TO 503 MAIN ST				CITY Windsor		STATE Colorado		ZIP CODE 80550			
DATE WORK COMPLETED		MO. 08	DAY 30	YEAR 2012	BHI REPRESENTATIVE AARON M MCWILLIAMS		WELL API NO: 05123357050000		WELL TYPE : New Well		
DISTRICT BJS, BRIGHTON					JOB DEPTH (ft) 7,494		WELL CLASS : Gas				
WELL NAME AND NUMBER GREAT WESTERN #25-22-18					TD WELL DEPTH (ft) 7,532		GAS USED ON JOB : No Gas				
WELL LOCATION :		LEGAL DESCRIPTION 25-6N-67W			COUNTY/PARISH Weld		STATE Colorado		JOB TYPE CODE : Long String		
PRODUCT CODE	DESCRIPTION				UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT	
F067A	Cement Pumping, 7001 - 8000 ft				6hrs	1	9,525.000	9,525.00	55%	4,286.25	
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	55%	373.50	
J225	Data Acquisition, Cement, Standard				job	1	2,130.000	2,130.00	55%	958.50	
J390	Mileage, Heavy Vehicle				miles	76	11.850	900.60	55%	405.27	
J391	Mileage, Auto, Pick-Up or Treating Van				miles	76	6.700	509.20	55%	229.14	
	SUB-TOTAL FOR Equipment							14,175.80	53.91%	6,533.66	
J401	Bulk Delivery, Dry Products				ton-mi	1174	3.940	4,625.56	55%	2,081.50	
	SUB-TOTAL FOR Freight/Delivery Charges							4,625.56	55.00%	2,081.50	
	FIELD ESTIMATE							53,923.34	54.50%	24,535.56	
ARRIVE LOCATION :				MO. 08	DAY 30	YEAR 2012	TIME 21:10		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								CUSTOMER AUTHORIZED AGENT X			
								BHI APPROVED			

CEMENT JOB REPORT



CUSTOMER GREAT WESTERN OIL & GAS		DATE 30-AUG-12	F.R. # 1001932387	SERV. SUPV. AARON M MCWILLIAMS									
LEASE & WELL NAME GREAT WESTERN #25-22-18 - API 0512335705000		LOCATION 25-6N-87W		COUNTY-PARISH-BLOCK Weld Colorado									
DISTRICT Brighton		DRILLING CONTRACTOR RIG # Cade 25		TYPE OF JOB Long String									
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		MECHANICAL BARRIERS MD TVD									
Cement Plug, Rubber, Bottom 4-1/2		Float Collar, Auto Fill, 4-1/2 - 8rd											
		Float Shoe 4-1/2 - 8rd											
		Centralizer, with Pins, 4-1/2 in											
		Cement Basket, Slip On, 4-1/2 in											
MATERIALS FURNISHED BY BJ		LAB REPORT NO.		PHYSICAL SLURRY PROPERTIES									
				SACKS OF CEMENT	SLURRY WGT PPG								
ClayCare Water		0		0	8.34								
Tail		0		305	14.6								
ClayCare Water		0		0	8.34								
Mud Clean II		0		0	8.5								
ClayCare Water		0		0	8.34								
Lead		0		310	11								
				SLURRY YLD FT ³	WATER GPS								
				0	0								
				5.90	02:30								
				00:00	116.1								
				00:00	20								
				00:00	20								
				00:00	20								
				03:30	177.78								
					146.76								
Available Mix Water 500 Bbl.		Available Displ. Fluid 200 Bbl.		TOTAL 428.84 189.60									
HOLE		TBG-CSG-D.P.				COLLAR DEPTHS							
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE	
7.875	20	7532	4	4.5	11.6	CSG	7494	7494	N-80	7494	7473	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	WGT.	
8.1	8.63	24	CSG	732	732	No packer	0	0	0	4.5	8RD	9.1	
DISPL. VOLUME		DISPL. FLUID		CAL. PSI		CAL. MAX PSI		OP. MAX		MAX TBG PSI		MAX CSG PSI	
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	MIX WATER		
116.5	BBLS	ClayCare Water	8.34	1181	0	0	0	0	6224	3000	Rig tank		
Circulation Prior to Job													
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>						Circulation Time: 2			Circulation Rate: 7 BPM				
Mud Density In: 9.1 LBS/GAL Mud Density Out: 9.1 LBS/GAL						PV & YP Mud In: 0			PV & YP Mud Out: 0				
Gas Present: NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> Units: 0						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: Visually							
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 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: 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				
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)
 Noen

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	4050 PSI	
						CIRCULATING WELL - RIG	<input checked="" type="checkbox"/>	BJ
18:30	0	0	0	0	N/A	Yard call		
20:20	0	0	0	0	N/A	Leave yard		
21:10	0	0	0	0	N/A	Arrive on location 38 miles rig circulating		
21:15	0	0	0	0	N/A	Spot trucks		
21:20	0	0	0	0	N/A	Rig up safety meeting		
22:10	0	0	0	0	N/A	Pre job safety meeting		
22:37	4050	0	0	0	H2O	Pressure test pumps and lines		
22:42	457	0	6	20	CLAYCAR	Preflush		
22:46	477	0	6	20	MUDCLEA	Mud clean II		
22:50	467	0	6	20	CLAYCAR	Spacer		
22:57	514	0	7.2	175	CMT	Batch up and pump 310 sks of PLC + 4% Bentonite + 0.6% SM + 8 lbs/sack CSE-2 11 ppg 3.22 yield 19.86 gps		
23:26	283	0	4.8	75	CMT	Batch up and pump 305 sks of (50:50) Poz:G + 0.3% CD-32 + 0.4% FL-52 + 0.1% 14.6 ppg 1.38 yield 5.90 gps		
23:38	0	0	0	0	H2O	Wash up and drop plug		
23:45	565	0	7.2	80	CLAYCAR	Displacement		
00:06	933	0	6	20	CLAYCAR	Displacement rate change		
00:09	1111	0	4.8	10	CLAYCAR	Displacement rate change		
00:11	127	0	2.4	6.5	CLAYCAR	Displacement rate change		
00:14	1268	0	2.4	116.5	CLAYCAR	Bump plug		
00:14	2538	0	0	0	N/A	Plug down @ 116.5 bbl's		
00:17	0	0	0	0	N/A	Check float 1 bbl back		
00:20	0	0	0	0	N/A	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	2538	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	0	426.5	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	



BJ Services JobMaster Program Version 3.50

Job Number: 1001932387

Customer: Great Western

Well Name: Great Western #25-22-18

