



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

OUR INVOICE

**199006**

7-418

(B# 110 906)

Date <u>3-1-11</u>	Well Owner <u>GREAT WESTERN</u>	Well No. <u>31-11</u>	Lease <u>GUSTAFSON</u>
County <u>WELD</u>	State <u>COLORADO</u>	Field	
Charge to <u>ENSIGN US DRILLING</u>	Charge Code		
Address <u>PO BOX 17805 (ENSIGN-7)</u>			For Office Use Only
City, State <u>DENVER COLORADO 80217</u>			
Pump Truck No. <u>1702</u>	Code	Bulk Truck No. <u>1241</u>	Code
Type of Job	Depth	Ft. <u>573</u>	To
Surface <u>8 1/2" CSA 2 1/4"</u>	Bottom of Surface	Ft. <u>563</u>	To
Plug	Plug Landed @ <u>527</u>	Ft.	Time On <u>0615</u>
Production	Pipe Landed @ <u>563</u>	Ft.	Time Off <u>PLUG DOWN 0900</u>

Reference No.	Description	Qty.	Meas.	Unit Price	Amount		
	Pump Truck Charge						
	Cement Neat ✓	430	SKS				
	Poz. Mix						
	Calcium Chloride	3%					
	Gel % Flo-Cele 1/11 #Per Sack						
	Handling Charge						
	Hauling Charge						
	Additional Cement						
	8 1/2" CENTRALIZERS	3					
	" CEMENT BASKET	1					
	" GUIDE SLEEVE	1					
	" RAFFLE PLATE	1					
	BOX THREADLOCK	1					
	MIX RATE 4 BPM	SUPPLY VOL 1018	1 3/4" - WATER TEMP 94/ 51"				
	DISP RATE 5 BPM	SUPPLY VOL 15.2	FTO				
	PLUG LENDED @ 700 TSL	TOTAL SUPPLY VOL 90	BEL CEMENT				
Remarks:	PLUG LENDED @ 700 TSL	Tax Reference Code	Sub Total				
	STATE 10.25% BEL 470	State 10.25%	Tax				
	DISC. 3 BEL CEMENT	Disc.	Total				
Truck No.	Code	State Mileage	Nebraska	Colorado	Wyoming	Other	Total Mileage
		Pump Truck		20			
		Bulk Truck		20			

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 Joe, Josh, KERRY, CHAN

Received By [Signature]  
Customer or His Agent

# CEMENT JOB REPORT



<b>CUSTOMER</b> Great Western Oil & Gas LLC		<b>DATE</b> 05-MAR-11		<b>F.R. #</b> 1001771298		<b>SERV. SUPV.</b> FRANCISCO P CASTILLO	
<b>LEASE &amp; WELL NAME</b> GUSTAFSON #31-11 - API 05123312950000		<b>LOCATION</b> 31-7N-65W		<b>COUNTY-PARISH-BLOCK</b> Weld Colorado			
<b>DISTRICT</b> Brighton		<b>DRILLING CONTRACTOR RIG #</b> Ensign 7		<b>TYPE OF JOB</b> Long String			

SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		PHYSICAL SLURRY PROPERTIES						
4-1/2" Top Cem Plug, Nitrile cvr, Ph	Float Collar 4-1/2 - 8rd			<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>
	Float Shoe 4-1/2 - 8rd									
<b>MATERIALS FURNISHED BY BJ</b>										
Fresh Water				0	8.34	0	0	00:00	40	
Mud Clean II				0	8.4	0	0	00:00	20	
Fresh Water				0	8.34	0	0	00:00	40	
PL+4%Bentonite+.6%SMS+8lbs/skCSE-2				305	11	3.22	19.86	03:30	175	144.29
ClassG+.3%CD-32+.4%FL-52+1%SMS+20%Silica Flour				240	14.6	1.38	5.9	02:30	58	33.15
Claytreat Water				0	8.34	0	0	00:00	115	
Available Mix Water <u>400</u> Bbl. Available Displ. Fluid <u>400</u> Bbl.				<b>TOTAL</b>					<b>448</b>	<b>177.44</b>

HOLE			TBG-CSG-D.P.				COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	GRADE	SHOE	FLOAT	STAGE
7.875	20	7445	4.5	11.6	CSG	7400	N-80	7400	7387	0

LAST CASING		PKR-CMT RET-BR PL-LINER		PERF. DEPTH		TOP CONN		WELL FLUID			
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
8.625	24	CSG	573	NO PACKER		0	0	4.5	8RD	WATER BASED ML	9.2

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	
115	BBLS	Claytreat Water	8.34	0	0	0	0	0	7780	6224	RIG TANK

**Circulation Prior to Job**

Circulated Well: Rig ☒ BJ ☐      Circulation Time:      Circulation Rate: BPM

Mud Density In: 9.2 LBS/GAL      Mud Density Out: 9.2 LBS/GAL      PV & YP Mud In: 50      PV & YP Mud Out: 50

Gas Present: NO ☒ YES ☐      Units:      Solids Present at End of Circulation: NO ☒ YES ☐

**Displacement And Mud Removal**

Displaced By: Rig ☐ BJ ☒      Amount Bled Back After Job: 1 BBLS

Returns During Job: ☐ NONE ☐ PARTIAL ☒ FULL      Method Used to Verify Returns: VISUAL

Cement Returns at Surface: ☐ YES ☒ NO      Were Returns Planned at Surface: ☒ NO ☐ YES

Pipe Movement: ☐ ROTATION ☐ RECIPROICATION ☐ NONE ☐ UNABLE DUE TO STUCK PIPE

Centralizers: ☐ NO ☒ YES      Quantity:      Type: ☐ BOW ☐ RIGID

Job Pumped Through: ☐ CHOKE MANIFOLD ☐ SQUEEZE MANIFOLD ☒ MANIFOLD ☐ NO MANIFOLD

**Plugs**

Number of Attempts by BJ:      Competition:      Wiper Balls Used: ☒ NO ☐ YES      Quantity:

Plug Catcher Used: ☒ NO ☐ YES      Parabow Used: ☒ NO ☐ YES

Was There a Bottom: ☒ NO ☐ YES      Top of Plug: FT      Bottom of Plug: FT

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

BLOCK SQUEEZE ☐      SHOE SQUEEZE ☐      TOP OF LINER SQUEEZE ☐      PLANNED ☐ UNPLANNED ☐

Liner Packer: ☒ NO ☐ YES      Bond Log: ☒ NO ☐ YES      PSI Applied:      Fluid Weight: LBS/GAL

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

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

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

PRESSURE/RATE DETAIL	EXPLANATION



# CEMENT JOB REPORT



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

Depth Drilled out of Shoe: FT	Target EMW: LBS/GAL	Actual EMW: LBS/GAL
Number of Times Tests Conducted:	Mud Weight When Test was Conducted: LBS/GAL	
Problems Before Job (I.E. Running Casing, Circulating Well, ETC)		
Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)		
Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)		

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 type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES	4500 PSI
						CIRCULATING WELL - RIG	<input checked="" type="checkbox"/> BJ <input type="checkbox"/>
03:55	0	0	0	0	0	CONVOY SAFETY MEETING	
04:00	0	0	0	0	0	LEAVE THE YARD	
04:50	0	0	0	0	0	ARRIVE ON LOCATION	
03:30	0	0	0	0	0	DRILLING RIG LANDED CASING	
05:00	0	0	0	0	0	RIG UP SAFETY MEETING/RIG UP	
06:10	0	0	0	0	0	PRE-JOB SAFETY MEETING	
06:59	4500	0	0	1	WATER	TEST LINES	
07:05	317	0	5	20	WATER	FRESH WATER SPACER	
07:09	290	0	5	20	WATER	MUD CLEAN II SPACER	
07:14	323	0	5	20	WATER	FRESH WATER SPACER	
07:18	211	0	6	50	CEMENT	LEAD SLURRY 11.0PPG	
07:40	173	0	6	110	CEMENT	LEAD SLURRY 11.0PPG	
07:51	109	0	5	175	CEMENT	LEAD SLURRY 11.0PPG	
07:51	0	0	0	0	0	SWITCH OVER TO TAIL SLURRY 14.6PPG	
08:05	107	0	4	58	CEMENT	SHUT DOWN WITH 58BBL TAIL SLURRY PUMPED	
08:06	0	0	0	0	0	WASH UP CEMENT PUMP/DROP PLUG	
08:13	0	0	0	0	0	BEGIN DISPLACEMENT	
08:20	102	0	7	50	WATER	DISPLACEMENT WITH CLAYTREAT WATER	
08:27	925	0	7	100	WATER	DISPLACEMENT WITH CLAYTREAT WATER	
08:28	931	0	3	104	WATER	SLOW RATE	
08:30	2593	0	3	115	WATER	BUMP PLUG	
08:34	0	0	0	0	0	CHECK FLOATS/FLOW BACK 1 BBL	
08:40	0	0	0	0	0	RIG DOWN SAFETY MEETING/RIG DOWN	
00:00	0	0	0	0	0	THANK YOU FOR YOUR BUSINESS FROM HARVEY AND CREW	
BUMPED PLUG <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	PSI TO BUMP PLUG 1500	TEST FLOAT EQUIP. <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED 410	PSI LEFT ON CSG 0	SPOT TOP OUT CEMENT Y <input checked="" type="checkbox"/> N	Service Supervisor Signature: 



BJ Services JobMaster Program Version 3.50

Job Number: 1001771298

Customer: GREAT WESTERN OIL & GAS

Well Name: GUSTAFSON 31-11

