

P.O. BOX 336220 • GREENE, CO. 66331 • (970) 353-7299 • FAX (970) 353-7712

REC'D EUSD

**JAN 19 2011**

## OUR INVOICE

198851

(P.O.# 98549)

Date	1-11-11	Well Owner		Well No.	24-53	Lease	HCW
County	WELD	State	COLORADO			Field	
Charge to	ENSIGN US DRILLING					Charge Code	
Address	PO BOX 17805 (ENSIGN-7)					For Office Use Only	
City, State	DENVER COLORADO 80217						
Pump Truck No.	1202	Code		Bulk Truck No.	1218	Code	
Type of Job		Depth		R.	572	To	
Surface	8 5/8" CSG - 244	Bottom of Surface		FL.	562	To	
Plog		Plog Landed @	518	Pt.		Time On	11645
Production		Pipe Landed @	562	Pt.		Time Off	PLUG DOWN 2015

[illegible]

MIX RATE 4 BPM		SLURRY VOL 1.18	FT <sup>3</sup> /SK	-WATER	TEMP 30 °F
DISP. RATE 5 BPM		SLURRY WT 15.2	PPG		
PLUG LAND GD @ 500 PSI		TOTAL SLURRY VOL	94.5	BRLS	CEMENT
Remarks: PREPULSE W/ 20 BRLS H <sub>2</sub> O		Tax Reference Code		Sub Total	
DISPLACE W/ 33 BRLS H <sub>2</sub> O		State CO 2.9 %		Tax	
CIRCULATE 4 BRLS CEMENT		Disc.		Total	

Truck No.	Code	State Mileage	Nebraska	Colorado	Wyoming	Other	Total Mileage
1202		Pump Truck		36			
1218		Bulk Truck		36			

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, EVAN

Received By \_\_\_\_\_

Customer or His Agent

# CEMENT JOB REPORT



<b>CUSTOMER</b> Great Western Oil & Gas LLC		<b>DATE</b> 16-JAN-11		<b>F.R. #</b> 1001747146		<b>SERV. SUPV.</b> JEFFREY A ANDERSON	
<b>LEASE &amp; WELL NAME</b> HCW #24-53 - API 05123315010000		<b>LOCATION</b> Sec.24 - T6N - R67W		<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			
<b>SIZE &amp; TYPE OF PLUGS</b>		<b>LIST-CSG-HARDWARE</b>		<b>PHYSICAL SLURRY PROPERTIES</b>			
Cement Plug, Rubber, Top 4-1/2 in		Centralizer, with Pins, 4-1/2 in		<b>SACKS OF CEMENT</b>	<b>SLURRY WGT PPG</b>	<b>SLURRY YLD FT³</b>	<b>WATER GPS</b>
		Cement Basket, Slip On, 4-1/2 in					
<b>MATERIALS FURNISHED BY BJ</b>							
Fresh Water				0	8.34	0	0
50:50 Poz + Additives				225	14.6	1.38	5.90
Claytreat Water				0	8.34	0	0
Mud Clean II				0	8.5	0	0
Fresh Water				0	8.34	0	0
Premium Lite Cement + Additives				270	11	3.22	19.86
Available Mix Water 500 Bbl. Available Displ. Fluid 300 Bbl.				<b>TOTAL</b>		374.2	152.47
<b>HOLE</b>		<b>TBG-CSG-D.P.</b>		<b>COLLAR DEPTHS</b>			
<b>SIZE</b>	<b>% EXCESS</b>	<b>DEPTH</b>	<b>SIZE</b>	<b>WGT.</b>	<b>TYPE</b>	<b>DEPTH</b>	<b>GRADE</b>
7.875	0	7300	4.5	11.6	CSG	7300	N-80
						7300	7286
<b>LAST CASING</b>		<b>PKR-CMT RET-BR PL-LINER</b>		<b>PERF. DEPTH</b>		<b>TOP CONN</b>	
<b>SIZE</b>	<b>WGT</b>	<b>TYPE</b>	<b>DEPTH</b>	<b>BRAND &amp; TYPE</b>	<b>DEPTH</b>	<b>TOP</b>	<b>BTM</b>
8.625	24	CSG	580	No Packer	0	0	0
						4.5	8RD
							WATER BASED MU
							9.3
<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>
113.2	BBLs	Claytreat Water	8.34	2500	0	0	0
							0
							6224
							3000
							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: 9.3 LBS/GAL				Mud Density Out: 9.3 LBS/GAL			
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"/>			
<b>Displacement And Mud Removal</b>							
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							
<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: 0 PSI				With 0 LBS/GAL Mud		Time Held: 00 Hours 00 Minutes	
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: None							
<b>PRESSURE/RATE DETAIL</b>				<b>EXPLANATION</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) N/A		
Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC) N/A		
Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC) N/A		

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	4000 PSI
						CIRCULATING WELL - RIG	<input checked="" type="checkbox"/> BJ <input type="checkbox"/>
03:05	0	0	0	0	N/A	Pre Rig Up Meeting	
03:45	0	0	0	0	N/A	Safety Meeting	
04:25	4101	0	0	0	WATER	Pressure Test	
04:28	547	0	7.2	20	WATER	Fresh Water	
04:31	638	0	7.2	20	WATER	Mud Clean II	
04:35	702	0	7.2	20	WATER	Fresh Water	
04:41	716	0	7.4	148	CEMENT	Batch up and pump Lead Slurry 270 sks @ 11 PPG of PLC + 0.6% Sodium Metasilicate + 8 Lbs/Sk CSE-2 + 4% Bentonite + 190.4% Fresh Water	
05:05	204	0	4.9	53	CEMENT	Batch up and pump Tail Slurry 225 sks @ 14.6 PPG of POZ G + 0.3% CD-32 + 0.4% FL-52 + 0.1% Sodium Metasilicate + 20% Silica Flour + 58.5% Fresh Water	
05:16	0	0	0	0	N/A	Drop Plug	
05:30	115	0	7.5	73	WATER	Displacement	
05:40	392	0	7.5	20	WATER	Caught Cement	
05:43	818	0	6.1	7	WATER	Drop Rate	
05:45	841	0	5	5	WATER	Drop Rate	
05:46	783	0	2.5	8.2	WATER	Drop Rate	
05:50	2639	0	0	0	N/A	Plug Down Pumped 113.2 Bbls Claytreat Water	
06:00	0	0	0	0	N/A	Pre Rig Down Meeting	

BUMPED PLUG <input type="checkbox"/> Y <input type="checkbox"/> N	PSI TO BUMP PLUG 2500	TEST FLOAT EQUIP. <input type="checkbox"/> Y <input type="checkbox"/> N	BBL.CMT RETURNS/ REVERSED 0	TOTAL BBL. PUMPED 374.2	PSI LEFT ON CSG 0	SPOT TOP OUT CEMENT <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Service Supervisor Signature: 
---	--------------------------------	--	--------------------------------------	----------------------------------	----------------------------	---	-----------------------------------





BJ Services JobMaster Program Version 3.50

Job Number: 1001747146

Customer: GREAT WESTERN

Well Name: HCW 24-53

