



198790

Date <u>12/28/10</u>	Well Owner <u>Great Western</u>	Well No. <u>24-23</u>	Lease <u>Hew</u>
County <u>Weld</u>	State <u>Colorado</u>		Field
Charge to <u>ENGIG 2145 Drilling</u>			Charge Code
Address <u>P.O. Box 17805 (ENGIG 47)</u>			For Office Use Only
City, State <u>DENVER, Colorado 80217</u>			
Pump Truck No. <u>208</u>	Code	Bulk Truck No. <u>216/218</u>	Code
Type of Job		Depth	Ft. <u>566</u>
Surface <u>8 5/8" (56-24")</u>		Bottom of Surface	Ft. <u>556</u>
Plug		Plug Landed @ <u>513</u>	Ft. Time On <u>1020</u>
Production		Pipe Landed @ <u>556</u>	Ft. Time Off <u>Plug Down 1215</u>

Remarks: Pre-Flush w/ 20 BBLS H <sup>2</sup> O	Tax Reference Code	Sub Total
Displace w/ 32.5 BBLS H <sup>2</sup> O	State CO 2.9 %	Tax
Circulate 3 BBLS Cement	Disc.	Total

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

Received By Alonso S. Martinez  
Customer or His Agent

# CEMENT JOB REPORT



<b>CUSTOMER</b> Great Western Oil & Gas LLC			<b>DATE</b> 02-JAN-11		<b>F.R. #</b> 1001739345		<b>SERV. SUPV.</b> AARON M MCWILLIAMS			
<b>LEASE &amp; WELL NAME</b> HCW #24-23 - API 05123314970000			<b>LOCATION</b> Sec.24 - T6N - R67W			<b>COUNTY-PARISH-BLOCK</b> Weld Colorado				
<b>DISTRICT</b> Brighton			<b>DRILLING CONTRACTOR RIG #</b> Ension 7			<b>TYPE OF JOB</b> Long String				

SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		PHYSICAL SLURRY PROPERTIES						
Cement Plug, Rubber, Top 4-1/2 in		Float Collar, Auto Fill, 4-1/2 - 8rd		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT <sup>3</sup>	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
		Float Shoe 4-1/2 - 8rd								
MATERIALS FURNISHED BY BJ										
Fresh Water				0	8.34	0	0	00:00	20	
50:50 Poz + Additives				275	14.6	1.38	5.90	02:30	67.58	38.62
Claytreat Water				0	8.34	0	0	00:00	114.5	
Mud Clean II				0	8.5	0	0	00:00	20	
Fresh Water				0	8.34	0	0	00:00	20	
Premium Lite Cement + Additives				375	11	3.22	19.86	03:30	215	177.49
Available Mix Water 380 Bbl. Available Displ. Fluid 130 Bbl.							TOTAL		457.08	216.11

HOLE			TBG-CSG-D.P.				COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	GRADE	SHOE	FLOAT	STAGE
7.875	0	7429	4.5	11.6	CSG	7415	N-80	7415	7399	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	WGT.
8.625	24	CSG	580	No packer		0	0	0	4.5	8RD	9.5

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	
114.5	BBLs	Claytreat Water	8.34	2585	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: 1	Circulation Rate: 6 BPM
Mud Density In: 9.5 LBS/GAL Mud Density Out: 9.5 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

### 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
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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: 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)  
 While batching up 14.6 lb cement balled off. Had to shut down and fix problem.

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	4180 PSI	
						CIRCULATING WELL - RIG	<input checked="" type="checkbox"/>	BJ <input type="checkbox"/>
05:55	0	0	0	0	N/A	Pre rig up safety meeting		
08:30	0	0	0	0	N/A	Pre job safety meeting		
09:05	4180	0	0	0	H2O	Pressure test pumps and lines		
09:12	420	0	7.2	20	H2O	Fresh water preflush		
09:15	440	0	7.2	20	MUD CLE/	Mud clean II		
09:18	350	0	7.2	20	H2O	Fresh water spacer		
09:24	525	0	7.2	200	CMT	Batch up and pump 375sks of PLC + 4% Bentonite + .6% Sodium Metasilicate + 8lbs/sack CSE-2		
10:12	130	0	3.6	61	CMT	Batch up and pump 275sks of POZ G + .3% CD-32 + .4% FL-52 + .1% Sodium Metasilicate + 20% Silica Flour		
10:25	0	0	0	0	H2O	Wash up and drop plug		
10:34	1100	0	7.2	90	CT-3C	Displacement		
10:52	1380	0	6	10	CT-3C	Rate change		
10:57	1470	0	4.8	9	CT-3C	Rate change		
10:59	1520	0	2.4	5.5	CT-3C	Rate change		
11:00	1580	0	0	0	H2O	Bump plug		
11:00	2585	0	0	0	H2O	Plug down @ 114.5 bbl's		
11:03	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:

☒ Y ☐ N

2585

☒ Y ☐ N

0

435.5

0

☒ Y ☐ N





**BJ Services JobMaster Program Version 3.50**

Job Number: 1001739345

Customer: Great Western

Well Name: HCW #24-23

