

# HALLIBURTON

iCem® Service

## **EAST CHEYENNE GAS STORAGE**

**For:**

Date: Thursday, March 31, 2016

**ECGS JERRITSMA 7**

ECGS JERRITSMA 7

Job Date: Thursday, March 31, 2016

Sincerely,

Field Ticket Signature

Field Ticket Number: 0903223352      Field Ticket Date: Thursday, March 31, 2016      Planning Order #: NA

**Bill To:**  
EAST CHEYENNE GAS STORAGE - eBUS,  
DONOTMAIL-10370 RICHMOND AVE,  
HOUSTON, TX, 77042

**Job Name:** 5200' Zone Squeeze  
**Order Type:** ZOH  
**Well Name:** Jerritsma 7  
**Company Code:** 1100  
**Customer PO No.:** NA  
**AFE :**  
**Shipping Point:** Halliburton Energy Services SP  
**Sales Office:** ROCKY MOUNTAINS BD  
**Well Type:** OIL & GAS WELL  
**Well Category:** Exploration  
**Rig Name/#:** WORKOVER RIG

**Ship To:**  
East Cheyenne Gas Storage,  
DONOTMAIL-10370 RICHMOND AVE,  
HOUSTON, TX, 77042

THIS OUTPUT DOES NOT INCLUDE TAXES. APPLICABLE SALES TAX WILL BE BILLED ON THE FINAL INVOICE. CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES DESCRIBED ABOVE, ON ANY PRECEDING PAGES, AND ATTACHED DOCUMENTS.

Gross Amount Total: \$ 17,941.93  
Item Discount Total: \$ 14,319.91  
Net Amount Total: \$ 3,622.02 USD

Customer Representative Signature:

Date:

GARY

Joseph Fantasia

Customer Representative

Halliburton Representative

Was our HSE performance satisfactory? (Health, Safety, Environment)

Were you satisfied with our equipment?

Were you satisfied with our people?

Yes     No

Yes     No

Yes     No

Comments:



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 HOUSTON, TX, 77042

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**Order Type:** ZOH  
**Well Name:** Jemtsma 7  
**Company Code:** 1100  
**Customer PO No.:** NA  
**AFE:**  
**Shipping Point:** Halliburton Energy Services SP  
**Sales Office:** ROCKY MOUNTAINS BD  
**Well Type:** OIL & GAS WELL  
**Well Category:** Exploration  
**Rig Name#:** WORKOVER RIG

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 East Cheyenne Gas Storage,  
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Material	Description	QTY	UOM	Unit Amount	Gross Amount	Discount	Net Amount	
7527	CMT SQUEEZE AND ABANDON BOM	1	JOB		0.00		0.00	
2	MILEAGE FOR CEMENTING CREW <i>Number of Units</i>	250 1	MI	5.76 USD / 1.00 MI	1,440.00	\$ 1,152.00	288.00	
1	ZI-MILEAGE FROM NEAREST HES BASE,/UNIT <i>Number of Units</i>	250 1	MI	9.79 USD / 1.00 MI	2,447.50	\$ 1,958.00	489.50	
16097	SQUEEZE PUMPING CHARGE,ZI <i>FEET/METERS (FT/M)</i> <i>DEPTH</i>	1 FT 5300	EA	9,856.00 USD / 1.00 EA	9,856.00	\$ 7,884.80	1,971.20	
76400	MILEAGE,CMT MTLs DEL/RET MIN <i>NUMBER OF TONS</i>	125 4.7	MI	3.35 USD / 1.00 MI	1,968.13	\$ 1,574.50	393.63	
3965	HANDLE&DUMP SVC CHRg, CMT&ADDITIVES,ZI <i>NUMBER OF EACH</i> <i>Unit of Measurement</i>	100 1 EA	CF	5.49 USD / 1.00 CF	549.00	\$ 439.20	109.80	
	<b>15.8# HalCem</b>							
452986	CMT, HalCem (TM) system	100	SK		1,681.30	\$ 1,311.41	369.89	
<b>Totals</b>					<b>USD</b>	<b>\$ 17,941.93</b>	<b>\$ 14,319.91</b>	<b>\$ 3,622.02</b>

The Road to Excellence Starts with Safety

Sold To #: 361672		Ship To #: 361672		Quote #: 0022172138		Sales Order #: 0903223352					
Customer: EAST CHEYENNE GAS STORAGE - EBUS				Customer Rep: GARY							
Well Name: Jerritsma			Well #: 7			API/UWI #:					
Field:		City (SAP): Peetz		County/Parish: LOGAN			State: COLORADO				
<b>Legal Description:</b>											
Contractor: UNKNOWN				Rig/Platform Name/Num: WORKOVER RIG							
Job BOM: 7527											
Well Type: OIL & GAS WELL											
Sales Person: HALAMERICA\HB71271				Srvc Supervisor: Joseph Fantasia							
<b>Job</b>											
Job depth MD		5300ft			Job Depth TVD		5300				
Perforation Depth (MD)		From 5384			To		5398				
<b>Well Data</b>											
Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft	
Tubing		2.875	2.323	7.8			0	5300			
<b>Fluid Data</b>											
<b>Stage/Plug #: 1</b>											
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal		
1	Circulated well water	FRESH WATER	5	bbl	8.33			2			
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal		
2	15.8# HalCem	HALCEM (TM) SYSTEM	100	sack	15.8	1.148		3	4.97		
4.97 Gal		FRESH WATER									
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal		
3	Fresh Water Displacement	DISPLACEMENT	29.5	bbl	8.33			1/2			
Cement Left In Pipe	Amount					Reason					
<b>Comment</b>											

## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	PS Pump Press (psi)	Comments
Event	1	Arrive at Location from Service Center	Arrive at Location from Service Center	3/31/2016	13:30:00	USER				CALL OUT 0800. REQUESTED ON LOCATION AT 1400. ARRIVE ON LOCATION AT 1330. HELD SITE ASSESSMENT AND PRE RIG UP SAFETY MEETING WITH CREW. WATER TEST - PH 7 ... TEMP 55 ... CHLORIDES 0...
Event	2	Start Job	Start Job	3/31/2016	14:30:31	COM5	0.00	8.19	-5.00	HELD PRE JOB SAFETY MEETING WITH ALL PRESENT PERSONNEL PRIOR TO STARTING JOB.
Event	3	Test Lines	Test Lines	3/31/2016	14:34:10	COM5	0.00	8.47	2840.00	PRESSURE TEST LINES TO 3150 PSI.
Event	4	Pump Spacer 1	Pump Spacer 1	3/31/2016	14:36:45	COM5	0.50	8.21	-1.00	PUMP 5 BBLS FRESH WATER TO ESTABLISH RATE/PRESSURE. 2 BBLS/MIN 0 PSI.
Event	5	Pump Cement	Pump Cement	3/31/2016	14:45:59	COM5	0.00	-1.67	-14.00	PUMP 20 BBLS (100 SKS) G CEMENT WITH 19 LBS HALAD 344 AND 10 LBS HR 5 ADDED TO MIX WATER.
Event	6	Shutdown	Shutdown	3/31/2016	14:53:24	COM5	0.00	8.54	9.00	
Event	7	Pump Displacement	Pump Displacement	3/31/2016	14:53:51	COM5	0.00	0.38	-6.00	DISPLACE USING 29 BBLS FRESH WATER. 1 BBL (5 SKS) LEFT IN TUBING ON TOP OF RETAINER. NO PRESSURE UNTIL 15 BBLS AWAY. PUMPED REMAINDER AT

1/2 BBL/MIN AT 1500 PSI.

Event	8	Shutdown	Shutdown	3/31/2016	15:25:06	USER	0.50	7.97	1850.00	
Event	9	End Job	End Job	3/31/2016	15:28:31	COM5	0.00	-0.49	-2.00	HELD PRE RIG DOWN SAFETY MEETING WITH CREW PRIOR TO RIGGING DOWN EQUIPMENT.
Event	10	Depart Location	Depart Location	3/31/2016	16:00:00	USER				JOURNEY MGMNT PRIOR TO LEAVING

## 3.0 Attachments

### 3.1 ECGS JERRITSMA 7 -Custom Results.png

