
EAST CHEYENNE GAS STORAGE

**ECGS 6-18WPD011-2
PEETZ WEST
Logan County , Colorado**

Cement Production Casing 13-Oct-2012

Job Site Documents

Field Ticket

Field Ticket Number: 9884969		Field Ticket Date: Saturday, October 13, 2012	
Bill To: EAST CHEYENNE GAS STORAGE 10901 WEST TOLLER DR SUITE 200 LITTLETON, CO 80127		Job Name: ECGS Order Type: Streamline Order (ZOH) Well Name: ECGS 6-18WPD011-2 Company Code: 1100 Customer PO No.: NA Shipping Point: Brighton, CO, USA Sales Office: Rocky Mountains BD Well Type: Well Category:	
Ship To: EAST CHEYENNE GAS STORAGE ECGS, 6-18WPD011-2 2957266 Sterling,			

Material	Description	QTY	UOM	Base Amt	Unit Amt	Gross Amount	Discount	Net Amount
7523	CMT PRODUCTION CASING BOM	1	JOB	0.00	0.00	0.00		0.00
2	MILEAGE FOR CEMENTING CREW,ZI	300	MI	0.00	5.76	1,728.00	64%	622.08
	Number of Units	1						
1	ZI-MILEAGE FROM NEAREST HES BASE,/UNIT	300	MI	0.00	9.79	2,937.00	64%	1,057.32
	Number of Units	1						
16091	ZI - PUMPING CHARGE	1	EA	0.00	7,297.00	7,297.00	64%	2,626.92
	DEPTH	5264						
	FEET/METERS (FT/M)		FT					
121	MSC OPERATOR W/HES PUMP EQUIP,/DAY,ZI	1	EA	0.00	1,548.00	1,548.00	64%	557.28
	NUMBER OF DAYS	1						
76400	ZI MILEAGE,CMT MTLS DEL/RET MIN	150	MI	0.00	3.35	3,266.25	64%	1,175.85
	NUMBER OF TONS	6.5						
3965	HANDLE&DUMP SVC CHRQ, CMT&ADDITIVES,ZI	184	CF	0.00	5.49	1,010.16	64%	363.66
	NUMBER OF EACH	1						
86954	ZI FUEL SURCHG-CARS/PICKUPS<1 1/2TON	300	MI	0.00	0.17	51.00		51.00
	Number of Units	1						
86955	ZI FUEL SURCHG-HEAVY TRKS >1 1/2 TON	300	MI	0.00	0.51	153.00		153.00
	Number of Units	1						
87605	ZI FUEL SURCHG-CMT & CMT ADDITIVES	150	MI	0.00	0.17	165.75		165.75
	NUMBER OF TONS	6.5						
7	ENVIRONMENTAL CHARGE,/JOB,ZI	1	JOB	0.00	134.00	134.00		134.00
8	IRON SAFETY INSPECTION SURCHARGE /JOB ZI	1	JOB	0.00	83.00	83.00		83.00

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Material	Description	QTY	UOM	Base Amt	Unit Amt	Gross Amount	Discount	Net Amount
372867	Cmt PSL - DOT Vehicle Charge, CMT	2	EA	0.00	241.00	482.00		482.00
45	CMT, S.O.T./S.M.M. PERMIT	1	EA	0.00	200.00	200.00		200.00
139	ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI NUMBER OF UNITS	1 1	JOB	0.00	2,275.00	2,275.00	64%	819.00
132	PORT. DAS W/CEMWIN;ACQUIRE W/HES, ZI NUMBER OF DAYS	1 1	JOB	0.00	1,649.00	1,649.00	64%	593.64
114	R/A DENSOMETER W/CHART RECORDER,/JOB,ZI NUMBER OF UNITS	1 1	JOB	0.00	1,285.00	1,285.00	64%	462.60
74038	ZI PLUG CONTAINER RENTAL-1ST DAY DAYS OR FRACTION (MIN1)	1 1	EA	1,322.00	0.00	1,322.00	64%	475.92
90	ZI QUICK LATCH ATTACHMENT SIZE IN INCHES/MILLIMETER INCHES/MILLIMETERS (IN/MM)	1 7	JOB IN	0.00	491.00	491.00	64%	176.76
528788	MUD FLUSH III	24	BBL	0.00	90.72	2,177.28	64%	783.82
452981	EXTENDACEM (TM) SYSTEM	60	SK			3,939.00	64 %	1,418.04
452979	EXPANDACEM (TM) SYSTEM	70	SK			6,631.49	64. %	2,387.34
101382962	BE-3S	2	LB	0.00	333.35	666.70	64%	240.01
Totals				USD		39,491.63	24,462.64	15,028.99

Halliburton Rep: MATTHEW ROSALES

Customer Agent: John Ashby

Halliburton Approval

Field Ticket

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Material	Description	QTY	UOM	Base Amt	Unit Amt	Gross Amount	Discount	Net Amount
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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 AND ON THE ATTACHED DOCUMENTS.

X

FIELD TICKET TOTAL: USD

15,028.99

Customer Signature

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

Were you satisfied with our Equipment? Y or N

Were you satisfied with our people? Y or N

Comments

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The Road to Excellence Starts with Safety

Sold To #: 361672	Ship To #: 2957266	Quote #:	Sales Order #: 9884969
Customer: EAST CHEYENNE GAS STORAGE	Customer Rep: Ashby, John		
Well Name: ECGS	Well #: 6-18WPD011-2	API/UWI #: 05-075-09406	
Field: PEETZ WEST	City (SAP): Sterling	County/Parish: Logan	State: Colorado
Contractor: CADE Drilling	Rig/Platform Name/Num: 22		
Job Purpose: Cement Production Casing			
Well Type: Development Well	Job Type: Cement Production Casing		
Sales Person: AARON, WESLEY	Srvc Supervisor: ROSALES, MATTHEW	MBU ID Emp #: 392095	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CHAVEZ, JEROME Christophe	5.0	458298	ROSALES, MATTHEW John	5.0	392095	SMITH, AARON David	5.0	518187

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10857012C	150 mile	11527037	150 mile	11605598	150 mile	11812069C	150 mile

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10/12/12	1.5	0	10/13/12	3.5	1.5			

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To	Called Out	Date	Time	Time Zone
				BHST	5264. ft	5264. ft	Wk Ht Above Floor				On Location	12 - Oct - 2012	22:30	MST
											Job Started	13 - Oct - 2012	01:25	MST
											Job Completed	13 - Oct - 2012	02:43	MST
											Departed Loc	13 - Oct - 2012	03:30	MST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
8 3/4" Open Hole				8.75				1215.	5264.		
7" Production Casing	New		7.	6.276	26.			.	5263.		
Surface Casing	Unknown		9.625	9.184	22.5			.	1215.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Fluid Data

Stage/Plug #: 1	Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
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Stage/Plug #: 1

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Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	MUD FLUSH III	MUD FLUSH III - SBM (528788)	24.00	bbl	8.4	.0	.0	.0	
2	Extendacem 11.8#	EXTENDACEM (TM) SYSTEM (452981)	60.0	sacks	11.8	2.11	11.51		11.51
	11.507 Gal	FRESH WATER							
3	Expandacem B1 14.6#	EXPANDACEM (TM) SYSTEM (452979)	70.0	sacks	14.6	1.45	6.09		6.09
	6.09 Gal	FRESH WATER							
4	Water Displacement		200.3	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures		Volumes					
Displacement	200.3	Shut In: Instant		Lost Returns	no	Cement Slurry	40.7	Pad	64
Top Of Cement		5 Min		Cement Returns	no	Actual Displacement	200.3	Treatment	
Frac Gradient		15 Min		Spacers	no	Load and Breakdown		Total Job	305
Rates									
Circulating		Mixing	6-3bpm	Displacement	8.5-3bpm	Avg. Job			4
Cement Left In Pipe	Amount	16 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

The Road to Excellence Starts with Safety

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Customer: EAST CHEYENNE GAS STORAGE	Customer Rep: Ashby, John		
Well Name: ECGS	Well #: 6-18WPD011-2	API/UWI #: 05-075-09406	
Field: PEETZ WEST	City (SAP): Sterling	County/Parish: Logan	State: Colorado
Legal Description:			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: CADE Drilling	Rig/Platform Name/Num: 22		
Job Purpose: Cement Production Casing	Ticket Amount:		
Well Type: Development Well	Job Type: Cement Production Casing		
Sales Person: AARON, WESLEY	Srvc Supervisor: ROSALES, MATTHEW	MBU ID Emp #: 392095	

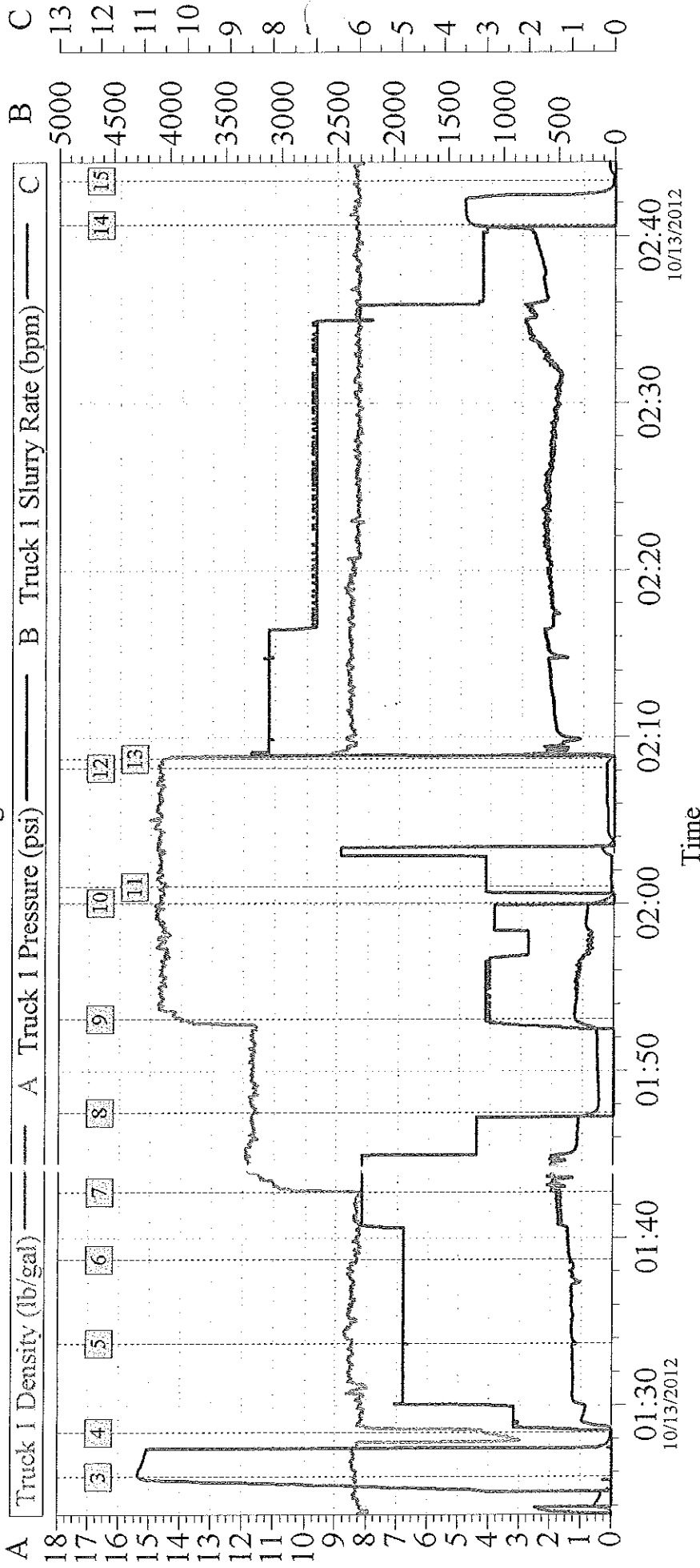
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Start Job	10/13/2012 01:25							
Test Lines	10/13/2012 01:25						4000.0	FILL LINES WITH 1.5BBL H2O CLOSE VALVE ON PLUG CONTAINER MANIFOLD PLACE PUMP IN 2ND GEAR PRESSURE UP TO 4000PSI NEUTRAL OUT CHECK FOR LEAKS HOLD AND MONITOR PRESSURE
Pump Spacer 1	10/13/2012 01:28		5	20			375.0	WATER SPACER
Pump Spacer 2	10/13/2012 01:33		5	24			360.0	MUDFLUSH III
Pump Spacer 1	10/13/2012 01:38		5	20			500.0	WATER SPACER
Pump Lead Cement	10/13/2012 01:42		6	22.5			650.0	EXTENDACEM: 60SKS, 126.6CUFT, 2.11CUFT/SK, 11.51GAL/SK, 11.8#/GAL
Pump Tail Cement	10/13/2012 01:53		3	18.2			345.0	EXPANDACEM: 70SKS, 102.2CUFT, 1.46CUFT/SK, 6.08GAL/SK, 14.6#/GAL
Shutdown	10/13/2012 02:00							
Clean Lines	10/13/2012 02:01							
Drop Top Plug	10/13/2012 02:08							PLUG PRELOADED INTO PLUG CONTAINER

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	10/13/2012 02:08		8	200.3			750.0	FRESH WATER DISPLACE
Bump Plug	10/13/2012 02:40		3				1300. 0	
End Job	10/13/2012 02:42							
Check Floats	10/13/2012 02:43							GOOD RETURNS THROUGHOUT JOB

East Cheyenne Gas Storage-ECGS 6-18WPD011-2

7" Casing Job



Global Event Log		
3 Test Lines	4 Pump Water Spacer	01:28:22
5 Pump Mudflush III	6 Pump Water Spacer	01:38:44
7 Pump Extendacem Lead Cement 11.8#/gal	8 Shutdown Mix Tail Cement	01:47:31
9 Pump Expandacem Tail Cement 14.6#/gal	10 Shutdown	02:00:05
11 Clean Lines	12 Drop Top Plug	02:08:08
13 Pump Displacement	14 Bump Plug	02:40:40
15 End Job		

Customer:	East Cheyenne Gas Storage	Job Date:	12-Oct-2012	Sales Order #:	9884969
Well Description:	ECGS 6-18WPD011-2	UWI:	05-075-09406		
Halliburton Service Supervisor:	Matthew J. Rosales	Halliburton Operator:	Jerome Chavez	East Cheyenne Gas Storage Rep:	Andy Ashby