

# HALLIBURTON

iCem<sup>®</sup> Service

**BONANZA CREEK ENERGY**

Date: Tuesday, January 28, 2014

**Pronghorn 12-42-28HNC**

Sincerely,  
**Derek Trier**

**Executive Summary**

---

Halliburton appreciates the opportunity to perform the cementing services on the **Pronghorn 12-42-28HNC** cement **Intermediate** casing job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

**Halliburton [Ft. Lupton]**

## HALLIBURTON


## Cementing Job Summary

## The Road to Excellence Starts with Safety

Sold To #: 324725		Ship To #: 3274568		Quote #:		Sales Order #: 901070110	
Customer: BONANZA CREEK ENERGY				Customer Rep: GRAHM, KENNY			
Well Name: PRONGHORN		Well #: 12-42-28HNC		API/UWI #: 05-123-38634			
Field: WATTENBERG		City (SAP): MASTERS		County/Parish: Weld		State: Colorado	
Lat: N 40.375 deg. OR N 40 deg. 22 min. 31.008 secs.				Long: W 104.222 deg. OR W -105 deg. 46 min. 39.504 secs.			
Job Purpose: Cement Intermediate Casing							
Well Type: Development Well				Job Type: Cement Intermediate Casing			
Sales Person: GREGORY, JON		Srv Supervisor: BARRAS, JOSEPH		MBU ID Emp #: 405168			
Job Personnel							
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs
BANUELOS, GUADALUPE	7	372277	BARRAS, JOSEPH Corey	7	405168	BEYER, BEAU Jon	7
ROOD, TRAVIS James	7	561971	SCILEPPI, JOSEPH D	7	555492		
Equipment							
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10866493C	61 mile	10866497C	61 mile	11064535	61 mile	11518548	61 mile
11542778	61 mile	11645065	61 mile	11764737	61 mile		
Job Hours							
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours
TOTAL		Total is the sum of each column separately					
Job							
Formation Name				Job Times			
Formation Depth (MD) Top Bottom				Date Time Time Zone			
Form Type BHST				Called Out			
Job depth MD 6520. ft				On Location			
Water Depth				Job Started 27 - Jan - 2014 18:20 MST			
Perforation Depth (MD) From To				Job Completed 27 - Jan - 2014 20:06 MST			
Deparated Loc 27 - Jan - 2014 21:15 MST							
Well Data							
Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade
8 3/4" Open Hole Section				8.75			
7" Intermediate Casing	Unknown		7.	6.276	26.		P-110
9 5/8" Surface Casing	Unknown		9.625	8.921	36.		J-55
Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft				
775.	6520.	775.	6101.				
	6520.		6101.				
	775.						
Tools and Accessories							
Type	Size	Qty	Make	Depth	Type	Size	Qty
Guide Shoe					Packer		
Float Shoe					Bridge Plug		
Float Collar					Retainer		
Insert Float							
Stage Tool							
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

## HALLIBURTON

*Cementing Job Summary*

1	Mud Flush			bbl	8.4	.0	.0	.0	
	3.5 lbm/bbl	MUD FLUSH III, 40 LB SACK (101633304)							
	42 gal/bbl	MUD FLUSH III - SBM (528788)							
2	12.5# EconoCem	ECONOCEM (TM) SYSTEM (452992)	540.0	sacks	12.5	1.89	10.28		10.28
	10.28 Gal	FRESH WATER							
3	14.6 ExpandaCem	EXPANDACEM (TM) SYSTEM (452979)	218.0	sacks	14.6	1.46	6.07		6.07
	6.07 Gal	FRESH WATER							
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>					
Displacement		Shut In: Instant		Lost Returns	0	Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns	18	Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers	40	Load and Breakdown		Total Job	
<b>Rates</b>									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	0 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 					

## HALLIBURTON

## Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 324725	Ship To #: 3274568	Quote #:	Sales Order #: 901070110
Customer: BONANZA CREEK ENERGY		Customer Rep: GRAHM, KENNY	
Well Name: PRONGHORN	Well #: 12-42-28HNC	API/UWI #: 05-123-38634	
Field: WATTENBERG	City (SAP): MASTERS	County/Parish: Weld	State: Colorado
Legal Description:			
Lat: N 40.375 deg. OR N 40 deg. 22 min. 31.008 secs.		Long: W 104.222 deg. OR W -105 deg. 46 min. 39.504 secs.	
Contractor:	Rig/Platform Name/Num: CADE 22		
Job Purpose: Cement Intermediate Casing			Ticket Amount:
Well Type: Development Well	Job Type: Cement Intermediate Casing		
Sales Person: GREGORY, JON	Srv Supervisor: BARRAS, JOSEPH	MBU ID Emp #: 405168	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Service Center	01/27/2014 14:00							
Rig-Up Equipment	01/27/2014 16:45							
Rig-Up Completed	01/27/2014 17:30							
Safety Meeting - Pre Job	01/27/2014 17:45							with HES and rig crew
Start Job	01/27/2014 18:20							
Test Lines	01/27/2014 18:22							TEST LINES TO 3500 PSI CHECK FOR VISIBLE LEAKS AND PRESSURE LOSS ALL CHECKED OUT GOOD
Pump Spacer 1	01/27/2014 18:26		5	40			470.0	PUMP 40 BBL WATER
Pump Lead Cement	01/27/2014 18:36		7	173			518.0	PUMP 540 SKS ECONOCHEM 12.5 PPG 1.89 YEILD/ 10.28 GAL/SK
Pump Tail Cement	01/27/2014 19:02		5	57			369.0	PUMP 218 SKS FRACEM 14.6 PPG 1.46 YEILD 6.07 GAL/SK
Shutdown	01/27/2014 19:12							SHUTDOWN
Drop Top Plug	01/27/2014 19:12							PLUG PRE LOADED WITNESSED BY COMPANY MAN PLUG DEPLOYED AND TRIGGERED TATTLE TAIL
Pump Displacement	01/27/2014 19:14		6	247			1875.0	RIG WATER WITH CEMENT TO SURFACE @ 230 BBL IN DISPLACING

Sold To #: 324725

Ship To #: 3274568

Quote #:

Sales Order #: 901070110

SUMMIT Version: 7.3.0109

Monday, January 27, 2014 08:32:00

## HALLIBURTON

*Cementing Job Log*

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Bump Plug	01/27/2014 20:02		2				2481. 0	
Check Floats	01/27/2014 20:05							HELD WITH 2 BBL BACK TO TRUCK
End Job	01/27/2014 20:06							END JOB
Safety Meeting - Pre Rig- Down	01/27/2014 20:10							
Rig-Down Equipment	01/27/2014 20:15							
Return to Service Center from Job	01/27/2014 21:15							

Sold To # : 324725

Ship To # : 3274568

Quote # :

Sales Order # : 901070110

SUMMIT Version: 7.3.0109

Monday, January 27, 2014 08:32:00