

# HALLIBURTON

iCem<sup>®</sup> Service

## **BONANZA CREEK ENERGY**

Date: January 24, 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 **Surface** 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

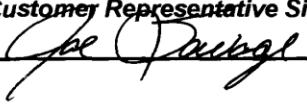
## Cementing Job Summary

## The Road to Excellence Starts with Safety

Sold To #: 324725		Ship To #: 3274568		Quote #:		Sales Order #: 901060888	
Customer: BONANZA CREEK ENERGY OPERATING CO				Customer Rep: Savage, Joe			
Well Name: PRONGHORN		Well #: 12-42-28HNC		API/UWI #:		05-123-38634	
Field: WATTENBURG		City (SAP): MASTERS		County/Parish: Weld		State: Colorado	
Contractor: CADE		Rig/Platform Name/Num: Cade 22					
Job Purpose: Cement Surface Casing							
Well Type: Development Well				Job Type: Cement Surface Casing			
Sales Person: GREGORY, JON		Srvc Supervisor: MCBRIDE, NATHAN		MBU ID Emp #: 313810			
Job Personnel							
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs
ALVARADO, JOSE	4.8	505918	MCBRIDE, NATHAN	4.8	313810	TORREY, SPENCER	4.8
Angel			Charles			Kenneth	549837
Equipment							
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11748359		11908438					
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				Date			
Bottom				Time			
Form Type				Time Zone			
BHST				Called Out			
Job depth MD 780. ft				On Location			
Job Depth TVD 780. ft				23 - Jan - 2014			
Water Depth				16:30			
Wk Ht Above Floor 5. ft				23 - Jan - 2014			
Perforation Depth (MD) From				Job Started			
To				23 - Jan - 2014			
Departed Loc				23 - Jan - 2014			
21:15				MST			
Well Data							
Description	New / Used	Max pressure psig	Size In	ID In	Weight lbm/ft	Thread	Grade
13 1/2" OPEN HOLE				13.5			
9 5/8" Surface Casing	Unknown		9.625	8.921	36.		J-55
Sales/Rental/3 <sup>rd</sup> Party (HES)							
Description	Qty	Qty uom	Depth	Supplier			
SHOE,FLT,TROPHY SEAL, 9 5/8 8RD	1	EA					
CLR,FLT,TROPHY SEAL, 9-5/8 8RD	1	EA					
PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA	1	EA					
KIT,HALL WELD-A	2	EA					
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							

HALLIBURTON

## Cementing Job Summary

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Dyed Water Spacer		20.00	bbl	8.33	.0	.0	.0	
2	13.5 SWIFCEM B1	SWIFCEM (TM) SYSTEM (452990)	320.0	sacks	13.5	1.75	9.26		9.26
	9.26 Gal	FRESH WATER							
<b>Calculated Values</b>			<b>Pressures</b>			<b>Volumes</b>			
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
<b>Rates</b>									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe		Amount 42 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 #: 901060888
Customer: BONANZA CREEK ENERGY OPERATING CO		Customer Rep: Savage, Joe	
Well Name: PRONGHORN	Well #: 12-42-28HNC	API/UWI #: 05-123-38634	
Field: WATTENBURG	City (SAP): MASTERS	County/Parish: Weld	State: Colorado
Legal Description:			
Lat:		Long:	
Contractor: CADE		Rig/Platform Name/Num: Cade 22	
Job Purpose: Cement Surface Casing		Ticket Amount:	
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: GREGORY, JON		Srvc Supervisor: MCBRIDE, NATHAN	MBU ID Emp #: 313810

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Casing on Bottom	01/23/2014 16:25							
Circulate Well	01/23/2014 16:26							
Arrive at Location from Service Center	01/23/2014 16:30							Rig still running pipe in hole
Assessment Of Location Safety Meeting	01/23/2014 16:35							Hazard Hunt and Discuss 3rd party activities
Pre-Rig Up Safety Meeting	01/23/2014 16:40							Review JSA and Discuss Rig up layout
Rig-Up Equipment	01/23/2014 16:45							
Rig-Up Completed	01/23/2014 17:30							
Comment	01/23/2014 17:50							Truck needed to regen prior to job
Pump Water	01/23/2014 18:02		2	2			20.0	Fill Lines
Pre-Job Safety Meeting	01/23/2014 18:30							With Customer and 3rd Parties involved
Start Job	01/23/2014 19:01							
Test Lines	01/23/2014 19:04						2027.0	
Pump Water	01/23/2014 19:08		5	20			80.0	
Pump Cement	01/23/2014 19:14		5	99.7			70.0	320sks @ 13.5ppg, 1.75yield, 9.26gal/sk
Shutdown	01/23/2014 19:37							
Drop Top Plug	01/23/2014 19:39							
Pump Displacement	01/23/2014 19:42		5	56.6			162.0	Fresh Water

Sold To #: 324725

Ship To #: 3274568

Quote #:

Sales Order #: 901060888

HALLIBURTON

*Cementing Job Log*

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Cement Returns to Surface	01/23/2014 19:59							42bbls Displaced 14bbls to pit
Bump Plug	01/23/2014 20:18						656.0	500psi Over
Check Floats	01/23/2014 20:22							Floats Good
End Job	01/23/2014 20:25							Thanks McBride and Crew

Sold To #: 324725

Ship To #: 3274568

Quote #:

Sales Order #: 901060888