

# HALLIBURTON

iCem<sup>®</sup> Service

**BONANZA CREEK ENERGY**

Date: May 2, 2013

**Antelope A11-U41-33HNC Surface**

Sincerely,  
**Julia Nichols**

**Executive Summary**

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Halliburton appreciates the opportunity to perform the cementing services on the **Antelope A11-U41-33HNC** 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]**

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*Cementing Job Summary**The Road to Excellence Starts with Safety*

Sold To #: 324725		Ship To #: 3363361		Quote #:		Sales Order #: 0901298736				
Customer: BONANZA CREEK ENERGY				Customer Rep: LEE PERDUE						
Well Name: ANTELOPE		Well #: A11-U41-33 HNC		API/UWI #: 05-123-39067-00						
Field: WATTENBERG	City (SAP): KER	County/Parish: WELD		State: COLORADO						
Legal Description: SW NW-33-5N-62W-1471FNL-370FWL										
Contractor:		Rig/Platform Name/Num: Cade 26								
Job BOM: 7521										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HX46524				Srvc Supervisor: Joseph Barras						
Job										
Formation Name										
Formation Depth (MD)	Top		Bottom							
Form Type			BHST							
Job depth MD	476ft		Job Depth TVD							
Water Depth			Wk Ht Above Floor							
Perforation Depth (MD)	From		To							
Well Data										
Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing		9.625	8.921	36	STC	J-55	0	466		0
Open Hole Section			13.5				0	476		0
Casing		7	6.276	26	LTC	P-110	0	6850		
Open Hole Section			8.75				410	6850		
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	7			6850		Top Plug	7		HES	
Float Shoe	7					Bottom Plug	7		HES	
Float Collar	7					SSR plug set	7		HES	
Insert Float	7					Plug Container	7		HES	
Stage Tool	7					Centralizers	7		HES	
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 ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Mud Flush III (Powder)	Mud Flush III		0	bbl	8.4			6	
42 gal/bbl		FRESH WATER								

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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	Lead Cement	SWIFTCM (TM) SYSTEM		sack	13.5	1.75		6	9.23
9.23 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	Displacement	Displacement	0	bbl	8.33			6	
Cement Left In Pipe		Amount	42 ft		Reason		Shoe Joint		
Comment									

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	PS Pmp Stg Tot (bbl)	Comment
Event	1	Arrive at Location from Service Center	Arrive at Location from Service Center	4/28/2014	19:30:00	USER					
Event	2	Rig-Up Equipment	Rig-Up Equipment	4/29/2014	01:00:00	USER					
Event	3	Rig-Up Completed	Rig-Up Completed	4/29/2014	02:00:00	USER					
Event	4	Safety Meeting - Pre Job	Safety Meeting - Pre Job	4/29/2014	02:15:00	USER					WITH HES BAND RIG CREW
Event	5	Start Job	Start Job	4/29/2014	02:41:57	COM4	8.32	0.00	21.00	12.4	
Event	6	Test Lines	Test Lines	4/29/2014	02:44:10	COM4	8.32	0.00	41.00	13.4	TO 2500 PSI NO VISIBLE LEAKS
Event	7	Pump Spacer 1	Pump Spacer 1	4/29/2014	02:46:50	COM4	8.35	0.00	47.00	0.0	RIG WATER WITH DIE
Event	8	Pump Cement	Pump Cement	4/29/2014	02:55:44	COM4	8.34	3.20	79.00	20.8	60 BBL OF SWIFTCEM @13.5 PPG 1.75 YIELD/9.23 GAL/SK
Event	9	Shutdown	Shutdown	4/29/2014	03:21:01	COM4	13.71	0.00	20.00	63.9	
Event	10	Drop Top Plug	Drop Top Plug	4/29/2014	03:21:23	COM4	13.70	0.00	20.00	63.9	PRELOADED
Event	11	Pump Displacement	Pump Displacement	4/29/2014	03:21:28	COM4	13.67	0.00	19.00	63.9	RIG MUD @ 9.0 PPG WITH 23 BBL OF CEMENT TO SURFACE/148 PSI
Event	12	Bump Plug	Bump Plug	4/29/2014	03:38:22	COM4	8.68	0.00	277.00	33.6	495 PSI
Event	13	Other	Other	4/29/2014	03:57:37	COM4	8.78	0.00	1527.00	34.5	CASING TEST @ 1500 PSI /15 MIN
Event	14	End Job	End Job	4/29/2014	04:16:19	COM4	8.73	0.00	23.00	34.5	
Event	15	Rig-Down Equipment	Rig-Down Equipment	4/29/2014	04:20:00	USER					
Event	16	Return to Service Center from Job	Return to Service Center from Job	4/29/2014	05:15:00	USER					

