

# HALLIBURTON

iCem<sup>®</sup> Service

**BONANZA CREEK ENERGY**

Date: May 20, 2013

**Antelope A11-U41-33HNC Intermediate**

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 **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 #: 3363361	Quote #:	Sales Order #: 0901317836							
Customer: BONANZA CREEK ENERGY		Customer Rep: TIM JOEL								
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: 7522										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA/HX46524		Srvc Supervisor: Larry Lavalley								
Job										
Formation Name										
Formation Depth (MD)	Top	Bottom								
Form Type	BHST									
Job depth MD	8975ft	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			0	466	0	466
Casing		7	6.276	26		P-110	0	8675	0	6335
Open Hole Section			8.75				466	8675	466	6335
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make		
Guide Shoe	7			6840	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	24	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 ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
2	Lead Cement	ECONOCEM (TM) SYSTEM	530	sack	12.5	1.89	6	5	10.25
10.25 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	Tail Cement	EXPANDACEM (TM) SYSTEM	270	sack	14.6	1.45	6	5	6.05
6.05 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
4	Displacement	Displacement	260	bbl	8.33		8		
Cement Left In Pipe		Amount	42 ft		Reason			Shoe Joint	
Comment GOT 11 BBLs CEMENT BACK TO SURFACE									

Event	1	Call Out	Call Out	5/2/2014	15:30:00	USER				CREW CALLED
Event	2	Arrive at Location from Service Center	Arrive at Location from Service Center	5/2/2014	21:00:00	USER				
Event	3	Safety Meeting - Assessment of Location	Safety Meeting - Assessment of Location	5/2/2014	21:01:10	USER				
Event	4	Wait on Customer or Customer Sub-Contractor Equip - Start Time	Wait on Customer or Customer Sub-Contractor Equip - Start Time	5/2/2014	21:05:00	USER				STILL RUNNING CASING
Event	5	Wait on Customer or Customer Sub-Contractor Equipment - End Time	Wait on Customer or Customer Sub-Contractor Equipment - End Time	5/3/2014	00:30:00	USER	-0.11	13.00	0.00	DONE RUNNING CASING
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	5/3/2014	00:35:00	USER	-0.13	13.00	0.00	
Event	7	Safety Meeting - Pre Job	Safety Meeting - Pre Job	5/3/2014	00:45:00	USER	-0.09	13.00	0.00	WITH ALL 3RD PARTIES ON LOCATION
Event	8	Start Job	Start Job	5/3/2014	00:55:35	COM6	8.22	14.00	0.00	
Event	9	Test Lines	Test Lines	5/3/2014	01:05:39	COM6	8.32	3458.00	0.00	RIG WATER WITH NO ADDITIVES
Event	10	Pump Spacer1	Pump Spacer1	5/3/2014	01:08:50	COM6	8.29	113.00	2.20	RIG WATER WITH MUDFLUSH III ADDED
Event	11	Pump Lead Cement	Pump Lead Cement	5/3/2014	01:21:36	COM6	11.56	206.00	2.00	530 SKS ECONOCEM MIXED @ 12.5PPG YIELD 1.89FT3/SK AND 10.25GAL/SK
Event	12	Pump Tail Cement	Pump Tail Cement	5/3/2014	01:54:51	COM6	14.54	146.00	5.10	270 SKS EXPANDACEM MIXED @ 14.6PPG YIELD 1.45FT3/SK AND 6.05GAL/SK
Event	13	Shutdown	Shutdown	5/3/2014	02:15:57	COM6	14.08	-30.00	0.00	
Event	14	Drop Top Plug	Drop Top Plug	5/3/2014	02:16:07	COM6	14.13	-30.00	0.00	WASHED ON TOP OF

										PRELOADED HWE TOP PLUG
Event	15	Pump Displacement	Pump Displacement	5/3/2014	02:16:16	COM6	14.14	-30.00	0.00	DRILLING MUD SUPPLIED BY RIG @ 9.3PPG
Event	16	Bump Plug	Bump Plug	5/3/2014	03:08:09	COM6	7.92	2303.00	0.00	BUMPED PLUG AT 2500 PSI AND GOT 11 BBLS CEMENT BACK TO SURFACE
Event	17	Other	Other	5/3/2014	03:18:24	USER	7.84	2428.00	0.00	CHECKED FLOATS AND GOT 2 BBLS BACK
Event	18	Test Lines	Test Lines	5/3/2014	03:22:00	COM6	7.83	856.00	0.80	CASING TEST TO 2600 HELD FOR 15 MIN
Event	19	End Job	End Job	5/3/2014	03:37:50	COM6				

