

HALLIBURTON

iCem[®] Service

BONANZA CREEK ENERGY

Date: Tuesday, June 1, 2016

Antelope B11-V41-33HNC

Intermediate

Job Date: Monday, May 12, 2014

Sincerely,
Lauren Roberts

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Antelope B11-V41-33HNC** 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.

13 bbl. of cement returned to surface.

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 #: 3363351		Quote #:		Sales Order #: 0901339213				
Customer: BONANZA CREEK ENERGY				Customer Rep:						
Well Name: ANTELOPE		Well #: B11-V41-33 HNC		API/UWI #: 05-123-39065-00						
Field: WATTENBERG	City (SAP): KER	County/Parish: WELD		State: COLORADO						
Legal Description: SW NW-33-5N-62W-1471FNL-350FWL										
Contractor:		Rig/Platform Name/Num: CADE 26								
Job BOM: 7522										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HX45314		Srv Supervisor:								
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		6727ft		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	3	9.625	8.921	36			0	467		0
Casing	3	7	6.276	26		P-110	0	6727		0
Open Hole Section			8.75				467	6735	0	0
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	7	1		6727		Top Plug	7	1	HES	
Float Shoe	7	1				Bottom Plug	7	1	HES	
Float Collar	7	1				SSR plug set	7	1	HES	
Insert Float	7	1				Plug Container	7	1	HES	
Stage Tool	7	1				Centralizers	7	1	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 ³ /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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Cementing Job Summary

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	Lead Cement	ECONOCHEM (TM) SYSTEM	529	sack	12.5	1.89		10	10.25
10.25 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	Tail Cement	EXPANDACHEM (TM) SYSTEM	245	sack	14.6	1.45		10	6.05
6.05 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Displacement	Displacement	257	bbl	8.33				
Cement Left In Pipe		Amount	42 ft		Reason		Shoe Joint		
Comment									

2.0 Real-Time Job Summary

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1.6 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Downhole Density (ppg)	Pass-Side Pump Pressure (psi)	Pass-Side Pump Rate (bbl/min)	Comment
Event	1	Arrive at Location from Service Center	Arrive at Location from Service Center	5/11/2014	13:45:00	USER				
Event	2	Wait on Customer or Customer Sub-Contractor Equip - Start Time	Wait on Customer or Customer Sub-Contractor Equip - Start Time	5/11/2014	13:46:00	USER				Rig still running casing approx 30 stands
Event	3	Safety Meeting - Assessment of Location	Safety Meeting - Assessment of Location	5/11/2014	14:00:00	USER				Did site assessment
Event	4	Wait on Customer or Customer Sub-Contractor Equipment - End Time	Wait on Customer or Customer Sub-Contractor Equipment - End Time	5/11/2014	20:40:00	USER	-0.35	18.00	0.00	Landed casing
Event	5	Rig-Up Date/Time	Rig-Up Date/Time	5/11/2014	20:45:00	USER	-0.34	18.00	0.00	
Event	6	Pre-Job Safety Meeting	Pre-Job Safety Meeting	5/11/2014	21:00:00	USER	-0.33	18.00	0.00	
Event	7	Start Job	Start Job	5/11/2014	21:29:01	COM2	8.40	-2.00	0.00	Start Job
Event	8	Test Lines	Test Lines	5/11/2014	21:32:07	COM2	8.48	4304.00	0.00	Rig water no additives test to 4500PSI
Event	9	Pump Spacer 1	Pump Spacer 1	5/11/2014	21:34:51	COM2	8.27	129.00	2.00	24 BBLS of Mud Flush
Event	10	Pump Lead Cement	Pump Lead Cement	5/11/2014	21:44:58	COM2	8.97	239.00	2.40	178 BBLS of 12.5 PPG Lead Cement
Event	11	Pump Tail Cement	Pump Tail Cement	5/11/2014	22:17:51	COM2	13.98	117.00	5.00	63 BBLS of 14.6 Tail Cement
Event	12	Shutdown	Shutdown	5/11/2014	22:31:42	COM2	12.80	27.00	0.00	Shutdown
Event	13	Drop Top Plug	Drop Top Plug	5/11/2014	22:33:14	COM2	13.01	1.00	0.00	Pre loaded HWE plug
Event	14	Pump Displacement	Pump Displacement	5/11/2014	22:33:34	COM2	14.51	21.00	1.80	Pump 256 BBLS of mud and water mix 13bbls of cement to surface
Event	15	Bump Plug	Bump Plug	5/11/2014	23:20:29	COM2	8.09	2380.00	0.00	Final lift pressure 1773 held for 5 mins
Event	16	Other	Other	5/11/2014	23:34:07	COM2	8.16	2590.00	0.00	Casing test for 15 mins

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2500 PSI