

HALLIBURTON

iCem[®] Service

EXTRACTION OIL & GAS

United States of America, COLORADO

Date: Sunday, April 02, 2017

Kiteley #1

Production

Sincerely,

Justin Lansdale

Legal Notice

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Kiteley #1** cement **Production** 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 [Fort Lupton]

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 369404	Ship To #: 3770371	Quote #:	Sales Order #: 0903689739							
Customer: EXTRACTION OIL & GAS		Customer Rep: Hans Cary								
Well Name: KITELEY	Well #: 1	API/UWI #: 05-123-43918-00								
Field: WATTENBERG	City (SAP): LONGMONT	County/Parish: WELD	State: COLORADO							
Legal Description: NW SW-21-3N-68W-1527FSL-513FWL										
Contractor: CYCLONE		Rig/Platform Name/Num: CYCLONE 37								
Job BOM: 7523										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HX38199		Srvc Supervisor: Luke Kosakewich								
Job										
Formation Name										
Formation Depth (MD)	Top	0	Bottom 11638							
Form Type	BHST									
Job depth MD	11623ft	Job Depth TVD	7050							
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	1560	0	0
Casing		5.5	4.778	20			0	11623	0	0
Open Hole Section			8.5				1564	11638	1564	0
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make		
Guide Shoe	5.5				Top Plug	5.5	1	KLX		
Float Shoe	5.5	1	KLX	11623	Bottom Plug	5.5		HES		
Float Collar	5.5	2	KLX	11623	SSR plug set	5.5		HES		
Insert Float	5.5				Plug Container	5.5		HES		
Stage Tool	5.5				Centralizers	5.5		HES		
Fluid Data										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Spacer	Tuned Spacer III W/ Surfactants	50	bbl	11.5	3.74		5		
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	Lead W/O CBL	ELASTICEM	150	sack	13.2	1.57		6	7.48	

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Cementing Job Summary

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	Tail W/ CBL	ELASTICEM	1750	sack	13.2	1.57		8	7.49
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Displacement	Displacement	257	bbl	8.33			8	
Cement Left In Pipe		Amount	0 ft		Reason Wet Shoe			Shoe Joint	
Mix Water:		pH 7	Mix Water Chloride: 0 ppm			Mix Water Temperature: 65 °F °C			
Cement Temperature:		71 °F °C	Plug Displaced by: ## lb/gal kg/m3 XXXX			Disp. Temperature: ## °F °C			
Plug Bumped?		Yes	Bump Pressure: 3100 psi			Floats Held? Yes			
Cement Returns:		47 bbl	Returns Density: ## lb/gal kg/m3			Returns Temperature: ## °F °C			
Comment Pumped 5 bbl of water for a wet shoe. 50 bbls Tuned Spacer and 47 bbls Cement to surface.									

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comments
Event	38	Pump Lead Cement	Pump Lead Cement*	3/8/2017	13:31:47	RTD Import	Pump Lead Cement*
Event	44	Comment	Mud Cup Sample Pulled	3/8/2017	13:53:27	RTD Import	Mud Cup Sample Pulled
Event	45	Comment	Mud Cup Sample Pulled	3/8/2017	13:58:55	RTD Import	Mud Cup Sample Pulled
Event	65	Drop Top Plug	Drop Top Plug	3/8/2017	15:07:02	RTD Import	Drop Top Plug
Event	66	Pump Displacement	Pump Displacement*	3/8/2017	15:07:04	RTD Import	Pump Displacement*
Event	67	Shutdown	Shutdown	3/8/2017	15:07:08	RTD Import	Shutdown

2.2 Custom Graph

