

# HALLIBURTON

iCem<sup>®</sup> Service

## **EXTRACTION OIL & GAS**

United States of America

### **Kiteley 9**

Production

Job Date: Saturday, February 11, 2017

Sincerely,  
**Derek Trier**

## Legal Notice

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## 1.0 Cementing Job Summary

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### 1.1 Executive Summary

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Halliburton appreciates the opportunity to perform the cementing services on the **Kiteley 9** 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.

**Approximately, 58bbl 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]**

## HALLIBURTON

## Cementing Job Summary

### The Road to Excellence Starts with Safety

Sold To #: 369404		Ship To #: 3770129		Quote #:		Sales Order #: 0903830529				
Customer: EXTRACTION OIL & GAS				Customer Rep: Kalyn Holgate						
Well Name: KITELEY		Well #: 9		API/UWI #: 05-123-43922-00						
Field: WATTENBERG		City (SAP): MEAD		County/Parish: WELD		State: COLORADO				
Legal Description: NW SW-21-3N-68W-1369FSL-637FWL										
Contractor: CYCLONE				Rig/Platform Name/Num: CYCLONE 37						
Job BOM: 7523										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA/HX38199				Srv Supervisor: Vaughn Oteri						
<b>Job</b>										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		11693ft		Job Depth TVD						
Water Depth				Wk Ht Above Floor						
Perforation Depth (MD)		From		To						
<b>Well Data</b>										
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	1553	0	0
Casing		5.5	4.778	20			0	11679	0	0
Open Hole Section			8.5				1553	11693	0	7100
<b>Tools and Accessories</b>										
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			11679		Bottom Plug	5.5			
Float Collar	5.5			11674		SR plug set	5.5			
Insert Float	5.5					Plug Container	5.5	1	HES	
Stage Tool	5.5					Centralizers	5.5			
<b>Fluid Data</b>										
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	11.5 lb/gal Tuned Spacer III	Tuned Spacer III	50	bbl	11.5	3.74		6		
+										
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	ElastiCem W/O CBL	ELASTICEM (TM) SYSTEM	150	sack	13.2	1.57		6	7.48	

last updated on 3/22/2017 9:46:48 AM

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(v. 4.3.44)

Created: Thursday, March 02, 2017

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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	ElastiCem Tail	ELASTICEM (TM) SYSTEM	1800	sack	13.2	1.57		6	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	258	bbl	8.33			8	
Cement Left In Pipe		Amount	4 ft		Reason			Shoe Joint	
Comment 58bbl of cement back to surface									

## 2.0 Real-Time Job Summary

## 2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Comments
Event	1	Call Out	Call Out	2/11/2017	03:00:00	USER				Call out from Arc Hub
Event	2	Arrive At Loc	Arrive At Loc	2/11/2017	08:00:00	USER	-9.00	8.47	0.00	arrived on location met with company rep to discuss job process and concerns
Event	3	Start Job	Start Job	2/11/2017	08:09:45	COM4	0.00	8.47	0.00	Held pre-job safety meeting with all hands on location to discuss job process and hazards
Event	4	Other	Other	2/11/2017	08:10:10	USER	0.00	8.47	0.00	TD-11693 TP-11679 FC-11674 Surf-1553 Mud-10.0ppg Casing 5.5 20#
Event	5	Test Lines	Test Lines	2/11/2017	08:24:54	COM4	74.00	8.64	0.00	Pressure tested pumps and lines with fresh water 4770psi found no leaks and pressure held good
Event	6	Pump Spacer	Pump Spacer	2/11/2017	08:33:22	USER	192.00	11.46	3.30	Mixed 50bbl of 11.5ppg of Tuned spacer III at 4.0bpm
Event	7	Pump Lead Cement	Pump Lead Cement	2/11/2017	08:46:29	COM4	825.00	13.00	9.40	Mixed 1950sks or 545bbl of 13.2ppg Y-1.57 G/sk7.48 Elasticem at 8.0bpm 359psi
Event	8	Other	Other	2/11/2017	08:47:46	USER	97.00	-0.50	1.60	Lost comm to down hole
Event	9	Shutdown	Shutdown	2/11/2017	10:02:02	COM4	37.00	13.96	0.00	
Event	10	Clean Lines	Clean Lines	2/11/2017	10:04:32	COM4	5.00	14.33	0.00	Washed pumps and lines with fresh water
Event	11	Drop Top Plug	Drop Top Plug	2/11/2017	10:04:36	COM4	5.00	14.33	0.00	KLX tool hand released plug witnessed by company rep and HES supervisor
Event	12	Pump Displacement	Pump Displacement	2/11/2017	10:14:16	COM4	2.00	-0.28	0.00	Pumped 258bbl of fresh water to displace cement
Event	13	Bump Plug	Bump Plug	2/11/2017	10:45:31	COM4	2887.00	8.32	0.00	Bumped plug 500psi over final pump pressure
Event	14	Pressure Up Well	Pressure Up Well	2/11/2017	10:47:10	COM4	2349.00	8.30	4.70	Pressure up well to blow disc in plug and pump 5bbl into shoe
Event	15	Other	Other	2/11/2017	10:50:03	COM4	2008.00	8.29	0.00	Released pressure back to pump truck to check floats, 2.0bbl back

Event	16	Other	Other	2/11/2017	10:56:13	COM4	3.00	8.23	0.00	Pressure up on well and released pressure back to ensure floats are holding
Event	17	Other	Other	2/11/2017	11:15:51	COM4	1612.00	8.27	4.90	Pressure up on well and released pressure back to ensure floats are holding
Event	18	End Job	End Job	2/11/2017	11:31:47	COM4	108.00	8.25	0.00	58bbl of cement back to surface



3.0 Attachments

3.1 Case 1-Custom Results.png

