

# HALLIBURTON

iCem<sup>®</sup> Service

## **EXTRACTION OIL & GAS**

Date: Thursday, March 09, 2017

### **Kiteley #7**

Job Date: Sunday, February 19, 2017

Sincerely,

**Julia Nichols**

## 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 #7** 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 56 barrels of cement were 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 #: 369404	Ship To #: 3770361	Quote #:	Sales Order #: 0903853272
Customer: EXTRACTION OIL & GAS		Customer Rep: Jose Torres	
Well Name: KITELEY	Well #: 7	API/UWI #: 05-123-43919-00	
Field: WATTENBERG	City (SAP): LONGMONT	County/Parish: WELD	State: COLORADO
Legal Description: NW SW-21-3N-68W-1409FSL-606FWL			
Contractor: CYCLONE		Rig/Platform Name/Num: CYCLONE 37	
Job BOM: 7523			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA\HX38199		Srvc Supervisor: Michael Loughran	
Job			
Job depth MD	11608.35	Job Depth TVD	6930
Water Depth		Wk Ht Above Floor	5
Well Data			
Description	New / Used	Size in	ID in
Casing		9.625	8.921
Casing		5.5	4.778
Open Hole Section			8.5
Tools and Accessories			
Type	Size in	Qty	Make
Guide Shoe	5.5		
Float Shoe	5.5		11608.35
Float Collar	5.5		11605.05
Fluid #	Stage Type	Fluid Name	Qty
1	11.5 lb/gal Tuned Spacer III	Tuned Spacer III	50
Fluid Data			
Fluid #	Stage Type	Fluid Name	Qty
2	ElastiCem W/O CBL	ELASTICEM (TM) SYSTEM	150
7.48 Gal			
0.90 %			
FRESH WATER			
HR-5, 50 LB SK (100005050)			
Fluid #	Stage Type	Fluid Name	Qty
3	ElastiCem Tail	ELASTICEM (TM) SYSTEM	1750
7.49 Gal			
0.80 %			
FRESH WATER			
HR-5, 50 LB SK (100005050)			

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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
4	Displacement	Displacement	258	bbl	8.33			8	
Cement Left In Pipe		Amount	0			Reason		5 bbl wet shoe	
Mix Water:		pH 7	Mix Water Chloride: 0 ppm			Mix Water Temperature:		50 °F	
Comment									

## 2.0 Real-Time Job Summary

## 2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	DS Pump Press (psi)	Comments
Event	1	Call Out	Call Out	2/18/2017	19:20:00	USER				Callout for on loc. time 2400
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	2/18/2017	21:50:00	USER				Discuss route, Safe driving, start JM
Event	3	Crew Leave Yard	Crew Leave Yard	2/18/2017	22:10:00	USER				
Event	4	Arrive At Loc	Arrive At Loc	2/18/2017	22:45:00	USER				Meet with customer to discuss job. Rig running casing.
Event	5	Safety Meeting - Assessment of Location	Safety Meeting - Assessment of Location	2/18/2017	22:50:00	USER				hazard hunt, discuss where to spot trucks
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	2/18/2017	23:00:00	USER				JSAS safe rig up
Event	7	Rig-Up Equipment	Rig-Up Equipment	2/18/2017	23:10:00	USER				rig up all surface lines and iron to buffer zone
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	2/19/2017	01:15:00	USER	0.00	8.33	0.00	With all associated personnel. Discuss hazards of our equipment, iron, pressure. Rig lands casing at 2400 Hrs. Circulate 8 bbl/min. 800 psi. 9.3 ppg OBM, 38 VIS.
Event	9	Start Job	Start Job	2/19/2017	01:42:24	USER	0.00	8.34	7.00	
Event	10	Test Lines	Test Lines	2/19/2017	01:45:17	COM1	0.00	8.47	4636.00	HMS pressure test to 4500 PSI
Event	11	Pump Spacer 1	Pump Spacer 1	2/19/2017	01:48:51	COM1	2.20	11.46	94.00	Tuned Spacer III, 50 bbls, 11.5 ppg, 3.74 Yield, 23.7 Gal/Sk w/ 15 Gal Musol, 15 Gal Dual Spacer B, 20 Gal D-Air
Event	12	Check Weight	Check Weight	2/19/2017	01:59:42	COM1	0.00	11.41	-18.00	Lead cement 13.2 PPG
Event	13	Pump Lead Cement	Pump Lead Cement	2/19/2017	02:01:42	COM1	3.90	13.09	142.00	150 sacks ElastiCem, 41.94 BBLS, 13.2 PPG, 1.57 Yield, 7.48 Gal/Sk
Event	14	Pump Tail Cement	Pump Tail Cement	2/19/2017	02:07:20	COM1	7.00	13.20	486.00	1750 Sacks ElastiCem w/ Super CBL, 489.33 BBLS, 13.2 PPG, 1.57 Yield, 7.49 Gal/Sack
Event	15	Check Weight	Check Weight	2/19/2017	02:09:26	COM1	8.00	13.25	621.00	13.2 PPG Tail

Event	16	Shutdown	Shutdown	2/19/2017	03:17:22	COM1	0.00	13.07	119.00	To wash pumps and lines to wash up tank, Rig blows lines clean with air to wash up tank
Event	17	Drop Top Plug	Drop Top Plug	2/19/2017	03:23:33	COM1	2.80	11.09	-3.00	KLX drops Plug
Event	18	Pump Displacement	Pump Displacement	2/19/2017	03:29:44	COM1	1.70	8.47	-6.00	Fresh water displacement
Event	19	Other	Other	2/19/2017	03:54:08	COM1				Cement returns to surface @ 200 bbls into displacement. 56 bbls cement to surface
Event	20	Bump Plug	Bump Plug	2/19/2017	04:03:09	COM1	4.50	8.32	2458.00	pressure up @ 2 bbl min, Plug bursts at 3396 psi. , Pump 5 bbl wet shoe @ 5 bbl min.
Event	21	Check Floats	Check Floats	2/19/2017	04:06:58	USER	0.00	8.31	2014.00	Floats hold, 1.5 bbls back to pump truck
Event	22	End Job	End Job	2/19/2017	04:08:02	COM1				
Event	23	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	2/19/2017	04:10:00	USER				JSA safe rig down
Event	24	Rig Down Lines	Rig Down Lines	2/19/2017	04:15:00	USER				
Event	25	Crew Leave Location	Crew Leave Location	2/19/2017	05:20:00	USER				Start JM. Thanks for choosing Halliburton!



## 3.0 Attachments

### 3.1 Custom Results – Job Chart with Events



3.2 Custom Results – Job Chart without Events

