

HALLIBURTON

iCem[®] Service

EXTRACTION OIL & GAS

United States of America

Kiteley 2

Production

Job Date: Sunday, March 05, 2017

Sincerely,
Derek Trier

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Table of Contents

1.0 Cementing Job Summary 4

 1.1 Executive Summary4

2.0 Real-Time Job Summary 7

 2.1 Job Event Log7

3.0 Attachments..... 8

 3.1 Case 1-Custom Results.png.....8

1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Kiteley 2** 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, 50bbl 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 #: 369404	Ship To #: 3770376	Quote #:	Sales Order #: 0903888339							
Customer: EXTRACTION OIL & GAS		Customer Rep: Jose								
Well Name: KITELEY	Well #: 2	API/UWI #: 05-123-43925-00								
Field: WATTENBERG	City (SAP): LONGMONT	County/Parish: WELD	State: COLORADO							
Legal Description: NW SW-21-3N-68W-1507FSL-528FWL										
Contractor: CYCLONE		Rig/Platform Name/Num: CYCLONE 37								
Job BOM: 7523										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HX38199		Srvc Supervisor: Jefferson Bone								
Job										
Job depth MD	11700ft	Job Depth TVD	7180ft							
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	1564	0	1564
Casing		5.5	4.778	20			0	11660	0	0
Open Hole Section			8.5				1564	11700	1564	7180
Tools and Accessories										
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	11.5 lb/gal Tuned Spacer III	Tuned Spacer III	50	bbl	11.5	3.74		6		
0.50 gal/bbl		D-AIR 3000L, 5 GAL PAIL (101007444)								
0.30 gal/bbl		MUSOL A, 330 GAL TOTE - (790828)								
149.34 lbm/bbl		BARITE, BULK (100003681)								
35.40 gal/bbl		FRESH WATER								
0.30 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)								
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	ElastiCem W/O CBL	ELASTICEM (TM) SYSTEM	150	sack	13.2	1.57		6	7.48	
7.48 Gal		FRESH WATER								
0.90 %		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 ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	ElastiCem Tail	ELASTICEM (TM) SYSTEM	1750	sack	13.2	1.57		6	7.49
7.49 Gal		FRESH WATER							
0.80 %		HR-5, 50 LB SK (100005050)							
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	258	bbl	8.33			8	
Cement Left In Pipe		Amount	4 ft		Reason			Shoe Joint	
Plug Bumped?		Yes	Bump Pressure:		2300 psi		Floats Held?		Yes
Cement Returns:		50 bbls							
Comment									

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Comments
Event	1	Call Out	Call Out	3/5/2017	06:00:00	USER				Call Out
Event	2	Arrive at Location from Service Center	Arrive at Location from Service Center	3/5/2017	11:00:00	USER				Arrived on Location. Held pre rig up safety meeting prior to spotting equipment and rigging up.
Event	3	Start Job	Start Job	3/5/2017	15:43:43	COM4	-4.00	8.49	0.00	Start Job
Event	4	Test Lines	Test Lines	3/5/2017	16:01:42	COM4	22.00	8.39	0.00	Pressure Test to 5000 PSI
Event	5	Pump Spacer 1	Pump Spacer 1	3/5/2017	16:06:49	COM4	25.00	8.40	1.70	Pumped 50 bbls of 11.5ppg Tuned Spacer with Surfactants
Event	6	Pump Lead Cement	Pump Lead Cement	3/5/2017	16:20:06	COM4	94.00	12.64	4.00	Pumped 150 sks 42bbls of 13.2ppg 1.57y 7.48w Elasticem Cement
Event	7	Pump Tail Cement	Pump Tail Cement	3/5/2017	16:29:17	COM4	311.00	13.33	7.40	Pumped 1750 sks 489 bbls of 13.2ppg 1.57y 7.49w Elasticem cement
Event	8	Drop Top Plug	Drop Top Plug	3/6/2017	17:51:00	USER	-3.00	9.33	0.00	Dropped Top Plug
Event	9	Clean Lines	Clean Lines	3/6/2017	17:52:06	COM4	-2.00	9.09	1.70	Clean Lines
Event	10	Pump Displacement	Pump Displacement	3/6/2017	17:53:59	COM4	0.00	8.32	0.00	Pumped 258 bbls of H2O displacement. 50bbls of cement back to surface.
Event	11	Bump Plug	Bump Plug	3/6/2017	18:30:49	COM4	2886.00	8.41	0.00	Bumped plug @2300 PSI pressured up to 3000 psi
Event	12	Other	Burst Float	3/6/2017	18:30:59	COM4	2891.00	8.41	0.00	Burst Plug @3500 psi 2 bpm
Event	13	Other	Pumped Wet Shoe	3/6/2017	18:31:00	USER	2890.00	8.41	0.00	Pumped 5 BBLs of H2O @ 5 BPM
Event	14	Check Floats	Check Floats	3/6/2017	18:33:00	USER	1735.00	8.38	0.00	Check Floats 1.5 BBLs back
Event	15	End Job	End Job	3/6/2017	18:39:35	COM4	0.00	8.32	0.00	
Event	16	Depart Location	Depart Location	3/6/2017	20:00:00	USER				Depart Location. Held a pre rig down safety meeting prior to rigging down.

3.0 Attachments

3.1 Case 1-Custom Results.png

