

**HALLIBURTON**

*Cementing Job Summary*

The Road to Excellence Starts with Safety

Sold To #: 375970	Ship To #: 3805060	Quote #:	Sales Order #: 0904475890
Customer: FIFTH CREEK ENERGY OPERATING		Customer Rep: Tim Joel	
Well Name: CRITTER CREEK	Well #: 202-1807H	API/UWI #: 05-123-44935-00	
Field: UNDESIGNATED	City (SAP): KEOTA	County/Parish: WELD	State: COLORADO
Legal Description: 18-11N-63W-215FSL-828FWL			
Contractor: UNIT DRLG		Rig/Platform Name/Num: UNIT 406	
Job BOM: 7523 7523			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA\HX38199		Srvc Supervisor: Luke Kosakewich	
<b>Job</b>			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHST
Job depth MD	17965 ft		Job Depth TVD 7555ft
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	LTC	J-55	0	1540	0	1540
Casing		5.5	4.892	17	BTC	P-110	0	17700	0	7555
Open Hole Section			8.5				1540	17965	1540	7555

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe						Top Plug	5.5	1	Weatherford
Float Shoe	5.5			17700		Bottom Plug			
Float Collar	5.5			17651		SSR plug set			
Insert Float						Plug Container	5.5	1	HES
Stage Tool						Centralizers			

Fluid Data									
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/mi n	Total Mix Fluid Gal
1	11.5 lb/gal Tuned Spacer III	Tuned Spacer III	40	bbl	11.5	3.78		4	
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal

last updated on 12/29/2017 10:45:30 AM

Page 1 of 2

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2	Lead	ELASTICEM	1081	sack	13.2	1.57		8	7.53
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>
3	Tail	NeoCem TM	1209	sack	13.2	2.04		8	9.75
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>
4	MMCR Displacement	MMCR Displacement	40	bbl	8.48			8	
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>
5	Displacement		369	bbl	8.34			8	
<b>Cement Left In Pipe</b>		<b>Amount</b>	<b>Reason</b>		<b>Wet Shoe</b>				
		0 ft							
<p><b>Comment :</b> Lost circulation fully at approximately 170 bbls. into tail cement. There was an estimated 40 bbls. of spacer and 66 bbls. of lead cement in the annulus at the time of losing circulation. Did not bump the plug. Pumped 3 bbls. of fresh water ahead of the top plug and pumped 5 bbls. over 409.6 bbls. of calculated displacement for a wet shoe.</p>									