

HALLIBURTON

iCem[®] Service

HIGHPOINT RESOURCES CORP-EBUS

Date: Tuesday, December 04, 2018

Critter Creek 16-6302BE Intermediate

Job Date: Friday, November 16, 2018

Sincerely,
Tyler Hill

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 **Critter Creek 16-6302BE** cement **Intermediate** 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 10 bbls of spacer 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

The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 0003892252	Quote #: 0022514036	Sales Order #: 0905281062
Customer: HIGHPOINT RESOURCES CORP-EBUS		Customer Rep: Red Benge	
Well Name: CRITTER CREEK		Well #: 16-6302BE	API/UWI #: 05-123-47295-00
Field: HEREFORD	City (SAP): KEOTA	County/Parish: WELD	State: COLORADO
Legal Description: SW SW-16-11N-63W-575FSL-785FWL			
Contractor: CADE DRLG		Rig/Platform Name/Num: CADE 24	
Job BOM: 7522 7522			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA/H139013		Srvc Supervisor: Luke Kosakewich	

Job

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	7915ft		Job Depth TVD
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	1555	0	1555
Casing		7	6.366	23		J-55	0	7899	0	7412
Open Hole Section			8.75				1555	7915	0	7412

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe					Top Plug	7	1	Weatherford
Float Shoe	7	1		7899	Bottom Plug			
Float Collar	7	1		7853	SSR plug set			
Insert Float					Plug Container	7	1	HES
Stage Tool					Centralizers	7	10	

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	Mud Flush III (Powder)	Mud Flush III	40	bbl	8.4			5		

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	12.0 lb/gal Tuned Spacer III	Tuned Spacer III	40	bbl	12	3.16		6		
3	13.2# ElastiCem	ELASTICEM (TM) SYSTEM	790	sack	13.2	1.57		8	7.52	
4	Displacement fluid	Fresh Water	308.6	bbl	8.33			8		
Cement Left In Pipe		Amount	46 ft		Reason			Shoe Joint		
Mix Water:		pH 7	Mix Water Chloride:		0 ppm		Mix Water Temperature:		49 °F	
Plug Bumped?		No		Bump Pressure:		N/A		Floats Held?		Yes
<p>Comment There were full returns throughout the job. Did not bump the plug. Pumped calculated displacement and one bbl over. Total displacement pumped was 309 bbls. Circulated 40 bbls. of Mudfluh III and 10 bbls. Tuned Spacer III to surface. Bled off pressure to check floats. Floats held. Got 2 bbls. of fluid back to the truck. Estimated TOT is 1,010'.</p>										

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DS Pump Press <i>(psi)</i>	Comb Pump Rate <i>(bbl/min)</i>	DH Density <i>(ppg)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	Call Out	11/15/2018	18:30:00	USER					Crew was called out at 18:30 for an on location time of 00:00.
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	11/15/2018	19:45:00	USER					Crew held a pre journey safety meeting and JSA.
Event	3	Depart Shop for Location	Depart Shop for Location	11/15/2018	20:30:00	USER					Crew performed a site assessment, safety meeting and hazard hunt on location. Checked in with the customer and discussed the job procedures, rig up and well bore schematics. The rig was running casing
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	11/16/2018	00:15:00	USER					Crew performed a site assessment, safety meeting and hazard hunt on location. Checked in with the customer and discussed the job procedures, rig up and well bore schematics. The rig was running casing.
Event	5	Other	Other	11/16/2018	00:20:00	USER					Wellbore: MD: 7,915, TP: 7" 23 # CSG set at 7,899', FC: 7,853', TVD: 7,412', OH 8.75, SC: 9.625" 36 # CSG set at 1,555'. Mud# 10 ppg. Water test: PH: 7.0, Chlorides: 0, Temp 48 degrees.
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	11/16/2018	00:45:00	USER					Held a pre rig up safety meeting with my crew.

Event	7	Rig-Up Equipment	Rig-Up Equipment	11/16/2018	01:00:00	USER						The crew rigged up all lines, hoses and equipment for the job.
Event	8	Safety Meeting	Safety Meeting	11/16/2018	04:00:00	USER	-1.00	0.00	0.33	0.00		Halliburton cement crew held a pre cement job safety meeting and JSA with third party personnel and rig crew.
Event	9	Start Job	Start Job	11/16/2018	04:39:31	COM5	3.00	0.00	8.46	18.80		Pumped 3 bbls. of fresh water at 3 bpm. to fill lines and establish circulation.
Event	10	Test Lines	Test Lines	11/16/2018	04:45:11	COM5	4450.00	0.00	8.43	21.10		Pressure tested lines to 4,500 psi. with a 500 psi. electronic kick out test.
Event	11	Pump Spacer 1	Pump Spacer 1	11/16/2018	04:48:42	COM5	514.00	4.00	8.42	0.00		Pumped 40 bbls. of Mud Flush III.
Event	12	Pump Spacer 2	Pump Spacer 2	11/16/2018	05:01:56	COM5	279.00	2.00	8.41	0.00		Pumped 40 bbls. of Tuned Spacer III with surfactants mixed at 12 ppg., Yield: 3.16 ft3/sks, 20 gal/sks. Density was verified by pressurized scales.
Event	13	Pump Lead Cement	Pump Lead Cement	11/16/2018	05:09:19	COM5	455.00	4.30	12.52	0.00		Pumped 221 bbls. (790 sks.) of Elasticem mixed at 13.2 ppg., Yield: 1.57 ft3/sks, 7.52 gal/sks. Density was verified by pressurized scales.
Event	14	Shutdown	Shutdown	11/16/2018	05:50:31	COM5						Washed up on top of the plug
Event	15	Drop Top Plug	Drop Top Plug	11/16/2018	05:50:42	COM5						Halliburton dropped the top plug, which was witnessed by the customer.
Event	16	Pump Displacement	Pump Displacement	11/16/2018	05:51:33	COM5	18.00	0.00	16.43	0.00		Pumped 308.6 bbls. of fresh water for displacement. First 10 bbls. washed up on top of the

Event	ID	Description	Category	Date	Time	User	Cost	Revenue	Profit	Loss	Net	Notes
Event	17	Shutdown	Shutdown	11/16/2018	07:02:05	COM5	2124.00	0.00	8.11	330.50		plug. Did not bump the plug. Shutdown after pumping 309 bbls. We circulated 40 bbls. of Mud Flush III and 9 bbls. of Spacer to surface. Estimated TOC is 1,010'.
Event	18	Check Floats	Check Floats	11/16/2018	07:06:41	USER	1878.00	0.00	8.09	330.50		Bled off pressure to check floats. Floats held. Got 2 bbls. of fluid back to the truck.
Event	19	End Job	End Job	11/16/2018	07:23:12	COM5	14.00	0.00	-0.04	0.00		Washed and blew down all lines until clean and dry.
Event	20	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	11/16/2018	07:30:00	USER	11.00	0.00	-0.11	0.00		Halliburton cement crew held a pre rig down safety meeting and JSA.
Event	21	Rig-Down Equipment	Rig-Down Equipment	11/16/2018	07:40:00	USER						Rigged down all lines, hoses and equipment.
Event	22	Safety Meeting - Departing Location	Safety Meeting - Departing Location	11/16/2018	08:50:00	USER						Held a pre journey safety meeting with the crew.
Event	23	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	11/16/2018	09:00:00	USER						Started journey management with dispatch and left location.

3.0 Attachments

3.1 Critter Creek 16-6302BE Intermediate.png

