

HALLIBURTON

iCem[®] Service

HIGHPOINT RESOURCES CORP-EBUS

United States of America, COLORADO

For: Red Benge

Date: Tuesday, October 16, 2018

Critter Creek 15-6302D

WELD,

Job Date: Tuesday, October 16, 2018

Sincerely,

Luke Kosakewich and Crew

Legal Notice

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The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #:	Quote #:	Sales Order #: 0905208483
Customer: HIGHPOINT RESOURCES CORP-EBUS		Customer Rep: Red Benge	
Well Name: CRITTER CREEK	Well #: 15-6302D	API/UWI #: 05-123-47299	
Field:	City (SAP): HEREFORD	County/Parish: WELD	State: COLORADO

Legal Description:	
Contractor: CADE DRLG	Rig/Platform Name/Num: CADE 24
Job BOM: 7525	
Well Type: HORIZONTAL OIL	
Sales Person:	Srvc Supervisor: Luke Kosakewich

Job

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	17967 ft Job Depth TVD 7533ft
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
Drill Pipe		4	2.625	28			1277	7642	1277	
Drill Pipe		4	3.34	14			0	1277	0	
Casing		7	6.276	26			0	7971	0	
Casing		4.5	4	11.6			7598	17960	7533	
Open Hole Section			6.125				7970	17967	7533	

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe					Top Plug	4.5	1	Weatherford
Float Shoe	4.5	1	Weatherford	18010	Bottom Plug			
Wet Shoe Sub	4.5	1	Weatherford	17951	SSR plug set			
Insert Float					Plug Container			
Stage Tool					Centralizers			

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	20	bbl	8.4			4		
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	20	bbl	12	3.21		4		
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
3	13.2# NeoCem	NeoCem TM	545	sack	13.2	2.04		6	9.74	
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
4	Displacement fluid	Fresh Water W MMCR first 10 bbls. Anhib II and Oxygen throughout.	215	bbl	8.33			5		
Cement Left In Pipe		Amount	0 ft		Reason			Wet Shoe		
Mix Water:		pH 7	Mix Water Chloride:		0 ppm		Mix Water Temperature:			64 °F
Plug Bumped?		Yes	Bump Pressure:		1,100 psi		Floats Held?			Yes
<p>Comment There were full returns throughout the job. Pumped 5 bbls. of MMCR water ahead of the top plug for a wet shoe. We bumped the plug 1,200 psi. over 1,400 psi. Finale pressure was 2,600 psi. Bled off pressure to check floats. Floats held. Got 2 bbls. of fluid back to the truck. Pressured up to 3,950 psi. to shift the sleeve. Pumped 2bbls. of fresh water for a wet shoe. The rig set the packer. We tested the back side to 2,000 psi. for a minute. We circulated 160 bbls. of Mud, 10 bbls. of Mud Flush III, followed by 30 bbls. of fresh water when cleaning out the 7". There was no cement to surface. Estimated TOC is 9,371 and TOS: 8,181'.</p>										

Summary Report

Crew: _____
Job Start Date: 09/19/2018 02:30 PM

Sales Order #: 0905145607
WO #: 0905145607
PO #: NA
AFE #:

Customer:	HIGHPOINT RESOURCES CORP- EBUS	Field:	HEREFORD	Job Type:	CMT PRODUCTION LINER BOM
UWI / API Number:	05-123-47304-00	County/Parish:	WELD	Service Supervisor:	Luke Kosakewich
Well Name:	CRITTER CREEK	State:	COLORADO	Cust Rep Name:	Red Bengé
Well No:	15-6203D	Latitude:	40.916240	Cust Rep Phone #:	
		Longitude:	-104.424433		
		Sect / Twn / Rng:	15/11/63		

Remarks:		
<i>The Information Stated Herein Is Correct</i>	Customer Representative Signature	Date
	Customer Representative Printed Name	

1.0 Real-Time Job Summary

1.1 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	10/16/2018	07:30:00	USER					Crew was called out at 07:30 for an on location time of 13:30.
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	10/16/2018	10:15:00	USER					Crew held a pre journey safety meeting and JSA.
Event	3	Depart Shop for Location	Depart Shop for Location	10/16/2018	10:25:00	USER					Started journey management with dispatch and left location.
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	10/16/2018	12:30:00	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 on bottom filling pipe getting ready to circulate.
Event	5	Other	Other	10/16/2018	12:35:00	USER					Well bore: MD: 17,967', DP: 1,277 '4" 14#, HW: 6,378' of 4" 29#, Liner: 4.5 "11.6# casing set at 17,960', WSS: 17,905', Top of Liner: 7,642', Liner Length 10,262', INTC: 7" 23# casing set at 7,970', TVD: 7,533', OH: 6.125", Water test: PH: 7, Chlorides: 0, Temp: 60 degrees.
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	10/16/2018	12:45:00	USER					The crew held a pre rig up safety meeting and JSA.

Event	7	Rig-Up Equipment	Rig-Up Equipment	10/16/2018	12:50:00	USER						The crew rigged up all lines, hoses and equipment for the job.
Event	8	Safety Meeting	Safety Meeting	10/16/2018	14:20:00	USER	16.00	0.00	8.39	4.70		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	10/16/2018	14:39:57	COM5	13.00	0.00	8.38	4.70		Pumped 3 bbls. of fresh water at 3 bpm. to fill lines and establish circulation.
Event	10	Test Lines	Test Lines	10/16/2018	14:46:15	COM5	90.00	0.00	8.71	6.60		Pressure tested lines to 6,500 psi. with a 500 psi. electronic kick out test.
Event	11	Pump Spacer 1	Pump Spacer 1	10/16/2018	14:53:11	COM5	133.00	0.00	8.68	0.00		Pumped 20 bbls. of Mud Flush III.
Event	12	Pump Spacer 2	Pump Spacer 2	10/16/2018	15:00:56	COM5	168.00	0.00	8.56	0.00		Pumped 20 bbls. of Tuned Spacer III mixed at 12 ppg. Yield 3.21 ft3/sk, 20.1 gal/sk. Density was verified by pressurized scales.
Event	13	Shutdown	Shutdown	10/16/2018	15:09:21	USER	957.00	4.10	11.82	18.00		Batched up and weighed cement.
Event	14	Pump Cement	Pump Cement	10/16/2018	15:15:11	COM5	-1.00	0.00	11.24	0.00		Pumped 198 bbls. (545 sks.) of Neocem mixed at 13.2 ppg. Yield: 2.04 ft3/sks, 9.74 gal/sks. Density was verified by pressurized scales.
Event	15	Pump Water	Pump Water	10/16/2018	15:54:10	USER	-13.00	0.00	0.28	200.90		Pumped 5 bbls. of fresh water with MMCR. ahead of the dart.
Event	16	Shutdown	Shutdown	10/16/2018	15:55:15	USER	26.00	2.70	8.13	203.50		Broke off the iron to load the dart. The customer witnessed the Loading of the dart into the drill pipe.

Event	17	Clean Lines	Clean Lines	10/16/2018	15:59:54	USER	-21.00	0.00	7.97	204.20	Washed up pumps and lines until clean.
Event	18	Drop Top Plug	Drop Top Plug	10/16/2018	16:09:50	COM5	-19.00	0.00	8.06	225.80	Dropped the top latch down dart.
Event	19	Pump Displacement	Pump Displacement	10/16/2018	16:09:56	COM5	-19.00	0.00	8.06	225.80	Pumped 215 bbls. of fresh water with MMCR in the first 20 bbls. Anhib II and Oxygen were added throughout the rest of displacement.
Event	20	Other	Other	10/16/2018	16:22:54	USER	1390.00	3.50	8.12	52.00	Picked up the wiper plug 55 bbls. into displacement.
Event	21	Bump Plug	Bump Plug	10/16/2018	16:50:48	COM5	1332.00	3.50	8.13	206.40	Bumped the plug 1,200 psi. over 1,400 psi. at 3 bpm. Finla pressure was 2,600 psi.
Event	22	Check Floats	Check Floats	10/16/2018	16:53:14	USER	2586.00	0.00	8.18	207.70	Bled off pressure to check floats. Floats held. Got 2 bbls. of fluid back to the truck.
Event	23	Pressure Up Well	Pressure Up Well	10/16/2018	16:54:54	USER	22.00	0.00	8.13	207.80	Pressured up the well to 3,950 psi. to shift the sleeve.
Event	24	Pump Water	Pump Water	10/16/2018	16:56:33	USER	2515.00	4.30	8.24	3.50	Pumped 2 bbls. of fresh water for a wet shoe.
Event	25	Other	Other	10/16/2018	16:57:26	USER	572.00	0.00	8.14	5.50	The rig set the packer.
Event	26	Pressure Up Annulus	Pressure Up Annulus	10/16/2018	17:06:19	USER	85.00	0.90	8.10	3.50	Pressured up the back side to 2,000 psi. to test the packer. The Back side held pressure.

Event	27	Clean Hole	Clean Hole	10/16/2018	17:09:32	USER	271.00	0.00	8.17	4.90	Pumped 200 bbls. of fresh water to clean the 7" casing. Circulated 160 bbls. of mud, 10 bbls. of Mud Flush III followed by 30 bbls. of fresh water. Estimated TOC: 9,371' and TOS 8,181'.
Event	28	Shutdown	Shutdown	10/16/2018	17:36:35	USER	62.00	3.20	2.52	215.20	
Event	29	End Job	End Job	10/16/2018	17:43:31	COM5	-18.00	0.00	-0.37	215.60	Washed and blew down all pumps and lines until clean and dry.
Event	30	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	10/16/2018	17:50:00	USER	-16.00	0.00	-0.37	215.60	Halliburton cement crew held a pre rig down safety meeting and JSA.
Event	31	Rig-Down Equipment	Rig-Down Equipment	10/16/2018	17:55:00	USER					Rigged down all lines, hoses and equipment.
Event	32	Safety Meeting - Departing Location	Safety Meeting - Departing Location	10/16/2018	18:55:00	USER					Held a pre journey safety meeting with the crew.
Event	33	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	10/16/2018	19:00:00	USER					Started journey management with dispatch and left location.

2.0 Attachments

2.1 Case 1-Custom Results.png

