

HALLIBURTON

iCem® Service

HIGHPOINT RESOURCES CORP-EBUS

United States of America, COLORADO

For: Damien Hunter

Date: Saturday, September 29, 2018

WELD

Highpoint Resources Critter Creek 15-6302B

Job Date: Saturday, September 29, 2018

SO# 905161749

Sincerely,

Prince Perez

Legal Notice

Disclaimer:

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The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 3892281	Quote #:	Sales Order #: 0905161749
Customer: HIGHPOINT RESOURCES CORP-EBUS	Customer Rep: Damien Hunter		
Well Name: CRITTER CREEK	Well #: 15-6302B	API/UWI #: 05-123-47303-00	
Field: HEREFORD	City (SAP): HEREFORD	County/Parish: WELD	State: COLORADO
Legal Description: SW SW-15-11N-63W-400FSL-1130FWL			
Contractor: CADE DRLG	Rig/Platform Name/Num: CADE 24		
Job BOM: 7525 7525			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA/H139013	Srvc Supervisor: Prince Perez		
Job			

Formation Depth (MD)	Top	0'	Bottom	17,784'
Job depth MD	17,780'		Job Depth TVD	7,375'
			Wk Ht Above Floor	15'

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	3.34	14			0	7296	0	
Casing		7	6.276	26			0	7770	0	
Casing		4.5	4	11.6			7296	17780	7296	
Open Hole Section			6.125				7770	17784		

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	4.5			17,780		Top Plug	4.5	1	
						Bottom Plug	4.5	1	
Float Collar	4.5			17,722					
						Centralizers	4.5	187	STMA

Fluid Data									
Stage/Plug #: 1									
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
1	Spacer 1	Mud Flush III	20	bbl	8.4			2	
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
2	Spacer	Tuned Spacer III	20	bbl	11.5	3.86	24.8	3	722

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
3	Cement	NeoCem TM	540	sack	13.2	2.04	9.74	5	5,260

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	Fresh Water	214	bbl	8.34			4	

Cement Left In Pipe	Amount	58 ft	Reason	Shoe Joint	
Mix Water:	<300 pH	Mix Water Chloride:	7 ppm	Mix Water Temperature:	56 °F
Cement Temperature:	## °F	Plug Displaced by:	8.34 lb/gal	Disp. Temperature:	56 °F
Plug Bumped?	Yes/No	Bump Pressure:	#### psi	Floats Held?	Yes/No
Cement Returns:	17 bbls	Returns Density:	8.8 lb/gal	Returns Temperature:	68 °F

Comment
Pumped 20 bbls of Mud Flush.
Pumped 20 bbls of Tuned Spacer III.
Pumped 196.19 bbls of NeoCem.
Pumped 213.7 bbls of Displacement with MMCR in the first 20 bbls and 10 gallons of Anhib II and 50 lbs of Oxygen throughout.
Pumped 194 bbls of fresh water to circulate out.
1.5 bbls back on the floats.
1 bbl of cement back.

Summary Report

Crew: _____
Job Start Date: 09/28/2018 10:00 PM

Sales Order #: 0905161749
WO #: 0905161749
PO #: NA
AFE #: 20198D

Customer:	HIGHPOINT RESOURCES CORP- EBUS	Field:	HEREFORD	Job Type:	CMT PRODUCTION LINER BOM
UWI / API Number:	05-123-47303-00	County/Parish:	WELD	Service Supervisor:	Prince Perez
Well Name:	CRITTER CREEK	State:	COLORADO		
Well No:	15-6302B	Latitude:	40.916242	Cust Rep Name:	Damien Hunter
		Longitude:	-104.424378	Cust Rep Phone #:	
		Sect / Twn / Rng:	15/11/63		

Remarks:

The Information Stated Herein Is Correct	Customer Representative Signature	Date
	Customer Representative Printed Name	

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Customer: HIGHPOINT RESOURCES CORP-EBUS
 Job: Highpoint Resources Citter Creek 15-63028
 Case: Highpoint Resources Citter Creek 15-63028 | SO#: 905161749

1.0 Real-Time Job Summary

1.1 Job Event Log											
Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Sfg Tot (bbl)	Comments
Event	1	Call Out	Call Out	9/28/2018	09:30:00	USER					CREW CALLED OUT AT 9:30, REQUESTED ON LOCATION 19:00. CREW PICKED UP CEMENT, CHEMICALS, FROM FT. LUPTON, CO. BULK 660 11527037, 10867531, 10248062, PUMP 11189145.
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	9/28/2018	15:20:00	USER					DISCUSSED ROUTES, HAZARDS, AND COMMUNICATION WITH CREW.
Event	3	Crew Leave Shop	Crew Leave Shop	9/28/2018	15:30:00	USER					STARTED JOURNEY MANAGEMENT.
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	9/28/2018	17:30:00	USER					END JOURNEY MANAGEMENT. MET WITH COMPANY MAN AND TOOL HAND TO DISCUSS JOB DETAILS. TD-17.784', TP-17.780', LINER CASING-7.296.21', 11.6 LB/FT 4.5" P-110, 4" 28# HWD P-6.497.5', 4" 15.5# DP-798.71', PC-7.770' 7" 23 LB/FT, TOL DPIN SET @ 6.510.9', WF-- 8.8 LB/GAL

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Event 5	Safety Meeting - Assessment of Location	Safety Meeting - Assessment of Location	9/28/2018	17:40:00	USER	HAZARD HUNT. DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH LOCATION, RIG UP AND WEATHER.			
Event 6	Rig-Up Equipment	Rig-Up Equipment	9/28/2018	17:50:00	USER	RIG UP BULK AND MIXING EQUIPMENT.			
Event 7	Rig-Up Completed	Rig-Up Completed	9/28/2018	19:50:00	USER	MEETING WITH HALLIBURTON AND RIG PERSONNEL. COMMUNICATED POTENTIAL SAFETY HAZARDS AND JOB DETAILS.			
Event 8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	9/28/2018	21:30:00	USER	BEGIN RECORDING JOB DATA.			
Event 9	Start Job	Start Job	9/28/2018	22:23:10	COM4	PRESSURE TESTED IRON TO 6,500 PSI. KICKOUTS SET @ 500 PSI, KICKED OUT @ 627 PSI, 5TH GEAR STALL OUT @ 1,819 PSI. KICKOUTS SET @ 6,500 PSI, KICKED OUT @ 6,481 PSI.			
Event 10	Test Lines	Test Lines	9/28/2018	22:32:23	COM4	PUMPED 20 BBLs OF MUD FLUSH @ 8.4 LBS/GAL. HOME CALCULATED @ 840.3', TOMF CALCULATED 3,569.8' DPIN. PUMP RATE @ 2 BBLs/MIN @ 500 PSI			
Event 11	Pump Spacer 1	Pump Spacer 1	9/28/2018	22:38:15	COM4	8.4 2 500 20			

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Event	12	Pump Spacer 2	Pump Spacer 2	9/28/2018	22:48:04	COM4	11.5	3	235.00	20
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PUMP 20 BBLs OF TUNED SPACER @ 11.5 LB/GAL, 3.86 FT3/SK, 24.8 GAL/SK. HOS DPIN CALCULATED @ 2100.8' TOS DPIN CALCULATED @ 4410.1 DENSITY VERIFIED BY PRESSURIZED MUD SCALES. PUMP RATE 3 BBLs/MIN @ 500 PSI.

Event	13	Pump Lead Cement	Pump Lead Cement	9/28/2018	22:57:08	COM4	13.2	5	800	196.19
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PUMP 540 SKS OF NEOCEM @ 13.2 LB/GAL, 2.04 FT3/SK, 9.74 GAL/SK, 196.19 BBLs, DENSITY VERIFIED BY PRESSURIZED MUD SCALES, TOC CALCULATED @ 6,510.9'. PUMP RATE 5 BBLs/MIN @ 800 PSI.

Event	14	Check Weight	Check Weight	9/28/2018	23:01:09	COM4	13.26	3.00	199.00	12.10
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Event	15	Shutdown	Shutdown	9/28/2018	23:45:55	COM4				
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SHUTDOWN TO DROP DART/CLEAN LINES.

Event	16	Drop Top Plug	Drop Top Plug	9/29/2018	00:06:39	COM4				
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DART LOADED BY TOOL HAND.

Event	17	Pump Displacement	Pump Displacement	9/29/2018	00:06:45	COM4	8.34	4	1,650	213.7
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BEGIN DISPLACEMENT WITH 213.7 BBLs OF FRESH WATER. MIMCR IN THE FIRST 20 BBLs OF DISPLACEMENT. 10 GALLONS OF ANHIB II AND 50 LBS OF OXYGEN THROUGHOUT. PUMP RATE 4 BPM @ 1,650 PSI.

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Event	18	Bump Plug	Bump Plug	9/29/2018	01:10:17	COM4	1579.00	PLUG BUMPED AT CALCULATED DISPLACEMENT @1,000 PSI. PRESSURED 500 PSI OVER FINAL CIRCULATING PRESSURE.
Event	19	Pressure Up Annulus	Pressure Up Annulus	9/29/2018	01:17:31	USER	3447.00	PRESSURED UP THE BACKSIDE THROUGH THE CHOKE @ 3,447 PSI.
Event	20	Pressure Up Well	Pressure Up Well	9/29/2018	01:28:40	COM4	2176.00	HELD PRESSURE @ 2,160 PSI.
Event	21	Shift Tool - Lower	Shift Tool - Lower	9/29/2018	01:42:37	USER		SHEARED @ 5,280 PSI.
Event	22	Check Floats	Check Floats	9/29/2018	01:43:54	USER		RELEASED PRESSURE, FLOATS HELD, 1 BBLS BACK.
Event	23	Circulate Well	Circulate Well	9/29/2018	01:50:16	COM4		CIRCULATED WELL WITH FRESH WATER TO CLEAN CEMENT AND SPACER FROM TOP OF HANGER. CIRCULATED 20 BBLS OF MUD FLUSH, 20 BBLS OF TUNED SPACER III & 1 BBLS OF CEMENT OFF LINER.
Event	24	End Job	End Job	9/29/2018	02:29:04	COM4		STOP RECORDING JOB DATA.
Event	25	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	9/29/2018	02:40:00	USER		DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH WEATHER, LOCATION AND RIGGING DOWN IRON AND HOSES.
Event	26	Rig-Down Equipment	Rig-Down Equipment	9/29/2018	02:50:00	USER		RIG DOWN BULK AND MIXING EQUIPMENT.
Event	27	Rig-Down Completed	Rig-Down Completed	9/29/2018	03:20:00	USER		

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DISCUSSED ROUTES, HAZARDS, AND COMMUNICATION WITH CREW.		Event	28	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	9/29/2018	03:30:00	USER	
THANK YOU FOR USING HALLIBURTON – PRINCE A PEREZ AND CREW.		Event	29	Crew Leave Location	Crew Leave Location	9/29/2018	04:00:00	USER	

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2.0 Attachments

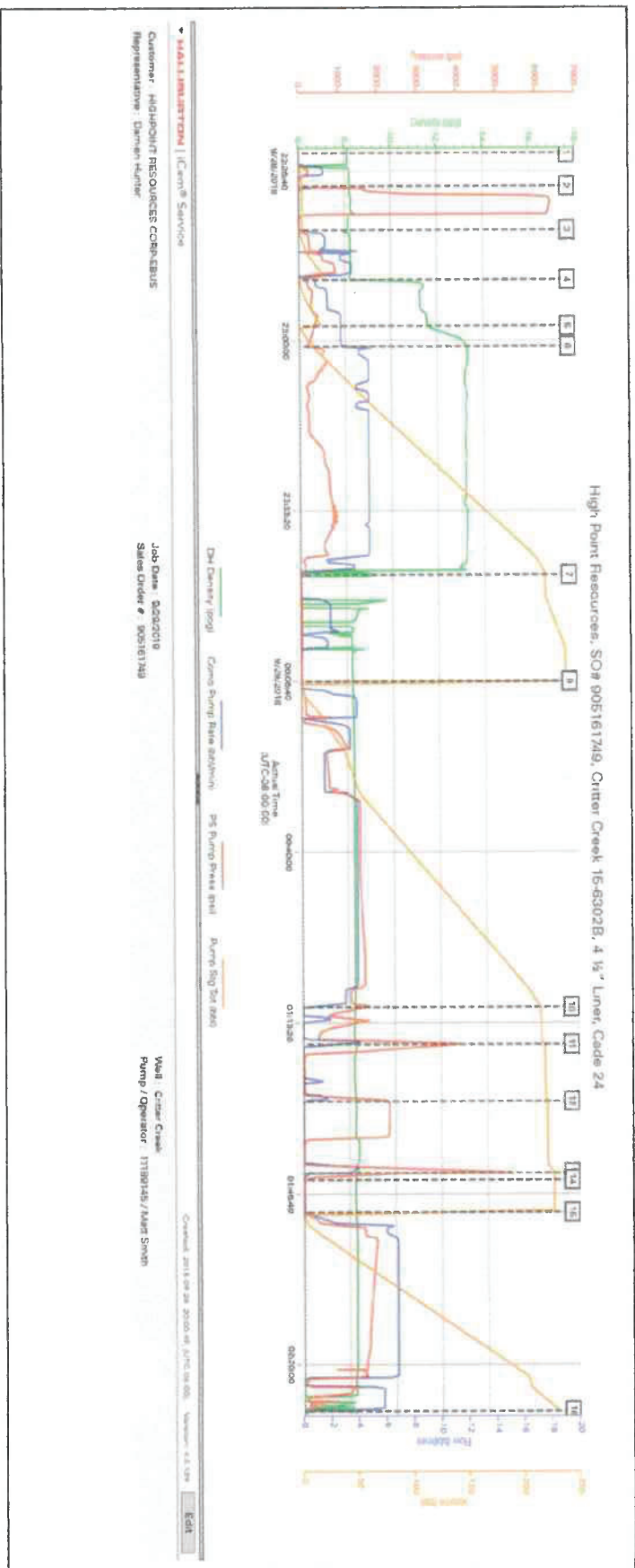
2.1 Highpoint Resources Critter Creek 15-6302B-Custom Results (3).png

Description	Actual Time (UTC-06:00:00)	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Sig Tot (bbl)
1 Start Job	22:23:10	8.14	0.00	-3.00	0.00
2 Test Lines	22:32:23	8.80	0.00	6388.00	3.20
3 Pump Spacer 1	22:38:15	8.16	0.00	1.00	0.00
4 Pump Spacer 2	22:46:04	8.21	1.20	235.00	0.80
5 Pump Lead Cement	22:57:08	11.59	3.00	3998.00	0.00
6 Check Weight	23:01:09	18.26	3.00	199.00	12.10
7 Shutdown	23:45:55	9.20	0.00	11.00	221.10
8 Drop Top Plug	00:06:39	8.24	0.00	5.00	239.10
9 Pump Displacement	00:06:45	8.23	0.00	5.00	239.10
10 Pump Plug	01:10:17	8.29	0.00	1579.00	214.30
11 Pressure Up Annulus	01:17:31	8.16	0.00	3447.00	218.40
12 Pressure Up Well	01:26:40	8.31	0.00	2176.00	220.80
13 Shift Tool - Lower	01:42:37	8.44	0.00	2516.00	227.00
14 Check Floats	01:43:54	8.27	0.00	23.00	227.00
15 Circulate Well	01:50:16	8.27	0.00	19.00	0.00
16 End Job	02:29:04	8.08	0.00	68.00	230.00

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2.2 Highpoint Resources Critter Creek 15-6302B-Custom Results (1).png



2.3 Highpoint Resources Critter Creek 15-6302B-Custom Results (2).png



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(v. 4.5.139)

Created: Saturday, September 29, 2018