

25-00033 ✓

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State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47-25-00033 County Greenbrier District Falling Springs
Quad Fork Mountain Pad Name PCSF Field/Pool Name _____
Farm name Plum Creek South Fork Well Number PCSF 2-3H
Operator (as registered with the OOG) BRC Operating Company, LLC
Address 200 Crescent Court, Suite 200 City Dallas State TX Zip 75201

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 38 12' 10.65" Easting -80 26' 52.91"
Landing Point of Curve Northing N/A Easting N/A
Bottom Hole Northing N/A Easting N/A

Elevation (ft) 3,654 ft. GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other Asphalt Drilling Mud
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)

Date permit issued 12/30/2010 Date drilling commenced 8/6/2011 Date drilling ceased 8/13/2011
Date completion activities began N/A Date completion activities ceased 6/11/2013
Verbal plugging (Y/N) Y Date permission granted 6/9/2013 Granted by Gary Kennedy

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft N/A, Not reached Open mine(s) (Y/N) depths N/A
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N/A
Coal depth(s) ft N/A, Not reached Cavern(s) encountered (Y/N) depths N/A
Is coal being mined in area (Y/N) N

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Reviewed by: _____

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CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/l	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	24"	20	130'	New	X-35		Y
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							
Packer type and depth set							

Comment Details Drilling operation suspended following conductor installation. BJ SurfLite surface cement used, cement to surface.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	BJ SurfLite				207	130	
Surface	Fibrolite Surface w/2% Chex 0 Cementite				283	130	
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) 130 Loggers TD (ft) Records not made
 Deepest formation penetrated Pennsylvanian Geological System Plug back to (ft) N/A
 Plug back procedure N/A
 Kick off depth (ft) N/A

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING N/A

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	N/A				

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
	N/A							

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Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS	
	TVD	MD
N/A		

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump
 SHUT-IN PRESSURE Surface N/A psi Bottom Hole _____ psi DURATION OF TEST _____ hrs
 OPEN FLOW Gas N/A mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	0		0		
	0		0		Not recorded
Sand and Shale	0	130			Shale

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Please insert additional pages as applicable.

Drilling Contractor Baker Hughes
 Address 837 Phillipi Pike City Clarksville State WV Zip 26301
 Logging Company N/A
 Address _____ City _____ State _____ Zip _____
 Cementing Company Baker Hughes
 Address 837 Phillipi Pike City Clarksville State WV Zip 26301
 Stimulating Company N/A
 Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Chad Touchet Telephone 469-398-2200
 Signature _____ Title Vice President Date 10/24/13

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry