



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Tuesday, July 09, 2019

WELL WORK PLUGGING PERMIT
Horizontal Plugging

BRC OPERATING COMPANY, LLC
200 CRESCENT COURT, SUITE 1900

DALLAS, TX 75201

Re: Permit approval for PLUM CREEK SOUTH FORK (PCSF) 2-2H
47-025-00035-00-00


This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

A blue ink signature of James A. Martin, Chief, is written over the typed name and title.

Operator's Well Number: PLUM CREEK SOUTH FORK 
Farm Name: WEYERHAEUSER COMPANY
U.S. WELL NUMBER: 47-025-00035-00-00
Horizontal Plugging
Date Issued: 7/9/2019

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B
Rev. 2/01

- 1) Date February 20, 2019
- 2) Operator's
Well No. Plum Creek South Fork (PCSF) 2-2H
- 3) API Well No. 47-25 - 00035

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS**

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil ___ / Gas X / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow X
- 5) Location: Elevation 3665' Watershed South Fork Cherry
District Kentucky County Greenbrier Quadrangle Fork Mountain
- 6) Well Operator BRC Operating Company, LLC 7) Designated Agent Charles Brightman
Address 200 Crescent Court, Suite 1900 Address 286 Sunday Rd.
Dallas, TX 75201 Hico, WV 25854
- 8) Oil and Gas Inspector to be notified
Name Gary Kennedy
Address 66 Old Church Rd.
Pipestream, WV 25979
- 9) Plugging Contractor
Name Halliburton
Address 4999 East Pointe Dr.
Zanesville, OH 43701

10) Work Order: The work order for the manner of plugging this well is as follows:
See attached

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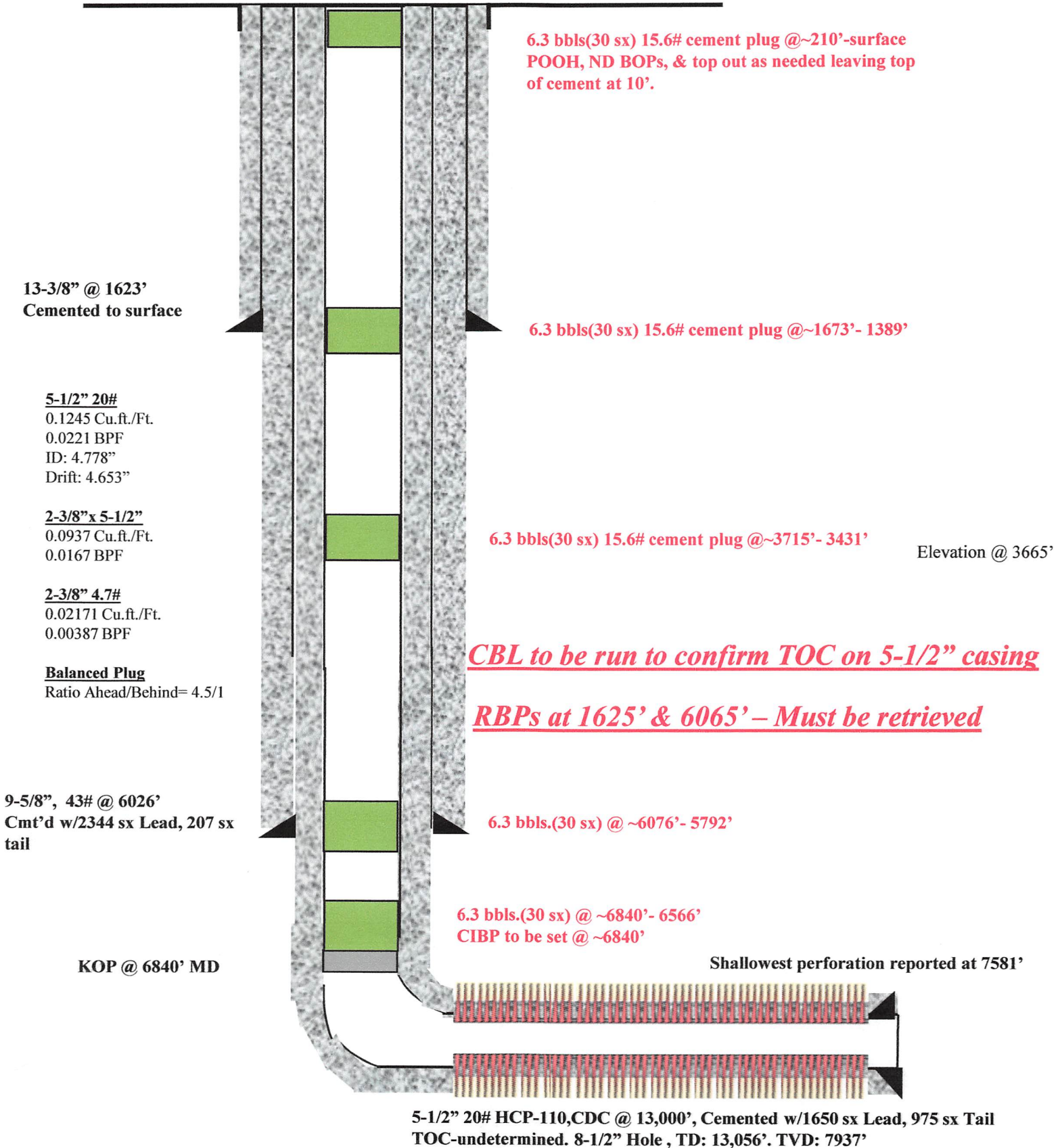
Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector *Gary Kennedy* Date 3/28/19

5

BRC Operating Company, LLC
 PCSF 2-2H
 API No. 47-25-00035
 Proposed Wellbore Schematic

Prepared by: Tim McGilvray



PCSF 2-2H

Check Rock Pressure

5-1/2" 20# P110 production casing set at 12,452' and cemented to surface/topped off

★ WILL RUN CBL
TO CONFIRM TOC ON
5 1/2" CASING.

Shallowest perforation is @ 7,581'

MIRU workover rig and BOP

Perform BOP function test

RIH with wire line and remove retrievable csg plugs @ 6,065 & 1,625'

Fill casing with 6% KCl mud: *GEL*RIH with wire line and set CIBP @ ~~6,020~~ *6840'*TIH with 2-7/8" workstring open ended to ~~6,020~~ *6840'*

RU Halliburton cement unit

M&P *6.3* bbl Class A cement @ 15.6 ppgSet 1st plug from *6840'* to *6566'*.Displace with 6% *GEL*POOH 3 stands above *6566'* and WOCTIH and tag cement. *ADD CEMENT IF NEEDED.*M&P *6.3* bbl Class A cement @ 15.6 ppgSet 2nd balanced plug from *6076'* to *5792'*.Displace with 6% *GEL*. POOH 3 stands above *5792'*.WOC. TIH and tag cement. *ADD CEMENT IF NEEDED.*M&P *6.3* bbl Class A cement @ 15.6 ppgSet 3rd plug from *3715'* to *3431'*. WOC. *ADD CEMENT IF NEEDED.*

- SET 4TH PLUG WITH 6.3 BBLs OF 15.6# CEMENT FROM *1673'* TO *1389'*.
POOH 3 STANDS ABOVE *1389'*. WOC. *ADD CEMENT IF NEEDED.*

- SET 5TH PLUG WITH 6.3 BBLs OF 15.6# CLASS A CEMENT FROM
210' TO SURFACE.

POOH, NO BOPS, & TOP OUT AS NEEDED. LEAVING TOC @ *10'*

SET MONUMENT PER WV STATE CODE. SEE ATTACHED

PERMANENT MONUMENT GUIDANCE

[Signature]

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should contain the name, address and telephone number of the person filing the comment, the well operator's name and well number, and the approximate location of the proposed well site including district and county as indicated in the permit application. Comments may be accompanied by other pertinent documents in support of the comment. Other than as prescribed in this rule, no particular form for the comment is prescribed.

5.5. Identification Markings.

PERMANENT MONUMENT GUIDANCE.

5.5.a. Every well shall have attached or stamped, in a permanent manner, the API identification number which consists of the state (47), county (001 through 109), and permit number. Such number shall be no less than one-half (1/2) inch in height and detectable by any interested person approaching the well. Any additional information the well operator may desire to display may be incorporated in the permanent identification plat or stamp in such a manner that it will not confuse or distort the permanent API identification number.

5.5.b. Except as provided below, upon the completion of the plugging and filling of any abandoned well, a permanent monument or marker consisting of a length of pipe (minimum diameter size six (6) inches) filled with concrete (or the equivalent thereof if approved by the Chief) shall be erected over the well; the marker shall extend no less than thirty (30) inches above the surface and not less than ten (10) feet below the surface and into the well, and shall be sealed with concrete for the purpose of making the marker permanent. The API well identification number which consists of the state (47), county (001 through 109), and permit number shall be attached or stamped in a permanent manner to said monument; and such numbering shall be no less than one half (1/2) inch in height and detectable by any interested person approaching the marker. The erection of the marker shall in no way interfere with the bleeder pipe from the well where such pipe is required, or the vent or other device installed pursuant to W. Va. Code § 22-6-24. Such manner shall be accurately described on Form WR-38, "Affidavit of Plugging and Filling Well" (*see* subsection 13.10 below) as to time and manner of plugging and filling the well, and shall be approved by the Chief as a satisfactory landmark that may be used as such in the location of adjacent wells. Two (2) permanent reference points with courses and distances from the abandoned well shall be designated and prescribed on the plat required by subdivision 5.2.d above in the form prescribed by section 9 below, accompanying Form WW-4, "Notice of Intention to Plug and Abandon a Well," if any change in the plat is necessary, accompanying Form IV-38, "Affidavit of Plugging and Filling Well" (*see* subsection 13.10 below).

5.6. Parties Responsible. All contractors and drillers, including all service companies carrying on business or doing work in oil and gas fields in West Virginia, as well as lease holders and operators generally, shall take notice of and are hereby directed to observe and apply the provisions of W. Va. Code § 22-6 and this rule; and all contractors, drillers, service companies and operators shall be held responsible for violations thereof.

5.7. Evidence of Performance.

5.7.a. After the completion of the work authorized to be done by any permit required by W. Va. Code § 22-6-6, the permittee shall comply with filing requirements of W. Va. Code § 22-6-22 and section 12 of this rule.

5.7.b. In addition to the requirements of subdivision 5.7.a, following completion of plugging a well, the permittee shall also comply with the affidavit requirements of W. Va. Code § 22-6-23 and subsection 13.10 below.

WR-35
Rev (9-11)

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

DATE: 5/31/13 REV. 11/8/13
API #: 47-25-00035

Farm name: Plum Creek Timberlands, LP Operator Well No.: PCSF 2-2H

LOCATION: Elevation: 3,865' Quadrangle: Fork Mountain

District: Kentucky County: Greenbrier
Latitude: 2009 Feet South of 38 Deg. 12 Min. 30 Sec.
Longitude 9058 Feet West of 80 Deg. 25 Min. 00 Sec.

Company: BRC Operating Company, LLC


Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
200 Crescent Court, Suite 200 Dallas, TX 75201	20"	115'	115'	207
Agent: Marc A. Montleone	13 3/8"	1,610'	1,610'	1,486
Inspector: Gary Kennedy	9 5/8"	6,010'	6,010'	1,767 Lead / 157 Lag
Date Permit Issued: 1/10/11	5 1/2"	13,056'	13,056'	2,143 Lead / 1,155 Lag
Date Well Work Commenced: 9/12/2011	2 3/8"	6,840'	6,840'	
Date Well Work Completed: 9/2/2012 REV. 5/29/13				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 7,942'				
Total Measured Depth (ft): 13,056'				
Fresh Water Depth (ft.): 1,500'				
Salt Water Depth (ft.): 2,350'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 275'				
Void(s) encountered (N/Y) Depth(s) None				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Lower Marcellus Pay zone depth (ft) 7,942
 Gas: Initial open flow 450 MCF/d Oil: Initial open flow - Bbl/d
 Final open flow 300 MCF/d Final open flow - Bbl/d
 Time of open flow between initial and final tests - Hours
 Static rock Pressure 3,500 psig (surface pressure) after 36 Hours

Second producing formation - Pay zone depth (ft) -
 Gas: Initial open flow - MCF/d Oil: Initial open flow - Bbl/d
 Final open flow - MCF/d Final open flow - Bbl/d
 Time of open flow between initial and final tests - Hours
 Static rock Pressure - psig (surface pressure) after - Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.


Signature

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WV Department of Environmental Protection

Were core samples taken? Yes _____ No Were cuttings caught during drilling? Yes No

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list MWD GR (6798 - 13009')

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Stages 2 thru 21 from 12,909' TMD to 8,855' TMD. 60 degree phasing, 6 SPF, total 24-36 shots/stage. Fractured utilizing slickwater fracs at average rates of 65 bpm. Total sand injected into each frac stage 250,000 lbs. Average pressures observed were approximately 7,500 psi.

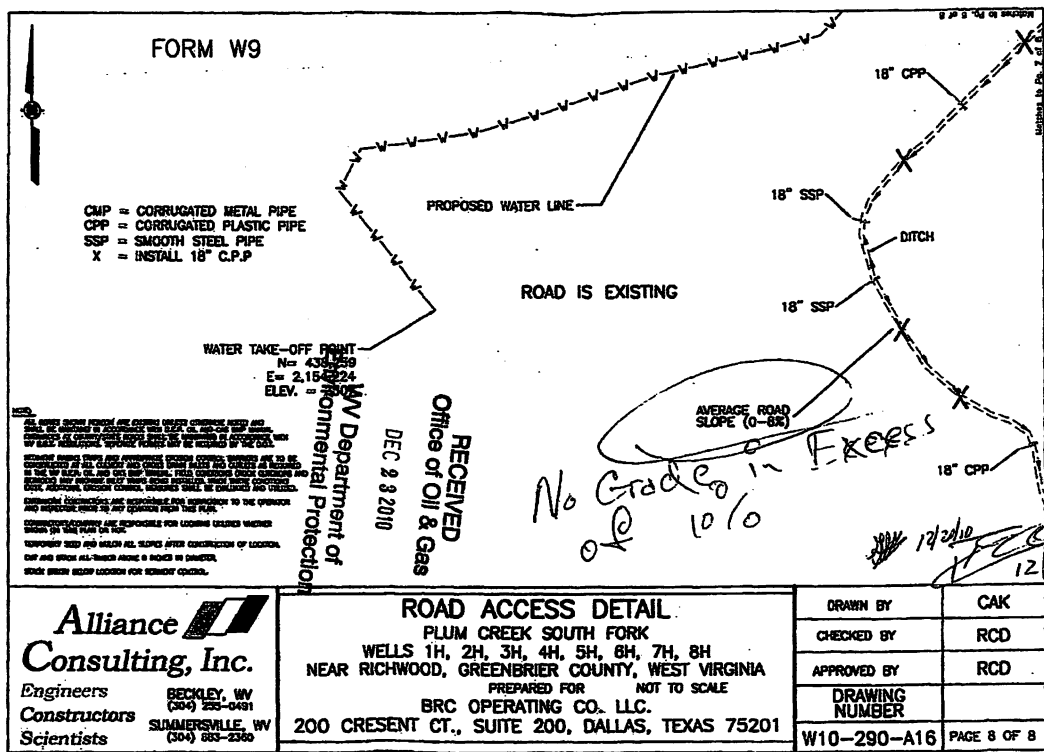
Permit modified on 5/21/13: Re-enter horizontal section of existing well. Install CIBP at 8,840' TMD to isolate 8,841' thru 12,949' TMD. Perforate and fracture existing horizontal casing from 8,520' to 8,840' TMD (two zones). Utilize N2 foam fracs. 60 degree phasing, 5 SPF at 40' spacing; total 22 shots/stage. Total sand injected into each frac stage 80,000 lbs.

Plug Back Details Including Plug Type and Depth(s): Set CIBP at 8,840' TMD to isolate 13,056' TMD to 8,841' TMD.

Formations Encountered:

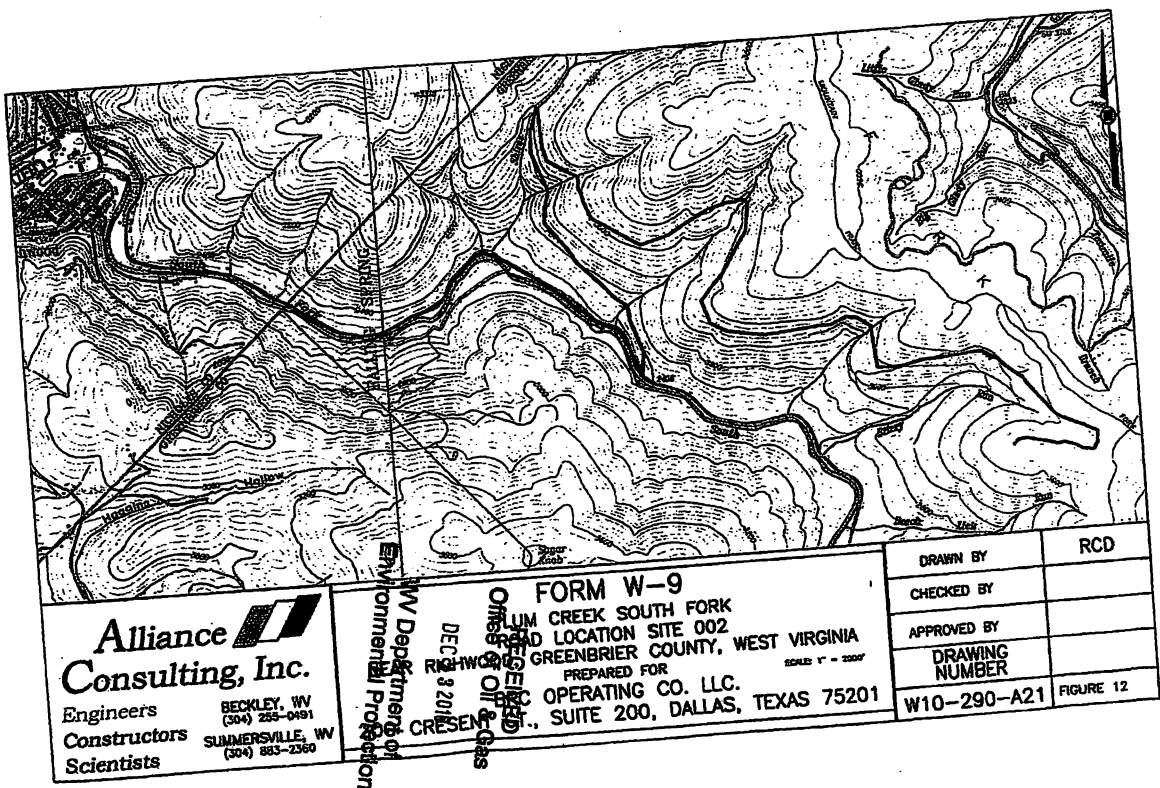
<u>Geologic Age</u>	<u>Formation</u>	<u>Lithology</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
Mississippian	Ravencliff	Sandstone	1770	1833
Mississippian		Shale	1833	2107
Mississippian	Lower Maxon	Sandstone	2107	2120
Mississippian		Shale	2120	2211
Mississippian	Greenbrier	Limestone	2211	2359
Mississippian	Big Lime	Limestone	2359	2677
Mississippian		Shale	2677	2731
Mississippian	Injun	Sandstone	2731	2763
Mississippian	Squaw	Shale	2763	2783
Mississippian		Shale	2783	2929
Mississippian	Weir	Sandstone	2929	2937
Mississippian		Shale	2937	3350
Mississippian	Berea	Sandstone	3350	3370
Mississippian		Shale	3370	3436
Devonian	Gordon	Sandstone	3436	3468
Devonian		Shale	3468	3719
Devonian	Huron	Shale	3719	6582
Devonian		Shale	6582	7533
Devonian	Rhinestreet	Organic Shale	7533	7616
Devonian		Shale	7616	7814
Devonian	Upper Marcellus	Shale	7814	7915
Devonian	Cherry Valley	Limestone	7915	7930
Devonian	Lower Marcellus	Shale	7930	7998
Devonian	Onodaga	Limestone	7998	8008
Devonian	Huntersville	Chert	8008	TD

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25-00035A



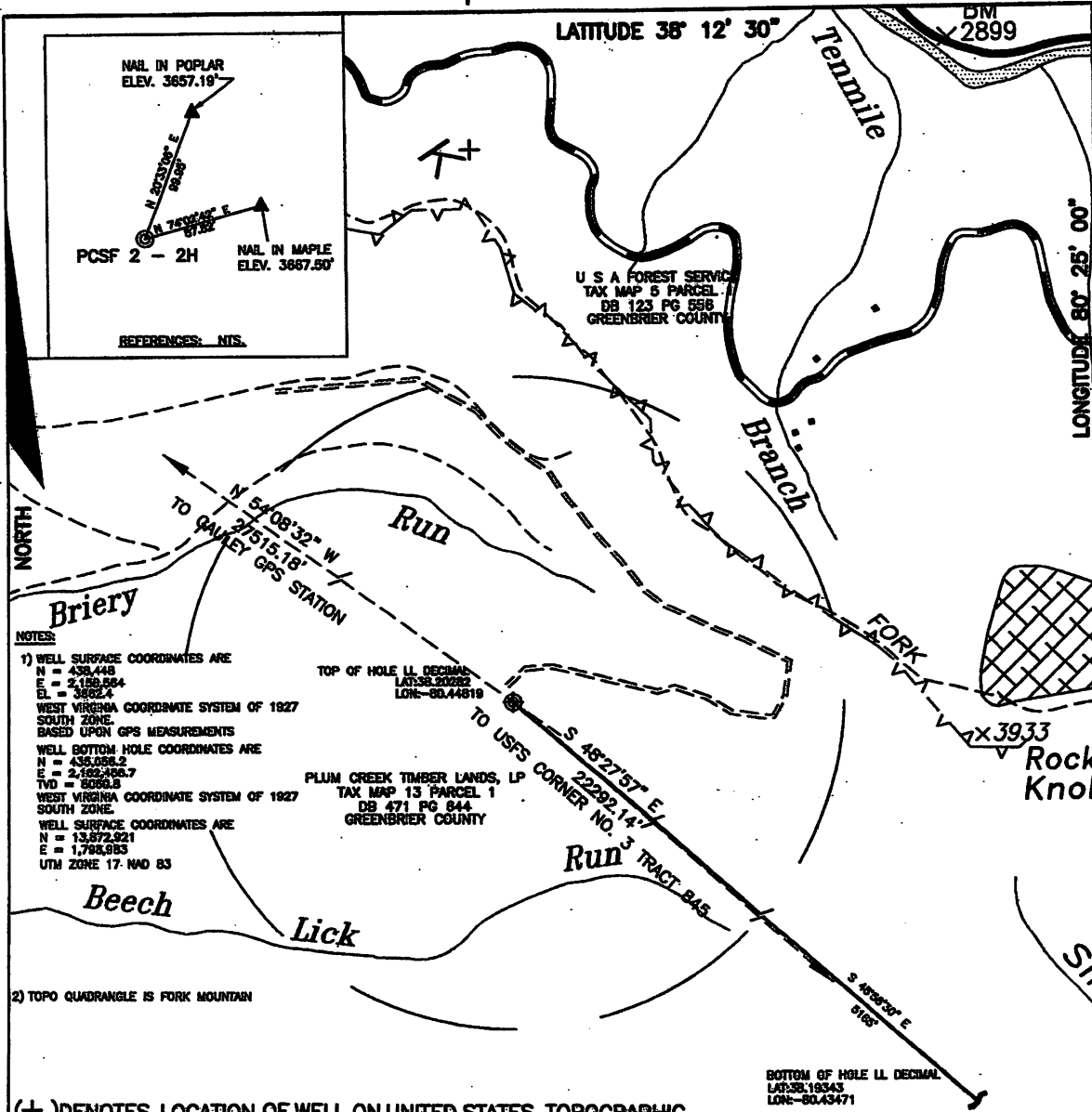
Alliance Consulting, Inc.
 Engineers BECKLEY, WV (304) 255-0491
 Constructors SUMMERSVILLE, WV (304) 883-2360
 Scientists

WV Department of Environmental Protection

FORM W-9
 LUM CREEK SOUTH FORK
 ROAD LOCATION SITE 002
 GREENBRIER COUNTY, WEST VIRGINIA
 PREPARED FOR
 OPERATING CO. LLC.
 SUITE 200, DALLAS, TEXAS 75201

DRAWN BY	RCD
CHECKED BY	
APPROVED BY	
DRAWING NUMBER	
W10-290-A21	FIGURE 12

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 WV Department of Environmental Protection



NOTES:

1) WELL SURFACE COORDINATES ARE
 N = 438.448
 E = 2,158.564
 EL = 3882.4
 WEST VIRGINIA COORDINATE SYSTEM OF 1927
 SOUTH ZONE.
 BASED UPON GPS MEASUREMENTS
 WELL BOTTOM HOLE COORDINATES ARE
 N = 438.058.2
 E = 2,158.258.7
 TVD = 8098.8
 WEST VIRGINIA COORDINATE SYSTEM OF 1927
 SOUTH ZONE.
 WELL SURFACE COORDINATES ARE
 N = 13,872.821
 E = 1,798.883
 UTM ZONE 17- NAD 83

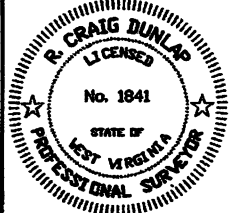
2) TOPO QUADRANGLE IS FORK MOUNTAIN

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC

FILE NO. W10-290-1813
 DRAWING NO. W10-290-A2
 SCALE 1"=1000'
 MINIMUM DEGREE OF ACCURACY 1:2500
 PROVEN SOURCE OF ELEVATION GPS
GLOBAL POSITIONING SYSTEM

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

(SIGNED) [Signature]
 PROFESSIONAL SURVEYOR No. 1841



WVDEP
 OFFICE OF OIL AND GAS
 1356 HANSFORD ST.
 CHARLESTON, WV 25301

DATE NOVEMBER, 2010
 OPERATOR'S WELL NO. PCSF 2 - 2H
 API WELL NO. 47-025-00035H
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS CBM X LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW X

LOCATION: ELEVATION 3700± WATERSHED SOUTH FORK OF CHERRY RIVER
 DISTRICT FALLING SPRINGS COUNTY GREENBRIER
 QUADRANGLE FORK MOUNTAIN ACREAGE 21527

SURFACE OWNER PLUM CREEK TIMBERLANDS, LP LEASE ACREAGE 21527
 OIL & GAS ROYALTY OWNER HIGHLAND RESOURCES INC., & BRC APPALACHIAN MINERALS I, LLC., & OXY USA, INC.

PROPOSED WORK: DRILL CONVERT X DRILL DEEPER REDRILL FRACTURE OR STIMULATE X OFFICE RECEIVED
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE of Oil and Gas
 IN WELL (SPECIFY) APR 10 2019
 PLUG AND ABANDON CLEAN OUT AND REPLUG WV Department of
 TARGET FORMATION Marcellus Shale Environmental Protection

ESTIMATED DEPTH TVD = 8146' MD = 13555'

WELL OPERATOR BRC OPERATING COMPANY, LLC DESIGNATED AGENT MARC MONTELEONE
 ADDRESS 200 CRESCENT COURT, SUITE 200 ADDRESS 600 QUARRIER STREET
DALLAS, TX 75201 CHARLESTON, WV 25325

WW-4A
Revised 6-07

1) Date: February 20, 2019
2) Operator's Well Number
Plum Creek South Fork (PCSF) 2-2H
3) API Well No.: 47 - 25 - 00035

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

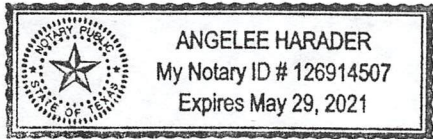
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Weyerhaeuser Company</u>	Name <u>None of Record</u>
Address <u>220 Occidental Ave South</u>	Address _____
<u>Seattle, WA 98104</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>WPP, LLC</u>
_____	Address <u>5260 Irwin Rd.</u>
(c) Name _____	<u>Huntington, WV 25705</u>
Address _____	Name _____
_____	Address _____
6) Inspector <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>66 Old Church Ln.</u>	Name <u>None of Record</u>
<u>Pipestream, WV 25979</u>	Address _____
Telephone <u>304-382-8402</u>	_____

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator BRC Operating Company, LLC
 By: Charles Brightman
 Its: Agent
 Address 286 Sunday Rd.
Hico, WV 25854
 Telephone 304-880-8121

Subscribed and sworn before me this 2nd day of April, 2019
Angelee Harader Notary Public
 My Commission Expires 5-29-2019 APR 10 2019

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Office of Oil and Gas

WV Department of
Environmental Protection

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

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SEATTLE, WA 98104

Certified Mail Fee	\$3.50
Extra Services & Fees (check box, add fee as appropriate)	\$2.80
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$1.15
Total Postage and Fees	\$7.45

0126
04

Postmark
Here

04/02/2019

Sent To **Weyerhaeuser Company**
ATTN: Mr. Bill Niemi
220 Occidental Ave South
Seattle WA 98104

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7018 0680 0000 9727 4436

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47-025-00035P

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HUNTINGTON, WV 25703

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7018 0680 0000 9727 4498

Certified Mail Fee	\$3.50
	\$2.80
Extra Services & Fees (check box, add fee as appropriate)	\$0.00
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$1.15
Total Postage and Fees	\$7.45

0128
04
Postmark
Here
04/02/2019

Sent To
WPP LLC
Street and Apt. No., or PO Box No.
ATTN: Legal Department
City, State, ZIP+4®
5260 Irwin Road

PS Form 3800, April 2013 Edition See Reverse for Instructions

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Office of Oil and Gas
APR 10 2019
WV Department of
Environmental Protection

WW-9
(5/16)

API Number 47 - 25 - 00035
Operator's Well No. Plum Creek South Fork (PCSF) 2-2H

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name BRC Operating Company, LLC OP Code _____

Watershed (HUC 10) South Fork Cherry Quadrangle Fork Mountain

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: N/A

Will a synthetic liner be used in the pit? Yes No If so, what ml.?

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

ANY WELL EFFLUENT WILL
BE CONTAINED IN TANKS
AND DISPOSED OF IN
UNDERGROUND INJECTION
CONTROL WELLS.
JMM

Will closed loop system be used? If so, describe: _____

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A

-If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? N/A

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

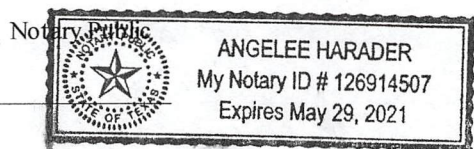
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]
Company Official (Typed Name) CHARLES BRIGHTMAN
Company Official Title DESIGNATED AGENT

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Subscribed and sworn before me this 3rd day of April, 2019

[Signature]
My commission expires 5-29-2021



Proposed Revegetation Treatment: Acres Disturbed +1 - 6.65 Prevegetation pH _____

Lime 5 gals - 2.5 Tons/acre or to correct to pH 6.5

Fertilizer type Liquid starter eq(10-20-20)

Fertilizer amount 7 gals = 500 lbs/acre

Mulch hydro jet & fiber = 500 / EA Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
N/A	

Seed Type	lbs/acre
Tall Fescue Blend	250
43% Kentucky 31 Tall Fescue, 43% Red Fescue	
7% White Clover, 7% Annual Rye	

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

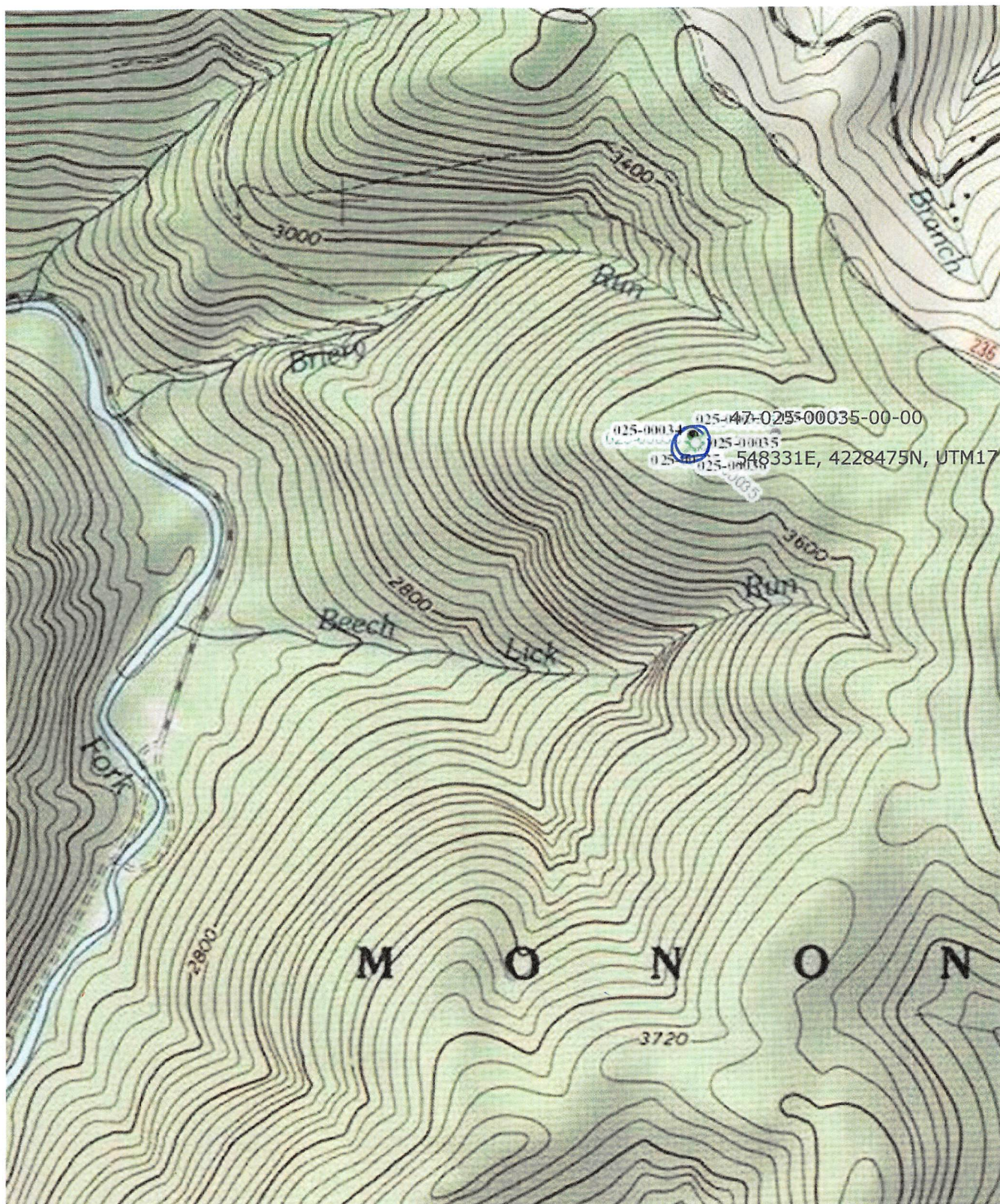
Comments: _____

Title: Inspector

Date: 3/29/19

Field Reviewed? (a) Yes () No

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WV Department of
Environmental Protection



WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-2500035 WELL NO.: Plum Creek South Fork (PCSF) 2-2H

FARM NAME: _____

RESPONSIBLE PARTY NAME: BRC Operating Company, LLC

COUNTY: Greenbrier DISTRICT: ~~Kentucky~~ FALLING SPRING

QUADRANGLE: Fork Mountain

SURFACE OWNER: Weyerhaeuser Company

ROYALTY OWNER: WestRock Company, Highland Resources Inc., BRC Cherry Meadow, LLC, OXY USA, Inc

UTM GPS NORTHING: 4228475.54

UTM GPS EASTING: 548330.99 GPS ELEVATION: 3665'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983. Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential _____
Real-Time Differential

Mapping Grade GPS _____ : Post Processed Differential _____
Real-Time Differential _____

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Signature

DESIGNATED AGENT
Title

4/16/19
Date

47-025-00035P



200 Crescent Court
Suite 200
Dallas, Texas 75201

April 5, 2019

Mr. James Martin
Director of the Office of Oil and Gas
West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th St SE
Charleston, WV 25304

ATTN: Mr. James Martin

RE: BRC Operating Company, LLC
Deep Vertical Gas Well Development
Operators Well Number: Plum Creek South Fork (PCSF) 2-2H
API Well Number: 47-2500035
Submission of Well Work Permit Modification Plug and Abandon Permit

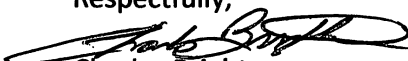
Please find attached application for "Plug & Abandon" of the above referenced well.

Pursuant to submittal requirements of the application, find attached "Plugging Permit Checklist" which serves to summarize all included documents.

Both the surface owner and coal owner have been provided Waiver forms in order to expedite approval of the permit. Both have assured me that the waivers will be signed and are forth coming. In an effort to proceed, absent the waivers; I have provided notice to each by certified mail. Upon receipt of the waiver, I will forward them under separate cover to the OOG.

Should you have any questions or may require an on-site meeting, please do not hesitate to contact me at 304-880-8121, or via email at cdbrightman@live.com.

Respectfully,


Charles Brightman

Cc: Chad Touchet, Vice President BRC Operating Company, LLC

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Office of Oil and Gas

APR 10 2019

WV Department of
Environmental Protection