



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

Friday, July 26, 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) 1-2H
47-025-00039-00-00

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

Operator's Well Number: PLUM CREEK SOUTH FORK (0
Farm Name: PLUM CREEK TIMBERLANDS
U.S. WELL NUMBER: 47-025-00039-00-00
Horizontal Plugging
Date Issued: 7/26/2019

Promoting a healthy environment.

I

47-025-00039P

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, 20 19
2) Operator's
Well No. Plum Creek South Fork (PCSF) 1-2H
3) API Well No. 47-25 - 00039

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 3578 Watershed South Fork of Cherry River
District Falling Springs 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 9) Plugging Contractor
Name Gary Kennedy Name Halliburton
Address 66 Old Church Ln. Address 4999 East Pointe Dr.
Pipestem, WV 25979 Zanesville, OH 43701
-
- 10) Work Order: The work order for the manner of plugging this well is as follows:
See attached

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

RECEIVED
Office of Oil and Gas
APR 10 2019
3/29/19
WV Department of
Environmental Protection

PCSF 1-2H

9-5/8" 43# L80 production casing set at 6,457' and cemented to surface/topped off
Previous plug set @ 6,339'
MIRU workover rig and BOP
Perform BOP function test

TIH with 2-7/8" workstring open ended to 6339' TO CHECK TOP OF BOTTOM HOLE PLUG. SPOT 6% GEL.

RU Halliburton cement unit

M&P 30 bbl Class A cement @ 15.6 ppg

Set 1st balanced plug from 3628' - 3417'

Displace with 6% GEL

POOH 3 stands above 3417' and WOC.

TIH and tag cement, ADD CEMENT IF NEEDED.

M&P 15.7 bbl Class A cement @ 15.6 ppg

Set 2nd plug from 2283' - 1999' WOC, TAG PLUG & ADD CEMENT IF NEEDED.

Cut production, intermediate and surface casing 2' below surface

Weld cap with API number and set monument.



INSURE

ADD 6% GEL IF NEEDED.

SET 3RD PLUG W/ 15.7 BBLS (75 SK) CEMENT FROM 210' - TO SURFACE.

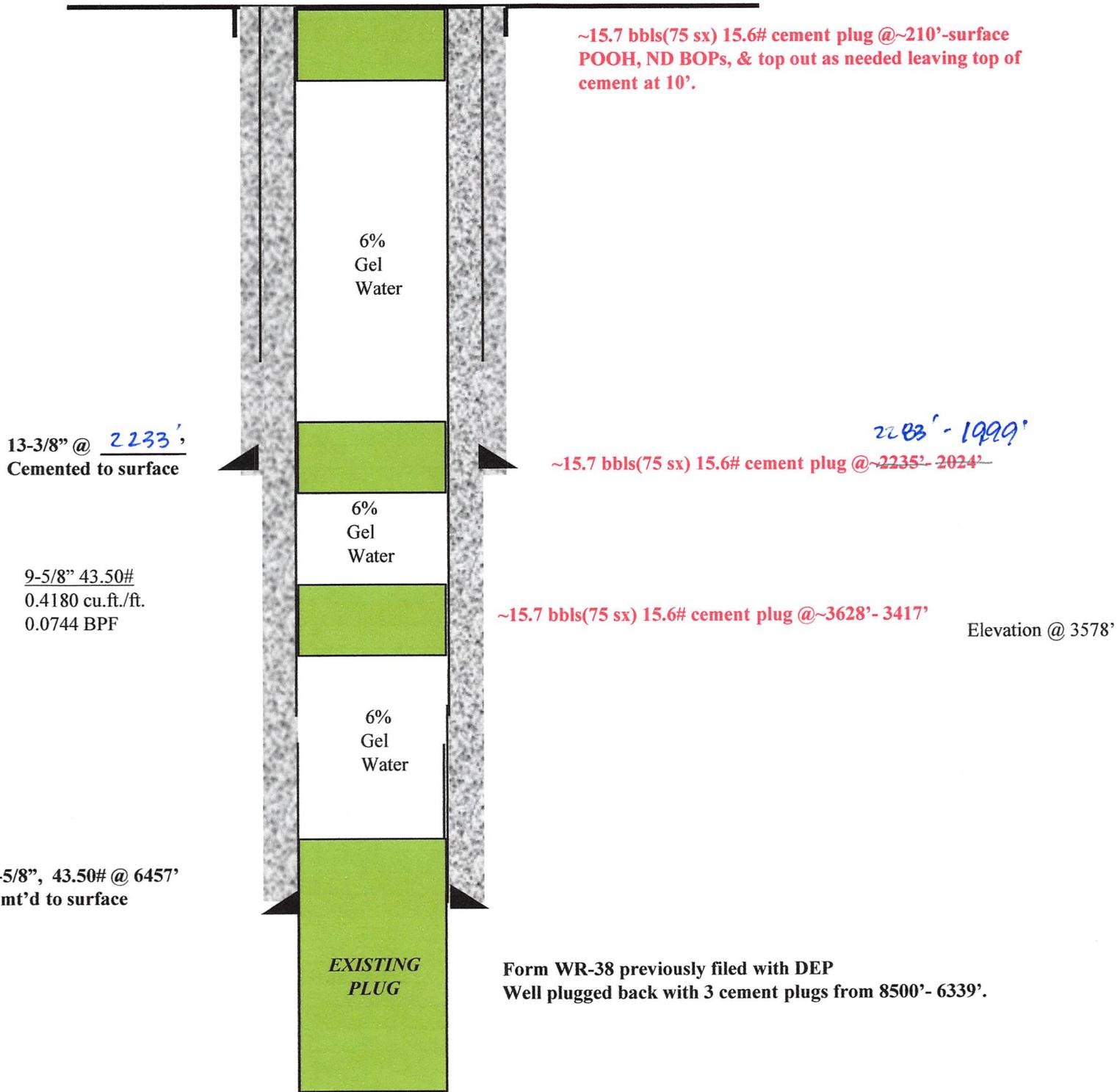
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APR 10 2019
WV Department of
Environmental Protection

BRC Operating Company, LLC
PCSF 1-2H
API No. 47-25-00039
Proposed Wellbore Schematic

47-025-00039P

Prepared by: Tim McGilvray



2233' - 1999'

(

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE. one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: PLUMBERSK TOWER (A-03), LP Operator Well No.: 47-25-00039

LOCATION: Elevation: 3,578 Quadrangle: Fork Mountain
District: Falling Springs County: Greenbrier
Latitude: 11977 Feet South of 38 Deg. 12 Min. 30 Sec.
Longitude: 5988 Feet West of 80 Deg. 25 Min. 00 Sec.

Well Type: OIL _____ GAS X

Company BRC Operating Company LLC Coal Operator None of Record
200 Crescent Court, Suite 1900 or Owner _____
Dallas, TX 75201 _____
Agent Mark Monteleone Coal Operator _____
Permit Issued Date 1/17/2011 or Owner _____

AFFIDAVIT

STATE OF WEST VIRGINIA
County of Greenbrier ss:

Chad Touchet and Jake Benton being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 18th day of January, 2012, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Class A 318 sxs 17.0 ppg	8,500'	7,800'	N/A	
Class A 318 sxs 17.0 ppg	7,800'	7,100'	N/A	
Class A 393 sxs 17.0 ppg	7,100'	6,339'	N/A	9-5/8" casing was set at 6,550'
8.5 ppg water based mud				

Description of monument: Welded cap temporary abandonment and that the work of plugging and filling said well was completed on the 17 day of January, 2012

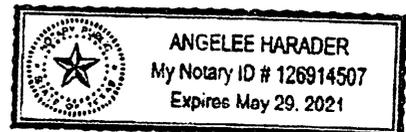
And further deponents saith not [Signature]

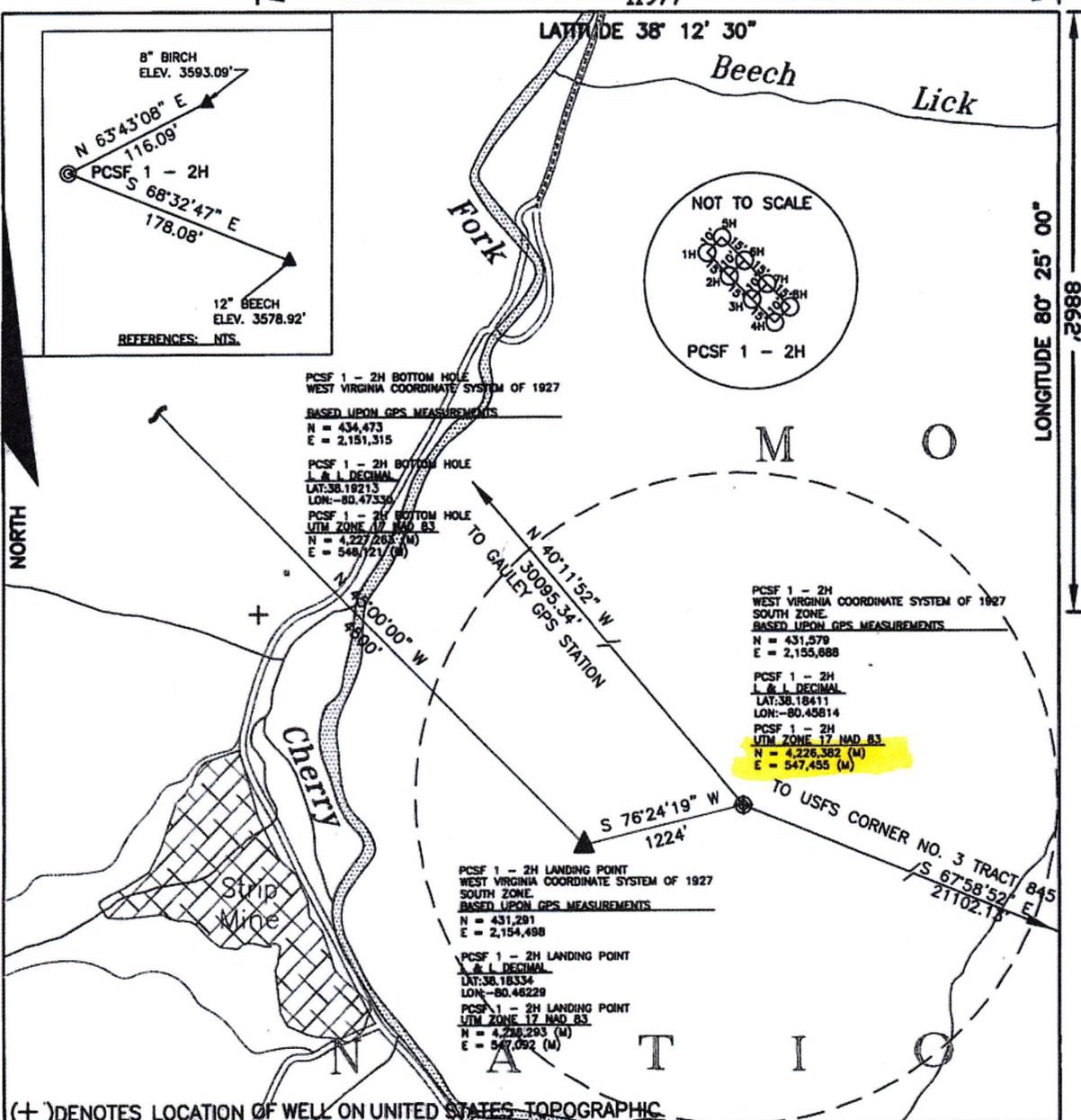
BLUESCAPE RESOURCES, LLC.

Sworn and subscribe before me this 1st day of May, 2019

My commission expires 5-29-2021

[Signature]
Notary Public





(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC

FILE NO. W10-290-1813
 DRAWING NO. W10-290-A22
 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) R. G. Delp
 PROFESSIONAL SURVEYOR No. 1841



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

DATE MARCH 21, 2011
 OPERATOR'S WELL NO. PCSF 1 - 2H
 API WELL NO. 47-025-00039PP
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 3800 ± 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 DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE
 IN WELL (SPECIFY)

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Marcellus Shale
 ESTIMATED DEPTH TVD = 8060' MD = 12930'

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

47-025-00039A

WW-4A
Revised 6-07

1) Date: February 20, 2019
2) Operator's Well Number
Plum Creek South Fork (PCSF) 1-2H
3) API Well No.: 47 - 25 - 00039

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:
(a) Name Weyerhaeuser Company
Address 220 Occidental Ave South
Seattle WA 98104
(b) Name
Address
(c) Name
Address
6) Inspector Gary Kennedy
Address 66 Old Church Ln.
Pipestem, WV 25979
Telephone 304-382-8401

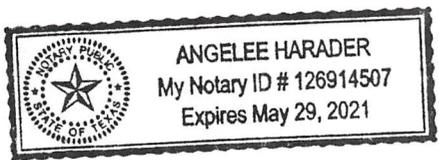
5) (a) Coal Operator
Name None on Record
Address
(b) Coal Owner(s) with Declaration
Name WPP LLC
Address 5260 Irwin Road
Huntington, WV 25705
(c) Coal Lessee with Declaration
Name None of Record
Address

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.

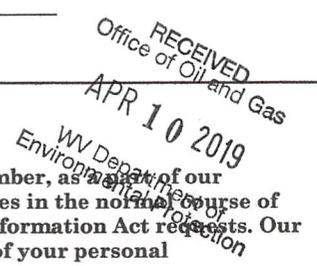
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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
My Commission Expires 5-29-2021
Notary Public



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.

47-025-00039P

WW-9
(5/16)

API Number 47 - 25 - 00039
Operator's Well No. Plum Creek South Fork (PCSF) 1-2H

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 of Cherry River 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: Drill cuttings and frac water

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 _____)

Will closed loop system be used? If so, describe: N/A

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 BALCHITMAN

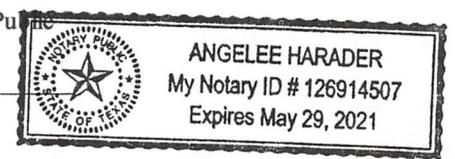
Company Official Title DESIGNATED AGENT



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

[Signature] Notary Public

My commission expires 5-29-2021



Proposed Revegetation Treatment: Acres Disturbed +1-5.5 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 & fibers = 500 / EA Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
<u>N/A</u>		<u>Tall Fescue Blend</u>	<u>250</u>
		<u>43% Kentucky Tall Fescue, 43% Red Fescue</u>	
		<u>7% White Clover, 7% Annual Rye</u>	

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.

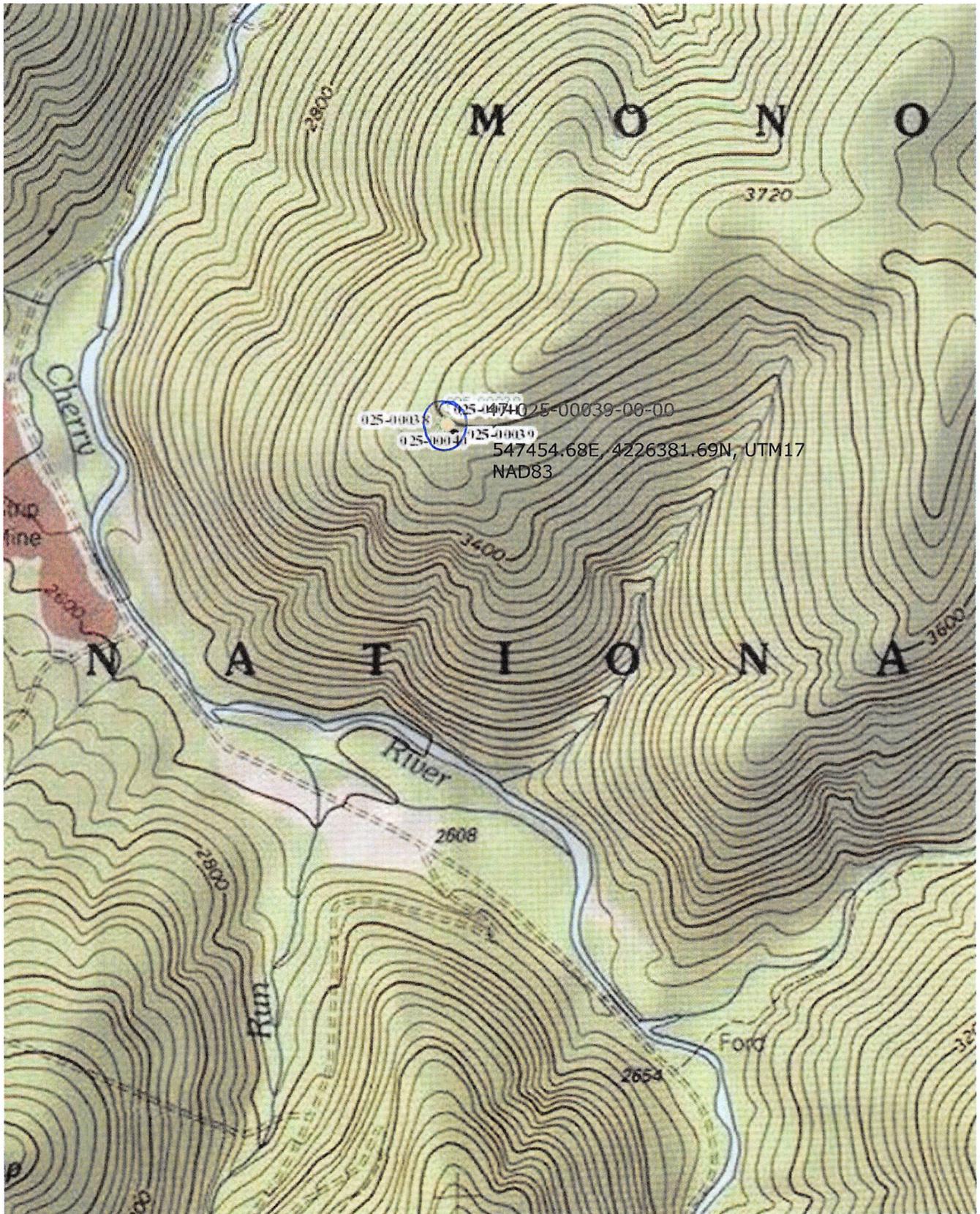
Plan Approved by: *Henry Kimmel*

Comments: _____

Title: *Inspected* Date: *3/29/19*

Field Reviewed? Yes No

RECEIVED
Office of Oil and Gas
APR 10 2019
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: 47-2500039 WELL NO.: Plum Creek South Fork (PCSF) 1-2H

FARM NAME: _____

RESPONSIBLE PARTY NAME: BRC Operating Company, LLC

COUNTY: Greenbrier DISTRICT: Falling Springs

QUADRANGLE: Fork Mountain

SURFACE OWNER: Weyerhaeuser Company

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

UTM GPS NORTHING: 4226381.69

UTM GPS EASTING: 547454.68 GPS ELEVATION: 3578'

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]
Signature

DELEGATED AGENT
Title

4/16/19
Date