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west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Wednesday, May 29, 2019  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

BRC OPERATING COMPANY, LLC  
200 CRESCENT COURT, SUITE 1900

DALLAS, TX 75201

Re: Permit approval for MWV RUPERT 2  
47-067-00920-00-00

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 text of his name and title.

Operator's Well Number: MWV RUPERT 2  
Farm Name: WEYERHAEUSER COMPANY  
U.S. WELL NUMBER: 47-067-00920-00-00  
Vertical Plugging  
Date Issued: 5/29/2019

## 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.

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### CONDITIONS

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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.

1) Date February 20, 2019 **05/31/2019**  
2) Operator's  
Well No. MWV Rupert 2  
3) API Well No. 47-67 - 00920 **P**

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 3005' Watershed Turkey Run  
District Kentucky County Nicholas Quadrangle Richwood 7.5

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 Jeremy James Name Halliburton  
Address P.O. Box 36 Address 4999 East Pointe Dr.  
Clendenin, WV 25045 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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APR 10 2019  
WV Department of  
Environmental Protection

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

Work order approved by inspector  Date 4-1-19

MWV Rupert #2

4-1/2" 11.6# L80 production casing set at 7,830' and cemented

Previous plug set @ 7,830'

MIRU workover rig and BOP

Perform BOP function test

Fill casing with 6% KCl mud. GEL

TIH with 2-7/8" workstring open ended to 7,830'

RU Halliburton cement unit

M&P 4.5 bbl Class A cement @ 15.6 ppg

Set 1<sup>st</sup> plug from 7,830 to 7,430'

Displace with 6% KCl mud. GEL

POOH 3 stands above 7,430' and WOC

TIH and tag cement.

POOH standing up tubing.



RIH with wire line to 3,500'. Shoot and cut 4-1/2" casing.

POOH laying down 4-1/2" casing.

M&P 16 bbl Class A cement @ 15.6 ppg

Set 2<sup>nd</sup> balanced plug from 3,500 to 3,100'

POOH 3 stands above 3,100' and WOC

TIH and tag cement.

M&P 16 bbl Class A cement @ 15.6 ppg

Set 3<sup>rd</sup> balanced plug from 2,300 to 1,900'

POOH 3 stands above 1,900' and WOC

TIH and tag cement.

M&P 16 bbl Class A cement @ 15.6 ppg

Set final plug from 400' to surface. WOC

Cut production, intermediate and surface casing 2' below surface

Weld cap with API number and set monument.

GEL => FRESH WATER WITH  
A MINIMUM OF 6%  
BENTONITE, BY WEIGHT.



BOND LOG TO FIND  
FREE POINT OF 4 1/2" CASING.  
CUT CASING AND SET  
PLUG ACROSS CUT.

PER WV STATE CODE. 35 CSR 4 5.5

OIC  
Per Jeremy James

05/31/2019

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.

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.

47-067-00920P

05/31/2019

WR-35  
Rev (9-11)State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas  
Well Operator's Report of Well WorkDATE: 11/22/13  
API #: 47-67-00920Farm name: MeadWestvaco Corp. Operator Well No.: MWV Rupert 2LOCATION: Elevation: 3,005 Quadrangle: RichwoodDistrict: Kentucky County: Nicholas  
Latitude: 14.020 Feet South of 38 Deg. 15 Min. 0 Sec.  
Longitude 8.400 Feet West of 80 Deg. 34 Min. 14.8 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	9-5/8", 36#, J-55	1,516'	1,501'	628
Agent: Marc A. Monteleone	7", 23#, J-55	3,700'	3,700'	483
Inspector: Terry Urban	4-1/2", 11.6#, J-55	7,785'	7,785'	473
Date Permit Issued: 11/24/08				
Date Well Work Commenced: 2/21/09				
Date Well Work Completed: 4/27/09				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 7,785				
Total Measured Depth (ft):				
Fresh Water Depth (ft.): 50				
Salt Water Depth (ft.): 2,300				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.):				
Void(s) encountered (N/Y) Depth(s) N				

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

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

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\_\_\_\_\_  
Date

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 \_\_\_\_\_

**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:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Plug Back Details Including Plug Type and Depth(s):

\_\_\_\_\_  
 \_\_\_\_\_

Formations Encountered:

<u>Geologic Age</u>	<u>Formation</u>	<u>Lithology</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
Mississippian	Greenbrier	Limestone	2490	2543
Mississippian		Shale	2543	2858
Mississippian	Injun	Sandstone	2858	2875
Mississippian		Shale	2875	2884
Mississippian	Squaw	Sandstone	2884	2890
Mississippian		Shale	2890	2967
Mississippian	Weir	Sandstone	2967	2975
Mississippian		Shale	2975	3433
Mississippian	Berea	Sandstone	3433	3455
Mississippian		Shale	3455	3523
Devonian	Gordon	Sandstone	3523	3548
Devonian		Siltstone & Shale	3548	4493
Devonian	Huron	Shale	4493	7378
Devonian	Rhinestreet	Organic Shale	7378	7770
Devonian	Marcellus	Organic Shale	7770	

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Form W-9

# BRC OPERATING CO., LLC.

Page 7 of 7

## MWV RUPERT NO. 2 (47-067-00920)

 Install Minimum 12" Culvert

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH DEP. OIL AND GAS IMP MANUAL. ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV DOT REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE DOT.

SEDIMENT BASINS TRAPS AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV DEP. OIL AND GAS IMP MANUAL. FIELD CONDITIONS OROCK OUTCROPS AND BEDROCK MAY PREVENT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

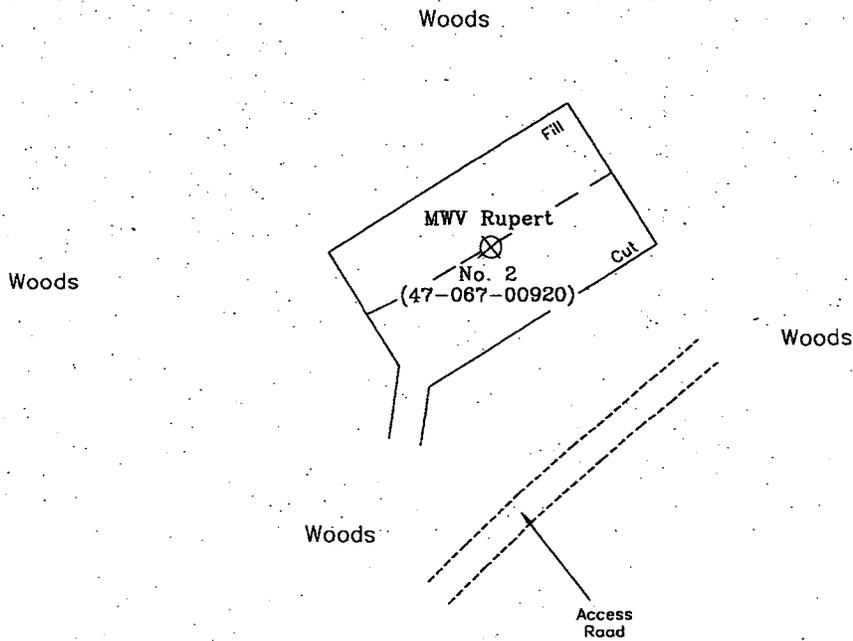
CONTRACTORS/COMPANY ARE RESPONSIBLE FOR LOCATING UTILITIES WHETHER SHOWN ON THIS PLAN OR NOT.

TEMPORARY SEED AND MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT AND STACK ALL TIMBER ABOVE 6-INCHES AND ABOVE.

STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL.

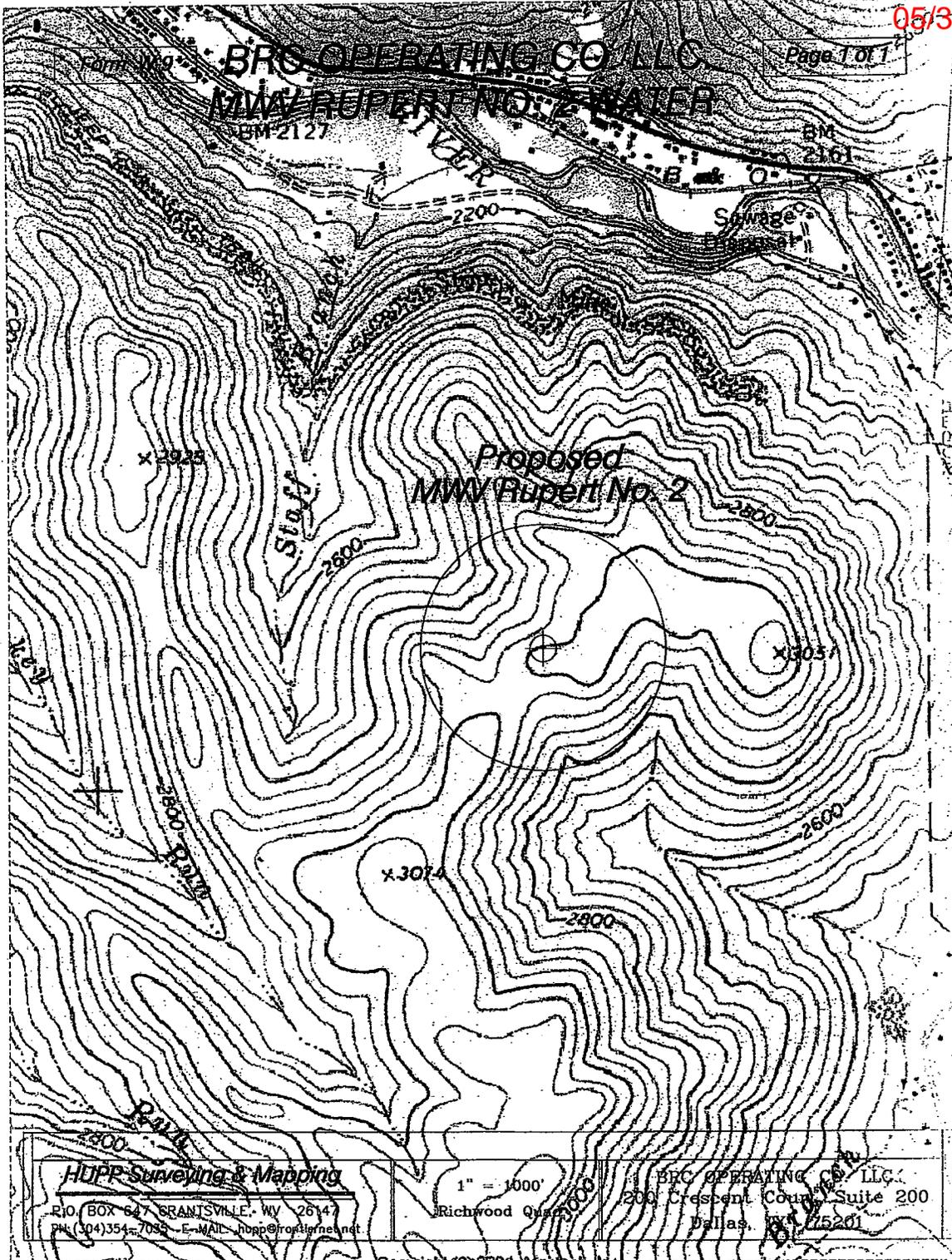
Detail Sketch for MWV Rupert No. 2 (47-067-00920)



Drawing Not To Scale

<b>HUPP Surveying &amp; Mapping</b> P.O. BOX 647 GRANTSVILLE, WV 26147 PH: (304)354-7035 E-MAIL: hupp@frontiernet.net	Drafted BY:	Date Drafted:	Job Number:
	DB	11/16/10	W20081834

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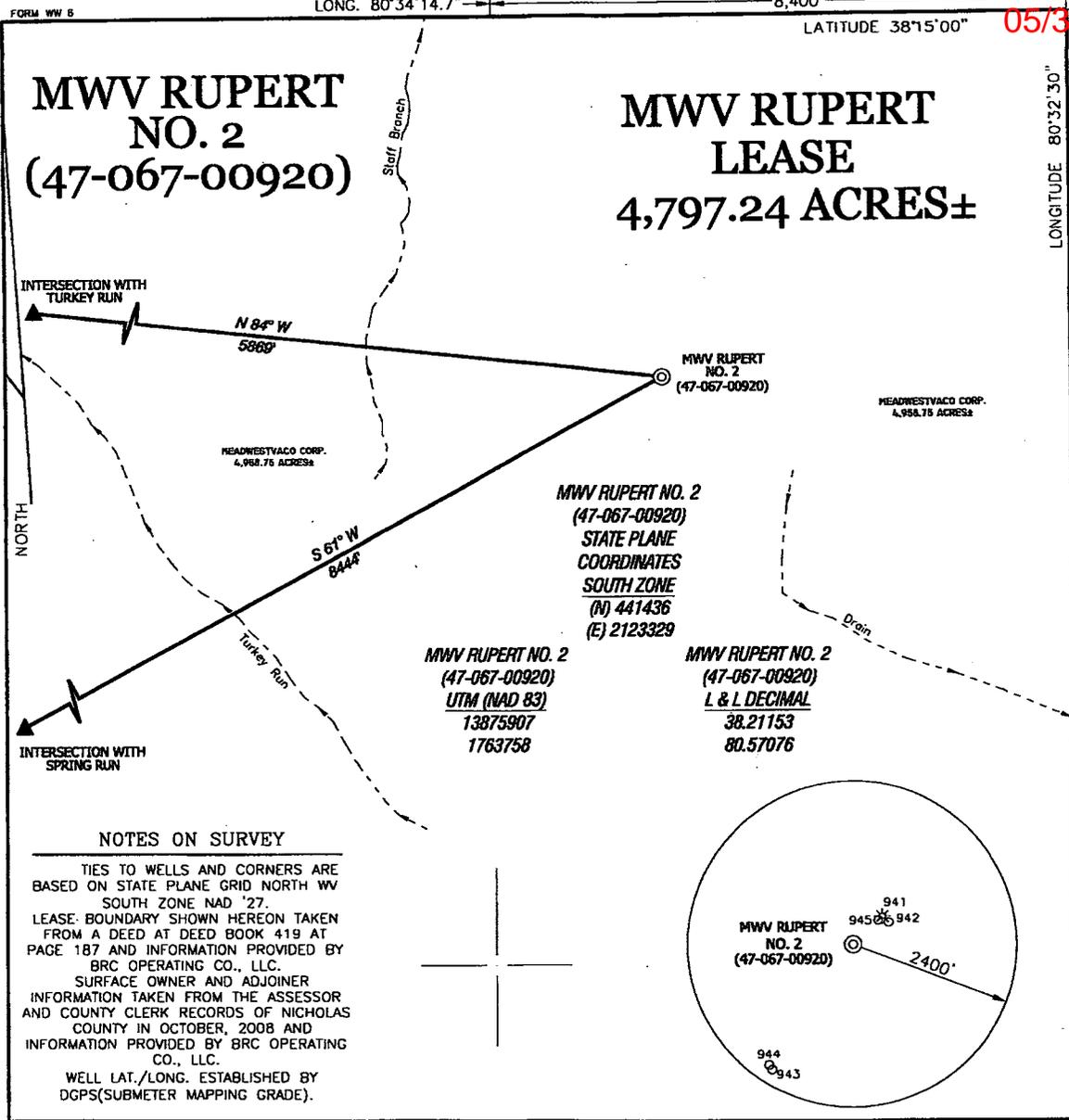


<p><b>HUPP Surveying &amp; Mapping</b>          P.O. BOX 647 BRANTISVILLE, WV 26147          PH (304)354-7088 - E-MAIL hupp@frontier.net</p>	<p>1" = 1000'          Richmond Quarry</p>	<p><b>BRC OPERATING CO. LLC</b>          200 Crescent Court Suite 200          Dallas, TX 75201</p>
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47-067-00920P

05/31/2019



**MWV RUPERT  
NO. 2  
(47-067-00920)**

**MWV RUPERT  
LEASE  
4,797.24 ACRES±**

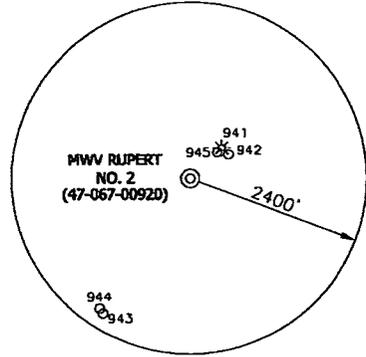
**MWV RUPERT NO. 2  
(47-067-00920)  
STATE PLANE  
COORDINATES  
SOUTH ZONE  
(N) 441436  
(E) 2123329**

**MWV RUPERT NO. 2  
(47-067-00920)  
UTM (NAD 83)  
13875907  
1763758**

**MWV RUPERT NO. 2  
(47-067-00920)  
L & L DECIMAL  
38.21153  
80.57076**

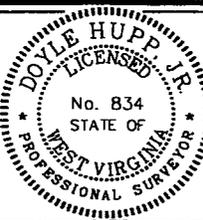
**NOTES ON SURVEY**

TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A DEED AT DEED BOOK 419 AT PAGE 187 AND INFORMATION PROVIDED BY BRC OPERATING CO., LLC. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF NICHOLAS COUNTY IN OCTOBER, 2008 AND INFORMATION PROVIDED BY BRC OPERATING CO., LLC. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).



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.

P.S. 834  
  
**HUPP Surveying & Mapping**  
 P.O. Box 647 Grantsville, WV 26147  
 (304) 354-7035 EMAIL: hupp@frontiernet.net



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE NOVEMBER 16, 20 10  
 OPERATORS WELL NO. MWV RUPERT NO. 2  
 API WELL NO. 47-067-00920 PPI  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. W1834 (BK38-26)  
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER GRADE) SCALE 1" = 1000'

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

WELL TYPE : OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION : ELEVATION 3,005' WATERSHED TURKEY RUN  
 DISTRICT KENTUCKY COUNTY NICHOLAS QUADRANGLE RICHWOOD 7.5'  
 SURFACE OWNER MEADWESTVACO CORP. ACREAGE 4,958.75±  
 ROYALTY OWNER MEADWESTVACO CORP., et al LEASE ACREAGE 4,797.24±  
 PROPOSED WORK : LEASE NO. \_\_\_\_\_  
 DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER   
 PHYSICAL CHANGE IN WELL (SPECIFY) PARTIAL PLUGGING TARGET FORMATION MARCELLUS SHALE  
 ESTIMATED DEPTH 8200'

WELL OPERATOR BRC OPERATING CO., LLC DESIGNATED AGENT MARC A. MONTELEONE  
 ADDRESS 200 CRESCENT COURT, SUITE 200 DALLAS, TX 75201 ADDRESS P.O. Box 1386 Charleston WV 25325

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LONGITUDE 80°32'30"  
 14.020'  
 LAT. 38°12'41.5"



Select County: **(025) Greenbrier** Select datatypes:  (Check All)

Enter Permit #: **34**

Location  Production  Plugging  
 Owner/Completion  Stratigraphy  Sample  
 Pay/ShowWater  Logs  Btm Hole Loc

[Table Descriptions](#)  
[County Code Translations](#)  
[Permit/Numbering Series](#)  
[Usage Notes](#)  
[Contact Information](#)  
[Disclaimers](#)  
[WVGES Main](#)  
["Pipeline-Plus" New](#)

WV Geological & Economic Survey:

Well: County = 025 Permit = 34

Report Time: Monday, May 20, 2019 11:08:36 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LONG_DD	UTME	UTMN
4702500034	Greenbrier	34	Falling Spring	Fork Mountain	Lobelia	38.202959	-80.448032	548327.7	4228478.1

Bottom Hole Location Information:

API	EP_FLAG	UTME	UTMN	LONG_DD	LAT_DD
4702500034	1	As Proposed	549357	4227290.4	-80.436244

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT	FM	TFM_EST_PR
4702500034	9/2/2012	Dvtd Orgnl Loc	Completed	Plum Creek Timberlands LP	2-1H	PCSF			Highland Resources Inc	BRC Operating Company, LLC	8114	Huntersville Chert		

Completion Information:

API	CMP_DT	SPUD_DT	ELEV_DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH_P_BEF	BH_P_AFT	G_MSRD_BY
4702500034	9/2/2012	8/6/2011	3685	Ground Level	Unnamed	Huntersville Chert	to Marcellus	Development Well	Gas	Rotary	Fractured	7943	12919	12919		3355	300										3350	35

Comment: 9/2/2012 Additional Mineral Owners: BRC Appalachian Minerals I LLC/OXY USA INC

Pay/ShowWater Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4702500034	9/2/2012	Water	Fresh Water	Vertical			1500						
4702500034	9/2/2012	Water	Salt Water	Vertical			2350	Mississippian					
4702500034	9/2/2012	Pay	Gas	Deviated	8217	to Marcellus		to Marcellus					

Production Gas Information: (Volumes in Mcf) \* 2018 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4702500034	BRC Operating Company, LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4702500034	BRC Operating Company, LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4702500034	BRC Operating Company, LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4702500034	BRC Operating Company, LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4702500034	BRC Operating Company, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) \*\* some operators may have reported NGL under Oil \* 2018 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4702500034	BRC Operating Company, LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4702500034	BRC Operating Company, LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4702500034	BRC Operating Company, LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4702500034	BRC Operating Company, LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4702500034	BRC Operating Company, LLC	2017	0												

Production NGL Information: (Volumes in Bbl) \*\* some operators may have reported NGL under Oil \* 2018 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4702500034	BRC Operating Company, LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4702500034	BRC Operating Company, LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4702500034	BRC Operating Company, LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4702500034	BRC Operating Company, LLC	2017	0												

Production Water Information: (Volumes in Gallons) \* 2018 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4702500034	BRC Operating Company, LLC	2017	0												

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4702500034	Dvtd Orgnl Loc	Ravendist#Avis Ss	Well Record	1770	Reasonable	63	Reasonable	3685	Ground Level
4702500034	Dvtd Orgnl Loc	Lo Maxton	Well Record	2107	Reasonable	13	Reasonable	3685	Ground Level
4702500034	Dvtd Orgnl Loc	Greenbrier Group	WVGES Staff Geologist	2211	Reasonable			3685	Ground Level
4702500034	Dvtd Orgnl Loc	Big Lime	Well Record	2359	Reasonable	318	Reasonable	3685	Ground Level
4702500034	Dvtd Orgnl Loc	Big Injan (Gmbr)	Well Record	2731	Reasonable	32	Reasonable	3685	Ground Level
4702500034	Dvtd Orgnl Loc	Squaw	Well Record	2763	Reasonable	20	Reasonable	3685	Ground Level
4702500034	Dvtd Orgnl Loc	Weir	Well Record	2929	Reasonable	8	Reasonable	3685	Ground Level
4702500034	Dvtd Orgnl Loc	Berea Ss	Well Record	3350	Reasonable	20	Reasonable	3685	Ground Level
4702500034	Dvtd Orgnl Loc	UDev undf/Ber/LoHURN	WVGES Staff Geologist	3370	Reasonable			3685	Ground Level
4702500034	Dvtd Orgnl Loc	Gordon	Well Record	3436	Reasonable	32	Reasonable	3685	Ground Level
4702500034	Dvtd Orgnl Loc	Lower Huron	Well Record	3719	Reasonable	2663	Qstrble Pick	3685	Ground Level
4702500034	Dvtd Orgnl Loc	Rhinestreet Sh	Well Record	7533	Reasonable	83	Reasonable	3685	Ground Level
4702500034	Dvtd Orgnl Loc	Up Marcellus	Well Record	7814	Reasonable	101	Reasonable	3685	Ground Level
4702500034	Dvtd Orgnl Loc	Purcell Ls Mbr	Well Record	7915	Reasonable	15	Reasonable	3685	Ground Level
4702500034	Dvtd Orgnl Loc	to Marcellus	Well Record	7930	Reasonable	88	Reasonable	3685	Ground Level
4702500034	Dvtd Orgnl Loc	Onondaga Ls	Well Record	7998	Reasonable	10	Qstrble Pick	3685	Ground Level
4702500034	Dvtd Orgnl Loc	Huntersville Chert	Well Record	8008	Reasonable			3685	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FROM
4702500034	1	8119		G.C.D.N.T.*	Y	N	1	8062	6736	8107	6736	8083	7854	8105			6735	8119	Y	Y	N		3674	3644	3674	3674	

47-025-00034-P

Comment: \*logs; caliper, tension, bit size, PEF, laterolog, Th/K ratio, Th/U ratio, Th, U, K, DPHZ, elemental spectroscopy, dipmeter, coring report, mechanical coring logs. 1"-100' scale avail.

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
<a href="#">4702500034acldenna.tif</a>
<a href="#">4702500034acldngeo.tif</a>
<a href="#">4702500034aqo_1.tif</a>
<a href="#">4702500034aqo_2.tif</a>
<a href="#">4702500034aqo_3.tif</a>
<a href="#">4702500034aqo_4.tif</a>
<a href="#">4702500034ao.tif</a>

**Quick Reference Guide for Log File Names:** For more info about WVGES scanned logs click [here](#)

**geologic log types:**

- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other<sup>1</sup>
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

**mechanical log types:**

- b cement bond
- c caliper
- o other<sup>1</sup>
- p perforation depth control or perforate

<sup>1</sup>other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

471-025-00034F

47-067-00920P

05/31/2019

WW-4A  
Revised 6-07

1) Date: February 20, 2019  
2) Operator's Well Number  
MWV Rupert 2  
3) API Well No.: 47 - 67 - 00920

**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>N/A</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>N/A</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Jeremy James</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 36</u>	Name <u>N/A</u>
<u>Clendenin, WV 25045</u>	Address _____
Telephone <u>304-951-2596</u>	_____

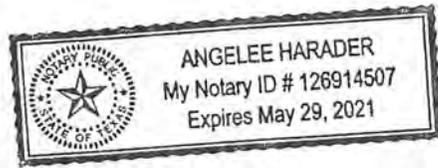
**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

- (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 5-29-2021

**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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

47-067-00920P

05/31/2019

WW-9  
(5/16)

API Number 47 - 67 - 00920  
Operator's Well No. MWV Rupert 2

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) Turkey Run Quadrangle Richwood 7.5

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 \_\_\_\_\_)

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 *Charles Brightman*

Company Official (Typed Name) CHARLES BRIGHTMAN

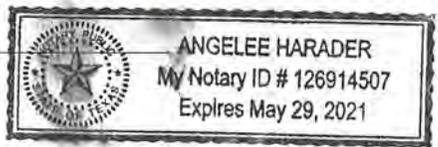
Company Official Title DESIGNATED AGENT

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

Angelee Harader

Notary Public

My commission expires 5-29-2021



47-067-00920P

05/31/2019

Form WW-9

Operator's Well No. MWV Rupert 2  
API#4706700920

Proposed Revegetation Treatment: Acres Disturbed +1 - 1.3 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
<u>N/A</u>	
_____	
_____	
_____	

Seed Type	lbs/acre
<u>Tall Fescue Blend</u>	<u>250</u>
<u>43% Kentucky 31 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: Jeremy James 

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

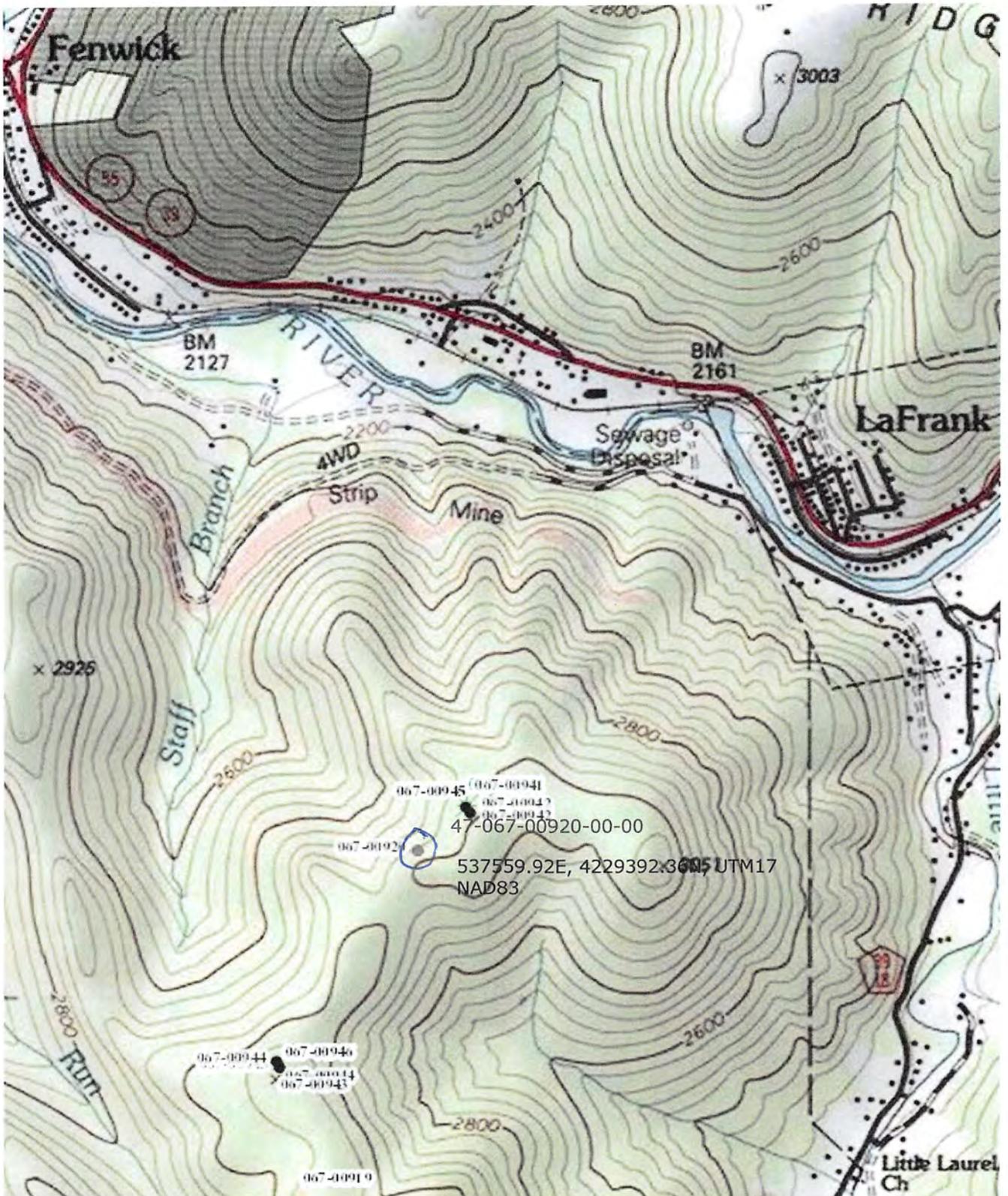
\_\_\_\_\_

\_\_\_\_\_

Title: inspector OOG Date: 4-1-19

Field Reviewed? (  ) Yes (  ) No

RECEIVED  
Office of Oil and Gas  
APR 10 2019  
WW 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: 47-6700920 WELL NO.: MWV Rupert 2

FARM NAME: \_\_\_\_\_

RESPONSIBLE PARTY NAME: BRC Operating Company, LLC

COUNTY: Nicholas DISTRICT: Kentucky

QUADRANGLE: Richwood 7.5

SURFACE OWNER: Weyerhaeuser Company

ROYALTY OWNER: Westrock Company

UTM GPS NORTHING: ~~4229372.21~~ 4229392.36

UTM GPS EASTING: ~~547577.70~~ 537559.92 GPS ELEVATION: 3005'

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

DESIGNATED AGENT  
Title

4/16/19  
Date