



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, June 11, 2019
WELL WORK PLUGGING PERMIT
Horizontal Plugging

BRC OPERATING COMPANY, LLC
200 CRESCENT COURT, SUITE 1900

DALLAS, TX 75201

Re: Permit approval for MWV RUPERT 5H
47-067-00945-00-00

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: MWV RUPERT 5H
Farm Name: WEYERHAEUSER COMPANY
U.S. WELL NUMBER: 47-067-00945-00-00
Horizontal Plugging
Date Issued: 6/11/2019

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.

06/14/2019

WW-4B
Rev. 2/01

- 1) Date February 20, 2019
- 2) Operator's
Well No. MWV Rupert 5H
- 3) API Well No. 47-67 - 00945 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 3025 Watershed Staff Branch
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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WV Department of
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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  Date 3-29-19

MWV Rupert 5H

5-1/2" 20# P110 production casing set at 12,200' and cemented to surface/topped off
Shallowest perforation is @ 11,630'

MIRU workover rig and BOP

Perform BOP function test

Fill casing with ~~6% KCl~~ mud. GEL

RIH with wire line and retrieve plugs @ 4352 and 4490

RIH with wire line and set CIBP @ ~~6,810'~~ 6850' GEL

TIH with 2-7/8" workstring open ended to 6,850'

RU Halliburton cement unit

M&P 8.9 bbl Class A cement @ 15.6 ppg

Set 1st plug from ~~6810~~ to 6410' 6850-6450' GEL

Displace with 6% KCl mud GEL

POOH 3 stands above ~~6410'~~ 6450' and WOC

TIH and tag cement.

M&P 8.9 bbl Class A cement @ 15.6 ppg

Set 2nd balanced plug from 1600 to 1,200'

Displace with 6% KCl mud. POOH 3 stands above 900'

WOC. TIH and tag cement.

M&P 8.9 bbl Class A cement @ 15.6 ppg

Set 3rd plug from 400' to surface. WOC

Cut production, intermediate and surface casing 2' below surface

Weld cap with API number and set monument. PER WV STATE CODE.

Add 100ft cement plus 3075-2975
(Sea level) GEL

GEL

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

★ IF KICK OFF POINT IS
7130', SET CIBP AS
CLOSE TO THAT DEPTH
AS POSSIBLE.

JW m^s L...
6/11/19

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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: 1/22/13 REV. 11/12/14
API #: 47-67-00945

Farm name: MeadWestvaco Corp. Operator Well No.: MWV Rupert 5H

LOCATION: Elevation: 3,025' Quadrange: Richwood

District: Kentucky County: Nicholas
Latitude: 13.650 Feet South of 39 Deg. 15 Min. 00 Sec.
Longitude: 8.010 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: BRC Operating Company, LLC

Address:	Casing & Tubing	Used in drilling	Left in well	Coment fill up Cu. Ft.
200 Crescent Court, Suite 200 Dallas, TX 75201	20"	130'	130'	180 Tail
Agent: Marc A. Montelcone	13-3/8"	1,550'	1,550'	1,443 Tail
Inspector: Ed Gainer	9 5/8"	6,799'	6,799'	2,706 Lead/202 Tail
Date Permit Issued: 10/7/10	5 1/2"	12,200'	12,200'	1,388 Lead/1,757 Tail
Date Well Work Commenced: 6/23/11				
Date Well Work Completed: 7/29/11				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 7,728				
Total Measured Depth (ft): 12,200				
Fresh Water Depth (ft.): 182				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? N				
Coal Depihs (ft.): N/A				
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 Marcellus Pay zone depth (ft) 7,600 - 7,760
Gas: Initial open flow 0 MCF/d Oil: Initial open flow - Bbl/d
Final open flow 0 MCF/d Final open flow - Bbl/d
Time of open flow between initial and final tests 72 Hours
Static rock Pressure 3,100 psig (surface pressure) after 36 Hours

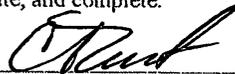
Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after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

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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

11/12/2014
Date

Were core samples taken? Yes _____ No XWere cuttings caught during drilling? Yes X No _____Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list MWD Gamma Ray (7,043' - 12,407')
MWD - Measurement While Drilling

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:

Perforations - 4 sets:

12,432' - 12,292' 25 Holes

12,252' - 12,112' 25 Holes

12,072' - 11,932' 25 Holes

11,892' - 11,752' 25 Holes

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

Formations Encountered: _____ Top Depth / _____ Bottom Depth
Surface:

<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	7382
Devonian	Rhinestreet	Organic Shale	7382	7620
Devonian	Marcellus	Organic Shale	7620	TD

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BRC OPERATING CO., LLC. MWV RUPERT NO. 5-H

Install Minimum 12' Culvert

ALL ROADS SHOWN HEREIN ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH DEPT. OF TRANSPORTATION MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

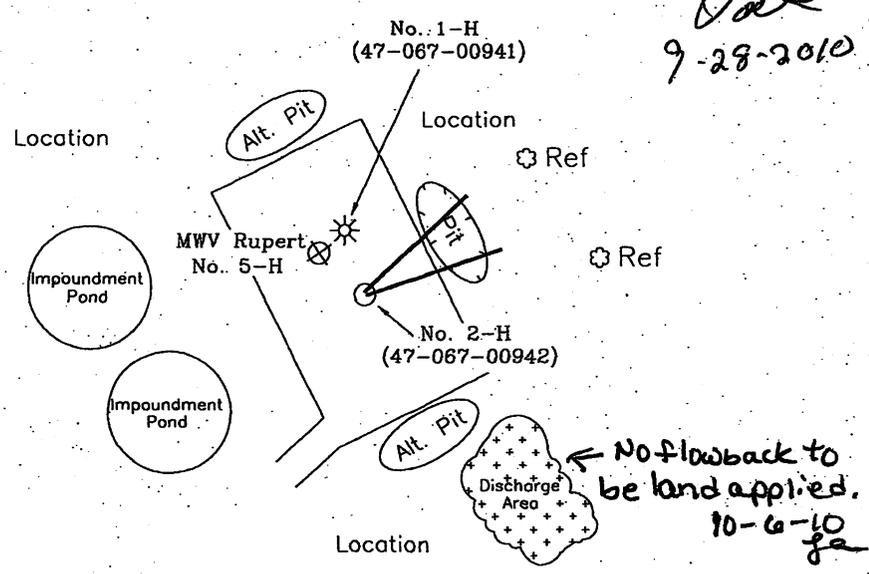
SEDIMENT BASINS, TRAPS AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS BRASH INLETS AND OUTLETS AS REQUIRED IN THE WV D.E.P. OIL AND GAS BMP MANUAL. FIELD CONDITIONS, ROCK OUTCROPS AND BEDROCK MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST, ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFYING 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.

TEMPORARILY SEED AND MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.
CUT AND STACK ALL TIMBER ABOVE 6-INCHES IN DIAMETER AND THICKER.
STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL.

Detail Sketch for MWV Rupert No. 5-H



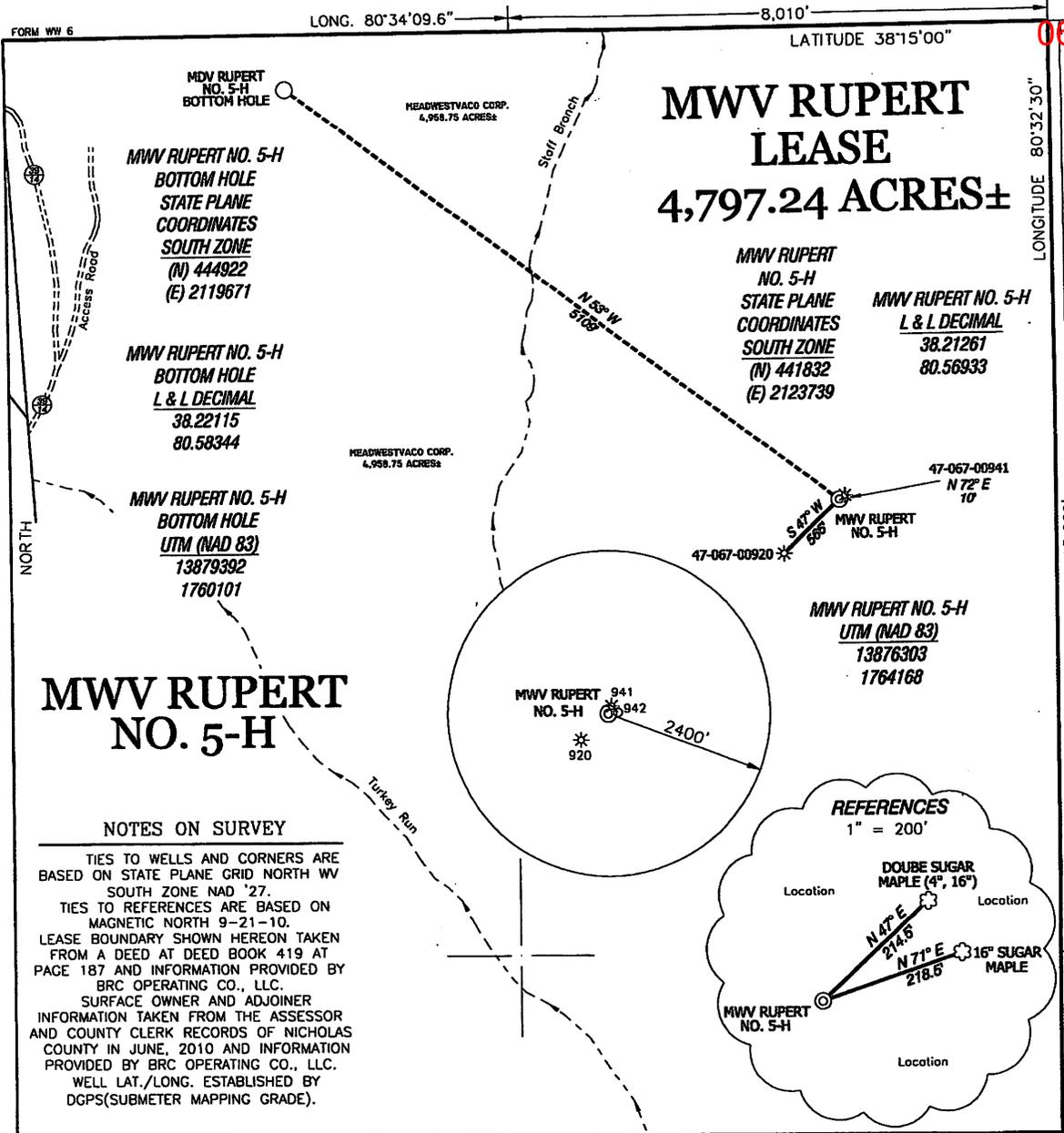
Drawing Not To Scale NOTICE

HUPP Surveying & Mapping P.O. BOX 647 GRANTSVILLE, WV 26147 PH: (304)354-7035 E-MAIL: hupp@frontiernet.net	Drafted BY:	Date Drafted:	Job Number:
	DB	09/23/10	W20081834

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47-067-00945P

06/14/2019



**MWV RUPERT NO. 5-H
BOTTOM HOLE
STATE PLANE
COORDINATES
SOUTH ZONE
(N) 444922
(E) 2119671**

**MWV RUPERT NO. 5-H
BOTTOM HOLE
L & L DECIMAL
38.22115
80.58344**

**MWV RUPERT NO. 5-H
BOTTOM HOLE
UTM (NAD 83)
13879392
1760101**

MWV RUPERT LEASE 4,797.24 ACRES±

**MWV RUPERT
NO. 5-H
STATE PLANE
COORDINATES
SOUTH ZONE
(N) 441832
(E) 2123739**

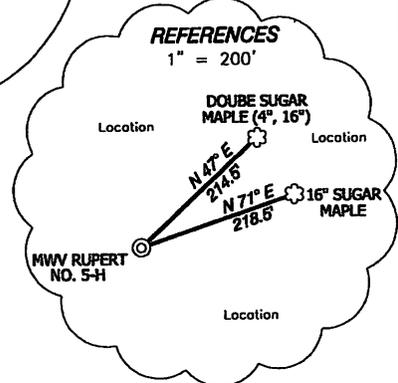
**MWV RUPERT NO. 5-H
L & L DECIMAL
38.21267
80.56933**

**MWV RUPERT NO. 5-H
UTM (NAD 83)
13876303
1764168**

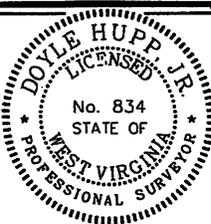
MWV RUPERT NO. 5-H

NOTES ON SURVEY

TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 9-21-10.
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 JUNE, 2010 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 *Doyle Hupp Jr.*
HUPP Surveying & Mapping
P.O. Box 647 Grantsville, WV 26147
(304) 354-7035 EMAIL: hupp@troniernet.net

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE SEPTEMBER 23, 20 10
OPERATORS WELL NO. MWV RUPERT NO. 5-H
API WELL NO. 47-067-00945H
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. W1834 (BK46-37)
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 ___ "GAS" PRODUCTION STORAGE ___ DEEP ___ SHALLOW

LOCATION : ELEVATION 2995' WATERSHED STAFF BRANCH
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) _____ TARGET FORMATION MARCELLUS SHALE
ESTIMATED DEPTH TVD- 7,742' MD- 12,865'

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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APR 10 2019
WV Department of Environmental Protection

COUNTY NAME
PERMIT

06/14/2019

WW-4A
Revised 6-07

1) Date: February 20, 2019
2) Operator's Well Number
MWV Rupert 5H
3) API Well No.: 47 - 67 - 00945

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

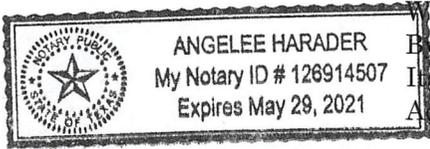
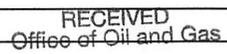
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Weyerhaeuser Company</u>	Name <u>N/A</u>
Address <u>220 Occidental Ave South</u>	Address _____
<u>Seattle, WA 98104</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
_____	Address _____
(c) Name _____	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 <u>BRC Operating Company, LLC</u>
	By: <u>Charles Brightman</u>
	Title: <u>Agent</u>
	Address <u>286 Sunday Rd.</u>
	<u>Hico, WV 25854</u>
Telephone <u>304-880-8121</u>	

Subscribed and sworn before me this 2nd day of April, 2019

Angelee Harader Notary Public

My Commission Expires 5-29-2021

APR 10 2019
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.

WW-9
(5/16)

06/14/2019

API Number 47 - 67 - 00945
Operator's Well No. MWV Rupert 5H

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) Staff Branch 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.? 6 NO PIT

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 _____)

WELL EFFLUENT WILL BE CONTAINED IN TANKS UNTIL DISPOSED OF OFFSITE PROPERLY, JAW

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.

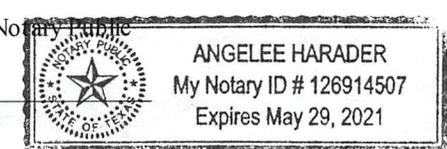
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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 *Charles Brightman*
Company Official (Typed Name) CHARLES BRIGHTMAN
Company Official Title DESIGNATED AGENT

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

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

Angelee Harader
My commission expires 5-29-2021



47-067-00945P

06/14/2019

Form WW-9

MWV Rupert 5H / API#47-6700945

Operator's Well No. _____

Proposed Revegetation Treatment: Acres Disturbed +1 - 4.5 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 & fiber = 500 / EA Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

N/A

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: _____

Comments: _____

Add 100ft cement plus 3075-2975 (see level)

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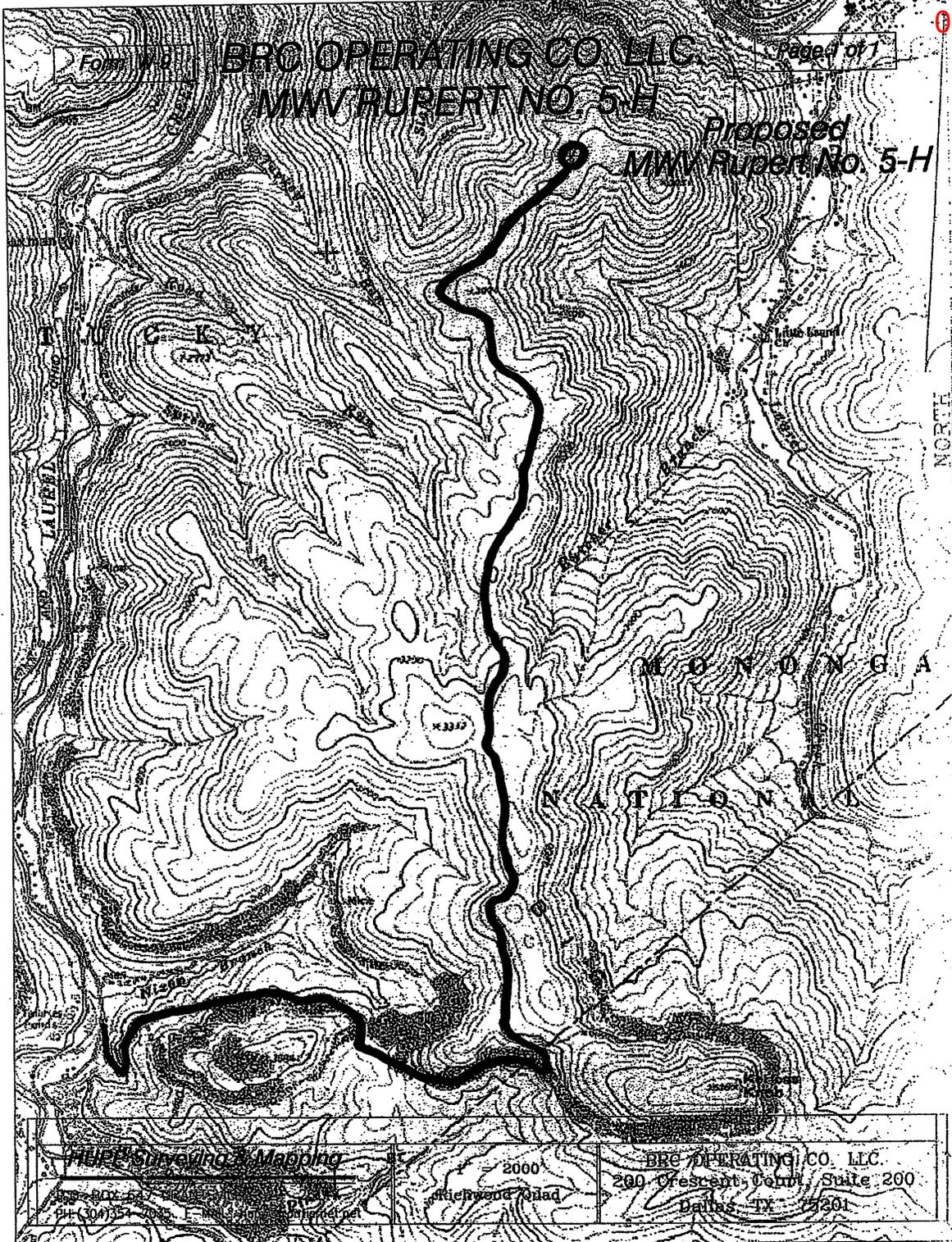
Title: inspector OOG

Date: 3-29-19

Field Reviewed?

Yes

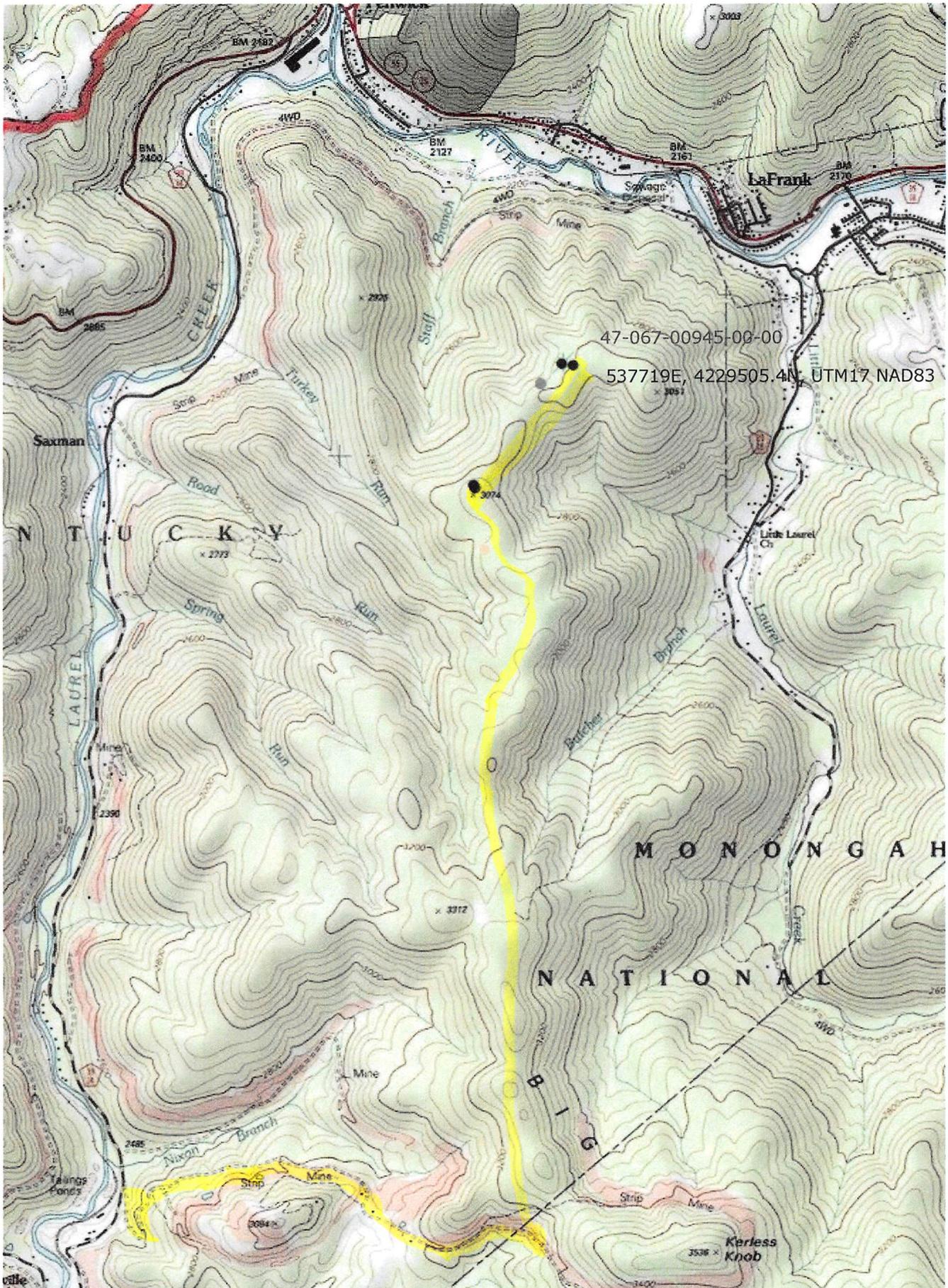
No



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Environmental Protection



47-067-00945-00-00
537719E, 4229505.4N UTM17 NAD83

WW-7
8-30-06



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

API: 47-6700945 WELL NO.: MWV Rupert 5H

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: 4229505.39

UTM GPS EASTING: 537718.99 GPS ELEVATION: 3025'

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

7/16/19
Date