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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)

Thursday, July 04, 2019  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

BRC OPERATING COMPANY, LLC  
200 CRESCENT COURT, SUITE 1900

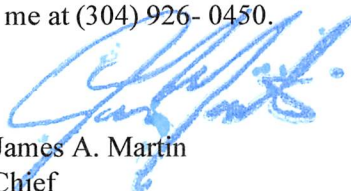
DALLAS, TX 75201

Re: Permit approval for MWV RUPERT 3-1H  
47-025-00044-00-00

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 3-1H  
Farm Name: WEYERHAEUSER COMPANY  
U.S. WELL NUMBER: 47-025-00044-00-00  
Vertical Plugging  
Date Issued: 7/4/2019

## 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

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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.

WW-4B  
Rev. 2/01

- 1) Date February 20, 2019
- 2) Operator's  
Well No. MWV Rupert 3-1H
- 3) API Well No. 47-25 - 00044 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 X or Underground storage \_\_\_) Deep X / Shallow \_\_\_
- 5) Location: Elevation 3589 Watershed Baber Branch  
District Williamsburg County Greenbrier 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 Gary Kennedy Name Halliburton  
Address 66 Old Church Rd. Address 4999 East Pointe Dr.  
Pipestream, WV 25979 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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Office of Oil and Gas  
  
APR 10 2019

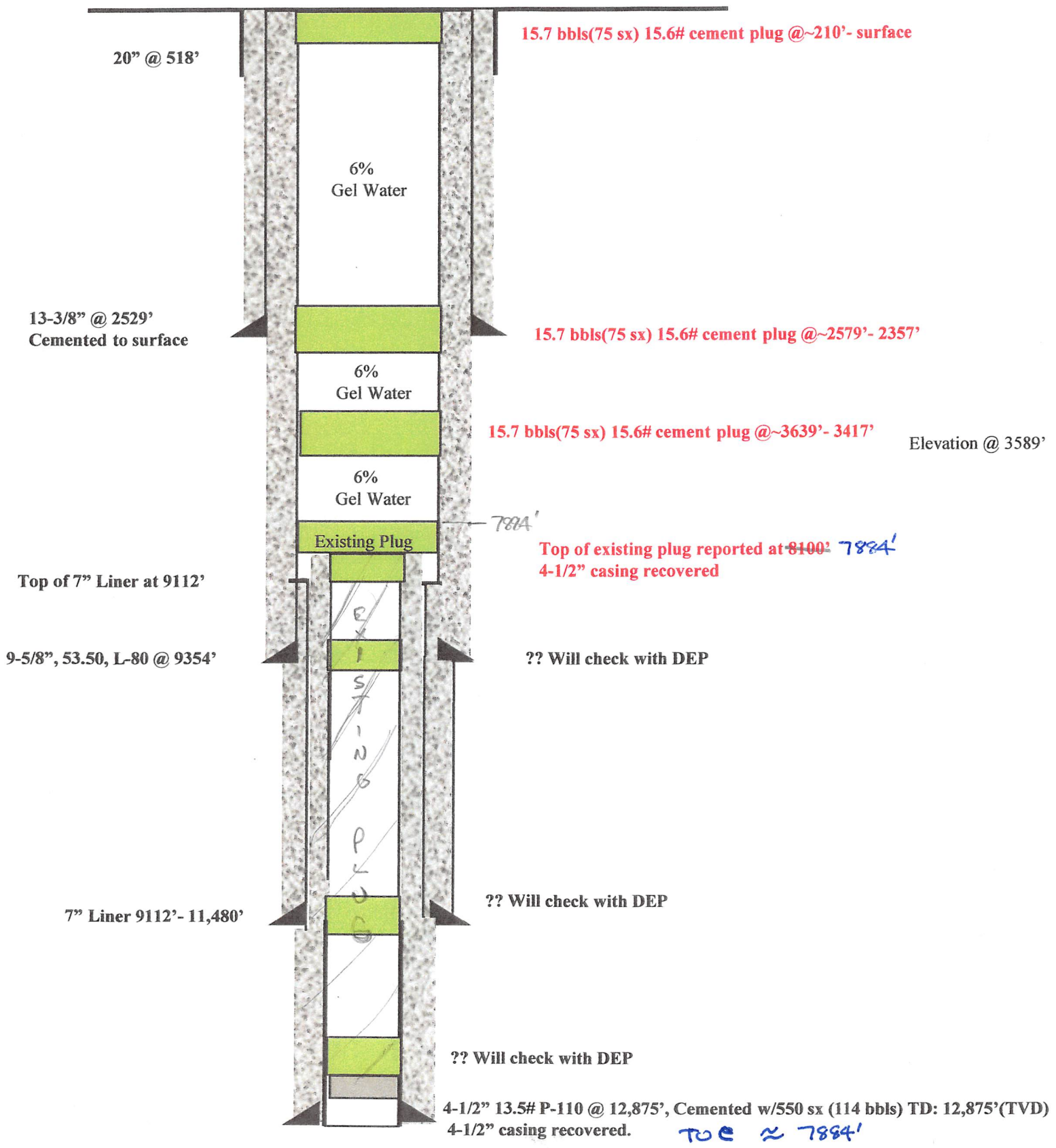
WV Department of  
Environmental Protection

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

Work order approved by inspector  Date 3/28/19

# BRC Operating Company, LLC MWV Rupert 3-1H API No. 47-025-00044 Proposed Wellbore Schematic

Prepared by: Tim McGilvray



4-1/2" 13.5# P-110 @ 12,875', Cemented w/550 sx (114 bbls) TD: 12,875'(TVD)  
4-1/2" casing recovered. *TUC ≈ 7884'*

## MWV Rupert 3-1H

9-5/8" 53.5# L80 intermediate casing set at 9,356' and cemented to surface/topped off

Previous plug set @ ~~8,100'~~ 7884' ACCORDING TO WR 38 & WR 35

MIRU workover rig and BOP

Perform BOP function test

Fill casing with 6% GEL.

TIH with 2-7/8" workstring open ended to 3639'

RU Halliburton cement unit

M&P 15.7 bbl Class A cement @ 15.6 ppg

Set 1<sup>st</sup> balanced plug from 3639' TO 3417'.

Displace with 6% GEL.

POOH 3 stands above 3400' and WOC

TIH and tag cement. ADD CEMENT IF NEEDED.

M&P 15.7 bbl Class A cement @ 15.6 ppg

Set 2<sup>nd</sup> plug from 2579' TO 2357'. DISPLACE W/ 6% GEL.

WOC. ADD CEMENT IF NEEDED.

SET 3<sup>RD</sup> PLUG FROM 210' TO SURFACE WITH 15.7 BKS 15.6 # CEMENT.

WOC. TOP OFF IF NEEDED.

SET MONUMENT PER WV STATE CODE.

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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: Plum Creek Timberlands LP Operator Well No.: MWV Rupert 3-1H

LOCATION: Elevation: 3589 Quadrangle: Richwood, WV  
District: Williamsburg County: Greenbrier  
Latitude: 3,990 Feet South of 38 Deg. 10 Min. 00 Sec.  
Longitude: 11,920 Feet West of 80 Deg. 30 Min. 00 Sec.

Well Type: OIL \_\_\_\_\_ GAS X

Company BRC Operating Co., LLC Coal Operator Highland Mineral Resources, LLC  
200 Crescent Court, Suite 1900 or Owner Minerals Dept., Five Concourse Parkway, Suite 1650  
Dallas, Texas 75201 Atlanta, Georgia 30328  
Agent Charles Brightman Coal Operator \_\_\_\_\_  
Permit Issued Date 8/7/2017 or Owner \_\_\_\_\_

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of \_\_\_\_\_ ss:

\_\_\_\_\_ and \_\_\_\_\_ 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 \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement, Class H+Poz	(4-1/2") 12,875'	8,612'	0 to 8,450'	
	(9-5/8") 8,612'	7,884'		

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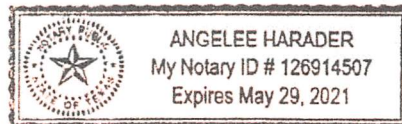
Description of monument: 6" dia. steel post with metal plate identifying API number and that the work of plugging and filling said well was completed on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

And further deponents saith not. \_\_\_\_\_

Sworn and subscribe before me this 5<sup>th</sup> day of April, 2017

My commission expires: 5-29-2021

Angelee Harader  
Notary Public



Affidavit reviewed by the Office of Oil and Gas: \_\_\_\_\_ Title: \_\_\_\_\_

WR-35  
Rev. 8/23/13

Revised: 04/04/2019

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

API 47-025-00044 County Greenbrier District Williamsburg  
 Quad Richwood Pad Name MWV Rupert Pad 3 Field/Pool Name Reedsville/Martinsburg  
 Farm name Plum Creek Timberlands LP Well Number MWV Rupert 3-1H  
 Operator (as registered with the OOG) BRC Operating Company, LLC  
 Address 200 Crescent Court, Suite 1900 City Dallas State Texas Zip 75201

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
 Top hole Northing 38.15609 Easting 80.54128  
 Landing Point of Curve Northing Not applicable Easting Not applicable  
 Bottom Hole Northing 38.15600 Easting 80.54200

Elevation (ft) 3589 GL Type of Well  New  Existing Type of Report  Interim  Final  
 Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
 Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
 Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
 Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
 Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
 Production hole  Air  Mud  Fresh Water  Brine

Mud Type(s) and Additive(s)

AES Drilling Fluids, LLC

17-1/2"-Air/Mist; 12-1/4"-NaCl Water Based Polymer Gel; 8-1/2"-SBM

Date permit issued 5/31/16 Date drilling commenced 6/10/16 Date drilling ceased 9/9/16  
 Date completion activities began 11/16/16 Date completion activities ceased 2/13/17  
 Verbal plugging (Y/N) Y-Partial Plug Date permission granted 2/28/2017 Granted by James A. Martin

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

Freshwater depth(s) ft	<u>2400</u>	Open mine(s) (Y/N) depths	<u>N</u>
Salt water depth(s) ft	<u>2560</u>	Void(s) encountered (Y/N) depths	<u>N</u>
Coal depth(s) ft	<u>330</u>	Cavern(s) encountered (Y/N) depths	<u>N</u>
Is coal being mined in area (Y/N)	<u>N</u>		

Reviewed by:

\_\_\_\_\_

WR-35  
Rev. 8/23/13

API 47-025-00044 Farm name Plum Creek Timberlands LP Well number MWV Rupert 3-1H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	36"	30"	30'	New			Y
Surface	26"	20"	518'	New	J-55 /94#		Y
Coal							
Intermediate 1	17-1/2"	13-3/8"	2,529'	New	J-55/54.5#		Y
Intermediate 2	12-1/4"	9-5/8"	9,356'	New	L-80/53.5#		Y
Intermediate 3	8-1/2"	7"	11,480'	New	P-110/32#		Y
Production	6"	4-1/2"	12,875'	New	P-110/13.5#		Y
Tubing		2-3/8"	Removed	New	J-55/4.7"		Y
Packer type and depth set							

Comment Details Production (4-1/2") cut off at 8,450', 9 to 8,450' removed

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Quickcrete				81	0	48
Surface	HalCem	1420	15.6	1.21	1689.8	0	18
Coal							
Intermediate 1	VeriCem & HalCem	2748	15.6	1.21	3325.08	0	45
Intermediate 2	Prem NE 1	3465	15.0	1.33	4608.45	0	38
Intermediate 3	35:65 Class H	308	15.0	1.15	354.2	9112'	48
Production	35:65 Class H	555	15.0	1.15	638.25	8610'	48
Tubing							

Drillers TD (ft) 128875 Loggers TD (ft) 12875  
 Deepest formation penetrated Ordovician - Trenton Plug back to (ft) 7,884  
 Plug back procedure Production (4-1/2")-cement plug from 12875' to 8612' and Intermediate (9-5/8")-cement plug from 8612' to 7884'

Kick off depth (ft) Not applicable

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

Well cored  Yes  No Conventional Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING  
On all strings there was 1 centralizer placed 10' above the shoe with a stop collar and 1 centralizer placed 10' above the float collar with a stop collar. Additional centralizers were placed every 2nd joint back to surface.

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS

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

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WR-35  
Rev. 8/23/13

API 47-025-00044 Farm name Plum Creek Timberlands LP Well number MWV Rupert 3-1H

PRODUCING FORMATION(S)	DEPTHS
Ordovician Trenton Limestone	12260-12875 TVD _____ MD _____
Ordovician Utica-Pt.Pleasant	12020-12260 _____
Ordovician Reedsville Shale	11480-12020 _____
Marcellus	8230-8390 _____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface \_\_\_\_\_ psi Bottom Hole 5,520 psi DURATION OF TEST 820 hrs

OPEN FLOW Gas \_\_\_\_\_ Oil \_\_\_\_\_ NGL \_\_\_\_\_ Water \_\_\_\_\_ GAS MEASURED BY  
 Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
Uphole Formations	0	8200	0		
Genesco Ls/Sh	8200	8230			Ls/Sh
Marcellus Shale	8230	8390			Shale
Onondaga Ls	8390	8490			Ls
Oriskany Ss	8490	8610			Ss
Helderberg Ls/Sh	8610	9160			Ls/Sh
Salina Ls	9160	9360			Ls
Newburg Ls/Sh	9360	9480			Ls/Sh
McKenzie Ls	9480	9770			Ls
Rose Hill Shale	9770	10060			Shale
Unnamed Ss	10060	10100			Ss
Tuscarora Ss	10100	10250			Ss
Juniata Siltst	10250	11480			Siltst
Reedsville Sh	11480	12020	Continued see attached		Sh

Please insert additional pages as applicable.

Drilling Contractor Precision Drilling Company, LP  
 Address 10350 Richmond Ave., Suite 700 City Houston State Texas Zip 77042

Logging Company Paladin Geological Services, LLC  
 Address 13832 Sante Fe Crossing Dr. City Edmond State Ok Zip 73013

Cementing Company Halliburton  
 Address 1628 Jackson Mill Rd. City Jane Lew State WV Zip 26378

Stimulating Company Calfrac Well Services Corp.  
 Address 411 8th. Ave. City Alberta, Canada State \_\_\_\_\_ Zip \_\_\_\_\_

Please insert additional pages as applicable.

Completed by Chad A. Touchet Telephone 469-398-2232  
 Signature *Chad Touchet* Title Vice President Date 04/04/2019

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

WW-4A  
Revised 6-07

1) Date: February 20, 2019  
2) Operator's Well Number  
MWV Rupert 3-1H  
3) API Well No.: 47 - 25 - 00044

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

<b>4) Surface Owner(s) to be served:</b>	<b>5) (a) Coal Operator</b>
(a) Name <u>Weyerhaeuser Company</u>	Name <u>Highland Mineral Resources, LLC / Legal Dept.</u>
Address <u>220 Occidental Ave South</u>	Address <u>Five Concourse Parkway, Suite 1650</u>
<u>Seattle, WA 98104</u>	<u>Atlanta, GA 30328</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
<b>6) Inspector</b> <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>66 Old Church Ln.</u>	Name _____
<u>Pipestream, WV 25979</u>	Address _____
Telephone <u>304-382-8402</u>	_____

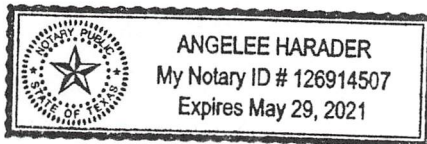
**TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:**

- (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 5-29-2021

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 Office of Oil and Gas  
 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](mailto:depprivacyoffier@wv.gov).

47-025-0004P

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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

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04/02/2019

Sent To  
**Weyerhaeuser Company**  
 Street and Apt. No. or PO Box No.  
**ATTN: Mr. Bill Niemi**  
 City, State, ZIP+4®  
**220 Occidental Ave South**

PS Form 3800, April 2017 Edition PSN 7530-01-000-9047 See Reverse for Instructions

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Certified Mail Fee	\$3.50
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<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

0126  
04

Postmark  
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Postage	\$1.15
Total Postage and Fees	\$7.45

04/02/2019

Sent To **Highland Mineral Resources**  
 Street and **Legal Department**  
 City, State, ZIP+4 **Five Concourse Parkway, Suite 1650**  
**Atlanta, GA 30328**

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

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Environmental Protection

WW-9  
(5/16)

API Number 47 - 25 - 00044  
Operator's Well No. MWV Rupert 3-1H

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) Baber 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.? \_\_\_\_\_

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 BRIGHTMAN  
Company Official Title DESIGNATED AGENT

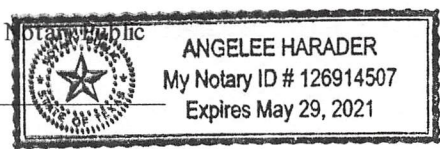
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WV Department of  
Environmental Protection

Subscribed and sworn before me this 3rd day of April, 20 19

[Signature]  
My commission expires 5-29-2021



Proposed Revegetation Treatment: Acres Disturbed +1 - 7.5 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
<u>N/A</u>		<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: *Guy Kuning*

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

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Office of Oil and Gas

APR 10 2019

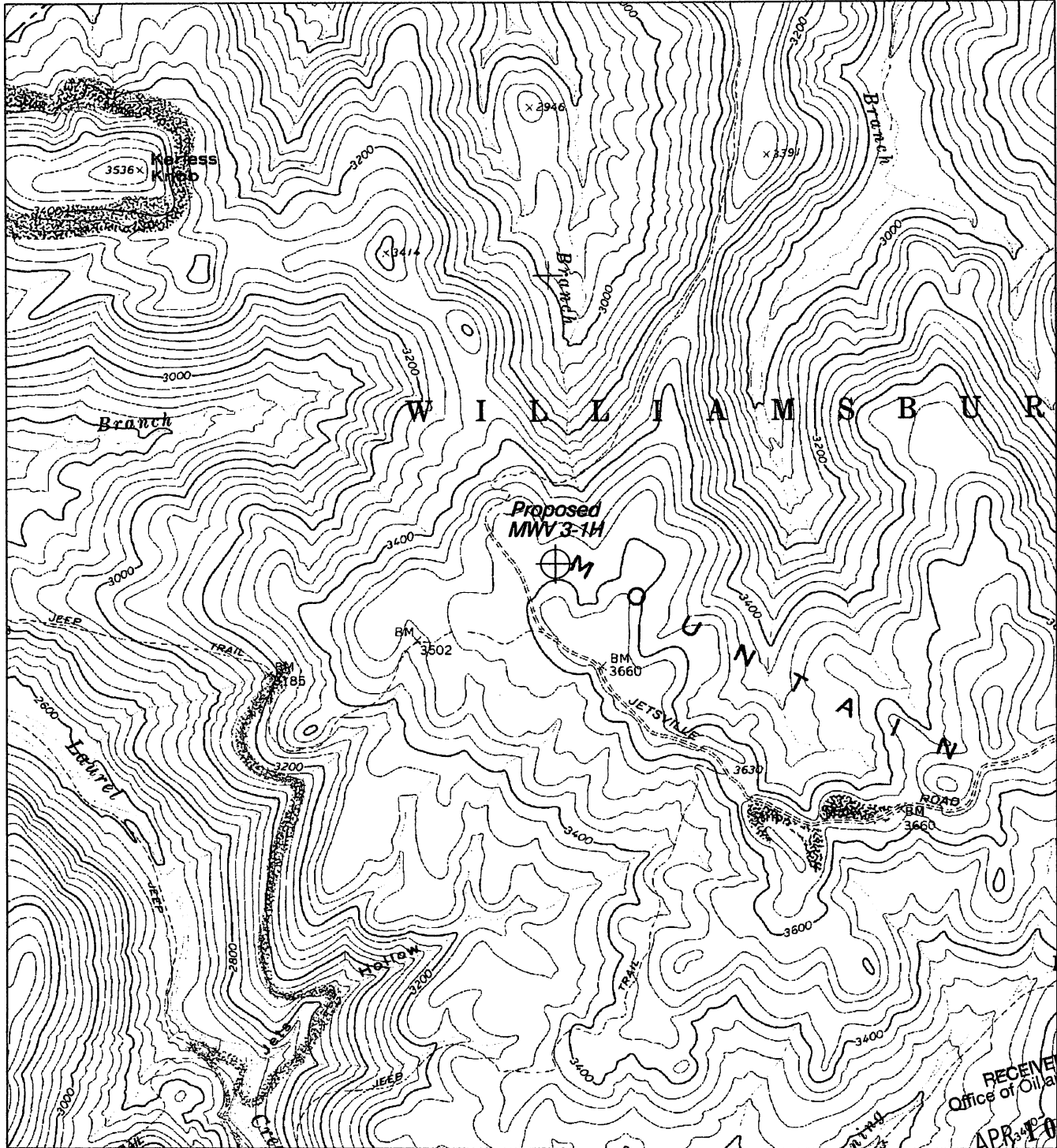
Title: *Inspector*

Date: 3/29/19

Field Reviewed? ( X ) Yes ( ) No

WV Department of  
Environmental Protection

# BRC OPERATING CO., LLC. MWV 3-1H



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### HUPP Surveying & Mapping

P.O. BOX 647 GRANTSVILLE, WV 26147  
PH: (304)354-7035 E-MAIL: hupp@frontiernet.net

1" = 1000'  
Richwood Quad

BRC OPERATING CO. LLC.  
200 Crescent Court, Suite 200  
Dallas, TX 75201

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: 47-2500044 WELL NO.: MWV Rupert 3-1H

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

RESPONSIBLE PARTY NAME: BRC Operating Company, LLC

COUNTY: Greenbrier DISTRICT: Williamsburg

QUADRANGLE: Richwood 7.5'

SURFACE OWNER: Weyerhaeuser Company

ROYALTY OWNER: Westrock Company

UTM GPS NORTHING: 4223238.31

UTM GPS EASTING: 540205.86 GPS ELEVATION: 3589'

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.

*Debra Brantner*  
Signature

DESIGNATED AGENT  
Title

11/6/19  
Date

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 57<sup>th</sup> St SE  
Charleston, WV 25304

ATTN: Mr. James Martin

RE: BRC Operating Company, LLC  
Deep Vertical Gas Well Development  
**Operators Well Number: Rupert 3-1H**  
**API Well Number: 47-2500044**  
**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](mailto:cdbrightman@live.com).

Respectfully,

  
Charles Brightman

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

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**Well Work Permit Modification Request****Form WW-9 Disposal Method Revisions****Date: October 4, 2016****Attachment****Underground Injection ( UIC Permit Number )****Fountain Quail Disposal, LLC, Marietta, Ohio**

- API # 34-105-23619-00-00 Mills Roscoe (SWIW#19 ) Status: Active/Well Company Name: Roscoe Mills Jr. Trust
- API # 34-105-23652-00-00 Mills Roscoe (SWIW#21) Status: Active/Well Company Name: Roscoe Mills Jr. Trust
- API # 34-105-23637-00-00 Harris C & W (SWIW#22) Status: Active/Well Company Name: Roscoe Mills Jr. Trust
- API # 34-105-23651-00-00 McKelvey (SWIW#23) Status: Active /Well Company Name: Murphy Oil Co.

**Buckeye Brine, LLC, Coshocton, Ohio**

- API # 34-031-27177-00-00 Adams (SWIW#10) Status: Active
- API # 34-031-27178-00-00 Adams (SWIW#11 ) Status: Active
- API #34-031-27241-00-00 Adams (SWIW#12 ) Status: Active

**Drill cuttings disposal method? –Landfill or offsite name/permit number?****Buckeye Brine, LLC, Uhrichsville, Ohio**

- Chief's Order No. 2014-04

**Enviro Tank Clean, Inc., Belpre, Ohio**

- Chief's Order No. 2014-10

**Shale Mountain Resources, East Palestine, Ohio**

- Chief's Order No. 2016-117

**Austin Master Services, LLC, Martins Ferry, Ohio**

- Chief's Order No. 2014-541

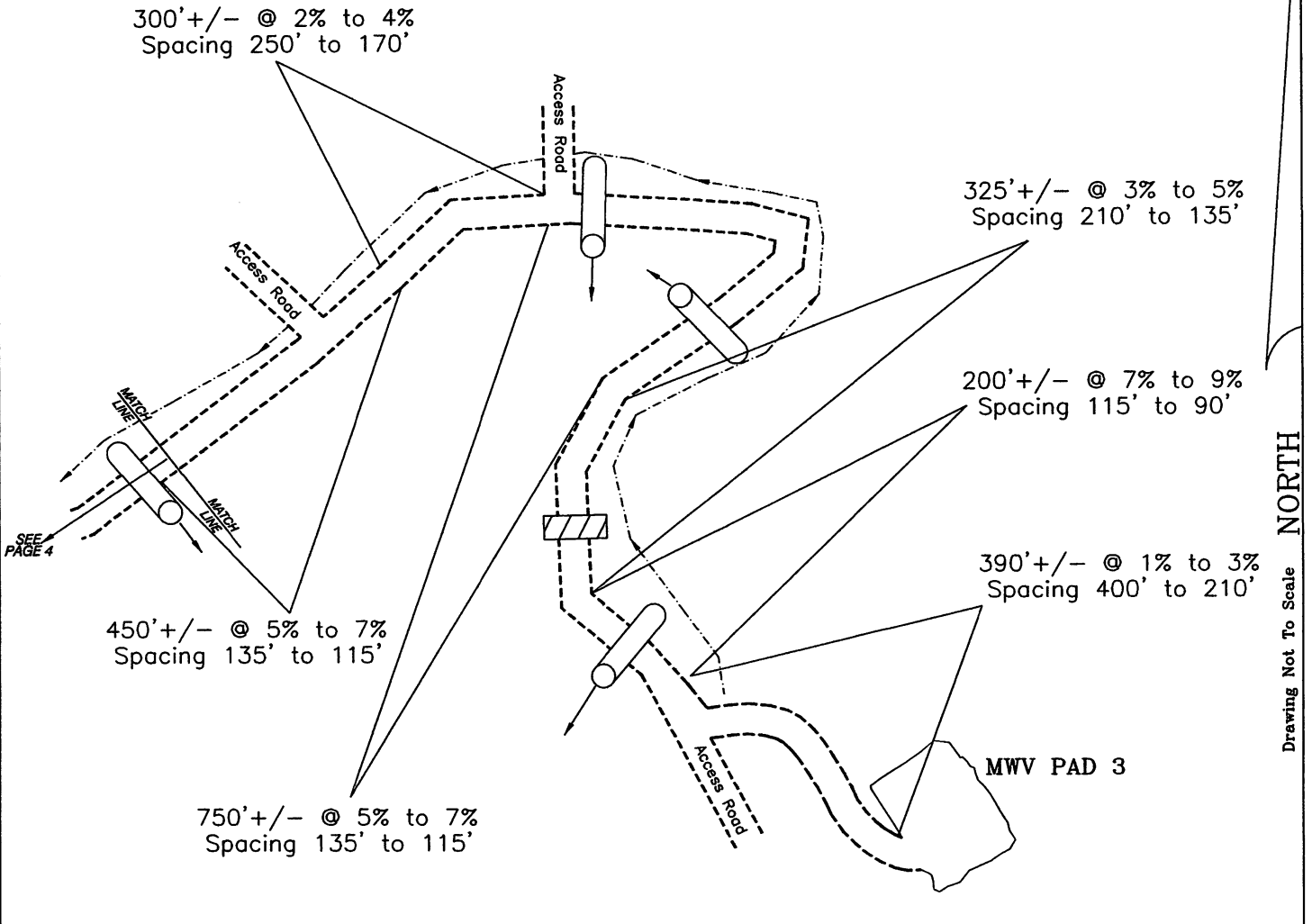
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# BRC OPERATING CO., LLC.

## MWV 3-1H

Form W-9

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Drawing Not To Scale NORTH

Road Is Existing.  
Upgrade Drainage Devices  
Where Needed.

 Install Minimum 12" Culvert

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH D.E.P. OIL AND GAS BMP 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 DRAIN 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.

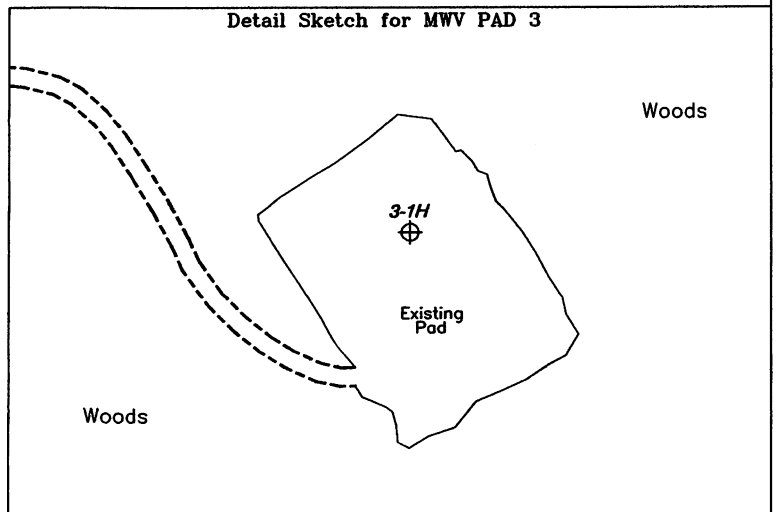
EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFYING TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

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.



**HUPP Surveying & Mapping**

Drafted BY:

Date Drafted:

Job Number:

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PH: (304)354-7035 E-MAIL: hupp@frontiernet.net

DB

08/06/15

W20081834

