

G70 – B GENERAL PERMIT APPLICATION
APPLICATION FOR NSR PERMIT
TEMPORARY CONSTRUCTION PERMIT UNDER 45CSR13

MWV RUPERT 3-1H VERTICAL GAS WELL

(MWV Pad 3)

PERMIT APPLICATION NUMBER R13-3332T

GREENBRIER COUNTY, WV

Prepared for:

BRC Operating Company

200 Crescent Court, Suite 1900

Dallas, Texas 75201

Submitted to:

West Virginia Department of Environmental Protection

Division of Air Quality

601 57th. Street, SE

Charleston, WV 25304

Prepared by:

New Tech Global Ventures

6000 Town Center Blvd., Suite 220

Canonsburg, Pa. 15319

July 14, 2016

Revised September 16, 2016



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY

601 57th Street, SE
Charleston, WV 25304
(304) 926-0475
www.dep.wv.gov/daq

**APPLICATION FOR NSR PERMIT
AND
TITLE V PERMIT REVISION
(OPTIONAL)**

PLEASE CHECK ALL THAT APPLY TO NSR (45CSR13) (IF KNOWN):

- CONSTRUCTION MODIFICATION RELOCATION
 CLASS I ADMINISTRATIVE UPDATE TEMPORARY
 CLASS II ADMINISTRATIVE UPDATE AFTER-THE-FACT

PLEASE CHECK TYPE OF 45CSR30 (TITLE V) REVISION (IF ANY):

- ADMINISTRATIVE AMENDMENT MINOR MODIFICATION
 SIGNIFICANT MODIFICATION

IF ANY BOX ABOVE IS CHECKED, INCLUDE TITLE V REVISION INFORMATION AS ATTACHMENT S TO THIS APPLICATION

FOR TITLE V FACILITIES ONLY: Please refer to "Title V Revision Guidance" in order to determine your Title V Revision options (Appendix A, "Title V Permit Revision Flowchart") and ability to operate with the changes requested in this Permit Application.

Section I. General

1. Name of applicant (as registered with the WV Secretary of State's Office): BRC Operating Company LLC		2. Federal Employer ID No. (FEIN): 26-3500285	
3. Name of facility (if different from above): MWV Rupert 3-1H, MWV Pad 3		4. The applicant is the: <input type="checkbox"/> OWNER <input type="checkbox"/> OPERATOR <input checked="" type="checkbox"/> BOTH	
5A. Applicant's mailing address: 200 Crescent Court, Suite 1900 Dallas, Texas 75201		5B. Facility's present physical address: Physical address not available. General location is south of Fenwick, WV, south of Little Laurel Creek, and east of Laurel Creek.	
6. West Virginia Business Registration. Is the applicant a resident of the State of West Virginia? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO - If YES, provide a copy of the Certificate of Incorporation/Organization/Limited Partnership (one page) including any name change amendments or other Business Registration Certificate as Attachment A . - If NO, provide a copy of the Certificate of Authority/Authority of L.L.C./Registration (one page) including any name change amendments or other Business Certificate as Attachment A .			
7. If applicant is a subsidiary corporation, please provide the name of parent corporation: Bluescape Resources Company, LLC			
8. Does the applicant own, lease, have an option to buy or otherwise have control of the <i>proposed site</i> ? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO - If YES, please explain: Applicant leases the site from Plum Creek Timberlands, LP - If NO, you are not eligible for a permit for this source.			
9. Type of plant or facility (stationary source) to be constructed, modified, relocated, administratively updated or temporarily permitted (e.g., coal preparation plant, primary crusher, etc.): Natural gas production well with flare.		10. North American Industry Classification System (NAICS) code for the facility: 211111	
11A. DAQ Plant ID No. (for existing facilities only): None		11B. List all current 45CSR13 and 45CSR30 (Title V) permit numbers associated with this process (for existing facilities only): R13-2946T	

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

<p>12A.</p> <ul style="list-style-type: none"> For Modifications, Administrative Updates or Temporary permits at an existing facility, please provide directions to the <i>present location</i> of the facility from the nearest state road; For Construction or Relocation permits, please provide directions to the <i>proposed new site location</i> from the nearest state road. Include a MAP as Attachment B. <p>Travel south along State County Route 39/14 (Saxman Rd.) from Fenwick, WV intersection at State Route 20 a distance of 4.4 miles; turn left and then travel easterly a distance of 1.9 miles to right turn at cross intersection; travel an additional 2.5 miles to sharp left turn at a "Y" intersection; travel an additional .4 miles to "Y" intersection bear right; travel an additional .1 miles to another "Y" intersection and continue to bear right; travel .3 miles to Pad 3 access road to entrance gate to site on left.</p>		
12.B. New site address (if applicable):	12C. Nearest city or town: Richwood, WV (Nicholas County)	12D. County: Greenbrier
12.E. UTM Northing (KM): 421.263	12F. UTM Easting (KM): 2131.899	12G. UTM Zone: 17
<p>13. Briefly describe the proposed change(s) at the facility: BRC Operating Company, LLC is currently drilling a vertical deep well followed completion operations. Testing will be conducted within two formations; the Point Pleasant and Rose Hill, to determine the economic feasibility of production. A flare is necessary to combust the natural gas during these exploration activities, in that a natural gas pipeline is not available within the area.</p>		
<p>14A. Provide the date of anticipated installation or change: 09/01/2016</p> <ul style="list-style-type: none"> If this is an After-The-Fact permit application, provide the date upon which the proposed change did happen: / / 		<p>14B. Date of anticipated Start-Up if a permit is granted: 09/28/2016</p>
<p>14C. Provide a Schedule of the planned Installation of/Change to and Start-Up of each of the units proposed in this permit application as Attachment C (if more than one unit is involved).</p>		
<p>15. Provide maximum projected Operating Schedule of activity/activities outlined in this application: Hours Per Day 24 Days Per Week 7 Weeks Per Year 36</p>		
<p>16. Is demolition or physical renovation at an existing facility involved? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>		
<p>17. Risk Management Plans. If this facility is subject to 112(r) of the 1990 CAAA, or will become subject due to proposed changes (for applicability help see www.epa.gov/ceppo), submit your Risk Management Plan (RMP) to U. S. EPA Region III.</p>		
<p>18. Regulatory Discussion. List all Federal and State air pollution control regulations that you believe are applicable to the proposed process (<i>if known</i>). A list of possible applicable requirements is also included in Attachment S of this application (Title V Permit Revision Information). Discuss applicability and proposed demonstration(s) of compliance (<i>if known</i>). Provide this information as Attachment D.</p>		

Section II. Additional attachments and supporting documents.

<p>19. Include a check payable to WVDEP – Division of Air Quality with the appropriate application fee (per 45CSR22 and 45CSR13).</p>
<p>20. Include a Table of Contents as the first page of your application package.</p>
<p>21. Provide a Plot Plan, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is or is to be located as Attachment E (Refer to Plot Plan Guidance) .</p> <ul style="list-style-type: none"> Indicate the location of the nearest occupied structure (e.g. church, school, business, residence).
<p>22. Provide a Detailed Process Flow Diagram(s) showing each proposed or modified emissions unit, emission point and control device as Attachment F.</p>
<p>23. Provide a Process Description as Attachment G.</p> <ul style="list-style-type: none"> Also describe and quantify to the extent possible all changes made to the facility since the last permit review (if applicable).

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

24. Provide **Material Safety Data Sheets (MSDS)** for all materials processed, used or produced as **Attachment H**.

– For chemical processes, provide a MSDS for each compound emitted to the air.

25. Fill out the **Emission Units Table** and provide it as **Attachment I**.

26. Fill out the **Emission Points Data Summary Sheet (Table 1 and Table 2)** and provide it as **Attachment J**.

27. Fill out the **Fugitive Emissions Data Summary Sheet** and provide it as **Attachment K**.

28. Check all applicable **Emissions Unit Data Sheets** listed below:

- | | | |
|--|---|--|
| <input type="checkbox"/> Bulk Liquid Transfer Operations | <input checked="" type="checkbox"/> Haul Road Emissions | <input type="checkbox"/> Quarry |
| <input type="checkbox"/> Chemical Processes | <input type="checkbox"/> Hot Mix Asphalt Plant | <input type="checkbox"/> Solid Materials Sizing, Handling and Storage Facilities |
| <input type="checkbox"/> Concrete Batch Plant | <input type="checkbox"/> Incinerator | <input checked="" type="checkbox"/> Storage Tanks |
| <input type="checkbox"/> Grey Iron and Steel Foundry | <input type="checkbox"/> Indirect Heat Exchanger | |

X General Emission Unit, specify Natural gas production well with flare/s.

Fill out and provide the **Emissions Unit Data Sheet(s)** as **Attachment L**.

29. Check all applicable **Air Pollution Control Device Sheets** listed below:

- | | | |
|---|---|--|
| <input type="checkbox"/> Absorption Systems | <input type="checkbox"/> Baghouse | <input checked="" type="checkbox"/> Flare |
| <input type="checkbox"/> Adsorption Systems | <input type="checkbox"/> Condenser | <input type="checkbox"/> Mechanical Collector |
| <input type="checkbox"/> Afterburner | <input type="checkbox"/> Electrostatic Precipitator | <input type="checkbox"/> Wet Collecting System |

Other Collectors, specify

Fill out and provide the **Air Pollution Control Device Sheet(s)** as **Attachment M**.

30. Provide all **Supporting Emissions Calculations** as **Attachment N**, or attach the calculations directly to the forms listed in Items 28 through 31.

31. **Monitoring, Recordkeeping, Reporting and Testing Plans.** Attach proposed monitoring, recordkeeping, reporting and testing plans in order to demonstrate compliance with the proposed emissions limits and operating parameters in this permit application. Provide this information as **Attachment O**.

➤ Please be aware that all permits must be practically enforceable whether or not the applicant chooses to propose such measures. Additionally, the DAQ may not be able to accept all measures proposed by the applicant. If none of these plans are proposed by the applicant, DAQ will develop such plans and include them in the permit.

32. **Public Notice.** At the time that the application is submitted, place a **Class I Legal Advertisement** in a newspaper of general circulation in the area where the source is or will be located (See 45CSR§13-8.3 through 45CSR§13-8.5 and **Example Legal Advertisement** for details). Please submit the **Affidavit of Publication** as **Attachment P** immediately upon receipt.

33. **Business Confidentiality Claims.** Does this application include confidential information (per 45CSR31)?

YES NO

➤ If **YES**, identify each segment of information on each page that is submitted as confidential and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's "**Precautionary Notice – Claims of Confidentiality**" guidance found in the **General Instructions** as **Attachment Q**.

Section III. Certification of Information

34. **Authority/Delegation of Authority.** Only required when someone other than the responsible official signs the application. Check applicable **Authority Form** below:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Authority of Corporation or Other Business Entity | <input type="checkbox"/> Authority of Partnership |
| <input type="checkbox"/> Authority of Governmental Agency | <input type="checkbox"/> Authority of Limited Partnership |

Submit completed and signed **Authority Form** as **Attachment R**.

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

35A. **Certification of Information.** To certify this permit application, a Responsible Official (per 45CSR§13-2.22 and 45CSR§30-2.28) or Authorized Representative shall check the appropriate box and sign below.

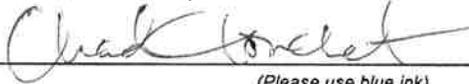
Certification of Truth, Accuracy, and Completeness

I, the undersigned **Responsible Official** / **Authorized Representative**, hereby certify that all information contained in this application and any supporting documents appended hereto, is true, accurate, and complete based on information and belief after reasonable inquiry I further agree to assume responsibility for the construction, modification and/or relocation and operation of the stationary source described herein in accordance with this application and any amendments thereto, as well as the Department of Environmental Protection, Division of Air Quality permit issued in accordance with this application, along with all applicable rules and regulations of the West Virginia Division of Air Quality and W.Va. Code § 22-5-1 et seq. (State Air Pollution Control Act). If the business or agency changes its Responsible Official or Authorized Representative, the Director of the Division of Air Quality will be notified in writing within 30 days of the official change.

Compliance Certification

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

SIGNATURE



(Please use blue ink)

DATE:

8-18-11

(Please use blue ink)

35B. Printed name of signee: Chad A. Touchet

35C. Title: Vice President, Completions and Production

35D. E-mail:
catouchet@bluescapedgroup.com

36E. Phone: 469-398-2232

36F. FAX: 682-626-3153

36A. Printed name of contact person (if different from above): Same

36B. Title: Same

36C. E-mail: Same

36D. Phone: Same

36E. FAX: Same

PLEASE CHECK ALL APPLICABLE ATTACHMENTS INCLUDED WITH THIS PERMIT APPLICATION:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Attachment A: Business Certificate | <input checked="" type="checkbox"/> Attachment K: Fugitive Emissions Data Summary Sheet |
| <input checked="" type="checkbox"/> Attachment B: Map(s) | <input checked="" type="checkbox"/> Attachment L: Emissions Unit Data Sheet(s) |
| <input checked="" type="checkbox"/> Attachment C: Installation and Start Up Schedule | <input checked="" type="checkbox"/> Attachment M: Air Pollution Control Device Sheet(s) |
| <input checked="" type="checkbox"/> Attachment D: Regulatory Discussion | <input checked="" type="checkbox"/> Attachment N: Supporting Emissions Calculations |
| <input checked="" type="checkbox"/> Attachment E: Plot Plan | <input checked="" type="checkbox"/> Attachment O: Monitoring/Recordkeeping/Reporting/Testing Plans |
| <input checked="" type="checkbox"/> Attachment F: Detailed Process Flow Diagram(s) | <input checked="" type="checkbox"/> Attachment P: Public Notice |
| <input checked="" type="checkbox"/> Attachment G: Process Description | <input type="checkbox"/> Attachment Q: Business Confidential Claims |
| <input checked="" type="checkbox"/> Attachment H: Material Safety Data Sheets (MSDS) | <input type="checkbox"/> Attachment R: Authority Forms |
| <input checked="" type="checkbox"/> Attachment I: Emission Units Table | <input type="checkbox"/> Attachment S: Title V Permit Revision Information |
| <input checked="" type="checkbox"/> Attachment J: Emission Points Data Summary Sheet | <input checked="" type="checkbox"/> Application Fee |

Please mail an original and three (3) copies of the complete permit application with the signature(s) to the DAQ, Permitting Section, at the address listed on the first page of this application. Please DO NOT fax permit applications.

FOR AGENCY USE ONLY – IF THIS IS A TITLE V SOURCE:

- Forward 1 copy of the application to the Title V Permitting Group and:
- For Title V Administrative Amendments:
 - NSR permit writer should notify Title V permit writer of draft permit,
- For Title V Minor Modifications:
 - Title V permit writer should send appropriate notification to EPA and affected states within 5 days of receipt,
 - NSR permit writer should notify Title V permit writer of draft permit.
- For Title V Significant Modifications processed in parallel with NSR Permit revision:
 - NSR permit writer should notify a Title V permit writer of draft permit,
 - Public notice should reference both 45CSR13 and Title V permits,
 - EPA has 45 day review period of a draft permit.

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

BRC OPERATING COMPANY, LLC

APPLICATION FOR NSR PERMIT

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

ATTACHMENT

APPLICATION FEE

BRC Operating Company LLC

200 Crescent CT STE 1900
Dallas, TX 75201-2261

Bank of America
ACH R/T 111000025

32-2/1110 TX

5271

Two thousand dollars and no cents

DATE	AMOUNT
08/24/2016	**2,000.00*

Pay to the Order of WV DEP - Division of Air Quality
601 57th Street, SE
Charleston, WV 25304

James E. Wallace

SECURE FEATURES INCLUDE INVISIBLE FIBERS • MICROPRINTING • VOID FEATURE PANTOGRAPH • ENDORSEMENT BACKER • BROWNSTAIN CHEMICAL REACTANT • THERMOCHROMATIC THUMBPRINT

⑈0000005271⑈ ⑆11000025⑆ ⑈488057639677⑈

From: BRC Operating Company LLC
To: WV DEP - Division of Air Quality
601 57th Street, SE
Charleston, WV 25304

Vendor Code: WVDEP-D01
Check Date: 08/24/2016
Check Amount: \$2,000.00
Check Number: A-5271

Invoice #	Invoice Amt
08222016	2,000.00

From: BRC Operating Company LLC
To: WV DEP - Division of Air Quality
601 57th Street, SE
Charleston, WV 25304

Vendor Code: WVDEP-D01
Check Date: 08/24/2016
Check Amount: \$2,000.00
Check Number: A-5271

Invoice #	Invoice Amt
08222016	2,000.00

BRC OPERATING COMPANY, LLC

APPLICATION FOR NSR PERMIT

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

ATTACHMENT A

BUSINESS CERTIFICATE

STATE OF WEST VIRGINIA
State Tax Department
P. O. Box 2666
Charleston, WV 25324-2666



0001140210000



Joe Manchin III, Governor

Craig A. Griffith, Acting Tax Commissioner

BRC OPERATING COMPANY LLC
200 CRESCENT CT STE 200
DALLAS TX 75201-1880

Letter ID: L1195875072
Issued: 06/15/2010

RE: Business Registration Certificate

The West Virginia State Tax Department would like to thank you for registering your business. Enclosed is your Business Registration Certificate. This certificate shall be permanent until cessation of business or until suspended, revoked or cancelled. Changes in name, ownership or location are considered a cessation of business; a new Business Registration Certificate and applicable fees are required. Please review the certificate for accuracy.

This certificate must be prominently displayed at the location for which issued. Engaging in business without conspicuously posting a West Virginia Business Registration Certificate in the place of business is a crime and may subject you to fines per W.Va. Code § 11-9.

When contacting the State Tax Department, refer to the appropriate account number listed on the back of this page. The taxes listed may not be all the taxes for which you are responsible. Account numbers for taxes are printed on the tax returns mailed by the State Tax Department. Failure to timely file tax returns may result in penalties for late filing.

Should the nature of your business activity or business ownership change, your liability for these and other taxes will change accordingly.

To learn more about these taxes and the services offered by the West Virginia State Tax Department, visit our web site at www.wvtax.gov.

Enclosure

atL006 v.1

**WEST VIRGINIA
STATE TAX DEPARTMENT
BUSINESS REGISTRATION
CERTIFICATE**

ISSUED TO:
**BRC OPERATING COMPANY LLC
200 CRESCENT CT STE 200
DALLAS, TX 75201-1880**

BUSINESS REGISTRATION ACCOUNT NUMBER: **2216-4375**

This certificate is issued on: **06/15/2010**

*This certificate is issued by
the West Virginia State Tax Commissioner
in accordance with W.Va. Code § 11-12.*

*The person or organization identified on this certificate is registered
to conduct business in the State of West Virginia at the location above.*

This certificate is not transferrable and must be displayed at the location for which issued.

This certificate shall be permanent until cessation of the business for which the certificate of registration was granted or until it is suspended, revoked or cancelled by the Tax Commissioner.

Change in name or change of location shall be considered a cessation of the business and a new certificate shall be required.

TRAVELING/STREET VENDORS: Must carry a copy of this certificate in every vehicle operated by them.
CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS: Must have a copy of this certificate displayed at every job site within West Virginia.

BRC OPERATING COMPANY, LLC

APPLICATION FOR NSR PERMIT

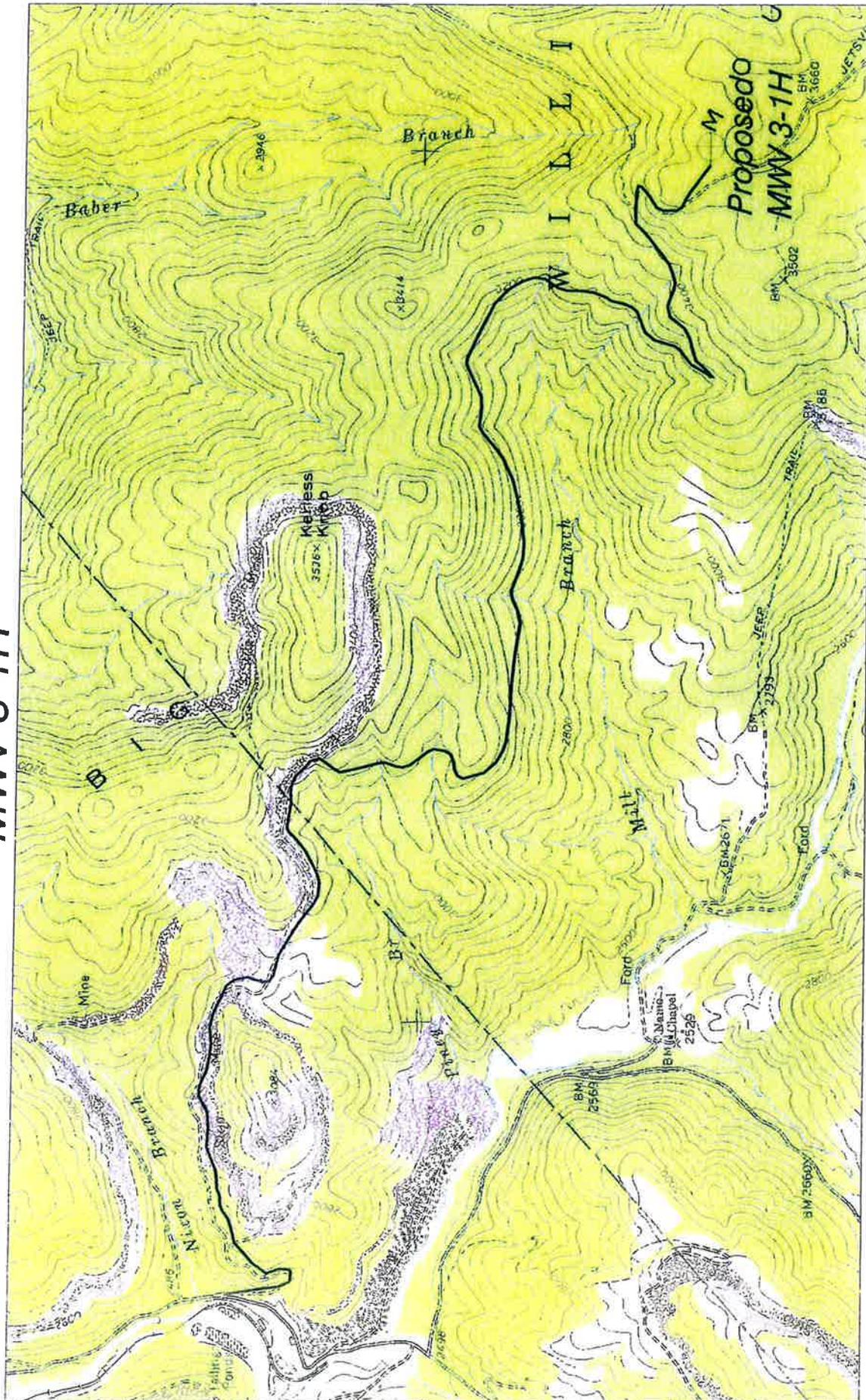
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

ATTACHMENT B

MAP

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



NORTH

HUPP Surveying & Mapping

P.O. BOX 647 GRANTSVILLE, WV 26147
PH: 304.354-7035 E-MAIL: nupp@fronternet.net

1" = 2000'

Richwood Quad

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

BRC OPERATING COMPANY, LLC

APPLICATION FOR NSR PERMIT

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

ATTACHMENT C

INSTALLATION AND START-UP SCHEDULE

ATTACHMENT C

SCHEDULE OF INSTALLATION

(Revised August 31, 2016)

The Well Work Permit was issued by the WVDEP, Office of Oil and Gas on May 31, 2016. The API Number associated with this well is 47-025-00044, and is permitted as a vertical well to be drilled to the Point Pleasant formation. Completion operations of the vertical will be conducted within two-separate formations, the Point Pleasant and Rose Hill. The formations are defined as deep zone gas well development. The Rose Hill formation being part of the Silurian period (geologic age), and the Point Pleasant being part of the Ordovician period. Following individual completion operations within each of the two formations, testing of each formation will be performed independently over a 60 day period. BRC Operating Company will begin mobilization of the necessary equipment for the completion work, which was approved as part of the Well Work Permit. Flaring will be initiated following the duration period of the flowback resulting from vertical hydraulic fracturing. The purpose of this application is to procure permitting for extended flaring that will be necessary following the completion/s operation/s; with the commencement of the independent testing period/s.

Those flare(s), which are a source at the padsite during drilling and completion operations will cease upon expiration of the initial 30 day allowance provided under a Well Work Permit. The extended flaring equipment, as defined within this Temporary Construction Permit application will be mobilized to the padsite.

The following schedule for the well work, as it relates to flaring is as follows:

Associated Well Work	Date/s
Complete perforating/fracturing/flowback operations within vertical well-Point Pleasant formation	Sept. 10-Sept.27, 2016
Perform testing/flaring of the Point Pleasant formation	Sept. 28-Nov. 27, 2016
Complete perforating/fracturing/flowback operations within vertical well-Rose Hill formation	Dec. 10-Dec. 31, 2016
Perform testing/flaring of the Rose Hill formation	Jan. 1-Mar. 2, 2017
Drilling/perforating/fracturing/flowback operations for the horizontal portion of the well	Mar. 16-April 30, 2017
Extended flaring of the well-horizontal section	May 1-May 31, 2017

BRC OPERATING COMPANY, LLC

APPLICATION FOR NSR PERMIT

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

ATTACHMENT D

REGULATORY DISCUSSION

ATTACHMENT D

REGULATORY DISCUSSION

The following Federal and State Regulations may be applicable to the natural gas well and flare and ancillary equipment installed at the MVW Rupert 3-1H site:

West Virginia State Regulations

45 CSR 6 – Control of Air Pollution from Combustion of Refuse – The flare meets the definition of “incineration” in this regulation, as it relates to the control of particulate matter and smoke from flares. The emissions standards for incinerators and the requirements to obtain a permit for incineration may apply to the flare.

45 CSR 13- Permits for Construction, Modification, Relocation and Stationary Sources of Air Pollutants and Procedures, Notification Requirements, Administrative Updates, Temporary Permits, General Permits and Procedures for Evaluation – This regulation governs the permit application submitted by BRC Operating Company, LLC for the equipment in this stationary source at the padsite (MWV Pad 3).

45 CSR 14 – Permits for Construction and Major Modification of Major Stationary Sources of Air Pollution for the Prevention of Significant Deterioration – This regulation does not apply to the proposed operations based on the operational limitations set for this equipment.

45 CSR 16 – Standards of Performance for New Stationary Sources – This rule adopts the federal rules under 40 CSR 60. This source has a new rule under 40 CSR 60 (Subpart OOOO) as discussed later herein.

45 CSR 22 – Air Quality Management Fee Program – The facility is subject to this regulation.

45 CSR 30 – Requirements for Operation Permits – This regulation will not apply to the proposed operations based on the operating restrictions proposed in this permit application.

45 CSR 34 – *Emission Standards for Hazardous Air Pollutants* – This rule establishes and adopts a program of national emission standards for hazardous air pollutants (NESHAPS) and other regulatory requirements promulgated by the USEPA.

Federal Regulations

40 CFR 60, Subpart OOOO – *Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution* – This regulation establishes emission standards and compliance schedules for the control of VOC and SO₂ emissions from affected facilities. The rule requires the control of VOC emissions resulting from the well completion, and requirements for storage tanks and pneumatic devices, with notification and reporting requirements. This well is interpreted as an exploration well under this rule.

VOC Control of Well Completions:

The well will fit under Phase 1 of the program and be required to destroy emissions under the regulation by the use of flaring. The well completions subject to the rule are limited to the flowback period after hydraulic fracturing operations at the gas well (affected facility). In Phase 1 the source is required to reduce VOC emissions by either using completion combustion devices or by capturing gas by using green completions with a completion combustion device. A completion combustion destruction device is a device that burns off the gas that would otherwise escape during the well – completion period, and is typically a flare. Flaring may occur under Phase 1 until January 1, 2015. There are exceptions on flaring for new wells based on safety and pressure. It is not anticipated that this operation will meet the exceptions due to location and pressure.

Storage Vessels:

Storage tanks having VOC emissions equal to greater than 6 tpy will be required to control the emissions by at least 95%.

Pneumatic Controllers Affected Facility:

Pneumatic controllers are automated instruments that help maintain the conditions such as liquid level, pressure, and temperature at wells. The controls are typically powered by high pressure natural gas and may release gas with valve movement, continuously or under normal operations. The rule affects high-bleed controllers which are controllers with a gas bleed rate greater than 6 scf / hour that are located at wellheads.

BRC OPERATING COMPANY, LLC

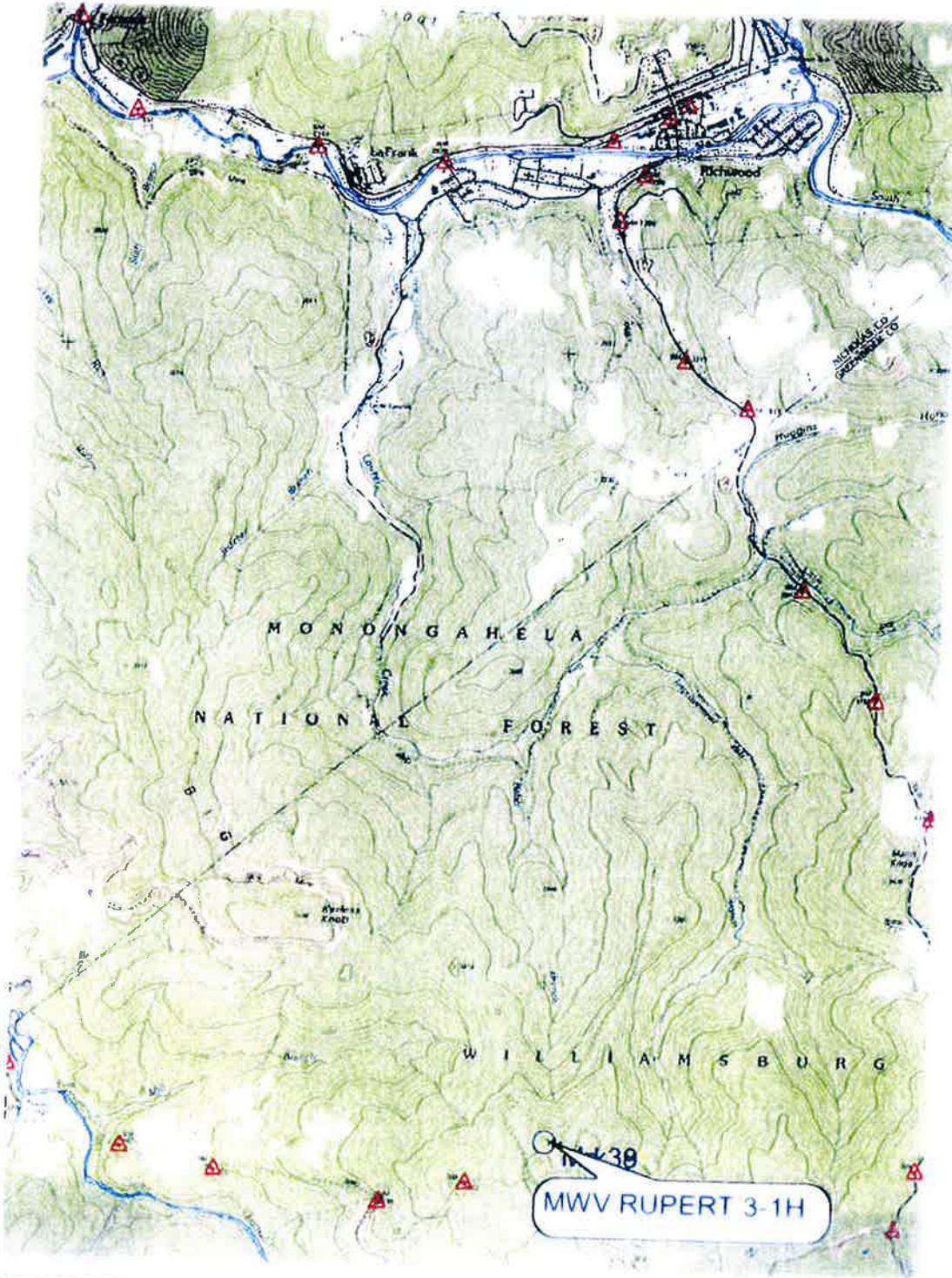
APPLICATION FOR NSR PERMIT

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

ATTACHMENT E

PLOT PLAN



ATTACHMENT E

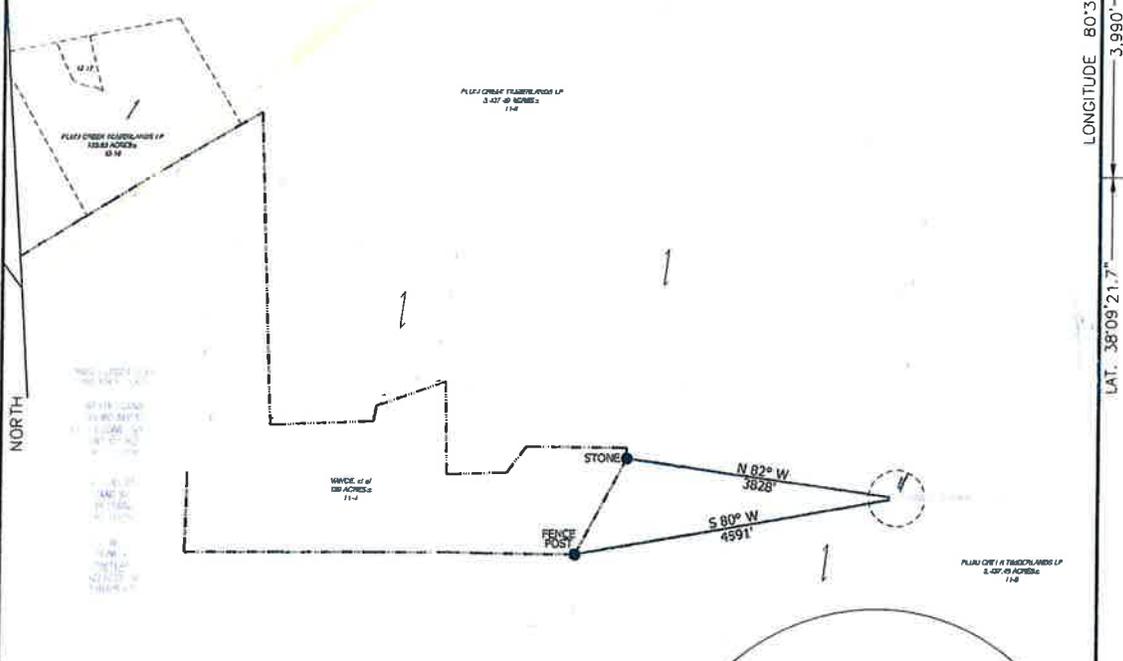
PLOT PLAN

Project: BRC Operating Company, LLC

Location: MWV Rupert 3-1H Well

Subject: Application For NSR Permit

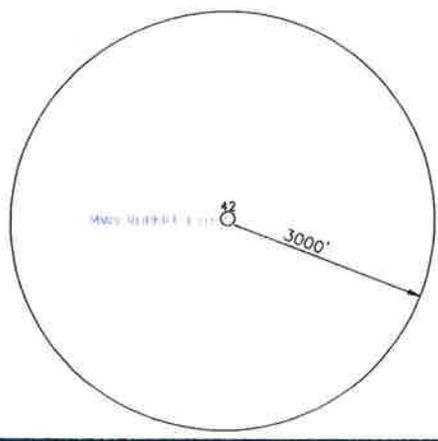
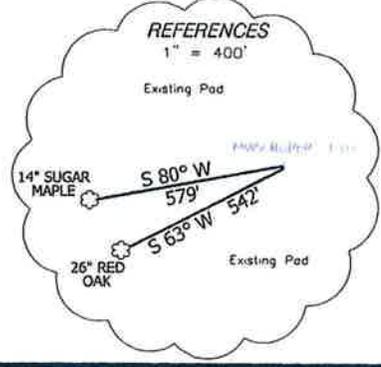
MWV RUPERT 3-1H



LINE LEGEND

LEASE BOUNDARY	---
CRUISE/PIREAU	---
COUNTY LINE	---
ROADS	---
SURFACE BOUNDARY	---

- NOTES ON SURVEY**
- 1 THERE ARE NO EXISTING OCCUPIED DWELLINGS, BUILDINGS OR RAILROADS WITHIN 625' OF PROPOSED WELL
 - 2 THERE ARE NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' OF PROPOSED WELL
 - 3 TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27 WELL LAT/LONG ESTABLISHED BY SG-GPS(OPUS)
 - 4 SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF GREENBRIER COUNTY IN DECEMBER, 2015 AND INFORMATION PROVIDED BY BRC OPERATING CO., LLC
 - 5 WELLS SHOWN ARE TAKEN FROM RECORDS OF WYDEP



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 RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 DATE MAY 11, 20 16
 OPERATORS WELL NO _____
 API WELL NO 47-025-
 STATE COUNTY PERMIT

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

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO W1834 (BK50-14)
 SCALE 1" = 2000'
 PROVEN SOURCE OF ELEVATION SG-GPS (OPUS)

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 3,589' WATERSHED BABER BRANCH
 DISTRICT WILLIAMSBURG COUNTY GREENBRIER QUADRANGLE RICHWOOD 7 S'

SURFACE OWNER PLUM CREEK TIMBERLANDS LP ACREAGE 3,437 49±
 ROYALTY OWNER MEADWESTVACO CORP, et al LEASE ACREAGE 3,437 49±
 PROPOSED WORK
 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 POINT PLEASANT
 ESTIMATED DEPTH 12,070'

WELL OPERATOR BRC OPERATING CO., LLC DESIGNATED AGENT MARC A MONTELEONE
 ADDRESS 200 CRESCENT COURT, SUITE 1900 DALLAS, TX 75201 ADDRESS P.O. Box 1386 Charleston WV 25325

LONGITUDE 80°30'00" 3,990'
LAT. 38°09'21.7"

BRC OPERATING COMPANY, LLC

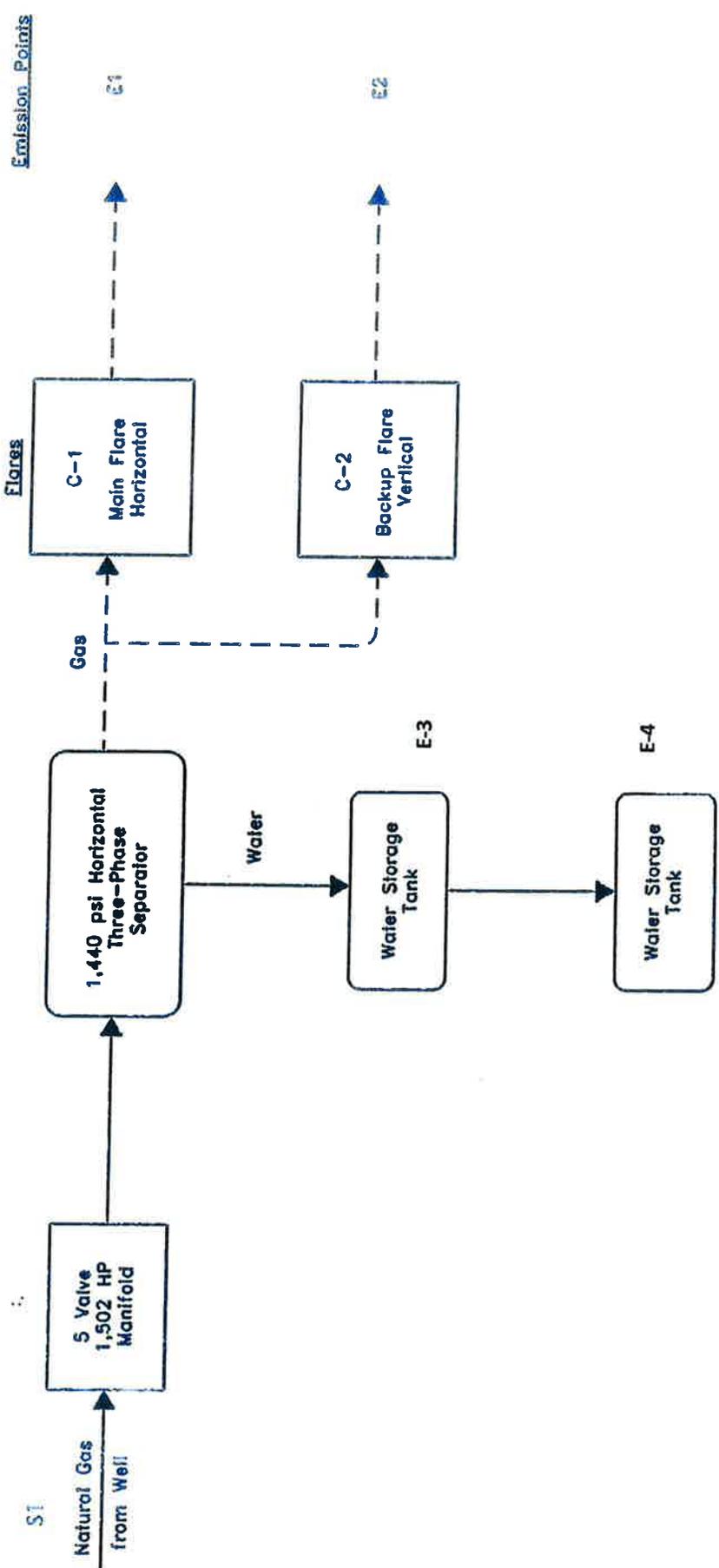
APPLICATION FOR NSR PERMIT

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

ATTACHMENT F

DETAILED PROCESS FLOW DIAGRAM



REVISED 8-31-16

BRC OPERATING COMPANY, LLC
DALLAS, TEXAS

ATTACHMENT F: DETAILED
PROCESS FLOW DIAGRAM



333 Technology Drive, Suite 107
Canonsburg, PA 15317
Office: 724.745.5929

BRC OPERATING COMPANY, LLC

APPLICATION FOR NSR PERMIT

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ATTACHMENT G

PROCESS DESCRIPTION

ATTACHMENT G

PROCESS DESCRIPTION

BRC Operating Company, LLC is currently developing a vertical deep gas well, referenced as Operator's Well Number: MWV Rupert 3-1H at a padsite (MWV Pad 3) located in Greenbrier County, WV; also referred to as Padsite #3. Two formation zones will be individually tested as completion operations; identified as Point Pleasant (TVD = 11,995' to 12,174'), and the Rose Hill (TVD = 9,650' to 10,004'). Well completions will be conducted through perforating of the vertical casing with hydraulic fracturing as separate operations for each formation zone, followed by flowback operations. As a first order of exploration, the Point Pleasant formation will be completed, followed by a two month test period. Then later be followed by completion of the Rose Hill formation with a two month test period. As flowback of the individual formations after hydraulic fracturing is completed along with production testing, the well will be vented to a horizontal flare with a vertical flare backup. The duration of flaring will be extended during each of the individual test periods, for a minimum period of 60 days. The testing is necessary in order to determine the economic feasibility as to which of the two formations should be further developed as a horizontally drilled well.

Ultimately, the Well Work Permit as issued by the WVDEP-OOG (API# 025-00044) will be modified to re-enter the vertical well and develop a horizontal well; with completion operations followed by flaring. Therefore, for this application BRC Operating Company, LLC is requesting an 9-month period for its 1) initial completion operation for the Point Pleasant formation, 2) followed by a two-month test period, 3) completion operation for the Rose Hill formation, 4) followed by a two-month test period, 5) horizontal drilling of an extended lateral, 6) completion operation for the horizontal portion, and 7) followed by a period of flaring.

Flaring is necessary during each of the formation tests, in that accessible pipelines are not located within a reasonable distance to receive the gas produced by the operation/s. Should the evaluation of the two individual formations be determined not to be economically viable for further development, a temporary plugging of the well be performed, with the option to develop a horizontal well within the "shallow zone" Marcellus shale formation.

BRC Operating will operate the vertical gas well (herein after referred to as designation S-1), which will produce natural gas and water. The production from the well will be first sent to a three-phase separator. The gas from the separator will then be vented through a horizontal flare (C-1) for combustion. A vertical flare (C-2) will be constructed in parallel to the horizontal flare to serve as an emergency backup flare.

Both the horizontal flare and the vertical flare are expected to have a control efficiency of 98% by meeting 40CFR60.18 and, therefore, the emissions will be the same for use of either flare. The horizontal flare minimizes the visible flame due to the lower combustion height of the flare.

The flowback water, which has been separated from the natural gas, is sent to storage tanks prior to hauling offsite for disposal. As water passed through the three-phase separator, the hydrocarbon content in the water is negligible and the water is not anticipated to be a significant source of emission. The well is not expected to produce oils and heavy hydrocarbon liquids; therefore the separator does not produce oil requiring management at the site.

Emissions are based on Certified Emission Statement (CES) calculations obtained at the PCSF 2-1H & PCSF 2-2H (PCSF Pad 2) well gas analysis. Refer to Attachment N: Supporting Emission Calculations. The relative distance from these previously drilled wells to the current padsite (MWV Pad 3) is approximately 5+ miles. Because this is the first exploration of a deep zone formation/s, the previous values used for the Marcellus formation of the previously mentioned wells will be increased by 20%, in the submission of this permit application.



24" x 10' Portable Test Separator. Weir Plate style 3 phase with 2000# pressure rating. PSV in place on the vessel.

Electric over Hydraulic dump motors to make low pressure testing more accurate.

Digital EFM to monitor gas, water and oil separately.

ATTACHMENT G

SUPPLEMENT INFORMATION

PORTABLE TEST SEPARATOR

Date: 8-31-16



BRC OPERATING COMPANY, LLC

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ATTACHMENT I

EMISSION UNITS TABLE

BRC OPERATING COMPANY, LLC

APPLICATION FOR NSR PERMIT

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

ATTACHMENT J

EMISSION POINTS DATA SUMMARY SHEET

**Attachment J
EMISSION POINTS DATA SUMMARY SHEET**

Table 1: Emissions Data

Emission Point ID No. (Must match Emission Units Table & Plot Plan)	Emission Point Type ¹	Emission Unit Vented Through This Point (Must match Emission Units Table & Plot Plan)		Air Pollution Control Device (Must match Emission Units Table & Plot Plan)		Vent Time for Emission Unit (chemical processes only)		All Regulated Pollutants - Chemical Name/CAS ³ (Speciate VOCs & HAPS)	Maximum Potential Uncontrolled Emissions ⁴		Maximum Potential Controlled Emissions ⁵		Emission Form or Phase (At exit conditions, Solid, Liquid or Gas/Vapor)	Est. Method Used ⁶	Emission Concentration (ppmv or mg/m ³) ⁷		
		ID No.	Source	ID No.	Device Type	Short Term ²	Max (hr/yr)		lb/hr	ton/yr	lb/hr	ton/yr					
E-1	Horizontal Flare	S-1 & S-2	Nat Gas Well	C-1	Flare	C	4,380	CO2	N/A	N/A	41,315	68,858	Vapor and	EE	N/A		
								CO2e			47,458	79,097	Solid				
								CO			108.9	181.5					
								NOX			23.9	39.8					
								SO2			0.60	0.98					
								PM/PM2.5/P M10			2.74	4.56					
VOC			0.06	0.10													
								Methane			293	488					
E-2	Vertical Flare	S-1 & S-2	Nat Gas Well	C-2	Flare	C	4,380	This is a backup flare in the event that the horizontal flare ceases to work. The total hourly and yearly emissions are reflected above. The flares will not be used in tandem.									

The EMISSION POINTS DATA SUMMARY SHEET provides a summation of emissions by emission unit. Note that uncaptured process emission unit emissions are not typically considered to be fugitive and must be accounted for on the appropriate EMISSIONS UNIT DATA SHEET and on the EMISSION POINTS DATA SUMMARY SHEET. Please note that total emissions from the source are equal to all vented emissions, all fugitive emissions, plus all other emissions (e.g. uncaptured emissions). Please complete the FUGITIVE EMISSIONS DATA SUMMARY

SHEET for fugitive emission activities.

- 1 Please add descriptors such as upward vertical stack, downward vertical stack, horizontal stack, relief vent, rain cap, etc.
- 2 Indicate by "C" if venting is continuous. Otherwise, specify the average short-term venting rate with units, for intermittent venting (ie., 15 min/hr). Indicate as many rates as needed to clarify frequency of venting (e.g., 5 min/day, 2 days/wk).
- 3 List all regulated air pollutants. Speciate VOCs, including all HAPs. Follow chemical name with Chemical Abstracts Service (CAS) number. LIST Adds, CO, CS₂, VOCs, H₂S, Inorganics, Lead, Organics, O₃, NO, NO₂, SO₂, SO₃, all applicable Greenhouse Gases (including CO₂ and methane), etc. **DO NOT LIST H₂, H₂O, N₂, O₂, and Noble Gases.**
- 4 Give maximum potential emission rate with no control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).
- 5 Give maximum potential emission rate with proposed control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 VOC/20 minute batch).
- 6 Indicate method used to determine emission rate as follows: MB = material balance; ST = stack test (give date of test); EE = engineering estimate; O = other (specify).
- 7 Provide for all pollutant emissions. Typically, the units of parts per million by volume (ppmv) are used. If the emission is a mineral acid (sulfuric, nitric, hydrochloric or phosphoric) use units of milligram per dry cubic meter (mg/m³) at standard conditions (68 °F and 29.92 inches Hg) (see 45CSR7). If the pollutant is SO₂, use units of ppmv (See 45CSR10).

**Attachment J
EMISSION POINTS DATA SUMMARY SHEET**

Table 2: Release Parameter Data

Emission Point ID No. <i>(Must match Emission Units Table)</i>	Inner Diameter (ft.)	Exit Gas			Emission Point Elevation (ft)			UTM Coordinates (km)	
		Temp. (°F)	Volumetric Flow ¹ (acfm) at operating conditions	Velocity (fps)	Ground Level (Height above mean sea level)	Stack Height ² (Release height of emissions above ground level)	Northing	Easting	
E-1 & E-2	0.5	1800	4,860	405	3589	N/A	421.263	2131.899	

BRC OPERATING COMPANY, LLC

APPLICATION FOR NSR PERMIT

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

ATTACHMENT K

FUGITIVE EMISSIONS DATA SUMMARY SHEET

Attachment K

FUGITIVE EMISSIONS DATA SUMMARY SHEET

The FUGITIVE EMISSIONS SUMMARY SHEET provides a summation of fugitive emissions. Fugitive emissions are those emissions which could not reasonably pass through a stack, chimney, vent or other functionally equivalent opening. Note that uncaptured process emissions are not typically considered to be fugitive, and must be accounted for on the appropriate EMISSIONS UNIT DATA SHEET and on the EMISSION POINTS DATA SUMMARY SHEET.

Please note that total emissions from the source are equal to all vented emissions, all fugitive emissions, plus all other emissions (e.g. uncaptured emissions).

APPLICATION FORMS CHECKLIST - FUGITIVE EMISSIONS
1.) Will there be haul road activities? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> If YES, then complete the HAUL ROAD EMISSIONS UNIT DATA SHEET.
2.) Will there be Storage Piles? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If YES, complete Table 1 of the NONMETALLIC MINERALS PROCESSING EMISSIONS UNIT DATA SHEET.
3.) Will there be Liquid Loading/Unloading Operations? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If YES, complete the BULK LIQUID TRANSFER OPERATIONS EMISSIONS UNIT DATA SHEET.
4.) Will there be emissions of air pollutants from Wastewater Treatment Evaporation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If YES, complete the GENERAL EMISSIONS UNIT DATA SHEET.
5.) Will there be Equipment Leaks (e.g. leaks from pumps, compressors, in-line process valves, pressure relief devices, open-ended valves, sampling connections, flanges, agitators, cooling towers, etc.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If YES, complete the LEAK SOURCE DATA SHEET section of the CHEMICAL PROCESSES EMISSIONS UNIT DATA SHEET.
6.) Will there be General Clean-up VOC Operations? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If YES, complete the GENERAL EMISSIONS UNIT DATA SHEET.
7.) Will there be any other activities that generate fugitive emissions? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If YES, complete the GENERAL EMISSIONS UNIT DATA SHEET or the most appropriate form.
If you answered "NO" to all of the items above, it is not necessary to complete the following table, "Fugitive Emissions Summary."

FUGITIVE EMISSIONS SUMMARY		All Regulated Pollutants ¹ Chemical Name/CAS ¹	Maximum Potential Uncontrolled Emissions ²		Maximum Potential Controlled Emissions ³		Est. Method Used ⁴
	lb/hr		ton/yr	lb/hr	ton/yr		
Haul Road/Road Dust Emissions Paved Haul Roads							
Unpaved Haul Roads		PM PM10 PM2.5	34.81 10.28 1.03	1.27 0.38 0.04	10.44 3.08 0.31	0.38 0.11 0.01	EE
Storage Pile Emissions							
Loading/Unloading Operations							
Wastewater Treatment Evaporation & Operations							
Equipment Leaks			Does not apply		Does not apply		
General Clean-up VOC Emissions							
Other							

¹ List all regulated air pollutants. Speciate VOCs, including all HAPs. Follow chemical name with Chemical Abstracts Service (CAS) number. LIST Acids, CO, CS₂, VOCs, H₂S, Inorganics, Lead, Organics, O₃, NO, NO₂, SO₂, SO₃, all applicable Greenhouse Gases (including CO₂ and methane), etc. DO NOT LIST H₂, H₂O, N₂, O₂, and Noble Gases.

² Give rate with no control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).

³ Give rate with proposed control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).

⁴ Indicate method used to determine emission rate as follows: MB = material balance; ST = stack test (give date of test); EE = engineering estimate; O = other (specify).

BRC OPERATING COMPANY, LLC

APPLICATION FOR NSR PERMIT

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

ATTACHMENT L

EMISSION UNIT DATA SHEET/S

Attachment L
EMISSIONS UNIT DATA SHEET
GENERAL

To be used for affected sources other than asphalt plants, foundries, incinerators, indirect heat exchangers, and quarries.

Identification Number (as assigned on *Equipment List Form*): S-1

<p>1. Name or type and model of proposed affected source:</p> <p>Natural gas production well Operator's Well No. MWV Rupert 3-1H</p>
<p>2. On a separate sheet(s), furnish a sketch(es) of this affected source. If a modification is to be made to this source, clearly indicated the change(s). Provide a narrative description of all features of the affected source which may affect the production of air pollutants.</p>
<p>3. Name(s) and maximum amount of proposed process material(s) charged per hour:</p> <p>Maximum gas production rate of 1,000,000 scf/hr.; Average gas production rate of 360,000 scf/hr.</p>
<p>4. Name(s) and maximum amount of proposed material(s) produced per hour:</p> <p>Maximum gas production rate of 1,000,000 scf/hr.; Average gas production rate of 360,000 scf/hr.</p>
<p>5. Give chemical reactions, if applicable, that will be involved in the generation of air pollutants:</p> <p>Natural gas will be combusted in a flare.</p>

* The identification number which appears here must correspond to the air pollution control device identification number appearing on the *List Form*.

6. Combustion Data (if applicable):

(a) Type and amount in appropriate units of fuel(s) to be burned:

Gas production rate of 360,000 scf/hr.

(b) Chemical analysis of proposed fuel(s), excluding coal, including maximum percent sulfur and ash:

Natural gas analysis provided in Attachment N.

(c) Theoretical combustion air requirement (ACF/unit of fuel):

@

°F and

psia.

(d) Percent excess air:

(e) Type and BTU/hr of burners and all other firing equipment planned to be used:

(f) If coal is proposed as a source of fuel, identify supplier and seams and give sizing of the coal as it will be fired:

(g) Proposed maximum design heat input:

× 10⁶ BTU/hr.

7. Projected operating schedule:

Hours/Day

24

Days/Week

7

Weeks/Year

36

8. Projected amount of pollutants that would be emitted from this affected source if no control devices were used:			
@		°F and	psia
a. NO _x	23.9	lb/hr	grains/ACF
b. SO ₂	0.60	lb/hr	grains/ACF
c. CO	108.9	lb/hr	grains/ACF
d. PM ₁₀	2.74	lb/hr	grains/ACF
e. Hydrocarbons	300	lb/hr	grains/ACF
f. VOCs	0.06	lb/hr	grains/ACF
g. Pb		lb/hr	grains/ACF
h. Specify other(s)		lb/hr	grains/ACF
		lb/hr	grains/ACF

NOTE: (1) An Air Pollution Control Device Sheet must be completed for any air pollution device(s) used to control emissions from this affected source.

(2) Complete the Emission Points Data Sheet.

9. Proposed Monitoring, Recordkeeping, Reporting, and Testing

Please propose monitoring, recordkeeping, and reporting in order to demonstrate compliance with the proposed operating parameters. Please propose testing in order to demonstrate compliance with the proposed emissions limits.

MONITORING

BRC Operating Company, LLC proposes to monitor the natural gas production rate to the flare; 24 hours/day

RECORDKEEPING

BRC Operating Company, LLC proposes hourly record keeping of the natural gas production rate

REPORTING

BRC Operating company, LLC proposes no reporting requirement

TESTING

BRC Operating Company, LLC does not propose additional testing beyond those requirements beyond the gas stream characteristics provided herein

MONITORING. PLEASE LIST AND DESCRIBE THE PROCESS PARAMETERS AND RANGES THAT ARE PROPOSED TO BE MONITORED IN ORDER TO DEMONSTRATE COMPLIANCE WITH THE OPERATION OF THIS PROCESS EQUIPMENT OPERATION/AIR POLLUTION CONTROL DEVICE.

RECORDKEEPING. PLEASE DESCRIBE THE PROPOSED RECORDKEEPING THAT WILL ACCOMPANY THE MONITORING.

REPORTING. PLEASE DESCRIBE THE PROPOSED FREQUENCY OF REPORTING OF THE RECORDKEEPING.

TESTING. PLEASE DESCRIBE ANY PROPOSED EMISSIONS TESTING FOR THIS PROCESS EQUIPMENT/AIR POLLUTION CONTROL DEVICE.

10. Describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty

N/A

Vehicular Traffic

Emission factor equation:

$$E = k(s/12)^a (W/3)^b ((365-p)/365)$$

From AP-42 Fifth Edition, Section 13.2.2, Fugitive Sources

	PM	PM10	PM2.5	
E =	?	?	?	lb/VMT
k =	4.9	1.5	0.15	particle size multiplier
a =	0.7	0.9	0.9	constant
b =	0.45	0.45	0.45	constant
s =	10	10	10	% silt in road surface
W _{truck} =	37.5	37.5	37.5	mean vehicle weight (using total loaded weight of 75,000 pounds)
p =	157	157	157	# days with 0.01" rain
E =	7.66	2.26	0.23	lb/VMT

Length of Roadway (one-way) =	1,200	ft
Provided Trucks per Day =	10	
Estimated Trucks per Hour =	10	(assume all arrive in and hour)
Estimated Trucks Per Year =	730	

Rounding to =

2

Vehicular Traffic ID	Miles/Trip (miles)	Number of Trips/Hour (trips/hour)	Number of Trips/Year (trips/year)	Control Device		TSP Emissions			
				Type	Effic(%)	Uncontrolled		Controlled	
						(lb/hr)	(tpy)	(lb/hr)	(tpy)
Trucks	0.5	10	730	WT	70	34.81	1.27	10.44	0.38
						34.81	1.27	10.44	0.38

Vehicular Traffic ID	Miles/Trip (miles)	Number of Trips/Hour (trips/hour)	Number of Trips/Year (trips/year)	Control Device		PM10 Emissions			
				Type	Effic(%)	Uncontrolled		Controlled	
						(lb/hr)	(tpy)	(lb/hr)	(tpy)
Trucks	0.5	10	730	WT	70	10.28	0.38	3.08	0.11
						10.28	0.38	3.08	0.11

Vehicular Traffic ID	Miles/Trip (miles)	Number of Trips/Hour (trips/hour)	Number of Trips/Year (trips/year)	Control Device		PM2.5 Emissions			
				Type	Effic(%)	Uncontrolled		Controlled	
						(lb/hr)	(tpy)	(lb/hr)	(tpy)
Trucks	0.5	10	730	WT	70	1.03	0.04	0.31	0.01
						1.03	0.04	0.31	0.01

Facility Wide Particulate Emissions (Vehicle and Flare)				
Size	Uncontrolled		Controlled	
	(lb/hr)	(tpy)	(lb/hr)	(tpy)
TSP	37.55	5.83	13.18	4.94
PM10	13.02	4.94	5.82	4.67
PM2.5	3.77	4.60	3.05	4.57

Attachment L EMISSIONS UNIT DATA SHEET STORAGE TANKS

Provide the following information for each new or modified bulk liquid storage tank as shown on the *Equipment List Form* and other parts of this application. A tank is considered modified if the material to be stored in the tank is different from the existing stored liquid.

IF USING US EPA'S TANKS EMISSION ESTIMATION PROGRAM (AVAILABLE AT www.epa.gov/tnn/tanks.html), APPLICANT MAY ATTACH THE SUMMARY SHEETS IN LIEU OF COMPLETING SECTIONS III, IV, & V OF THIS FORM. HOWEVER, SECTIONS I, II, AND VI OF THIS FORM MUST BE COMPLETED. US EPA'S AP-42, SECTION 7.1, "ORGANIC LIQUID STORAGE TANKS," MAY ALSO BE USED TO ESTIMATE VOC AND HAP EMISSIONS (<http://www.epa.gov/tnn/chiefl>).

I. GENERAL INFORMATION (required)

1. Bulk Storage Area Name MWV Rupert 3-1H	2. Tank Name Produced Fluids Tank -Water and Condensate
3. Tank Equipment Identification No. (as assigned on <i>Equipment List Form</i>)	4. Emission Point Identification No. (as assigned on <i>Equipment List Form</i>) E-3 and E-4
5. Date of Commencement of Construction (for existing tanks) 10/15/16	
6. Type of change <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> New Stored Material <input type="checkbox"/> Other Tank Modification	
7. Description of Tank Modification (if applicable)	
7A. Does the tank have more than one mode of operation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (e.g. Is there more than one product stored in the tank?)	
7B. If YES, explain and identify which mode is covered by this application (Note: A separate form must be completed for each mode).	
7C. Provide any limitations on source operation affecting emissions, any work practice standards (e.g. production variation, etc.): None	

II. TANK INFORMATION (required)

8. Design Capacity (specify barrels or gallons). Use the internal cross-sectional area multiplied by internal height. <p style="text-align: center;">500 bbls</p>	
9A. Tank Internal Diameter (ft)	9B. Tank Internal Height (or Length) (ft) <p style="text-align: center;">9'-9"</p>
10A. Maximum Liquid Height (ft) <p style="text-align: center;">8'-8"</p>	10B. Average Liquid Height (ft) <p style="text-align: center;">8'-8"</p>
11A. Maximum Vapor Space Height (ft) <p style="text-align: center;">NA Open top</p>	11B. Average Vapor Space Height (ft)
12. Nominal Capacity (specify barrels or gallons). This is also known as "working volume" and considers design liquid levels and overflow valve heights. <p style="text-align: center;">500 bbls</p>	

25F. Describe deck fittings; indicate the number of each type of fitting:		
ACCESS HATCH		
BOLT COVER, GASKETED:	UNBOLTED COVER, GASKETED:	UNBOLTED COVER, UNGASKETED:
AUTOMATIC GAUGE FLOAT WELL		
BOLT COVER, GASKETED:	UNBOLTED COVER, GASKETED:	UNBOLTED COVER, UNGASKETED:
COLUMN WELL		
BUILT-UP COLUMN - SLIDING COVER, GASKETED:	BUILT-UP COLUMN - SLIDING COVER, UNGASKETED:	PIPE COLUMN - FLEXIBLE FABRIC SLEEVE SEAL:
LADDER WELL		
PIP COLUMN - SLIDING COVER, GASKETED:	PIPE COLUMN - SLIDING COVER, UNGASKETED:	
GAUGE-HATCH/SAMPLE PORT		
SLIDING COVER, GASKETED:	SLIDING COVER, UNGASKETED:	
ROOF LEG OR HANGER WELL		
WEIGHTED MECHANICAL ACTUATION, GASKETED:	WEIGHTED MECHANICAL ACTUATION, UNGASKETED:	SAMPLE WELL-SLIT FABRIC SEAL (10% OPEN AREA)
VACUUM BREAKER		
WEIGHTED MECHANICAL ACTUATION, GASKETED:	WEIGHTED MECHANICAL ACTUATION, UNGASKETED:	
RIM VENT		
WEIGHTED MECHANICAL ACTUATION GASKETED:	WEIGHTED MECHANICAL ACTUATION, UNGASKETED:	
DECK DRAIN (3-INCH DIAMETER)		
OPEN:	90% CLOSED:	
STUB DRAIN		
1-INCH DIAMETER:		
OTHER (DESCRIBE, ATTACH ADDITIONAL PAGES IF NECESSARY)		

26. Complete the following section for Internal Floating Roof Tanks <input checked="" type="checkbox"/> Does Not Apply	
26A. Deck Type: <input type="checkbox"/> Bolted <input type="checkbox"/> Welded	
26B. For Bolted decks, provide deck construction:	
26C. Deck seam: <input type="checkbox"/> Continuous sheet construction 5 feet wide <input type="checkbox"/> Continuous sheet construction 6 feet wide <input type="checkbox"/> Continuous sheet construction 7 feet wide <input type="checkbox"/> Continuous sheet construction 5 × 7.5 feet wide <input type="checkbox"/> Continuous sheet construction 5 × 12 feet wide <input type="checkbox"/> Other (describe)	
26D. Deck seam length (ft)	26E. Area of deck (ft ²)
For column supported tanks:	26G. Diameter of each column:
26F. Number of columns:	

IV. SITE INFORMATION (optional if providing TANKS Summary Sheets)

27. Provide the city and state on which the data in this section are based.
28. Daily Average Ambient Temperature (°F)
29. Annual Average Maximum Temperature (°F)
30. Annual Average Minimum Temperature (°F)
31. Average Wind Speed (miles/hr)
32. Annual Average Solar Insulation Factor (BTU/(ft ² ·day))
33. Atmospheric Pressure (psia)

V. LIQUID INFORMATION (optional if providing TANKS Summary Sheets)

34. Average daily temperature range of bulk liquid:			
34A. Minimum (°F)		34B. Maximum (°F)	
35. Average operating pressure range of tank:			
35A. Minimum (psig)		35B. Maximum (psig)	
36A. Minimum Liquid Surface Temperature (°F)		36B. Corresponding Vapor Pressure (psia)	
37A. Average Liquid Surface Temperature (°F)		37B. Corresponding Vapor Pressure (psia)	
38A. Maximum Liquid Surface Temperature (°F)		38B. Corresponding Vapor Pressure (psia)	
39. Provide the following for <u>each</u> liquid or gas to be stored in tank. Add additional pages if necessary.			
39A. Material Name or Composition			
39B. CAS Number			
39C. Liquid Density (lb/gal)			
39D. Liquid Molecular Weight (lb/lb-mole)			
39E. Vapor Molecular Weight (lb/lb-mole)			


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Manufacturing Inc.


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<http://ertanks.com/wp-content/uploads/2016/04/L.A.-1-1.jpg>

Open Top Tank 21,000 Gal (500 BBL)

[HTTP://ERTANKS.COM/QUOTE-](http://ertanks.com/quote)

+1 (310)

[Data Sheet \(http://ertanks.com/wp-content/uploads/2016/11/639-11-15-0\)](http://ertanks.com/wp-content/uploads/2016/11/639-11-15-0)

[Strapping Chart \(http://ertanks.com/wp-content/uploads/2016/11/639-11-15-0\)](http://ertanks.com/wp-content/uploads/2016/11/639-11-15-0)

[Get a Quote](#)

Model: STD-OT500

Open Top Fac Tank, 21,000 gal capacity (500 BBL). No leaks, full drain, smooth walls for easy cleaning. Company logo decal and tank asset number included. For more information download tank specifications or contact us today for a quote.

General information

- Capacity: 500 BBL (21,000 gal.) Stationary capacity
- Height: 9'-9" (Overall)
- Width: 8'-6"
- Length: 46' (overall- nose to tail)

Test performed

- Water test: 3 psi, 1st, 2nd y 3rd test (if necessary)
- Surface profile test: Deepness measure after blasting
- Paint test: interior to 20 mils, exterior 6 to 8 mils

Tank Features

- Quality Construction
- Non-Corrugated Walls for Quick Clean
- Positive Flow, "V" Bottom Floor System for Total Drain
- Easy access, Permanent or removable stairway

We make custom tanks

ER can design and build a wide variety of steel tanks and containers with as many components or fittings needed for your business activities, contact us today for more information.

+1 (310) 639.11.15

Hydro Test, Steel Grit Blast & Paint

Our Products are hydro tested to insure there are no leaks. Steel surface is prepared with a solvent wipe (SSPC-SP1).

Different levels of surface preparation, using steel grit are offered, the most common being a (SSPC-SP06) commercial blast in the exterior and (SSPC-SP10) near white on interior.

The finishing process features a 100% solids epoxy on the interior and an epoxy primer on the exterior with a polyurethane top coat. This combination creates a strong chemical and abrasion resistance surface on the interior and durable shiny finish for the exterior.

Main Office

ER Manufacturing, Inc.

14311 Valley View Unit-B
Santa Fe Springs, CA, 90670

Office (310) 639.11.15
Fax (310) 639.11.14
sales@ertanks.com (<mailto:sales@ertanks.com>)

GIMCO® Manufacturing Facility

Grupo Industrial Mar de Cortez, S.A. de C.V.

Carretera Tecate Ensenada 347
El Sauzal de Rodríguez CP. 22760

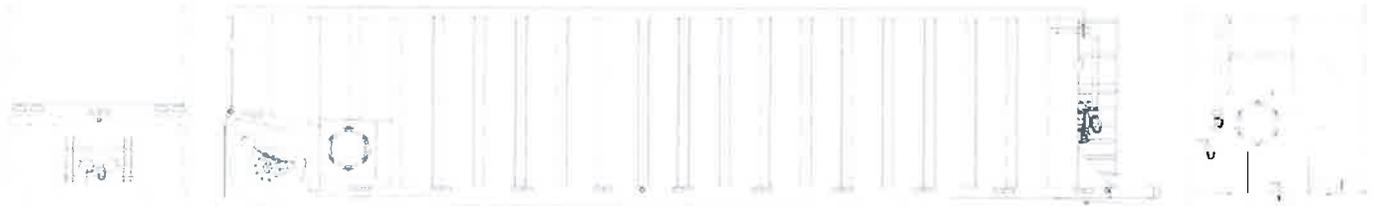
Ensenada B.C. México
Office +52 1 (646) 174.74.60 and 174.74.61



DATA SHEET

MODEL: STD-OT500

OPEN TOP TANK
21,000 GAL (500 BBL)



GENERAL INFORMATION

- **Capacity:** 500 BBL (21,000 gal.) Stationary capacity
- **Height:** 9'-9" (Overall)
- **Width:** 8'-6"
- **Length:** 46' (overall- nose to tail)

STRUCTURAL DESIGN

- **Floor sheet:** 1/4" A36 plate
- **Side sheets:** 1/4" A36 plate
- **Front:** 1/4" A36 plate
- **Rear:** 1/4" A36 plate
- **Main floor rails:** 12" x 40' structural channel

FEATURES

- **Ports:** (1) outlet port at front (weld neck flange, butterfly valve, threaded flange, male plug & chain)
- **Front Drain:** 4" outlet port (weld neck flange, butterfly valve, threaded flange, male plug & chain)
- **Rear Drain:** 4" outlet port (weld neck flange, butterfly valve, threaded flange, male plug, chain & handle lock)
- **V-Shaped Floor for easy draining**
- **Smooth walls for easy cleaning**

FEATURES (CONT.)

- **Manways:** (2) 20" steel manways w/buna-N gasket, (1) at front, (1) at passenger side near rear
- **Piping:** 3" External feed line (4'-8" length) at front w/threaded female cap & chain
- **Roof Access:** Stairway at front of tank
- **Hook-up:** Open front Hook-up
- **Suspension:** Spring – 22.5 k capacity
- **Tires:** Conventional, 12 Ply
- **Wheels:** 8.25 x 22.5
- **Axle:** 71.5 track, 22,500 lbs. capacity

SURFACE DETAILS

- **Surface preparation:** Interior- SSPC-SP 10 Near White
Exterior- SSPC-SP 6 Commercial
- **Exterior Coating:** Primer coat: Carboline™ Carboguard 893
Finish coat: Carboline™ Carbothane 134 HG
- **Interior Coating:** Carboline Phenoline™ 310
- **Undercoating:** ZPG 20060b Undercoating
- **Safety Paint:** Carboline™ Safety Yellow – Stairway & handrails

TESTS PERFORMED

- **Water test:** 3 psi, 1st, 2nd y 3rd test (if necessary)
- **Surface profile test:** Deepness measure after blasting
- **Paint test:** Interior: 20 mils
Exterior 6 to 8 mils

ER MANUFACTURING, INC.

14311 Valley View Unit-B Santa Fe Springs, Ca. 90670

Office (310) 639-1115

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ER MANUFACTURING, INC.

STRAPPING CHART

(+/-3% Accuracy) Measurements taken from the top of tank

Model: STD-OT500 Capacity 21000 gal (500 BBL)

Height (In)	Capacity (Gal)	Capacity (BBL)	Height (In)	Capacity (Gal)	Capacity (BBL)	Height (In)	Capacity (Gal)	Capacity (BBL)
1	189.0	4.5	36	6804.0	162.0	71	14070.0	335.0
2	378.0	9.0	37	7001.0	166.7	72	14280.0	340.0
3	567.0	13.5	38	7203.0	171.5	73	14490.0	345.0
4	756.0	18.0	39	7400.0	176.2	74	14700.0	350.0
5	945.0	22.5	40	7602.0	181.0	75	14910.0	355.0
6	1134.0	27.0	41	7799.0	185.7	76	15120.0	360.0
7	1323.0	31.5	42	8001.0	190.5	77	15330.0	365.0
8	1512.0	36.0	43	8198.0	195.2	78	15540.0	370.0
9	1701.0	40.5	44	8400.0	200.0	79	15750.0	375.0
10	1890.0	45.0	45	8610.0	205.0	80	15960.0	380.0
11	2079.0	49.5	46	8820.0	210.0	81	16170.0	385.0
12	2268.0	54.0	47	9030.0	215.0	82	16380.0	390.0
13	2457.0	58.5	48	9240.0	220.0	83	16590.0	395.0
14	2646.0	63.0	49	9450.0	225.0	84	16800.0	400.0
15	2835.0	67.5	50	9660.0	230.0	85	17010.0	405.0
16	3024.0	72.0	51	9870.0	235.0	86	17220.0	410.0
17	3213.0	76.5	52	10080.0	240.0	87	17430.0	415.0
18	3402.0	81.0	53	10290.0	245.0	88	17640.0	420.0
19	3591.0	85.5	54	10500.0	250.0	89	17850.0	425.0
20	3780.0	90.0	55	10710.0	255.0	90	18060.0	430.0
21	3969.0	94.5	56	10920.0	260.0	91	18270.0	435.0
22	4158.0	99.0	57	11130.0	265.0	92	18480.0	440.0
23	4347.0	103.5	58	11340.0	270.0	93	18690.0	445.0
24	4536.0	108.0	59	11550.0	275.0	94	18900.0	450.0
25	4725.0	112.5	60	11760.0	280.0	95	19110.0	455.0
26	4914.0	117.0	61	11970.0	285.0	96	19320.0	460.0
27	5103.0	121.5	62	12180.0	290.0	97	19530.0	465.0
28	5292.0	126.0	63	12390.0	295.0	98	19740.0	470.0
29	5481.0	130.5	64	12600.0	300.0	99	19950.0	475.0
30	5670.0	135.0	65	12810.0	305.0	100	20160.0	480.0
31	5859.0	139.5	66	13020.0	310.0	101	20370.0	485.0
32	6048.0	144.0	67	13230.0	315.0	102	20580.0	490.0
33	6237.0	148.5	68	13440.0	320.0	103	20790.0	495.0
34	6426.0	153.0	69	13650.0	325.0	104	21000.0	500.0
35	6615.0	157.5	70	13860.0	330.0			

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BRC OPERATING COMPANY, LLC

APPLICATION FOR NSR PERMIT

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

ATTACHMENT M

AIR POLLUTION CONTROL DEVICE SHEET/S

Steam Injection

20. Will steam injection be used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Steam pressure PSIG Minimum Expected: Design Maximum:
22. Total Steam flow rate: LB/hr	23. Temperature: °F
24. Velocity ft/sec	25. Number of jet streams
26. Diameter of steam jets: in	27. Design basis for steam injected: LB steam/LB hydrocarbon
28. How will steam flow be controlled if steam injection is used?	

Characteristics of the Waste Gas Stream to be Burned

29. Name	Quantity Grains of H ₂ S/100 ft ³	Quantity (LB/hr, ft ³ /hr, etc)	Source of Material
Natural Gas	See Attachment N		
30. Estimate total combustible to flare: 360,000 scf/hr. LB/hr or ACF/hr (Maximum mass flow rate of waste gas)			
31. Estimated total flow rate to flare including materials to be burned, carrier gases, auxiliary fuel, etc.: 360,000 scf/hr. LB/hr or ACF/hr			
32. Give composition of carrier gases:			
33. Temperature of emission stream: °F Heating value of emission stream: BTU/ft³ Mean molecular weight of emission stream: MW = lb/lb-mole		34. Identify and describe all auxiliary fuels to be burned. BTU/scf BTU/scf BTU/scf BTU/scf	
35. Temperature of flare gas: °F		36. Flare gas flow rate: scf/min	
37. Flare gas heat content: BTU/ft³		38. Flare gas exit velocity: scf/min	
39. Maximum rate during emergency for one major piece of equipment or process unit:			scf/min
40. Maximum rate during emergency for one major piece of equipment or process unit:			BTU/min
41. Describe any air pollution control device inlet and outlet gas conditioning processes (e.g., gas cooling, gas reheating, gas humidification):			
42. Describe the collection material disposal system:			
43. Have you included Flare Control Device in the Emissions Points Data Summary Sheet? Yes			

44. Proposed Monitoring, Recordkeeping, Reporting, and Testing

Please propose monitoring, recordkeeping, and reporting in order to demonstrate compliance with the proposed operating parameters. Please propose testing in order to demonstrate compliance with the proposed emissions limits.

MONITORING:

BRC Operating Company, LLC will monitor the natural gas production rate to the flate; 24 hours/day.

RECORDKEEPING:

BRC Operating Company, LLC proposes hourly record keeping of the natural gas production rate.

REPORTING:

BRC Operating Company, LLC does not propose to report.

TESTING:

BRC Operating Company, LLC does not propose additional testing requirements beyond the natural gas stream characteristics provided herein this application.

MONITORING:

Please list and describe the process parameters and ranges that are proposed to be monitored in order to demonstrate compliance with the operation of this process equipment or air control device.

RECORDKEEPING:

Please describe the proposed recordkeeping that will accompany the monitoring.

REPORTING:

Please describe any proposed emissions testing for this process equipment on air pollution control device.

TESTING:

Please describe any proposed emissions testing for this process equipment on air pollution control device.

45. Manufacturer's Guaranteed Capture Efficiency for each air pollutant.

N/A

46. Manufacturer's Guaranteed Control Efficiency for each air pollutant.

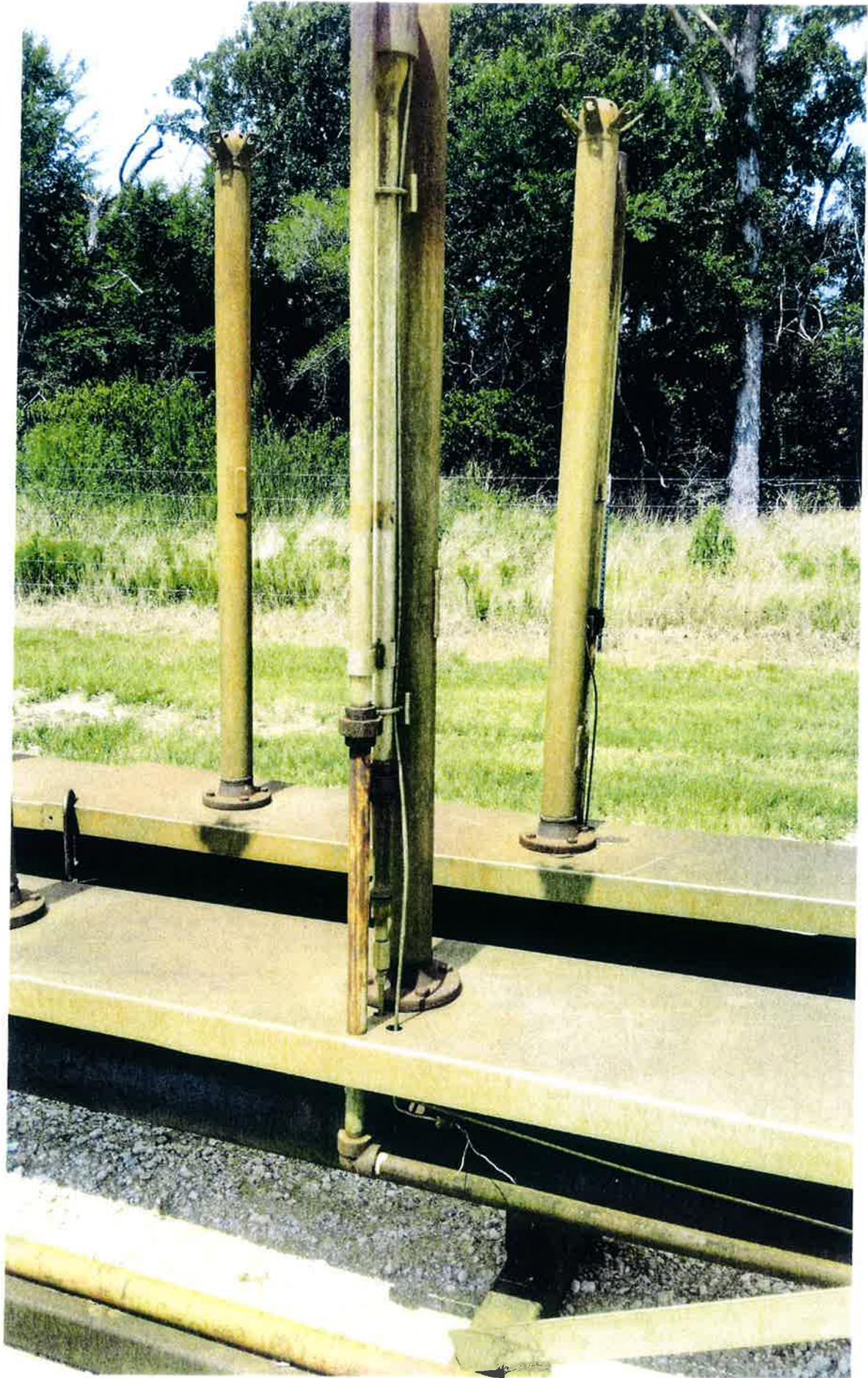
N/A

47. Describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty.

N/A



Horizontal / Main – 3" stainless steel bull nose style flare tips (4 each on dual 8" carbon steel tubes), 8' Tall, 4" inlet, completely self-contained, P4 Flame Front Generator constant pilot and auto ignite, flow rate up to 18 MMCF/ D





Steam Injection

20. Will steam injection be used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Steam pressure PSIG Minimum Expected: Design Maximum:
22. Total Steam flow rate: LB/hr	23. Temperature: °F
24. Velocity ft/sec	25. Number of jet streams
26. Diameter of steam jets: in	27. Design basis for steam injected: LB steam/LB hydrocarbon
28. How will steam flow be controlled if steam injection is used?	

Characteristics of the Waste Gas Stream to be Burned

29.	Name	Quantity Grains of H ₂ S/100 ft ³	Quantity (LB/hr, ft ³ /hr, etc)	Source of Material
	Natural Gas	See Attachment N		
30. Estimate total combustible to flare: Max. 360,000 scf/hr. LB/hr or ACF/hr <i>(Maximum mass flow rate of waste gas)</i>				
31. Estimated total flow rate to flare including materials to be burned, carrier gases, auxiliary fuel, etc.: Max. 360,000 scf/hr. LB/hr or ACF/hr				
32. Give composition of carrier gases:				
33. Temperature of emission stream: °F Heating value of emission stream: BTU/ft³ Mean molecular weight of emission stream: MW = lb/lb-mole	34. Identify and describe all auxiliary fuels to be burned. BTU/scf BTU/scf BTU/scf BTU/scf			
35. Temperature of flare gas: °F	36. Flare gas flow rate: scf/min			
37. Flare gas heat content: BTU/ft³	38. Flare gas exit velocity: scf/min			
39. Maximum rate during emergency for one major piece of equipment or process unit:				scf/min
40. Maximum rate during emergency for one major piece of equipment or process unit:				BTU/min
41. Describe any air pollution control device inlet and outlet gas conditioning processes (e.g., gas cooling, gas reheating, gas humidification):				
42. Describe the collection material disposal system:				
43. Have you included Flare Control Device in the Emissions Points Data Summary Sheet? Yes				

44. Proposed Monitoring, Recordkeeping, Reporting, and Testing

Please propose monitoring, recordkeeping, and reporting in order to demonstrate compliance with the proposed operating parameters. Please propose testing in order to demonstrate compliance with the proposed emissions limits.

MONITORING:

BRC Operating Company, LLC will monitor the natural gas production rate to the flare; 24 hours/day.

RECORDKEEPING:

BRC Operating Company, LLC proposes hourly recordkeeping of the natural gas production rate.

REPORTING:

BRC Operating does not propose to report.

TESTING:

BRC Operating Company, LLC does not propose additional testing requirements beyond the natural gas stream characteristics provided herein this application.

MONITORING:

Please list and describe the process parameters and ranges that are proposed to be monitored in order to demonstrate compliance with the operation of this process equipment or air control device.

RECORDKEEPING:

Please describe the proposed recordkeeping that will accompany the monitoring.

REPORTING:

Please describe any proposed emissions testing for this process equipment on air pollution control device.

TESTING:

Please describe any proposed emissions testing for this process equipment on air pollution control device.

45. Manufacturer's Guaranteed Capture Efficiency for each air pollutant.

N/A

46. Manufacturer's Guaranteed Control Efficiency for each air pollutant.

N/A

47. Describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty.

N/A



HERO Flare
Quality flares that work every time.

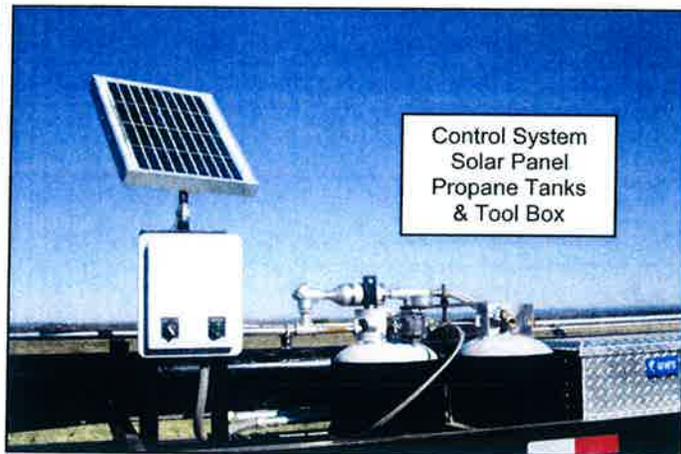
Custom Flare Trailers

Hero Flare specializes in high trailer mounted flares for production field, pipeline, landfill and maintenance activities.

These flares are suitable for highway travel and can be easily towed by a ½ Ton vehicle. Flare setup takes less than 30 minutes. The flare trailer is fully self contained including propane tanks for pilot operation.

The advantages our trailer flares bring to your business including:

- We guarantee that the flare tips will prevent flame instability.
- The capacity, pressure drop and emissions will not exceed guaranteed values.
- The flare tip will meet EPA regulations for tip velocity and pilot monitoring.
- The flare pilot is fully automatic, electric spark design with battery backup and a solar panel charging system. No auxiliary power is required.
- While 3-4 weeks is normal delivery.



HERO Flare

Quality flares that work every time.

445 FM 20 - Bastrop, Texas 78602

512-772-5744

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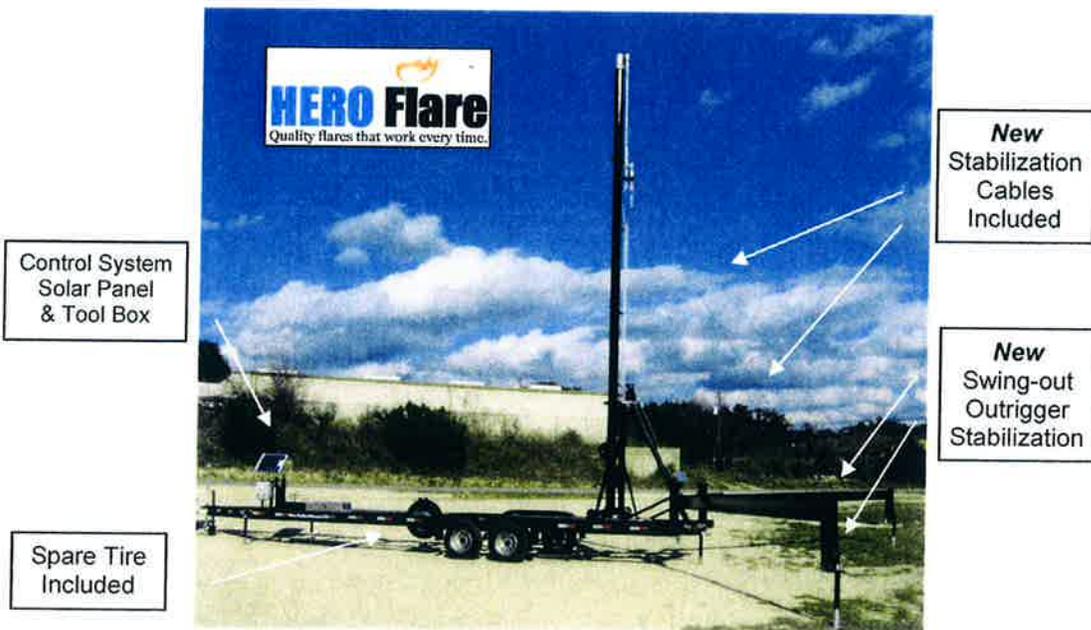
In association with **FLARE TRAILERS** USA

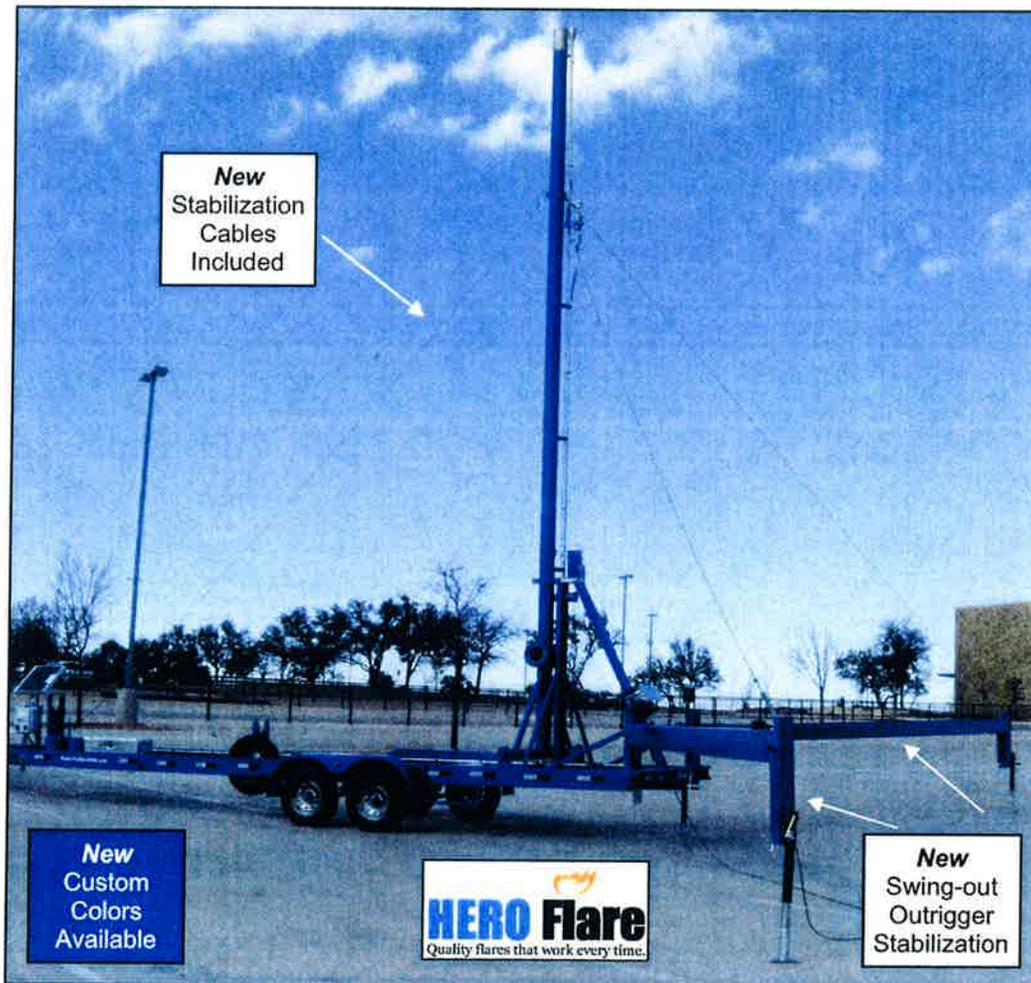
Equipment Description

Trailer Flare 6x30

The flare uses an open pipe tip with internal flame stabilizers. The tip design is proven and has lasted well in previous applications. The flare gas is ignited by continuously sparking pilot. This design has been used on hundreds of gas flares with good success. The flare system includes:

- 6" utility flare tip suitable for vent streams that do not smoke when burned.
- 25 ft overall height when erected.
- Trailer mounted for easy move-in / move-out. Approx 4680 lb.
- Dual 6" 150# RF inlets. Waste gas can enter from either side of trailer flare.
- Electric winch for simple flare erection.
- Outriggers for increased trailer stability in windy conditions.
- High stability pilot. Stainless steel construction for long life.
- Automatic spark ignition system. An electric spark igniter lights the pilot flame.
- Pilot flame monitoring system. A thermocouple continuously monitors the pilot flame status. Dry contacts are included for remote indication of pilot status.
- Battery backup for continuous sparking of pilot in the event of a power failure. The battery will last 5 days without recharging.
- Solar panel, battery and battery charger. No other power is required.
- Nema 4X (fiberglass) control panel.
- Propane pilot fuel. The trailer uses two standard 5 gal bottles of propane. The pilot will run about 30 hours on these two tanks. Due to DOT regulations, we do not include the propane bottles with the flare trailer.
- Auxiliary connection for additional propane or natural gas supply from larger tank.
- Trailer has Certificate for Highway Use. Client to obtain trailer tag.
- Operating manual and spare parts lists (electronic form).





Data Sheet

Design Basis

Inlet Nozzle	6" 150# RF (dual inlets)
Flare Height	30 ft
Number of Pilots	One
Design Flowrate	0-7 MMSCFD of natural gas
Inlet Pressure	0-3 psig
Gas Temperature	ambient
Smokeless Flow	The flare gas may smoke, but should be less than Ringleman 1 at low flow rates.
Max Tip Velocity	400 fps (to meet EPA regulations)
Max Radiation (API)	less than 500 Btu/hr/SF normal. Less than 2000 Btu/hr/SF max

Data Sheet *part 2*

Emissions

Flare guarantees a 98% or greater hydrocarbon destruction efficiency.
Flare guarantees that the flare will be stable over the entire operating range.

Utilities

Pilot Gas (per pilot)	Propane: 11 scfh at 1 psig (25 scfh at 5 psig)
Ignition Gas	None required.
Plant Air	None required.
Electricity	None required. Solar powered 12VDC ignition system.
Purge Gas	38scfh natural gas (normal flow exceeds purge rate)

Mechanical

Design Wind Speed	70 MPH (standard for temporary flares)
Corrosion Allowance	none
Ambient Temperature	-5 to 105°F
Site Elevation	14.6 psia
Electrical Area	non-classified area
Control Panel Type	Nema 4X (Corrosion resistant FRP)



In association with **FLARETRAILERS**.com

BRC OPERATING COMPANY, LLC

APPLICATION FOR NSR PERMIT

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

ATTACHMENT N

SUPPORTING EMISSIONS CALCULATIONS

0.14	Total Hydrocarbons (lb/MMBTU)
0.068	NOx Emission Factor (lb/MMBTU)
0.31	CO Emission Factor (lb/MMBTU)
379.5	SCF = MW* lbs of gas

Total Emissions from Flared Wells (tons/year)

500	All hydrocarbons including methane
0.10	Total VOC Emissions (excluding methane & ethane)
488	Methane
39.8	NOx
181.5	CO
0.98	SO2 (mass balance)
4.56	PM/PM10/PM2.5
68,858	CO2 (mass balance)
79,097	CO2e

Well: Wells		Heating Value @14.696 psia		CO2 Mol Balance				
1,200	Total Gas Flow (MMSCF/Year)	993.46	BTU Dry	total mols				
1,171,284	Total Heat Release (MMBtu)	976.07	BTU Sat	3,162,055				
1,441.63	VOC Heat Release (MMBTU)*	1.7816% Water Vapor						
* Assumes 20,000 Btu/lb for propane, i-butane, n-butane, i-pentane, n-pentane, and hexane.								
Component	dry mol %	wet mol %	MW	Produced Gas lb	Unburned Hydrocarbon lb	CO2 ratio	Mols CO2	
Methane	96.1263	96.10918	16.04	48,755,084	975,102	3,039,025	1	3,039,025
Ethane	1.268	1.26777	30.07	1,205,438	24,109	40,088	2	80,175
Propane	0.0443	0.04429	44.10	61,760	1,235	1,401	3	4,202
i-butane	0.0016	0.00160	58.12	2,940	59	51	4	202
n-butane	0.0029	0.00290	58.12	5,329	107	92	4	367
i-pentane	0.0006	0.00060	72.15	1,369	27	19	5	95
n-pentane	0.0003	0.00030	72.15	684	14	9	5	47
Hexane	0	0.00000	86.18	0	0	0	6	0
Nitrogen	2.3949	2.39447	28.01	2,121,023	0	75,715	0	0
Carbon Dioxide	0.1611	0.16107	44.01	224,150	0	5,093	1	5,093
Oxygen	0	0.00000	32.00	0	0	0	0	0
Water Vapor	0	0.01782	18.02	10,149	0	563	0	0
	100.0000	100.0000	16.57	52,387,925	1,000,652	3,162,055		3,129,207
	Spec Gravity (Air=1.0)		0.572					
		Emissions	% DRE	% DRE	mass balance			
		(lb)	All HC	VOC	CO2			
		(ton)	1,000,652	1,442	137,716,396			
			500.3	0.721	68,858			

SO2 Emissions (Assume total sulfur content converted to SO2)		
Total Sulfur =	0.5674	grains/100 cf
Total Sulfur =	0.49	tpy
SO2 =	0.98	tpy

PM Emissions (PM, PM10, and PM2.5 are equal)			
EF =	7.6	lb/10 ⁶ CF	Ref: AP-42, Section 1.4 (Table 1.4-2)
PM =	4.56	tpy	

AP-42 Factors

Control Efficiency (40CFR60, Section 60.18) = 98

0.14	Total Hydrocarbons (lb/MMBTU)
0.068	NO _x Emission Factor (lb/MMBTU)
0.31	CO Emission Factor (lb/MMBTU)
379.5	SCF = MW* lbs of gas

Total Emissions from Flared Wells (lbs/hr)

300	All hydrocarbons including methane
0.06	Total VOC Emissions (excluding methane & ethane)
293	Methane
23.9	NO _x
108.9	CO
0.60	SO ₂ (mass balance)
2.74	PM/PM10/PM2.5
41,315	CO ₂ (mass balance)
47,458	CO _{2e}

Well: Wells		Heating Value @14.696 psia				CO ₂ Mol Balance			
0.36	Maximum Total Gas Flow (MMSCF/Hour)	993.46 BTU Dry				total mols			
351	Total Heat Release (MMBtu)	976.07 BTU Sat				949			
0.4	VOC Heat Release (MMBTU)*	1.7816% Water Vapor							
* Assumes 20,000 Btu/lb for propane, i-butane, n-butane, i-pentane, n-pentane, and hexane.									
Component	dry mol %	wet mol %	MW	Produced Gas		Unburned Hydrocarbon	CO ₂ ratio	Mols CO ₂	
				lb	lb				
Methane	96.1263	96.10918	16.04	14,626.525	292.531	912	1	912	
Ethane	1.268	1.26777	30.07	361.631	7.233	12	2	24	
Propane	0.0443	0.04429	44.10	18.528	0.371	0	3	1	
i-butane	0.0016	0.00160	58.12	0.882	0.018	0	4	0	
n-butane	0.0029	0.00290	58.12	1.599	0.032	0	4	0	
i-pentane	0.0006	0.00060	72.15	0.411	0.008	0	5	0	
n-pentane	0.0003	0.00030	72.15	0.205	0.004	0	5	0	
Hexane	0	0.00000	86.18	0.000	0.000	0	6	0	
Nitrogen	2.3949	2.39447	28.01	636.307	0.000	23	0	0	
Carbon Dioxide	0.1611	0.16107	44.01	67.245	0.000	2	1	2	
Oxygen	0	0.00000	32.00	0.000	0.000	0	0	0	
Water Vapor	0	0.01782	18.02	3.045	0.000	0	0	0	
			100.0000	100.0000	16.57	15,716.377	300.196	949	939
			Spec Gravity (Air=1.0)	0.572					
			Emissions	% DRE	% DRE	mass balance			
			(lb)	All HC	VOC	CO ₂			
				300	0.432	41,315			

SO ₂ Emissions (Assume total sulfur content converted to SO ₂)		
Total Sulfur =	0.5674	grains/100 cf
Total Sulfur =	0.3	lb/hr
SO ₂ =	0.60	lb/hr

PM Emissions (PM, PM10, and PM2.5 are equal)			
EF =	7.6	lb/10 ⁶ CF	Ref: AP-42, Section 1.4 (Table 1.4-2)
PM =	2.736	lb/hr	

BRC Operating Company, LLC MWV Rupert 3-1H Application for NSR Temp. Construct. Permit G70-B General Permit Application - Supporting Calculations

CESI Emission PCSF	CESI Emissions Calculations Sept. 23, 2013 TPY	CESI Total Gas Flow MMSCF Sept. 23, 2013 MMSCF	CESI Total Gas Flow SCF Sept. 23, 2013 SCF	Adjust To 1,200,000,000 SCF Factor 5.05 Emission Calculations Revised TPY Allow 20% Addition	Newspaper Notice Limits TPY	Shown On Permit Application Based on 360,000 SCF lbs./hr.
Hydrocarbons including Methane	50	237.6	237,600,000	500	500.00	300
Total VOC (Excludes Methane & Ethane)	0.08			0.10	0.10	0.06
Methane	48			488	488.00	293
NOx	16			39.8	39.80	23.9
CO	42.9			181.5	181.50	108.9
SO2 (Mass balance)	0.2			0.98	0.98	0.60
PM/PM10/PM2.5				4.56	4.56	2.74
CO2 (Mass balance)	13,634			68,858.00	68,858.00	41,315

Note: lbs/hr. annualized based on 23 minutes/hr.; 38%. 8760 hrs/year adjust to 3,328 hours/year.
 tons/year = lbs/hr X 1 ton/2000# X 8,760 hrs/year reduce to 3,328 hours/year

By JAG
Date: 09/23/2013

Checked By PEW
Date: 9/23, 2013

AP-42 Factors	TCEQ Factors	(based on TCEQ Guidance publication RG360A/08, Technical Supplement 4 Flares)
0.11	0.11	VOC (lb/MMBTU)
0.08	0.08	VOC based on % DRE of Propane and Lighter Hydrocarbons
0.08	0.08	VOC based on % DRE of Butane and Heavier Hydrocarbons
0.08	0.08	NOx Emission Factor (lb/MMBTU)
0.08	0.08	CO Emission Factor (lb/MMBTU)

Total Emissions from Flared Wells (ton/year)		
50	50	All hydrocarbons including methane
0.02	0.08	Total VOC Emissions (excluding methane & ethane)
48	48	Methane
7.9	16.0	NOx
42.9	31.9	CO
0.20	0.20	SO2 (mass balance)
0.90	0.90	PM/PM10/PM2.5
13,634	13,634	CO2 (mass balance)
14,648	14,648	CO2e

Based on 11/27/12 sample

Well: 237.6	Heating Value @14.696 psia		CO2 Mol Balance					
	Total Gas Flow (MMSCF) ¹	BTU Dry	total mols					
	Total Heat Release (MMBTU)	BTU Sat	626,087					
	VOC Heat Release (MMBTU)*	1.7816% Water Vapor						
* Assumes 20,000 Btu/lb for propane, i-butane, n-butane, i-pentane, n-pentane, and hexane.								
Component	dry mol %	wet mol %	MW	Produced Gas lb	Unburned Hydrocarbon lb	CO2 Mols CO2		
Methane	96.1767	95.10918	16.04	9,653,507	96,535	601,727	1	601,727
Ethane	0.0000	1.26777	30.07	238,677	2,387	7,937	2	15,875
Propane	0.0000	0.04429	44.10	12,228	122	277	3	832
i-butane	0.0000	0.00160	58.12	582	12	10	4	40
n-butane	0.0000	0.00290	58.12	1,055	21	18	4	73
i-pentane	0.0000	0.00060	72.15	271	5	4	5	19
n-pentane	0.0000	0.00030	72.15	135	3	2	5	9
Hexane	0.0000	0.00000	86.18	0	0	0	6	0
Nitrogen	0.0000	2.39447	28.01	419,962		14,991	0	0
Carbon Dioxide	0.0000	0.16107	44.01	44,382		1,008	1	1,008
Oxygen	0.0000	0.00000	32.00	0		0	0	0
Water Vapor	0	0.01782	18.02	2,010		112	0	0
	100.0000	100.0000	16.57	10,372,809	99,085	626,087		619,583
	Spec Gravity (Air=1.0)		0.572					
Emissions (lb)	NOx	CO	% DRE All HC	% DRE VOC	mass balance CO2			
(ton)	32,004	63,892	99,085	163	27,267,846			
	16.0	31.9	49.5	0.1	13,634			

SO2 Emissions (Assume total sulfur content converted to SO2)		
Total Sulfur =	0.5674	grains/100 cf
Total Sulfur =	0.1	tpy
SO2 =	0.20	tpy

PM Emissions (PM, PM10, and PM2.5 are equal)		
EF =	7.6	lb/10 ⁶ Cf
PMI =	0.90288	tpy
Ref: AP 42, Section 1.4 (Table 1.4.2)		

Based on 9/20/2013 email from Chad Touchet to Patrick E. Ward
Values used in CESI form

J-W Measurement Company
 Shreveport,LA Tyler,TX Victoria,TX Midland,TX
 Fairfield,TX Oklahoma City,OK Mounds,OK Tulsa,OK
 WWW.JWOPERATING.COM
 888-226-9110

JWMC Number:	KBWS1000	Run Date:	11/27/12
Customer Name:	K.B. WELLBORE	Eff. Date:	12/1/2012
Station Name:	PLUM CREEK SOUTH FORK PAD 2	Sampled by:	JM
Station Number:		Procure Date:	11/15/12
Producer:	BLUESCAPE	Pressure (lbs.):	75.00
Field:		Temperature (° F):	88
Co. or Pr.:	NICHOLAS	Bottle Number:	522
State:	WV.		

Remarks:

<u>Component</u>	<u>Mole Percent</u>	<u>GPM @ 14.696</u>	<u>Idea/BTU @ 14.696</u>
Hydrogen Sulfide			
Nitrogen	2.3949		
Methane	96.1263		970.88
Carbon Dioxide	0.1611		0.00
Ethane	1.2680	0.338	22.44
Propane	0.0443	0.012	1.11
I-Butane	0.0016	0.001	0.05
N-Butane	0.0029	0.001	0.09
I-Pentane	0.0006	0.000	0.02
N-Pentane	0.0003	0.000	0.01
2,2-Dimethylbutane	0.0000	0.000	0.00
2,3-Dimethylbutane	0.0000	0.000	0.00
2-Methylpentane	0.0000	0.000	0.00
3-Methylpentane	0.0000	0.000	0.00
n-Hexane	0.0000	0.000	0.00
2,2-Dimethylpentane	0.0000	0.000	0.00
Methylcyclopentane	0.0000	0.000	0.00
Benzene	0.0000	0.000	0.00
3,3-Dimethylpentane	0.0000	0.000	0.00
Cyclohexane	0.0000	0.000	0.00
2-Methylhexane	0.0000	0.000	0.00
2,3 dimethylpentane	0.0000	0.000	0.00
3- methylhexane	0.0000	0.000	0.00
1t,2-Dimethylcyclopentane	0.0000	0.000	0.00
1c,2-Dimethylcyclopentane	0.0000	0.000	0.00
n-heptane	0.0000	0.000	0.00
Methylcyclohexane	0.0000	0.000	0.00
2,5-Dimethylhexane	0.0000	0.000	0.00
2,4-Dimethylhexane	0.0000	0.000	0.00
Toluene	0.0000	0.000	0.00
2-Methylheptane	0.0000	0.000	0.00
4-Methylheptane	0.0000	0.000	0.00

We appreciate your business

J-W Measurement Company
 Shreveport, LA Tyler, TX Victoria, TX Midland, TX
 Fairfield, TX Oklahoma City, OK Mounds, OK Tulsa, OK
 WWW.JWOPERATING.COM
 888-226-9110

Customer Name:	K.B. WELLBORE		
Station Name:	PLUM CREEK SOUTH FORK PAD 2		Eff. Date: 12/1/2012
Station Number:			Sampled by: JM
3-Methylheptane	0.0000	0.000	0.00
1c,2-Dimethylcyclohexane	0.0000	0.000	0.00
N-Octane	0.0000	0.000	0.00
1t,2-Dimethylcyclohexane	0.0000	0.000	0.00
1t,3-Dimethylcyclohexane	0.0000	0.000	0.00
1c,3-Dimethylcyclohexane	0.0000	0.000	0.00
Ethylcyclohexane	0.0000	0.000	0.00
Ethylbenzene	0.0000	0.000	0.00
M-Xylene	0.0000	0.000	0.00
P-Xylene	0.0000	0.000	0.00
O-Xylene	0.0000	0.000	0.00
N-Nonane	0.0000	0.000	0.00
Decanes	0.0000	0.000	0.00
Undecanes	0.0000	0.000	0.00
TOTAL	100.0000	0.352	994.61
Ideal Gravity	0.5720	Real Gravity	0.5731
Compressibility Factor (Z) @ 14.696 PSIA & 60 DEG. F =			0.9980
Base Pressures	14.73	14.65	15.025
GPM	0.353	0.351	0.360
Ideal BTU Dry	996.91	991.50	1016.88
Ideal BTU Sat.	979.57	974.15	999.49
Real BTU Dry	998.90	993.46	1018.94
Real BTU Sat.	981.52	976.07	1001.52

Note: Calibration, Standards, and testing procedures are achieved pursuant to GPA regulations.

This Analysis Report is not intended for submission to Louisiana Department of Environmental Quality.

J-W ANALYST

DISTRIBUTION:

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We appreciate your business

BRC OPERATING COMPANY, LLC

APPLICATION FOR NSR PERMIT

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

ATTACHMENT O

MONITORING/RECORDKEEPING/REPORTING/TESTING PLANS

ATTACHMENT O

MONITORING / RECORDKEEPING / REPORTING / TESTING PLANS

BRC Operating Company, LLC proposes a limited monitoring and recordkeeping plan. BRC Operating Company, LLC proposes to monitor and keep records of the hourly natural gas production rate, to ensure compliance with the annual throughput limitations set forth in this permit application.

Annual emissions reporting required for this facility will be conducted. Testing of the natural gas will be conducted as part of the testing phases associated with each of the formations under exploration.

BRC OPERATING COMPANY, LLC

APPLICATION FOR NSR PERMIT

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

ATTACHMENT P

PUBLIC NOTICE

MOUNTAIN MEDIA, LLC

Post Office Box 429, Lewisburg, WV 24901
304-647-5724

CERTIFICATE OF PUBLICATION

STATE OF WEST VIRGINIA
COUNTY OF GREENBRIER, SS:

I, **Alicia Lamb**, one of the Editors or Agents of **Mountain Messenger**, a weekly newspaper of general circulation published in the County of Greenbrier, State of West Virginia, do certify that publication of the advertisement or advertisements **Air Quality Permit Notice – Notice of Application, BRC Operating Company, LLC, Richwood, VA** attached hereto was made in **1 issue(s)** of the newspaper, dated **August 27, 2016**.

Given under my hand this **12th** day of **September**, 2016



Editor or Publisher

\$48.88

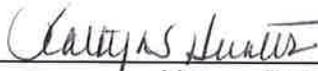
Publication fee

Subscribed and Sworn to before me

This 12 day of September, 20 16

My commission expires: August 20, 2023

Signature _____



Notary Public



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Pocahontas Memorial Hospital is seeking a full time Registered Nurse in the Emergency Department for nights/weekends. Candidate must have one year of nursing experience, possess strong leadership, interpersonal communication, and computer skills as well as be self-motivated. Current RN license in West Virginia., CPR, and ACLS required. Send resume along with three professional references to: Katie Brown, HR Director, PMH, 150 Duncan Road, Buckeye, WV 24924 or email to kbrown@pmhvv.org. EOE.



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LEGAL

GREENBRIER VALLEY AIRPORT REQUEST FOR PROPOSAL

Greenbrier Valley Airport is accepting proposals for runway crack sealing and painting. All cracks on runway to be filled, painting consists of all runway markings to be painted with glass beads added and enhanced with black outline. All work shall be completed in accordance with current FAA Advisory Circulars. Contractors must have previous airport experience and able to communicate with air traffic control tower.

All proposals must be received by September 9, 2016, and work must be completed by October 31, 2016.

Submit bids/proposals to Greenbrier Valley Airport, ATTN: Clyde Green, 584 Airport Road, Box 1, Lewisburg, WV 24901 or fax 304-645-4683.

Questions regarding the scope of work may be addressed to: Clyde Green - clydegreen@gvairport.com or by calling 304-667-8366.

LEGAL

AIR QUALITY PERMIT NOTICE
Notice of Application

Notice is given that BRC Operating Company, LLC has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a Temporary Construction Permit under 45CSR13 to install and operate a flare for gas well production testing located off Saxman Road (West Virginia County 39/14), near Richwood, Greenbrier County, West Virginia. The coordinates of the location are: Latitude 38.15609 and Longitude -80.54128.

The applicant estimates the maximum potential to discharge the following regulated air pollutants on a facility-wide basis will be:

Total Emissions from Flared Wells:

Total VOC Emissions (excludes methane & ethane)	0.10 tons/year
NOx	39.8 tons/year
CO	181.5 tons/year
SO2 (mass balance)	0.98 tons/year
PM/PM10/PM2.5	4.56 tons/year

Vehicular Traffic:

PM/PM10/PM2.5	4.94 tons/year
---------------	----------------

Startup of the operation is planned to begin on or about September 28, 2016. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th Street, SE, Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice.

Any questions regarding this permit application should be directed to the DAQ at (304) 926-0499, extension 1250, during normal business hours.

Dated this the 24th day of August 2016
By: Chad A. Touchet
Vice President
BRC Operating Company, LLC
200 Crescent Court, Suite 1900
Dallas, Texas 75201

AUCTION Live On The Lawn
11:59 A.M.

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New River Community and Technical College Statement of Nondiscrimination

New River Community and Technical College is an equal opportunity institution, committed to the principle that all individuals with disabilities are encouraged to participate on the basis of race, color, national origin, age, religion, blindness, or disability. Admission to, access to, treatment in, or employment at the College shall not be denied on the basis of race, color, national origin, age, religion, blindness, or disability.

New River CTC is an open-door admissions institution. The College is committed to providing an educational program that meets the needs of all students, regardless of educational background or preparation. The College provides counseling, evaluation and admission to the College. New River CTC tests for placement purposes.

Admission to the College does not ensure that a student will be successful in the program, nor does it imply eligibility to enroll in other programs or to enter a program that has a minimum entrance requirements.

New River CTC offers a wide range of associate degree programs in fields such as allied health, business, computer science, and technical trades. A complete list of programs is available on the College's website at www.newriver.edu or call 866-349-3739 for more information.

Students, parents, employees, and the general public are encouraged to provide feedback on the College's nondiscrimination policies. The offices listed below have been designated as the primary contact for inquiries.

Americans with Disabilities Act
Section 504 of the Vocational Rehabilitation Act of 1973, and Title II of the Americans with Disabilities Act

Inquiries from College and Prospective Employees:
Leah Taylor
Vice President for Administration
New River Community and Technical College
280 University Drive
Beaver, WV 25813
Telephone: (304) 926-3922

Americans with Disabilities Act
Section 504 of the Vocational Rehabilitation Act of 1973, and Title II of the Americans with Disabilities Act

Inquiries from Current and Prospective Students:
Vice President, Student Services
New River Community and Technical College
280 University Drive
Beaver, WV 25813
Telephone: (304) 926-3922

SEND US YOUR LETTERS

LEGAL

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways
NOTICE TO CONTRACTORS

Bids will be received electronically by the West Virginia Department of Transportation.