

**AIR QUALITY  
PERMIT NOTICE**

**Notice of Intent  
to Approve**

On April 27, 2015, Cranberry Pipeline Corporation applied to the WV Department of Environmental Protection, Division of Air Quality (DAQ) for a permit to modify the Banham Compressor Station located on Derricks Creek Road, Sissonville, Kanawha County, WV at latitude 38.51735 and longitude -81.66824. A preliminary evaluation has determined that all State and Federal air quality requirements will be met by the modified facility. The DAQ is providing notice to the public of its preliminary determination to issue the permit as R13-2765B.

The following substantive increases in potential-to-emit will be authorized by this permit action:

Oxides of Nitrogen, 0.14 TPY, Carbon Monoxide, 2.43 TPY, Volatile Organic Compounds, 5.01 TPY

Written comments or requests for a public meeting must be received by the DAQ before 5:00 p.m. on Wednesday, July 29, 2015. A public meeting may be held if the Director of the DAQ determines that significant public interest has been expressed, in

**LEGAL  
ADVERTISEMENT**

writing, or when the Director deems it appropriate.

The purpose of the DAQ's permitting process is to make a preliminary determination if the proposed modification will meet all State and Federal air quality requirements. The purpose of the public review process is to accept public comments on air quality issues relevant to this determination.

Only written comments received at the address noted below within the specified time frame, or comments presented orally at a scheduled public meeting, will be considered prior to final action on the permit. All such comments will become part of the public record.

Joe Kessler, PE  
WV Department of  
Environmental  
Protection  
Division of Air Quality  
601 57th Street, SE  
Charleston, WV 25304  
Telephone: 304-926-0499,  
ext 1219  
FAX: 304-926-0478

Additional information, including copies of the draft permit, application and all other supporting materials relevant to the permit decision may be obtained by contacting the engineer listed above.

The draft permit and engineering evaluation can be downloaded at:

[www.dep.wv.gov/daq/Pages/NSRPermitsforReview.aspx](http://www.dep.wv.gov/daq/Pages/NSRPermitsforReview.aspx)

(602869)

*Entire Document*  
**NON-CONFIDENTIAL**

ID. No. 039-00076 Reg. 2765B

Company CPC

Facility BANHAM Region \_\_\_\_\_

Initials JM



**CHARLESTON NEWSPAPERS**

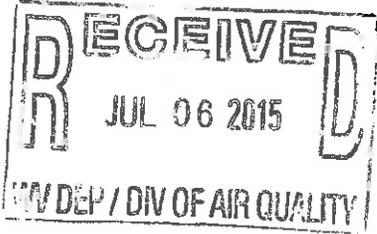
P.O. Box 2993  
Charleston, West Virginia 25330  
Billing 348-4898  
Classified 348-4848  
1-800-WVA-NEWS

**LEGAL ADVERTISING INVOICE**

INVOICE DATE	06/30/15
ACCOUNT NBR	094808103
SALES REP ID	0010
INVOICE NBR	956794001

BILLED TO

WV DIVISION OF AIR QUALITY  
601 57TH STREET SE  
CHARLESTON WV 25304 USA



Please return this portion with your payment.  
Make checks payable to: Charleston Newspapers

AMOUNT PAID: \_\_\_\_\_



**CHARLESTON NEWSPAPERS**

P.O. Box 2993  
Charleston, West Virginia 25330  
Billing 348-4898  
Classified 348-4848  
1-800-WVA-NEWS  
FEIN 55-0676079

INVOICE DATE	06/30/15
ACCOUNT NBR	094808103
SALES REP ID	0010
INVOICE NBR	956794001

Legal pricing is based upon 63 words per column inch.

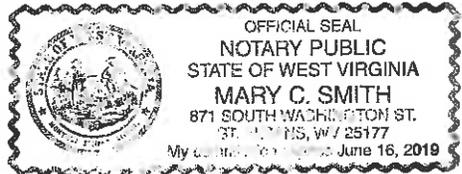
Each successive insertion is discounted by 25% of the first insertion rate.

The Daily Mail rate is \$.13 per word, the Charleston Gazette rate is \$.14 per word, and the Metro Putnam rate is \$.13 per word.

ISSUE DATE	AD TYPE	PUB	DESCRIPTION		AD NUMBER	AD SIZE		RATE	GROSS AMOUNT	NET AMOUNT
			REFERENCE NBR	PURCHASE ORDER #		TOTAL RUN				
06/29	LEG	GZ	6/29	CRANBERRY PIPEL	0602869	1X0900		8.82	79.38	79.38
				956794001			9.00			
TOTAL INVOICE AMOUNT										79.38

State of West Virginia, **AFFIDAVIT OF PUBLICATION**

I, Lisa Fitzgerald of \_\_\_\_\_



THE CHARLESTON GAZETTE

do solemnly swear that the legal notice of:  
6/29 CRANBERRY PIPELINE

was duly published in said newspaper(s) at the stated price for the respective newspaper(s) and during the dates listed below:

Subscribed and sworn to before me this 1st day of July, 2015 06/29/15-06/29/15

Mary C. Smith  
Notary Public of Kanawha County, West Virginia

# AIR QUALITY PERMIT NOTICE

## Notice of Intent to Approve

On April 27, 2015, Cranberry Pipeline Corporation applied to the WV Department of Environmental Protection, Division of Air Quality (DAQ) for a permit to modify the Bonham Compressor Station located on Derricks Creek Road, Sissonville, Kanawha County, WV at latitude 38.51735 and longitude -81.66824. A preliminary evaluation has determined that all State and Federal air quality requirements will be met by the modified facility. The DAQ is providing notice to the public of its preliminary determination to issue the permit as R13-2765B.

The following substantive increases in potential-to-emit will be authorized by this permit action: Oxides of Nitrogen, 0.14 TPY; Carbon Monoxide, 2.63 TPY; Volatile Organic Compounds, 4.96 TPY.

Written comments or requests for a public meeting must be received by the DAQ before 5:00 p.m. on **XXXXXX**. A public meeting may be held if the Director of the DAQ determines that significant public interest has been expressed, in writing, or when the Director deems it appropriate.

The purpose of the DAQ's permitting process is to make a preliminary determination if the proposed modification will meet all State and Federal air quality requirements. The purpose of the public review process is to accept public comments on air quality issues relevant to this determination. Only written comments received at the address noted below within the specified time frame, or comments presented orally at a scheduled public meeting, will be considered prior to final action on the permit. All such comments will become part of the public record.

Joe Kessler, PE  
WV Department of Environmental Protection  
Division of Air Quality  
601 57th Street, SE  
Charleston, WV 25304  
Telephone: 304/926-0499, ext. 1219  
FAX: 304/926-0478

Additional information, including copies of the draft permit, application and all other supporting materials relevant to the permit decision may be obtained by contacting the engineer listed above. The draft permit and engineering evaluation can be downloaded at:

*[www.dep.wv.gov/daq/Pages/NSRPermitsforReview.aspx](http://www.dep.wv.gov/daq/Pages/NSRPermitsforReview.aspx)*

**Kessler, Joseph R**

---

**From:** Adkins, Sandra K  
**Sent:** Monday, June 22, 2015 12:56 PM  
**To:** Wheeler, Cathy L  
**Cc:** Kessler, Joseph R  
**Subject:** DAQ Public Notice

Please see below the Public Notice for Draft Permit R13-2765B Cranberry Pipeline Corporation's Bonham Compressor Station in Sissonville, Kanawha County.

The notice will be published in *the Charleston Gazette* on Monday, June 29, 2015, and the thirty day public comment period will end on Wednesday, July 29, 2015.

**AIR QUALITY PERMIT NOTICE**

**Notice of Intent to Approve**

On April 27, 2015, Cranberry Pipeline Corporation applied to the WV Department of Environmental Protection, Division of Air Quality (DAQ) for a permit to modify the Bonham Compressor Station located on Derricks Creek Road, Sissonville, Kanawha County, WV at latitude 38.51735 and longitude -81.66824. A preliminary evaluation has determined that all State and Federal air quality requirements will be met by the modified facility. The DAQ is providing notice to the public of its preliminary determination to issue the permit as R13-2765B.

The following substantive increases in potential-to-emit will be authorized by this permit action: Oxides of Nitrogen, 0.14 TPY; Carbon Monoxide, 2.63 TPY; Volatile Organic Compounds, 5.01 TPY.

Written comments or requests for a public meeting must be received by the DAQ before 5:00 p.m. on Wednesday, July 29, 2015. A public meeting may be held if the Director of the DAQ determines that significant public interest has been expressed, in writing, or when the Director deems it appropriate.

The purpose of the DAQ's permitting process is to make a preliminary determination if the proposed modification will meet all State and Federal air quality requirements. The purpose of the public review process is to accept public comments on air quality issues relevant to this determination. Only written comments received at the address noted below within the specified time frame, or comments presented orally at a scheduled public meeting, will be considered prior to final action on the permit. All such comments will become part of the public record.

Joe Kessler, PE

WV Department of Environmental Protection

Division of Air Quality

601 57th Street, SE

Charleston, WV 25304

Telephone: 304/926-0499, ext. 1219

FAX: 304/926-0478

Additional information, including copies of the draft permit, application and all other supporting materials relevant to the permit decision may be obtained by contacting the engineer listed above.

The draft permit and engineering evaluation can be downloaded at:

[www.dep.wv.gov/daq/Pages/NSRPermitsforReview.aspx](http://www.dep.wv.gov/daq/Pages/NSRPermitsforReview.aspx)

## Kessler, Joseph R

---

**From:** Adkins, Sandra K  
**Sent:** Monday, June 22, 2015 12:56 PM  
**To:** wentworth.paul@epa.gov; bradley.megan@epa.gov; randy.spencer@cabotog.com  
**Cc:** Durham, William F; Fedczak, James P; McCumbers, Carrie; McKeone, Beverly D; Hammonds, Stephanie E; Taylor, Danielle R; Rice, Jennifer L; Kessler, Joseph R; jhanshaw@slrconsulting.com  
**Subject:** WV Draft Permit R13-2765B for Cranberry Pipeline Corporation, Bonham Station  
**Attachments:** 2765B.docx; Eval 2765B.pdf; notice.pdf

Please find attached the Draft Permit R13-2765B, Engineering Evaluation and Public Notice for Cranberry Pipeline Corporation, Bonham Station, located in Kanawha County.

The notice will be published in *The Charleston Gazette* on Monday, June 29, 2015, and the thirty day public comment period will end on Wednesday, July 29, 2015.

Should you have any questions or comments, please contact the permit writer, Joe Kessler, at 304 926-0499 x 1219.

**Kessler, Joseph R**

---

**From:** Adkins, Sandra K  
**Sent:** Monday, June 22, 2015 11:37 AM  
**To:** legals@cnpapers.com  
**Cc:** Kessler, Joseph R  
**Subject:** Publication of Class I Legal Ad for the WV Division of Air Quality

Please publish the information below as a Class I legal advertisement (one time only) in the Monday, June 29, 2015, issue of *The Charleston Gazette*.

Send the invoice for payment and affidavit of publication to:

**Sandra Adkins**  
**WV Department of Environmental Protection**  
**DIVISION OF AIR QUALITY**  
**601- 57th Street**  
**Charleston, WV 25304**

**AIR QUALITY PERMIT NOTICE**

**Notice of Intent to Approve**

On April 27, 2015, Cranberry Pipeline Corporation applied to the WV Department of Environmental Protection, Division of Air Quality (DAQ) for a permit to modify the Bonham Compressor Station located on Derricks Creek Road, Sissonville, Kanawha County, WV at latitude 38.51735 and longitude -81.66824. A preliminary evaluation has determined that all State and Federal air quality requirements will be met by the modified facility. The DAQ is providing notice to the public of its preliminary determination to issue the permit as R13-2765B.

The following substantive increases in potential-to-emit will be authorized by this permit action: Oxides of Nitrogen, 0.14 TPY; Carbon Monoxide, 2.63 TPY; Volatile Organic Compounds, 5.01 TPY.

Written comments or requests for a public meeting must be received by the DAQ before 5:00 p.m. on Wednesday, July 29, 2015. A public meeting may be held if the Director of the DAQ determines that significant public interest has been expressed, in writing, or when the Director deems it appropriate.

The purpose of the DAQ's permitting process is to make a preliminary determination if the proposed modification will meet all State and Federal air quality requirements. The purpose of the public review process is to accept public comments on air quality issues relevant to this determination. Only written comments received at the address noted below within the specified time frame, or comments presented orally at a scheduled public meeting, will be considered prior to final action on the permit. All such comments will become part of the public record.

Joe Kessler, PE  
WV Department of Environmental Protection  
Division of Air Quality  
601 57th Street, SE  
Charleston, WV 25304  
Telephone: 304/926-0499, ext. 1219  
FAX: 304/926-0478

Additional information, including copies of the draft permit, application and all other supporting

materials relevant to the permit decision may be obtained by contacting the engineer listed above. The draft permit and engineering evaluation can be downloaded at:  
[www.dep.wv.gov/daq/Pages/NSRPermitsforReview.aspx](http://www.dep.wv.gov/daq/Pages/NSRPermitsforReview.aspx)

**Kessler, Joseph R**

---

**From:** Jesse Hanshaw <jhanshaw@slrconsulting.com>  
**Sent:** Wednesday, June 17, 2015 5:23 PM  
**To:** Kessler, Joseph R  
**Cc:** Nathaniel Lanham  
**Subject:** RE: R13-2765B Bonham Station  
**Attachments:** Bonham\_N\_Calculations(Rev1).xlsx; Bonham\_K\_Fugitive Emissions Data Summary Sheet(Rev1).doc; Bonham\_J\_Emission Points Data Summary Sheet (Rev1).doc

Hi Joe,

Please find attached the revised calculations, fugitive data sheet Attachment K, and EPDS Sheet Attachment J, which reflect the fugitive emission factor update for Oil and Gas Production.

Please let me know if you should need any additional information.

Thanks,  
Jesse

P.S. the annual emissions of VOC changed from 4.964 tpy to 5.017 so, you may have to update the legal ad totals slightly.

---

**From:** Kessler, Joseph R [<mailto:Joseph.R.Kessler@wv.gov>]  
**Sent:** June 17, 2015 8:47 AM  
**To:** Jesse Hanshaw  
**Subject:** RE: R13-2765B Bonham Station

Thanks Jesse, if you can get me new calcs today, I think I can get it to Bev for her review.

Joe

---

**From:** Jesse Hanshaw [<mailto:jhanshaw@slrconsulting.com>]  
**Sent:** Tuesday, June 16, 2015 5:34 PM  
**To:** Kessler, Joseph R  
**Subject:** RE: R13-2765B Bonham Station

*Entire Document*  
**NON-CONFIDENTIAL**

Hey Joe,

Thanks for bringing the needed emission factor change to my attention. I will revise the fugitive emission calc and get it back to you ASAP

ID. No. 039-00046 Reg. 2765B  
Company CRANFORD  
Facility BONHAM Region \_\_\_\_\_  
Initials JH

Jesse

**Jesse Hanshaw**  
Principal Engineer  
SLR International Corporation

Cell: 304-545-8563  
Office: 681-205-8949

Email: [jhanshaw@slrconsulting.com](mailto:jhanshaw@slrconsulting.com)

8 Capitol Street Suite 300, Charleston, WV, 25301, United States

[www.slrconsulting.com](http://www.slrconsulting.com)



**Confidentiality Notice and Disclaimer**

This communication and any attachment(s) contain information which is confidential and may also be legally privileged. It is intended for the exclusive use of the recipient(s) to whom it is addressed. If you have received this communication in error, please email us by return mail and then delete the email from your system together with any copies of it. Any views or opinions are solely those of the author and do not represent those of SLR Management Ltd, or any of its subsidiaries, unless specifically stated.

---

**From:** Kessler, Joseph R [<mailto:Joseph.R.Kessler@wv.gov>]

**Sent:** June 16, 2015 3:17 PM

**To:** Jesse Hanshaw

**Subject:** R13-2765B Bonham Station

Jesse, I am reviewing Bonham and see that the fugitive emissions were based on Table 2-3 of EPA-453/R-95-017 like the fugitives were originally calculated at Oxford 11. I believe the more appropriate factors are in Table 2-4 – the Oil and Gas factors like the Oxford 11 were revised to.

Thanks

Joe Kessler, PE

Engineer

West Virginia Division of Air Quality

601-57th St., SE

Charleston, WV 25304

Phone: (304) 926-0499 x1219

Fax: (304) 926-0478

[Joseph.r.kessler@wv.gov](mailto:Joseph.r.kessler@wv.gov)

**Table 1. Annual Potential To Emit (PTE)  
Cranberry Pipeline Corporation - Bonham**

**Criteria PTE**

Source	PM	PM10	PM2.5	SO2	NOx	CO	VOC	CO2e
Emergency Generator (ton/yr)	0.001	0.001	0.001	0.000	0.137	2.628	0.054	15.008
Tanks (ton/yr)							4.829	
Truck Loading (ton/yr)							0.076	
Fugitives (ton/yr)							0.058	263.438
<b>Total Emissions (ton/yr)</b>	0.001	0.001	0.001	0.000	0.137	2.628	5.017	278.447
<b>Total Emissions (lb/hr)</b>	0.000	0.000	0.000	0.000	0.031	0.600	1.145	63.572

**HAP PTE**

Source	Benzene	Toluene	Ethylbenzene	Xylene	n-Hexane	Formaldehyde	Total HAPs Listed
Emergency Generator (ton/yr)	0.000	0.000	0.000	0.000		0.003	0.003
Tanks (ton/yr)							0.000
<b>Total Emissions (ton/yr)</b>	0.000	0.000	0.000	0.000	0.000	0.003	0.003
<b>Total Emissions (lb/hr)</b>	0.000	0.000	0.000	0.000	0.000	0.001	0.001

**Table 2. Tank Emissions  
Cranberry Pipeline Corporation - Bonham**

Emission Unit	Tank Contents	Tank Throughput (bbls/day)	Flashing Emissions (lbs/day) (1)	Working and Breathing Emissions (lbs/day) (b)	VOC Emissions (lb/hr)	VOC Emissions (tons/yr)
T1	Station Pipeline Fluids	1.6	20.24	1.35	0.8998	3.9413
T2	Offsite Pipeline Fluids	1.1	NA	1.62	0.0675	0.2959
T3	Offsite Pipeline Fluids	1.1	NA	1.62	0.0675	0.2959
T7	Offsite Pipeline Fluids	1.1	NA	1.62	0.0675	0.2959
<b>Total</b>					<b>1.1025</b>	<b>4.8289</b>

**Calculations:**

(a) Flashing Emissions

$$\text{PTE emissions (lbs/day)} = [\text{Tank Throughput (bbls/day)}] \times [\text{Flashing EF (lbs/bbls)}]$$

(b) Working and Breathing Emissions (Note 2)

$$\text{PTE emissions (lbs/day)} = [\text{Tank 4.0 Emissions (lbs/year)}] / [(\text{days/year})]$$

**Notes:**

(1) Flashing emissions from Vasquez-Beggs

(2) Model output from Tank 4.0 (See backup documentation)

Company Name: Cranberry Pipeline Corporation  
 Facility Name: Bonham Compressor Station

**Volatile Organic Compound Emission Calculation for Flashing for Station Pipeline Liquids Tank (T1)**

**Vasquez - Beggs Solution Gas/Oil Ratio Correlation Method**

(For Estimating VOC Flashing Emissions, Using Stock Tank Gas-Oil Ratios)

INPUTS:

			DEFAULTS
Stock Tank API Gravity	40	API	78
Separator Pressure (psig)	300	P	N/A
Separator Temperature (°F)	91	Ti	60
Separator Gas Gravity at Initial Condition	1.18	SGi	0.90
Stock Tank Barrels of Oil per day (BOPD)	1.65	Q	N/A
Stock Tank Gas Molecular Weight	49	MW	49
Fraction VOC (C3+) of Stock Tank Gas	0.8	VOC	0.8
Atmospheric Pressure (psia)	14.7	Patm	14.7

$SG_x = \text{Dissolved gas gravity at 100 psig} = SG_i [1.0 + 0.00005912 * API * T_i * \log(P_i/14.7)]$

**SG<sub>x</sub> = 1.29**

$R_s = (C_1 * SG_x * P_i^{C_2}) \exp((C_3 * API) / (T_i + 460))$

Where:

Rs	Gas/Oil Ratio of liquid at pressure of interest
SG <sub>x</sub>	Dissolved gas gravity at 100 psig
P <sub>i</sub>	Pressure of initial condition (psia)
API	API Gravity of liquid hydrocarbon at final condition
T <sub>i</sub>	Temperature of initial condition (F)

**Constants**

°API →	°API Gravity		Given °API
	< 30	>= 30	
C1	0.0362	0.0178	0.0178
C2	4.0937	1.187	1.187
C3	25.724	23.931	23.931

**Rs = 120.49 scf/bbl for P + Patm = 314.7**

Document Notes:

$THC = R_s * Q * MW * 1/385 \text{ scf/lb-mole} * 365 \text{ D/Yr} * 1 \text{ ton}/2000 \text{ lb.s}$

THC	Total Hydrocarbon (tons/year)
Rs	Solution Gas/Oil Ratio (scf/STB)
Q	Oil Production Rate (bbl/day)
MW	Molecular Weight of Stock Tank Gas (lb/lb-mole)
385	Volume of 1 lb-mole of gas at 14.7 psia and 68 F (WAQS&R Std Cond)

**THC = 4.6 TPY**

$VOC = THC * \text{Frac. of C3+ in the Stock Tank Vapor}$

**VOC = 3.69 TPY from "FLASHING" of oil from separator to tank press**

**Table 3. Emergency Generator (EG-1)  
Cranberry Pipeline Corporation - Bonham**

Pollutant	Emission Factor	PTE per Generator (lb/hr)	PTE per Generator <sup>(a)</sup> (tons/yr)
<b>Criteria Pollutants</b>			
PM/PM10/PM2.5	9.50E-03 lb/MMBtu (2)	0.00487	0.00122
SO <sub>2</sub>	5.88E-04 lb/MMBtu (2)	0.00030	0.00008
NO <sub>x</sub>	3.94 g/hp-hr (1)	0.54722	0.13681
CO	75.70 g/hp-hr (1)	10.51389	2.62847
VOC	1.56 g/hp-hr (1)	0.21667	0.05417
<b>Hazardous Air Pollutants</b>			
1,1,2,2-Tetrachloroethane	2.53E-05 lb/MMBtu (2)	0.00001	0.00000
1,1,2-Trichloroethane	1.53E-05 lb/MMBtu (2)	0.00001	0.00000
1,3-Butadiene	6.63E-04 lb/MMBtu (2)	0.00034	0.00009
1,3-Dichloropropene	1.27E-05 lb/MMBtu (2)	0.00001	0.00000
Acetaldehyde	2.79E-03 lb/MMBtu (2)	0.00143	0.00036
Acrolein	2.63E-03 lb/MMBtu (2)	0.00135	0.00034
Benzene	1.58E-03 lb/MMBtu (2)	0.00081	0.00020
Carbon Tetrachloride	1.77E-05 lb/MMBtu (2)	0.00001	0.00000
Chlorobenzene	1.29E-05 lb/MMBtu (2)	0.00001	0.00000
Chloroform	1.37E-05 lb/MMBtu (2)	0.00001	0.00000
Ethylbenzene	2.48E-05 lb/MMBtu (2)	0.00001	0.00000
Ethylene Dibromide	2.13E-05 lb/MMBtu (2)	0.00001	0.00000
Formaldehyde	2.05E-02 lb/MMBtu (2)	0.01052	0.00263
Methanol	3.06E-03 lb/MMBtu (2)	0.00157	0.00039
Methylene Chloride	4.12E-05 lb/MMBtu (2)	0.00002	0.00001
Naphthalene	9.71E-05 lb/MMBtu (2)	0.00005	0.00001
PAH (POM)	1.41E-04 lb/MMBtu (2)	0.00007	0.00002
Styrene	1.19E-05 lb/MMBtu (2)	0.00001	0.00000
Toluene	5.58E-04 lb/MMBtu (2)	0.00029	0.00007
Vinyl Chloride	7.18E-06 lb/MMBtu (2)	0.00000	0.00000
Xylenes	1.95E-04 lb/MMBtu (2)	0.00010	0.00003
<b>Total HAP</b>		<b>0.017</b>	<b>0.00416</b>
<b>Greenhouse Gas Emissions</b>			
CO <sub>2</sub>	116.89 lb/MMBtu (3)	6.00E+01	1.50E+01
CH <sub>4</sub>	2.2E-03 lb/MMBtu (3)	1.13E-03	2.83E-04
N <sub>2</sub> O	2.2E-04 lb/MMBtu (3)	1.13E-04	2.83E-05
CO <sub>2</sub> e <sup>(b)</sup>	-	60.03	15.01

**Calculations: If emission factor note 1 is used, use calculation (a). If emission factor note 2 or 3 is used, use calculation (b).**

(a) Annual emissions (tons/yr) = [Emission Factor (g/(kW or HP)-hr)]x[Power Output (kW or HP)] x [Hours of Operation (hrs/yr)] x [Number of engines]x[1.10231131x10<sup>-6</sup>(ton/gram)]

(b) Annual emissions (tons/yr) = [Emission Factor (lbs/MMBtu)] x [Hours of Operation (hrs/yr)] x [BSFC (cf/hr)] x [1/Heat Content (Btu/scf)] / [1,000,000 (BTU/MMBtu)] / [2,000 lb/ton] x [Number of engines]

Engine Power Output (kW) =	47	
Engine Power Output (hp) =	63	
Number of Engines Operating at a Time =	1	
Fuel Throughput (cf/hr) =	503	(5)
Heat Content Natural Gas(Btu/scf) =	1,020.0	(6)
BSFC (Btu/hp-hr)=	8,143.8	(7)
PTE Hours of Operation =	500	

(b) CO<sub>2</sub> equivalent = [(CO<sub>2</sub> emissions)\*(GWP<sub>CO2</sub>)]+[(CH<sub>4</sub> emissions)\*(GWP<sub>CH4</sub>)]+[(N<sub>2</sub>O emissions)\*(GWP<sub>N2o</sub>)]  
Global Warming Potential (GWP)

CO <sub>2</sub>	1	(8)
CH <sub>4</sub>	25	(8)
N <sub>2</sub> O	298	(8)

**Notes:**

- (1) Emission factors supplied by manufacturer
- (2) AP-42, Chapter 3.2, Table 3.2-3. *Natural Gas-fired Reciprocating Engines (7/00)*. Uncontrolled Emission Factors for 4-Stroke Rich-Burn Engines.
- (3) Emission factors are from 40 CFR 98, Subpart C, Table C-1 and C-2.
- (5) Fuel throughput from manufacturer's specification sheet.
- (6) Value obtained from AP-42, section 4.1.1.
- (7) Calculated : (Heat Content)/(Fuel Throughput(x) Engine HP)
- (8) Global Warming Potentials obtained from 40 CFR 98, Subpart A, Table A-1

**Table 4. Truck Loading (TL) VOC Emissions  
Cranberry Pipeline Corporation - Bonham**

Contents	Volume Transferred	Loading Loss <sup>(a)</sup> (lb VOC/1000gal)	PTE VOC Emissions (lb/hr)	PTE VOC Emissions (ton/yr) <sup>(b)</sup>
Offsite Pipeline Fluids	50,400 gal/yr	2.013	0.012	0.051
Station Pipeline Fluids	25,200 gal/yr	2.013	0.006	0.025
<b>Total</b>			<b>0.017</b>	<b>0.076</b>

**Calculations:**

(a) Loading Loss (lb/1000 gal) = 12.46x[Saturation Factor] x [True Vapor Pressure of Liquid Loaded (psia)] x [Molecular Weight of Vapors(lb/lb-mole)] / [Temperature of Bulk Liquid Loaded(°R)]

(b) Annual Emissions(tons/yr) = [Loading Loss (lb VOC/ 1000 gal)]\*[Volume Transferred(gal/yr)]/1000/2000

	<u>Line Waste</u>	<u>Dehy Waste</u>	
Saturation factor	0.60	0.60	Note <sup>(1)</sup>
Condensate Pvp (psia)	2.80	2.80	Note <sup>(2)</sup>
Molecular Weight (lb/lb-mol)	50.00	50.00	Note <sup>(2)</sup>
Bulk Liquid Temperature (F)	60.00	60.00	Note <sup>(2)</sup>

**Notes:**

(1) AP-42 Section 5.2

(2) AP-42 Section 7.1, Table 7.1-2.

**Table 5. Fugitive Leak Emissions  
Cranberry Pipeline Corporation - Bonham**

Fugitive emissions from valves and fittings are calculated using the major equipment default component count approach from 40 CFR Part 98 because site-specific component counts have not been collected.

Pollutant	Emission Factor Total Gas Losses	Annual emission losses <sup>(a)</sup> (tons/yr)
Valves	4.50E-03 kg/hr/source (1)	7.2112
Pressure Relief Valves	8.80E-03 kg/hr/source (1)	0.5947
Connector/flanges	3.90E-04 kg/hr/source (1)	2.8839
Open-ended Lines	2.00E-03 kg/hr/source (1)	0.3379
<b>Total</b>	-	<b>11.0276</b>

**Calculations:**

(a) Annual emission losses (tons/yr) = [Emission Factor (kg/hr/source)] x [Number of Sources] x [Hours of Operation per Year] x [0.001102 tons/ kg]

(b) Leak detection survey conducted on 12-29-2012 revealed no leaks at the facility.

Number of Components in Gas Service

Valves=	166	(2)
Pressure Relief Valves=	7	(2)
Connectors=	766	(2)
Open-ended lines	18	(2)

Maximum Hour of Operation = 8,760

Compound	Fraction <sup>(3)</sup>	Potential Annual Emissions (tons/yr) <sup>(b)</sup>
C6 +	0.00022	0.0024
Nitrogen	0.01138	0.1255
Methane	0.95532	10.5349
CO2	0.00601	0.0663
Ethane	0.02203	0.2429
Propane	0.0035	0.0386
i Butane	0.00039	0.0043
n Butane	0.0008	0.0088
i Pentane	0.0002	0.0022
n Pentane	0.00015	0.0017
<b>Total VOC Emissions</b>		<b>0.0580</b>
<b>Total CO2e<sup>(c)</sup></b>		<b>263.44</b>

(b) Potential Annual Emissions (tons/yr) = Annual Emission Losses (TPY) X (compound Weight fraction)

(c) CO<sub>2</sub> equivalent = [(CO<sub>2</sub> emissions) x (GWP<sub>CO2</sub>)] + [(CH<sub>4</sub> emissions) x (GWP<sub>CH4</sub>)] + [(N<sub>2</sub>O emissions) x (GWP<sub>N2O</sub>)]

Global Warming Potential (GWP)

CO <sub>2</sub>	1	(4)
CH <sub>4</sub>	25	(4)
N <sub>2</sub> O	298	(4)

**Notes:**

(1) Emission factors from *Protocol for Equipment Leak Emission Estimates* Table 2-4 Oil and Gas Production Operations Average Emission Factors

(2) *Default Average Component Counts for Major Onshore Natural Gas Production Equipment* from 40 CFR 98, Subpart W, Table W-1B

(3) Representative Gas Analysis Results from the Dangle Facility

(4) Global Warming Potentials obtained from 40 CFR 98, Subpart A, Table A-1

**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 <sup>1</sup>	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 <sup>3</sup> (Speciate VOCs & HAPS)	Maximum Potential Uncontrolled Emissions <sup>4</sup>		Maximum Potential Controlled Emissions <sup>5</sup>		Emission Form or Phase (At exit conditions, Solid, Liquid or Gas/Vapor)	Est. Method Used <sup>6</sup>	Emission Concentration <sup>7</sup> (ppmv or mg/m <sup>3</sup> )
		ID No.	Source	ID No.	Device Type	Short Term <sup>2</sup>	Max (hr/yr)		lb/hr	ton/yr	lb/hr	ton/yr			
4E	Vertical Stack	EG-1	Emergency Generator	NA	NA	NA	NA	PM SO <sub>2</sub> NO <sub>x</sub> CO VOC CO <sub>2e</sub>	0.01 <0.01 0.54 10.35 0.22 60.03	0.01 <0.01 0.14 2.59 0.06 15.01	0.01 <0.01 0.54 10.35 0.22 60.03	0.01 <0.01 0.14 2.59 0.06 15.01	Gas/ Vapor	EE	Can Supply Upon Request
T1E	Vented	T1	Tank	NA	NA	NA	NA	VOC	0.90	3.95	0.90	3.95	Gas/ Vapor	EE	Can Supply Upon Request
T2E	Vented	T2	Tank	NA	NA	NA	NA	VOC	0.07	0.30	0.07	0.30	Gas/ Vapor	EE	Can Supply Upon Request
T3E	Vented	T3	Tank	NA	NA	NA	NA	VOC	0.07	0.30	0.07	0.30	Gas/ Vapor	EE	Can Supply Upon Request
T7E	Vented	T7	Tank	NA	NA	NA	NA	VOC	0.07	0.30	0.07	0.30	Gas/ Vapor	EE	Can Supply Upon Request
Fugitives	Truck Vacuum Pump	TL-1	Truck Loading	NA	NA	NA	NA	VOC	0.02	0.08	0.02	0.08	Gas/ Vapor	EE	Can Supply Upon Request
Fugitives	-	-	Fugitives	NA	NA	NA	NA	VOC CO <sub>2e</sub>	0.02 60.38	0.06 264.44	0.02 60.38	0.06 264.44	Gas/ Vapor	EE	Can Supply Upon Request

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.

<sup>1</sup> Please add descriptors such as upward vertical stack, downward vertical stack, horizontal stack, relief vent, rain cap, etc.

<sup>2</sup> 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).

<sup>3</sup> List all regulated air pollutants. Speciate VOCs, including all HAPs. Follow chemical name with Chemical Abstracts Service (CAS) number. LIST Acids, CO, CS<sub>2</sub>, VOCs, H<sub>2</sub>S, Inorganics, Lead, Organics, O<sub>3</sub>, NO, NO<sub>2</sub>, SO<sub>2</sub>, SO<sub>3</sub>, all applicable Greenhouse Gases (including CO<sub>2</sub> and methane), etc. DO NOT LIST H<sub>2</sub>, H<sub>2</sub>O, N<sub>2</sub>, O<sub>2</sub>, and Noble Gases.

<sup>4</sup> 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).

<sup>5</sup> 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 minute batch).

<sup>6</sup> 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).

<sup>7</sup> 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/m<sup>3</sup>) at standard conditions (68 °F and 29.92 inches Hg) (see 45CSR7). If the pollutant is SO<sub>2</sub>, use units of ppmv (See 45CSR10).

**Attachment J  
EMISSION POINTS DATA SUMMARY SHEET**

**Table 2: Release Parameter Data**

Emission Point ID No. (Must match Emission Units Table)	Inner Diameter (ft.)	Exit Gas		Emission Point Elevation (ft)		UTM Coordinates (km)		
		Temp. (°F)	Volumetric Flow <sup>1</sup> (acfm) at operating conditions	Velocity (fps)	Ground Level (Height above mean sea level)	Stack Height <sup>2</sup> (Release height of emissions above ground level)	Northing	Easting
4E	0.33	1075	300	57.5	615	4	4,263.43	441.75

<sup>1</sup> Give at operating conditions. Include inerts.  
<sup>2</sup> Release height of emissions above ground level.

## 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 type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 - Chemical Name/CAS <sup>1</sup>	Maximum Potential Uncontrolled Emissions <sup>2</sup>		Maximum Potential Controlled Emissions <sup>3</sup>		Est. Method Used <sup>4</sup>
		lb/hr	ton/yr	lb/hr	ton/yr	
Haul Road/Road Dust Emissions Paved Haul Roads		-	-	-	-	EE
Unpaved Haul Roads		-	-	-	-	EE
Storage Pile Emissions		-	-	-	-	EE
Loading/Unloading Operations	VOC	0.02	0.08	0.02	0.08	EE
Wastewater Treatment Evaporation & Operations		-	-	-	-	EE
Equipment Leaks	VOC CO <sub>2e</sub>	0.02 60.38	0.06 264.44	0.02 60.38	0.06 263.44	EE
General Clean-up VOC Emissions		-	-	-	-	EE
Other		-	-	-	-	EE

<sup>1</sup> List all regulated air pollutants. Speciate VOCs, including all HAPs. Follow chemical name with Chemical Abstracts Service (CAS) number. LIST Acids, CO, CS<sub>2</sub>, VOCs, H<sub>2</sub>S, Inorganics, Lead, Organics, O<sub>3</sub>, NO, NO<sub>2</sub>, SO<sub>2</sub>, SO<sub>3</sub>, all applicable Greenhouse Gases (including CO<sub>2</sub> and methane), etc. DO NOT LIST H<sub>2</sub>, H<sub>2</sub>O, N<sub>2</sub>, O<sub>2</sub>, and Noble Gases.

<sup>2</sup> 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).

<sup>3</sup> 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).

<sup>4</sup> 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).



west virginia department of environmental protection

Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
Phone (304) 926-0475 • FAX: (304) 926-0479

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
www.dep.wv.gov

May 27, 2015

Mr. Randy Spencer, Safety & Environmental Manager-North  
Cranberry Pipeline Corporation  
Suite 1500  
900 Lee Street East  
Charleston, WV 25301

RE: **Application Completeness**  
Cranberry Pipeline Corporation  
Bonham Compressor Station  
Permit No. R13-2765B  
Plant ID No. 039-00046

Dear Mr. Spencer:

Your application for a modification permit was received by the Division of Air Quality (DAQ) on April 27, 2015 and assigned to the writer for review. Upon an initial review of the information submitted, the application has been deemed complete as of the date of this letter. The ninety (90) day statutory time frame began on that day.

This determination of completeness shall not relieve the permit applicant of the requirement to subsequently submit, in a timely manner, any additional or corrected information deemed necessary for a final permit determination.

Should you have any questions, please contact me at (304) 926-0499 ext. 1219.

Sincerely,

Joe Kessler, PE  
Engineer

c: Mr. Jesse Hanshaw, Principle Engineer (via e-mail)  
SLR International Corporation

*Entire Document*  
**NON-CONFIDENTIAL**

**Kessler, Joseph R**

---

**From:** Adkins, Sandra K  
**Sent:** Friday, May 01, 2015 10:34 AM  
**To:** Kessler, Joseph R  
**Subject:** Cranberry Pipeline Corp (Bonham Station)/Permit Application Fee

This is the receipt for payment received from:

Cranberry Pipeline Corporation, check number 2900220878, dated April 14, 2015, \$2,000.00  
Bonham Station R13-2765B id no 039-00046

OASIS Deposit No CR 1500121343 May 1, 2015

## UC Defaulted Accounts Search Results

Sorry, no records matching your criteria were found.

---

FEIN:

Business name: CRANBERRY PIPELINE CORPORATION

Doing business

as/Trading as:

---

Please use your browsers back button to try again.

<a href="#">WorkforceWV</a>	<a href="#">Unemployment Compensation</a>	<a href="#">Offices of the Insurance Commissioner</a>
-----------------------------	-----------------------------------------------	-----------------------------------------------------------

## UC Defaulted Accounts Search Results

Sorry, no records matching your criteria were found.

---

FEIN: 042989934

Business name:

Doing business

as/Trading as:

---

Please use your browsers back button to try again.

<a href="#">WorkforceWV</a>	<a href="#">Unemployment Compensation</a>	<a href="#">Offices of the Insurance Commissioner</a>
-----------------------------	-----------------------------------------------	-----------------------------------------------------------

**Attachment R  
AUTHORITY OF CORPORATION  
OR OTHER BUSINESS ENTITY (DOMESTIC OR FOREIGN)**

TO: The West Virginia Department of Environmental Protection,  
Division of Air Quality

DATE: July 19, 2010, 2010

ATTN.: Director

Corporation's / other business entity's Federal Employer I.D. Number 042989934

The undersigned hereby files with the West Virginia Department of Environmental Protection, Division of Air Quality, a permit application and hereby certifies that the said name is a trade name which is used in the conduct of an incorporated business or other business entity.

Further, the corporation or the business entity certifies as follows:

(1) RANDY SPENCER (is/are) the authorized representative(s) and in that capacity may represent the interest of the corporation or the business entity and may obligate and legally bind the corporation or the business entity.

(2) The corporation or the business entity is authorized to do business in the State of West Virginia.

(3) If the corporation or the business entity changes its authorized representative(s), the corporation or the business entity shall notify the Director of the West Virginia Department of Environmental Protection, Division of Air Quality, immediately upon such change.



Dan O. Dinges - President, Chief Executive Officer 

President or Other Authorized Officer

(Vice President, Secretary, Treasurer or other official in charge of a principal business function of the corporation or the business entity)

(If not the President, then the corporation or the business entity must submit certified minutes or bylaws stating legal authority of other authorized officer to bind the corporation or the business entity).

Secretary

**CABOT OIL & GAS CORPORATION  
CRANBERRY PIPELINE CORPORATION**

Name of Corporation or business entity



Wednesday, May 13, 2015

Joe Kessler  
WVDEP, Division of Air Quality  
601 – 57<sup>th</sup> Street  
Charleston, West Virginia 25304

**Re:** G35-A General Permit Modification Application  
Bonham Compressor Station, Sissonville, West Virginia

Dear Mr. Kessler:

SLR International Corporation has attached the Class I Legal Advertisement for the G35-A General Permit Modification Application on behalf of Cranberry Pipeline Corporation's Bonham Compressor Station.

The public notice was delivered to *The Charleston Gazette* for publication. The Class I Legal Advertisement and original affidavit from the newspaper are attached. If any additional information is needed, please don't hesitate contacting me by telephone at (681) 205-8949 or by e-mail at [esaturday@slrconsulting.com](mailto:esaturday@slrconsulting.com).

Sincerely,  
SLR International Corporation



Ethan Saturday, E.I.  
Staff Engineer

*Entire Document*  
**NON-CONFIDENTIAL**

Attachment: Published Legal Ad and Affidavit

ID. No. 239-00046 Reg. 2765B  
Company Cranberry  
Facility Bonham  
Initials JK



**CHARLESTON NEWSPAPERS**

P.O. Box 2993  
Charleston, West Virginia 25330  
Billing 348-4898  
Classified 348-4848  
1-800-WVA-NEWS

**LEGAL ADVERTISING INVOICE**

INVOICE DATE	04/29/15
ACCOUNT NBR	023218101
SALES REP ID	0998
INVOICE NBR	949115001

M

SLR INTERNATIONAL CORP  
900 LEE ST. E  
CHARLESTON WV 25301 USA

BILLED TO

Please return this portion with your payment.  
Make checks payable to: Charleston Newspapers

AMOUNT PAID: \_\_\_\_\_



**CHARLESTON NEWSPAPERS**

P.O. Box 2993  
Charleston, West Virginia 25330  
Billing 348-4898  
Classified 348-4848  
1-800-WVA-NEWS  
FEIN 55-0676079

INVOICE DATE	04/29/15
ACCOUNT NBR	023218101
SALES REP ID	0998
INVOICE NBR	949115001

Legal pricing is based upon 63 words per column inch.

Each successive insertion is discounted by 25% of the first insertion rate.

The Daily Mail rate is \$.13 per word, the Charleston Gazette rate is \$.14 per word, and the Metro Putnam rate is \$.13 per word.

ISSUE DATE	AD TYPE	PUB	DESCRIPTION		AD NUMBER	AD SIZE TOTAL RUN	RATE	GROSS AMOUNT	NET AMOUNT
			REFERENCE NBR	PURCHASE ORDER #					
04/28	LEG	GZ	4/28	AIR QUALITY BON	0597264	1X0850	8.82	74.97	74.97
			949115001			8.50			
									74.97

LEGAL ADVERTISEMENT

**AIR QUALITY PERMIT NOTICE**  
Notice of Application

Notice is given that Cranberry Pipeline Corporation has applied to the West Virginia Department of Environmental Protection, Division of Air Quality for a permit to construct a new 13 permit application for construction located at the Bonham site of Derricks Creek Road in Sissonville, Kanawha County, WV. The latitude and longitude coordinates are: 38.51735 and -81.66824.

The applicant estimates the increased potential to discharge of the following Resultant Air Pollutants will be:

Pollutant	TONS/YR
NOX	7.63
CO	4.93
VOC	<0.01
SO2	<0.01
PM10	<0.01
PM2.5	37.39
CO2	<0.01
Benzene	<0.01
Toluene	<0.01
Ethylbenzene	<0.01
Xylenes	<0.01
n-Hexane	<0.01
Formaldehyde	<0.01
Total HAPs	<0.01

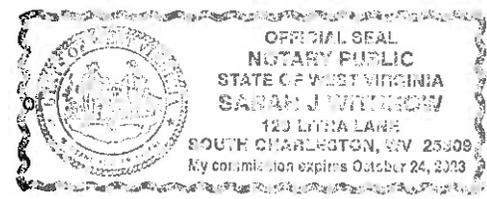
Startup of operation is planned to begin on or about the 1st day of July, 2015. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th Street, SE, Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice.

Any questions regarding this permit application should be directed to the DAQ at (304) 926-0499, extension 1227, during normal business hours.

Dated this the 28th Day of April, 2015.

By: Cranberry Pipeline Corporation  
Randy Sanchez  
Secretary and Environmental Manager  
900 Lee Street East, Suite 1500  
Charleston, WV 25301

(597244)



newspaper(s) and during the dates listed below:  
04/28/15-04/28/15

Notary Public of Kanawha County, West Virginia

**Kessler, Joseph R**

---

**From:** Rice, Jennifer L  
**Sent:** Friday, May 01, 2015 9:24 AM  
**To:** Randy Spencer; jhanshaw@slrconsulting.com  
**Cc:** Kessler, Joseph R; McKeone, Beverly D  
**Subject:** WV DAQ Permit Application Status for Cranberry Pipeline Corporation; Bonham Station

**RE: Application Status  
Cranberry Pipeline Corporation  
Bonham Station  
Plant ID No. 039-00046  
Application No. R13-2765B**

*Entire Document*  
**NON-CONFIDENTIAL**

Mr. Spencer,

Your application for a modification permit for the Bonham Station was received by this Division on April 27, 2015, and was assigned to Joe Kessler. The following item was not included in the initial application submittal:

**Original affidavit for Class I legal advertisement not submitted.**

*This item is necessary for the assigned permit writer to continue the 30-day completeness review.*

Within 30 days, you should receive a letter from Joe Kessler stating the status of the permit application and, if complete, given an estimated time frame for the agency's final action on the permit.

Any determination of completeness shall not relieve the permit applicant of the requirement to subsequently submit, in a timely manner, any additional or corrected information deemed necessary for a final permit decision.

Should you have any questions, please contact the assigned engineer, Joe Kessler, at 304-926-0499, extension 1219.

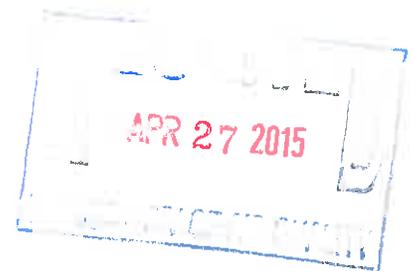
**Jennifer Rice**  
**WV Dept. of Environmental Protection**  
**Division of Air Quality**  
**304-926-0499 x1227**



April 23, 2015

Bev McKeone  
NSR Permitting Supervisor  
WVDEP, Division of Air Quality  
601 – 57<sup>th</sup> Street, SE  
Charleston, West Virginia 25304

Re: 45CSR13 Permit Application to Modify R13-2765A  
Cranberry Pipeline Corporation, Bonham Station,



Dear Ms. McKeone:

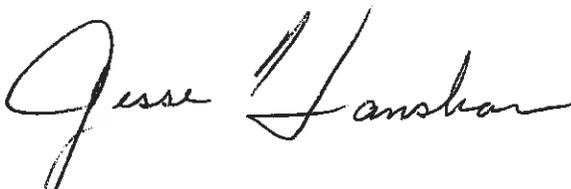
SLR International Corporation (SLR) has prepared the attached Rule 13 Application on behalf of Cranberry Pipeline Corporation (Cranberry Pipelines) for their Bonham Compressor Station located near Sissonville, Kanawha County, West Virginia.

Cranberry Pipelines would like to modify this permit to include a new EPA Certified emergency generator. While reviewing this permit it was found necessary to update the existing storage vessel calculations to include flashing potential as well as add a tank that had previously been overlooked. Therefore, the only new source will be the 63 hp emergency generator.

If any additional information is needed, please don't hesitate contacting me by telephone at (304) 545-8563 or by e-mail at [jhanshaw@slrconsulting.com](mailto:jhanshaw@slrconsulting.com).

Sincerely,  
SLR International Corporation

*Entire Document*  
**NON-CONFIDENTIAL**

  
Jesse Hanshaw, P.E.  
Principal Engineer

LD. No. 039-00016 Reg. 2765A  
Company CANAGREY  
Facility BONHAM Region \_\_\_\_\_  
Initials JH

April 23, 2015  
Page 2

JH:lev

Attachment: Rule 13 Permit Application  
cc Randy Spencer, Cranberry Pipeline Corporation