



**CONESTOGA-ROVERS
& ASSOCIATES**

6320 Rothway, Suite 100, Houston, Texas 77040
Telephone: (713) 734-3090 Fax: (713) 734-3391
www.CRAworld.com

June 10, 2015

Reference No. 082715

Mr. Jay Fedczak
Assistant Director for Permitting
Division of Air Quality
WV Department of Environmental Protection
601 57th Street, SE
Charleston, West Virginia 25304

Dear Mr. Jay Fedczak:

Re: General Permit Application G70-A Class I Administrative Update
Folger Well Pad
Antero Resources Corporation

Conestoga-Rovers & Associates (CRA) would like to submit this General Permit Class I Administrative Update application that we prepared on behalf of Antero Resources Corporation for an oil and gas facility identified as Folger Well Pad.

The Class I Administrative Update is requested due to the proposed change in the manufacturer of the enclosed combustor from Abutec to Cimarron. This change will not result in any changes to the nature and quantity of emissions.

In addition, we would like to request for corrections to the following typos in Section 3 - Emission Limitations of the G70-A144 permit issued on April 2, 2015.

- 1) The Longitude coordinate should be -80.956165 and not -80.856165.
- 2) Section 12 - Standards of Performance for Storage Vessel Affected Facilities in the Permit Section Applicability for the Registrant should not be checked. The storage tanks are not subject to NSPS OOOO.

A copy of the air permit is attached for your easy reference.

Enclosed are the following documents:

- Original copy of the G70-A General Permit Class I Admin Update application
- One CD copy of the G70-A General Permit Class I Administrative Update application

Equal
Employment Opportunity
Employer



**CONESTOGA-ROVERS
& ASSOCIATES**

June 10, 2015

- 2 -

Reference No. 082715

Please let us know if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Manuel Bautista

MB/ma/201

Encl.

cc: Barry Schatz, Antero Resources Corporation

APR 20 2015



west virginia department of environmental protection

Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone 304/926-0475

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

April 2, 2015

CERTIFIED MAIL
91 7199 9991 7034 1379 8006

Donald Gray
1615 Wynkoop Street
Denver, CO 80202

RE: Approved Registration G70-A144
Antero Resources Corporation
Folger Pad
Facility ID No. 095-00058

Dear Mr. Gray:

The Director has determined that the submitted Registration Application and proposed construction and operation of an oil and natural gas production facility demonstrates eligibility and compliance with the requirements, provisions, standards and conditions of General Permit G70-A and hereby grants General Permit registration authorizing the proposed activity.

General Permit G70-A can be accessed electronically at www.dep.wv.gov/daq/permitting/Pages/airgeneralpermit.aspx. Hard copies are available upon request by contacting Danielle Wentz at (304)926-0499 ext. 1193.

Please be aware of the actions required in Monitoring Requirements, Testing Requirements, Recordkeeping Requirements, and the Reporting Requirements.

Should you have any questions, please contact the undersigned engineer at (304)926-0499 ext. 1222 or Roy.F.Kees@wv.gov.

Sincerely,

Roy F. Kees, P.E.
Engineer - NSR Permitting

Enclosures: Registration G70-A144

*West Virginia Department of Environmental Protection
Division of Air Quality*

*Earl Ray Tomblin
Governor*

*Randy C. Huffman
Cabinet Secretary*

**Class II General Permit
G70-A Registration to Construct**



for the
Prevention and Control of Air Pollution in regard to the
Construction, Modification, Relocation, Administrative Update and
Operation of Oil and Natural Gas Production Facilities
Located at the Well Site

*The permittee identified at the facility listed below is authorized to
construct the stationary sources of air pollutants identified herein in accordance
with all terms and conditions of General Permit G70-A.*

G70-A144

Issued to:
Antero Resources Corporation
Folger Pad
095-00058

A handwritten signature in blue ink, appearing to read "William F. Durham", is written over a horizontal line.

*William F. Durham
Director*

Issued: April 2, 2015

Facility Location: Middlebourne, Tyler County, West Virginia
Mailing Address: 1615 Wynkoop Street, Denver, CO 80202
Facility Description: Natural Gas Production
NAICS Code: 211111
SIC Code: 1311
UTM Coordinates: 503.768 km Easting • 4,375.102 km Northing • Zone 17
Longitude Coordinates: -80.856165
Latitude Coordinates: 39.525555 
Directions to Facility: From Middlebourne, head northeast on WV-18N for 6.7 miles. Turn left onto Hickman Run and continue for 1.7 miles. The entrance to the pad will be 0.8 miles on the right.
Registration Type: Construction
Description of Change: Construction of a new Natural Gas Production Facility.

Subject to 40CFR60, Subpart OOOO? Yes

Subject to 40CFR60, Subpart JJJJ? Yes

Subject to 40CFR63, Subpart ZZZZ? Yes, JJJJ Req's

Subject to 40CFR63, Subpart HH? No

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit or registration issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.

The source is not subject to 45CSR30.

Permit Section Applicability for the Registrant

All registered facilities under General Permit G70-A are subject to Sections 1.0, 2.0, 3.0, and 4.0 of General Permit G70-A.

The following additional sections of General Permit G70-A apply to the registrant:

Section 5	Natural Gas Well Affected Facility	<input checked="" type="checkbox"/>
Section 6	Storage Vessels*	<input checked="" type="checkbox"/>
Section 7	Gas Production Units, In-Line Heaters, Heater Treaters, and Glycol Dehydration Reboilers	<input checked="" type="checkbox"/>
Section 8	Pneumatic Controllers Affected Facility (NSPS, Subpart OOOO)	<input type="checkbox"/>
Section 9	<i>Reserved</i>	<input type="checkbox"/>
Section 10	Natural Gas-Fired Compressor Engine (s) (RICE)**	<input checked="" type="checkbox"/>
Section 11	Tank Truck Loading Facility***	<input checked="" type="checkbox"/>
Section 12	Standards of Performance for Storage Vessel Affected Facilities (NSPS, Subpart OOOO) 	<input checked="" type="checkbox"/>
Section 13	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (NSPS, Subpart JJJJ)	<input checked="" type="checkbox"/>
Section 14	Control Devices not subject to NSPS, Subpart OOOO	<input checked="" type="checkbox"/>
Section 15	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40CFR63, Subpart ZZZZ)	<input checked="" type="checkbox"/>
Section 16	Glycol Dehydration Units	<input type="checkbox"/>
Section 17	Dehydration Units With Exemption from NESHAP Standard, Subpart HH § 63.764(d) (40CFR63, Subpart HH)	<input type="checkbox"/>
Section 18	Dehydration Units Subject to NESHAP Standard, Subpart HH and Not Located Within an UA/UC (40CFR63, Subpart HH)	<input type="checkbox"/>
Section 19	Dehydration Units Subject to NESHAP Standard, Subpart HH and Located Within an UA/UC (40CFR63, Subpart HH)	<input type="checkbox"/>

* The registrant may also be subject to the applicable control device requirements of Section 12 if the registrant is subject to the NSPS, Subpart OOOO control requirements or may be subject to the control device requirements of Section 14.

** The registrant may also be subject to the applicable RICE requirements of Section 13 and/or Section 15.

*** The registrant may also be subject to the applicable control device requirements of Section 14.

1.0 Emission Units Table

Emission Unit ID	Emission Point ID	Emission Unit Description (Mfg., Model, Serial No., Engine type 2SLB, 4SLB, 4SRB, etc.)	Control Device ID	Year Installed / Modified	Max. Design Capacity	Design Capacity Unit of Measure	G70-A Applicable Sections
H001	EP-H001	Heater Treater	--	TBD	1.5	mmBtu/hr	7
H002	EP-H002	Heater Treater	--	TBD	1.5	mmBtu/hr	7
H003	EP-H003	Heater Treater	--	TBD	1.5	mmBtu/hr	7
H004	EP-H004	Heater Treater	--	TBD	1.5	mmBtu/hr	7
H005	EP-H005	Heater Treater	--	TBD	1.5	mmBtu/hr	7
H006	EP-H006	Heater Treater	--	TBD	1.5	mmBtu/hr	7
H007	EP-H007	Heater Treater	--	TBD	1.5	mmBtu/hr	7
H008	EP-H008	Heater Treater	--	TBD	1.5	mmBtu/hr	7
H009	EP-H009	Heater Treater	--	TBD	1.5	mmBtu/hr	7
H010	EP-H010	Heater Treater	--	TBD	1.5	mmBtu/hr	7
TANKCOND001	FL-001	Condensate Tank	FL-001	TBD	400	Bbl	6 & 14
TANKCOND002	FL-001	Condensate Tank	FL-001	TBD	400	Bbl	6 & 14
TANKCOND003	FL-001	Condensate Tank	FL-001	TBD	400	Bbl	6 & 14
TANKCOND004	FL-001	Condensate Tank	FL-001	TBD	400	Bbl	6 & 14
TANKCOND005	FL-001	Condensate Tank	FL-001	TBD	400	Bbl	6 & 14
TANKCOND006	FL-001	Condensate Tank	FL-001	TBD	400	Bbl	6 & 14
TANKCOND007	FL-001	Condensate Tank	FL-001	TBD	400	Bbl	6 & 14
TANKCOND008	FL-001	Condensate Tank	FL-001	TBD	400	Bbl	6 & 14
TANKCOND009	FL-001	Condensate Tank	FL-001	TBD	400	Bbl	6 & 14
TANKCOND010	FL-001	Condensate Tank	FL-001	TBD	400	Bbl	6 & 14
TANKPW001	FL-001	Produced Water Tank	FL-001	TBD	400	Bbl	6 & 14
TANKPW002	FL-0001	Produced Water Tank	FL-001	TBD	400	Bbl	6 & 14
ENG001	EP-ENG001	Kubota DG972-E2	--	TBD	23.6	hp	10, 13 & 15
L001	EP-L001	Cond. Loading	N/A	TBD	7,665,000	Gal/year	11

Control Devices (If applicable)						
Control Device ID	Control Efficiency %	Control Device Description (Mfg, Model)	Year Installed / Modified	Max. Design Capacity	Design Capacity Unit of Measure	G-70A Applicable Sections
FL001	98	Abutec Model 200	TBD	90	Scfm	14
Emission Reduction Systems					Yes or No	G-70A Applicable Sections
Was a vapor recovery system (VRU) used to determine emission limits?					No	
Was a low pressure tower(s) used to determine emission limits?					No	

2.0 Oil and Natural Gas Wells Table

API number	API number	API number
(10) Wells Not Yet Permitted		

3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
H001-H010	EP-H001-H010	(10) 1.5 mmBtu/hr Heater Treaters	Nitrogen Oxides	1.20	5.27
			Carbon Monoxide	1.01	4.43
TANKCO ND1-10	FL-001	(10) 400 BBL Condensate Tanks & Flare	Volatile Organic Compounds	5.90	25.84
			Total HAPs	0.19	0.82
ENG001	EP-ENG001	Kubota DG972-E2 Compressor Engine	Nitrogen Oxides	0.32	1.38
			Carbon Monoxide	5.64	24.72
			Volatile Organic Compounds	0.01	0.03
			Formaldehyde	--	0.02
L001	EP-L001	Condensate Truck Loading	Volatile Organic Compounds	5.89	2.25
			Total HAPs	0.02	0.01

4.0 Throughput Limitations

Throughput limits are on a 12-month rolling total basis.

Emission ID	Unit	Emission Point ID	Emission Unit Description	Annual Throughput Limit
L001		EP-L001	Condensate Truck Loading	7,665,000 gal/yr

5.0 Reciprocating Internal Combustion Engines (R.I.C.E.) Information

Emission Unit ID	Engine Manufacturing Date	Subject to 40CFR60, Subpart JJJJ?	Subject to 40CFR63, Subpart ZZZZ?	Subject to Sections 10.1.4 / 10.2.1 (Catalytic Reduction Device)
ENG001	2013	Yes	Yes (JJJJ Only)	No



west virginia department of environmental protection

Division of Air Quality
601 57th Street, SE
Charleston, WV 25304

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

April 3, 2015

Donald Gray
Antero Resources Corporation
1615 Wynkoop Street
Denver, CO 80202

**RE: CERTIFICATE TO OPERATE
NEW FACILITY – 09500058**

Dear Mr. Gray:

A General Permit was obtained for the attached facility through the West Virginia Department of Environmental Protection's Division of Air Quality. In accordance with that permit and Rule 45CSR22, your company is receiving the attached Application for Certificate to Operate (CTO). Please complete and return the application prior to start-up or by the due date listed to avoid penalties.

CTOs are issued during the West Virginia state fiscal period, July 1 through June 30 of each year or for any portion of such year remaining upon initial new source start-up. In future years, an application will be mailed to you at the end of June and should be returned by July 31.

This is a CTO for initial new source start up; therefore, if this facility will be operating before June 30, 2015, please use the prorated fee schedule located on the bottom back of the CTO to determine the correct fee. If the facility will not begin operation until after June 30, 2015, then you may wait to complete and return the next CTO application for the new fiscal year (July 1, 2015 – June 30, 2016).

If you have any questions, please contact me at 304-926-0499, extension 1227, or via email at Jennifer.L.Rice@wv.gov.

Sincerely,

Jennifer Rice
Permitting

Attachment

Promoting a healthy environment.

2014 APPLICATION FOR CERTIFICATE TO OPERATE

1. COMPANY, FACILITY/SOURCE AND DAQ IDENTIFICATION NUMBER

Company Name: Antero Resources Corporation
Facility/Source: Folger Wellpad
DAQ ID No.: 09500058
Primary NAICS Code: 211111
NAICS Description:

Operating Year

July 1, 2014 - June 30, 2015

Date Due:

Prior to Operating

Facility/Source Category: 9M

Facility/Source Description:

All other sources (excluding indirect affected sources) subject to air emission rules, permit, and/or registration requirements

2. MAILING INFORMATION

Donald Gray
Antero Resources Corporation, Folger Wellpad
1615 Wynkoop Street
Denver CO 80202

3. PLEASE INDICATE ANY ADDITIONS OR CORRECTIONS TO THE ABOVE INFORMATION IN THE SPACE PROVIDED:

Amount Due: \$200.00

Make check payable to WVDEP-
Division of Air Quality and mail
to the above address.

For DAQ Office Use Only

Check #

Check Date

Check Amt.

FIMS #

FIMS Date

Amt. Correct

4. STATUS OF FACILITY:

Is this facility currently operating? YES NO If no, check the status of the facility:

Under Construction Temporary Shutdown Permanent Shutdown

Give the estimated date (month/year) of (Re)Activation: _____

5. CERTIFICATION:

Name (Print or Type)

Signature (Blue Ink)

Title

Telephone No.

Date

AUTHORITY

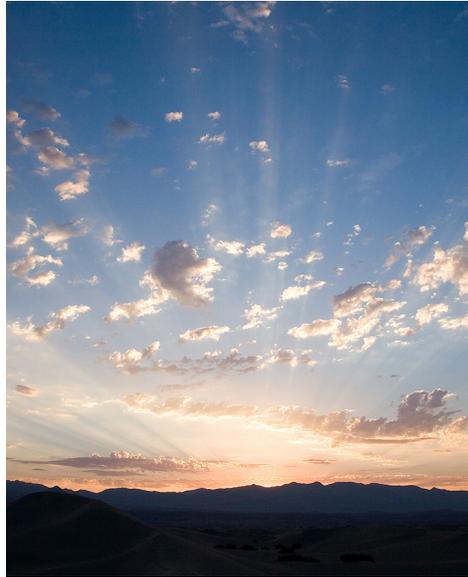
Pursuant to the authority vested in the Division of Air Quality by WV Code 22-5-4 and Rule 45CSR22, "Air Quality Management Fee Program," no person may operate nor cause to operate a facility or stationary source of air pollution without first obtaining and having in current effect a Certificate to Operate. Continuing to operate a facility or source without said certificate is unlawful and may result in penalties and further legal action.

GENERAL INFORMATION

FEE ASSESSMENTS: Assessment of fees is based on the fee schedule contained in Section 4.4 of Rule 45CSR22 (see reverse). In the event that multiple class descriptions apply to a single facility/source, only the higher of the fees is required. Fees are non-refundable.

REGISTRATION STATUS: This operating certificate application contains your current registration status. If you have changed ownership, legal entity or permanently discontinued operation of the facility/source described above, provide pertinent remarks and/or corrections in Blocks 3 or 4 and return the signed application to the above address.

FAILURE TO PAY: Failure to pay on or before the date due will result in a penalty of five percent (5%) of the fee for each month the payment is overdue. Any fee or penalty due the WVDEP-Division of Air Quality is a debt due the State of West Virginia and may be collected pursuant to law.



General Permit Application G70-A Class I Administrative Update

Change in enclosed combustor from Abutec to Cimarron brand;
Request for corrections to typos in permit issued

Folger Well Pad

Prepared for: Antero Resources Corporation

Conestoga-Rovers & Associates

6320 Rothway, Suite 100
Houston, Texas 77040



Table of Contents

G70-A General Permit Class I Administrative Update Registration Form

Attachment G Equipment Data Sheets and Registration Section Applicability Form

Attachment H Air Pollution Control Device Data Sheet

Attachment O Emissions Summary Sheet

*Note: Except for Attachment O, other attachments with no changes from previous permit application or not applicable were not included in this submittal. Attachment O was only included for reference.

The Attachment letter identifiers consistent with the G70-A application guidance and instructions were maintained for easier identification/reference.



WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 DIVISION OF AIR QUALITY
 601 57th Street, SE
 Charleston, WV 25304
 Phone: (304) 926-0475 • www.dep.wv.gov/daq

APPLICATION FOR GENERAL PERMIT REGISTRATION
 CONSTRUCT, MODIFY, RELOCATE OR ADMINISTRATIVELY UPDATE
 A STATIONARY SOURCE OF AIR POLLUTANTS

- CONSTRUCTION MODIFICATION RELOCATION CLASS I ADMINISTRATIVE UPDATE
 CLASS II ADMINISTRATIVE UPDATE

CHECK WHICH TYPE OF GENERAL PERMIT REGISTRATION YOU ARE APPLYING FOR:

- | | |
|---|---|
| <input type="checkbox"/> G10-D – Coal Preparation and Handling | <input type="checkbox"/> G40-C – Nonmetallic Minerals Processing |
| <input type="checkbox"/> G20-B – Hot Mix Asphalt | <input type="checkbox"/> G50-B – Concrete Batch |
| <input type="checkbox"/> G30-D – Natural Gas Compressor Stations | <input type="checkbox"/> G60-C – Class II Emergency Generator |
| <input type="checkbox"/> G33-A – Spark Ignition Internal Combustion Engines | <input type="checkbox"/> G65-C – Class I Emergency Generator |
| <input type="checkbox"/> G35-A – Natural Gas Compressor Stations (Flare/Glycol Dehydration Unit) | <input checked="" type="checkbox"/> G70-A – Class II Oil and Natural Gas Production Facility |

SECTION I. GENERAL INFORMATION

1. Name of applicant (as registered with the WV Secretary of State's Office): Antero Resources Corporation		2. Federal Employer ID No. (FEIN): 80-0162034	
3. Applicant's mailing address: 1615 Wynkoop St. _____ Denver, CO, 80202 _____		4. Applicant's physical address: <u>1.5 miles southwest from the intersection of Tyler Hwy 18 and Hickman Run 18/3.</u>	
5. If applicant is a subsidiary corporation, please provide the name of parent corporation:			
6. WV BUSINESS REGISTRATION. Is the applicant a resident of the State of West Virginia? <input type="checkbox"/> YES <input checked="" 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 LLC / Registration (one page) including any name change amendments or other Business Certificate as Attachment A .			

SECTION II. FACILITY INFORMATION

7. Type of plant or facility (stationary source) to be constructed, modified, relocated or administratively updated (e.g., coal preparation plant, primary crusher, etc.): Natural Gas and Oil Production facility	8a. Standard Industrial Classification (SIC) code: 1311 AND 8b. North American Industry System (NAICS) code: 211111
9. DAQ Plant ID No. (for existing facilities only): <u>095-00058</u>	10. List all current 45CSR13 and other General Permit numbers associated with this process (for existing facilities only): <u>G70-A144</u>

A: PRIMARY OPERATING SITE INFORMATION

11A. Facility name of primary operating site: _____ Folger Well Pad	12A. Address of primary operating site: Mailing: _____ N/A _____ Physical: <u>1.5 miles southwest from the intersection of Tyler Hwy 18 and Hickman Run 18/3.</u>	
13A. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO – IF YES , please explain: _____ _____ – IF NO , YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.		
14A. – For Modifications or Administrative Updates at an existing facility, please provide directions to the present location of the facility from the nearest state road; – For Construction or Relocation permits, please provide directions to the proposed new site location from the nearest state road. Include a MAP as Attachment F . from Middlebourne, WV, head northeast on WV-18 N for 6.7 miles. Turn left onto Hickman Run and continue for 1.7 miles. The entrance to the site will be on the right		
15A. Nearest city or town: Middlebourne	16A. County: Tyler	17A. UTM Coordinates: Northing (KM): 4375.1015 Easting (KM): 503.7675 Zone: 17 N
18A. Briefly describe the proposed new operation or change (s) to the facility: Change of enclosed combustor from Abutech to Cimarron.		19A. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: 39.525555 Longitude: -80.956165

B: 1ST ALTERNATE OPERATING SITE INFORMATION (only available for G20, G40, & G50 General Permits)

11B. Name of 1 st alternate operating site: _____ _____	12B. Address of 1 st alternate operating site: Mailing: _____ Physical: _____	
13B. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? <input type="checkbox"/> YES <input type="checkbox"/> NO – IF YES , please explain: _____ _____ – IF NO , YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.		
14B. – For Modifications or Administrative Updates at an existing facility, please provide directions to the present location of the facility from the nearest state road; – For Construction or Relocation permits, please provide directions to the proposed new site location from the nearest state road. Include a MAP as Attachment F . _____ _____ _____		

15B. Nearest city or town:	16B. County:	17B. UTM Coordinates: Northing (KM): _____ Easting (KM): _____ Zone: _____
18B. Briefly describe the proposed new operation or change (s) to the facility:		19B. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: _____ Longitude: _____

C: 2ND ALTERNATE OPERATING SITE INFORMATION (only available for G20, G40, & G50 General Permits):

11C. Name of 2 nd alternate operating site: _____	12C. Address of 2 nd alternate operating site: Mailing: _____ Physical: _____
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13C. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? YES NO

– IF YES, please explain: _____

– IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.

14C. – For **Modifications or Administrative Updates** at an existing facility, please provide directions to the present location of the facility from the nearest state road;

– For Construction or Relocation permits, please provide directions to the proposed new site location from the nearest state road. Include a **MAP as Attachment F.**

15C. Nearest city or town:	16C. County:	17C. UTM Coordinates: Northing (KM): _____ Easting (KM): _____ Zone: _____
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18C. Briefly describe the proposed new operation or change (s) to the facility:	19C. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: _____ Longitude: _____
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20. Provide the date of anticipated installation or change: <u>Upon Issuance of the permit.</u> <input type="checkbox"/> If this is an After-The-Fact permit application, provide the date upon which the proposed change did happen: : ____ / ____ / ____	21. Date of anticipated Start-up if registration is granted: <u>Upon Issuance of the permit.</u>
--	---

22. Provide maximum projected **Operating Schedule** of activity/activities outlined in this application if other than 8760 hours/year. (Note: anything other than 24/7/52 may result in a restriction to the facility's operation).

Hours per day _____ Days per week _____ Weeks per year _____ Percentage of operation _____

SECTION III. ATTACHMENTS AND SUPPORTING DOCUMENTS

23. Include a check payable to WVDEP – Division of Air Quality with the appropriate **application fee** (per 45CSR22 and 45CSR13).

24. Include a **Table of Contents** as the first page of your application package.

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

25. Please check all attachments included with this permit application. Please refer to the appropriate reference document for an explanation of the attachments listed below.

- ATTACHMENT A : CURRENT BUSINESS CERTIFICATE
- ATTACHMENT B: PROCESS DESCRIPTION
- ATTACHMENT C: DESCRIPTION OF FUGITIVE EMISSIONS
- ATTACHMENT D: PROCESS FLOW DIAGRAM
- ATTACHMENT E: PLOT PLAN
- ATTACHMENT F: AREA MAP
- ATTACHMENT G: EQUIPMENT DATA SHEETS AND REGISTRATION SECTION APPLICABILITY FORM
- ATTACHMENT H: AIR POLLUTION CONTROL DEVICE SHEETS
- ATTACHMENT I: EMISSIONS CALCULATIONS
- ATTACHMENT J: CLASS I LEGAL ADVERTISEMENT
- ATTACHMENT K: ELECTRONIC SUBMITTAL
- ATTACHMENT L: GENERAL PERMIT REGISTRATION APPLICATION FEE
- ATTACHMENT M: SITING CRITERIA WAIVER
- ATTACHMENT N: MATERIAL SAFETY DATA SHEETS (MSDS)
- ATTACHMENT O: EMISSIONS SUMMARY SHEETS
- OTHER SUPPORTING DOCUMENTATION NOT DESCRIBED ABOVE (Equipment Drawings, Aggregation Discussion, etc.)

Please mail an original and two copies of the complete General Permit Registration Application with the signature(s) to the DAQ Permitting Section, at the address shown on the front page of this application. Please DO NOT fax permit applications. For questions regarding applications or West Virginia Air Pollution Rules and Regulations, please refer to the website shown on the front page of the application or call the phone number also provided on the front page of the application.

SECTION IV. CERTIFICATION OF INFORMATION

This General Permit Registration Application shall be signed below by a Responsible Official. A Responsible Official is a President, Vice President, Secretary, Treasurer, General Partner, General Manager, a member of a Board of Directors, or Owner, depending on business structure. A business may certify an Authorized Representative who shall have authority to bind the Corporation, Partnership, Limited Liability Company, Association, Joint Venture or Sole Proprietorship. Required records of daily throughput, hours of operation and maintenance, general correspondence, Emission Inventory, Certified Emission Statement, compliance certifications and all required notifications must be signed by a Responsible Official or an Authorized Representative. If a business wishes to certify an Authorized Representative, the official agreement below shall be checked off and the appropriate names and signatures entered. Any administratively incomplete or improperly signed or unsigned Registration Application will be returned to the applicant.

FOR A CORPORATION (domestic or foreign)

I certify that I am a President, Vice President, Secretary, Treasurer or in charge of a principal business function of the corporation

FOR A PARTNERSHIP

I certify that I am a General Partner

FOR A LIMITED LIABILITY COMPANY

I certify that I am a General Partner or General Manager

FOR AN ASSOCIATION

I certify that I am the President or a member of the Board of Directors

FOR A JOINT VENTURE

I certify that I am the President, General Partner or General Manager

FOR A SOLE PROPRIETORSHIP

I certify that I am the Owner and Proprietor

I hereby certify that (please print or type) _____ is an Authorized Representative and in that capacity shall represent the interest of the business (e.g., Corporation, Partnership, Limited Liability Company, Association Joint Venture or Sole Proprietorship) and may obligate and legally bind the business. If the business changes its Authorized Representative, a Responsible Official shall notify the Director of the Office of Air Quality immediately, and/or,

I hereby certify that all information contained in this General Permit Registration Application and any supporting documents appended hereto is, to the best of my knowledge, true, accurate and complete, and that all reasonable efforts have been made to provide the most comprehensive information possible

Signature _____
(please use blue ink) Responsible Official Date

Name & Title Barry Schatz, Senior Environmental & Regulatory Manager
(please print or type)

Signature Barry Schatz 6-10-2015
(please use blue ink) Authorized Representative (if applicable) Date

Applicant's Name Antero Resources Corporation

Phone & Fax 303-357-7276 303-357-7315
Phone Fax

Email bschatz@anteroresources.com

**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: January 23, 2015

ATTN.: Director

Corporation's / other business entity's Federal Employer I.D. Number 80-0162034

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) Barry Schatz (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.



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

Name of Corporation or business entity

Attachment G

Emission Unit Data Sheets/G70-A Section Applicability Form

General Permit G70-A Registration Section Applicability Form

General Permit G70-A was developed to allow qualified applicants to seek registration for a variety of sources. These sources include natural gas well affected facilities, storage tanks, natural gas-fired compressor engines (RICE), natural gas producing units, natural gas-fired in-line heaters, pneumatic controllers, heater treaters, tank truck loading, glycol dehydration units, completion combustion devices, flares, enclosed combustion devices, and vapor recovery systems. All registered facilities will be subject to Sections 1.0, 2.0, 3.0, and 4.0.

General Permit G70-A allows the registrant to choose which sections of the permit they are seeking registration under. Therefore, please mark which additional sections that you are applying for registration under. If the applicant is seeking registration under multiple sections, please select all that apply. Please keep in mind, that if this registration is approved, the issued registration will state which sections will apply to your affected facility.

Section 5	Natural Gas Well Affected Facility	<input checked="" type="checkbox"/>
Section 6	Storage Vessels*	<input checked="" type="checkbox"/>
Section 7	Gas Producing Units, In-Line Heaters, Heater Treaters, and Glycol Dehydration Reboilers	<input checked="" type="checkbox"/>
Section 8	Pneumatic Controllers Affected Facility (NSPS, Subpart OOOO)	<input type="checkbox"/>
Section 9	<i>Reserved</i>	<input type="checkbox"/>
Section 10	Natural gas-fired Compressor Engine(s) (RICE) **	<input checked="" type="checkbox"/>
Section 11	Tank Truck Loading Facility ***	<input checked="" type="checkbox"/>
Section 12	Standards of Performance for Storage Vessel Affected Facilities (NSPS, Subpart OOOO)	<input type="checkbox"/>
Section 13	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (NSPS, Subpart JJJJ)	<input checked="" type="checkbox"/>
Section 14	Control Devices not subject to NSPS, Subpart OOOO	<input checked="" type="checkbox"/>
Section 15	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40CFR63, Subpart ZZZZ)	<input checked="" type="checkbox"/>
Section 16	Glycol Dehydration Units	<input type="checkbox"/>
Section 17	Dehydration Units With Exemption from NESHAP Standard, Subpart HH § 63.764(d) (40CFR63, Subpart HH)	<input type="checkbox"/>
Section 18	Dehydration Units Subject to NESHAP Standard, Subpart HH and Not Located Within an UA/UC (40CFR63, Subpart HH)	<input type="checkbox"/>
Section 19	Dehydration Units Subject to NESHAP Standard, Subpart HH and Located Within an UA/UC (40CFR63, Subpart HH)	<input type="checkbox"/>

* Applicants that are subject to Section 6 may also be subject to Section 12 if the applicant is subject to the NSPS, Subpart OOOO control requirements or the applicable control device requirements of Section 14.

** Applicants that are subject to Section 10 may also be subject to the applicable RICE requirements of Section 13 and/or Section 15.

*** Applicants that are subject to Section 11 may also be subject to control device requirements of Section 14.

Attachment G: Natural Gas Fired Fuel Burning Units

Emission Data Sheet

Complete the information on this data for each Gas Producing Unit(s), Heater Treater(s), and in-line heater(s) at the production pad. Reboiler information should be entered on the Glycol Dehydration Emission Unit Data Sheet.

Emission Unit ID # ¹	Emission Point ID# ²	Emission Unit Description (Manufacturer / Model #)	Year Installed/ Modified	Type ³ and Date of Change	Control Device ⁴	Design Heat Input (mmBtu/hr) ⁵	Fuel Heating Value (Btu/scf) ⁶
H001	EP-H001	Gas Production Unit Heater	2016	New	--	1.50	1,247.06
H002	EP-H002	Gas Production Unit Heater	2016	New	--	1.50	1,247.06
H003	EP-H003	Gas Production Unit Heater	2016	New	--	1.50	1,247.06
H004	EP-H004	Gas Production Unit Heater	2016	New	--	1.50	1,247.06
H005	EP-H005	Gas Production Unit Heater	2016	New	--	1.50	1,247.06
H006	EP-H006	Gas Production Unit Heater	2016	New	--	1.50	1,247.06
H007	EP-H007	Gas Production Unit Heater	2016	New	--	1.50	1,247.06
H008	EP-H008	Gas Production Unit Heater	2016	New	--	1.50	1,247.06
H009	EP-H009	Gas Production Unit Heater	2016	New	--	1.50	1,247.06
H010	EP-H010	Gas Production Unit Heater	2016	New	--	1.50	1,247.06
ENG001	EP-ENG001	Engine (Kubota DG972-E2)	2016	New	--	--	1,247.06
FL001	FL001	Flare (Abutec-200)	2016	Removal	FL001	18.4	1,247.06
EC001	EP-EC001	Enclosed Combustor (Cimmaron 48", Model No. 700-TI-603-D-31C)	2016	New	EC001	6.6	1,247.06

¹ Enter the appropriate Emission Unit (or Sources) identification numbers for each fuel burning unit located at the production pad. Gas Producing Unit Burners should be designated GPU-1, GPU-2, etc. Heater Treaters should be designated HT-1, HT-2, etc. Heaters or Line Heaters should be designated LH-1, LH-2, etc. For sources, use 1S, 2S, 3S...or other appropriate designation. Enter glycol dehydration unit Reboiler Vent data on the Glycol Dehydration Unit Data Sheet.

² Enter the appropriate Emission Point identification numbers for each fuel burning unit located at the production pad. Gas Producing Unit Burners should be designated GPU-1, GPU-2, etc. Heater Treaters should be designated HT-1, HT-2, etc. Heaters or Line Heaters should be designated LH-1, LH-2, etc. For emission points, use 1E, 2E, 3E...or other appropriate designation.

³ New, modification, removal.

⁴ Complete appropriate air pollution control device sheet for any control device.

⁵ Enter design heat input capacity in mmBtu/hr.

⁶ Enter the fuel heating value in Btu/standard cubic foot.

Attachment H

Air Pollution Control Device Data Sheet

Attachment H: Air Pollution Control Device Vapor Combustion Control Device Sheet

Complete this vapor combustion control device sheet for each enclosed combustion device, flare, thermal oxidizer, or completion combustion device that is located at the natural gas production pad for the purpose of thermally destructing waste gas to control emissions of regulated pollutants to the atmosphere.

IMPORTANT: READ THE INSTRUCTIONS ACCOMPANYING THIS FORM BEFORE COMPLETING.				
General Information				
1. Control Device ID#: EC001		2. Installation Date: New		
3. Maximum Rated Total Flow Capacity: 131,000 scfd		4. Maximum Design Heat Input: 6.6 MMBtu/hr		5. Design Heat Content: 2300BTU/scf
Control Device Information				
6. Select the type of vapor combustion control device being used: Elevated Flare				
7. Manufacturer: Model No. Cimmaron, Model No. 48" HV ECD			8. Hours of operation per year: 8760	
9. List the emission units whose emissions are controlled by this vapor combustion control device: (Emission Point ID#):				
10. Emission Unit ID#	Emission Source Description:		Emission Unit ID#	Emission Source Description:
TANKCOND001-010	Condensate Tank			
TANKPW001-002	PW Tanks			
<i>If this vapor combustor controls emissions from more than six emission units, please attach additional pages.</i>				
11. Assist Type		12. Flare Height (ft)	13. Tip Diameter (ft)	14. Was the design per §60.18?
Steam - Air - Pressure - <input checked="" type="checkbox"/> Non -		25	3.33	Yes
Waste Gas Information				
15. Maximum waste gas flow rate (scfm):		16. Heat value of waste gas stream (BTU/ft ³)	17. Temperature of the emissions stream (°F)	18. Exit Velocity of the emissions stream (ft/s)
83.72		1,798.82	900	1.60E-01
19. Provide an attachment with the characteristics of the waste gas stream to be burned.				
Pilot Information				
20. Type/Grade of pilot fuel:	21. Number of pilot lights:	22. Fuel flow rate to pilot flame per pilot (scf/hr):	23. Heat input per pilot (BTU/hr):	24. Will automatic re-ignition be used?
Natural Gas	1	12.6	12800	Yes
25. If automatic re-ignition will be used, describe the method: Based on a monitoring system				
26. Describe the method of controlling flame: Flame Rectification, a thermocouple equivalent				
27. Is pilot flame equipped with a monitor to detect the presence of the flame? Yes		28. If yes, what type? Thermocouple		
29. Pollutant(s) Controlled		30. % Capture Efficiency		31. Manufacturer's Guaranteed Control Efficiency (%)
F/W/B Emissions from TANKCOND		98		98
F/W/B Emissions from TANKPW		98		98

Attachment H: Air Pollution Control Device Vapor Combustion Control Device Sheet

Complete this vapor combustion control device sheet for each enclosed combustion device, flare, thermal oxidizer, or completion combustion device that is located at the natural gas production pad for the purpose of thermally destructing waste gas to control emissions of regulated pollutants to the atmosphere.

32. Has the control device been tested by the manufacturer and certified? Yes, see spec sheet.

33. Describe all operating ranges and maintenance procedures required by the manufacturer to maintain warranty: See spec sheet for operating ranges.

MONITORING

- 1) Report any period when visible emissions exceeded 5 minutes during any two-hour period.
- 2) Monitor the presence of pilot flame at all times with the Flame rectification system, a thermocouple equivalent.
- 3) Monitor visible emissions from the vapor combustor.
- 4) Monitor throughput to the vapor combustor.

RECORDKEEPING

- 1) Record the times and duration of periods when the pilot flame was not present.
- 2) Records of throughput to the vapor combustor.
- 3) Records of vapor combustor malfunction or shutdown which resulted in excess emissions.
- 4) Records of vapor combustor inspection and maintenance activities conducted.

REPORTING

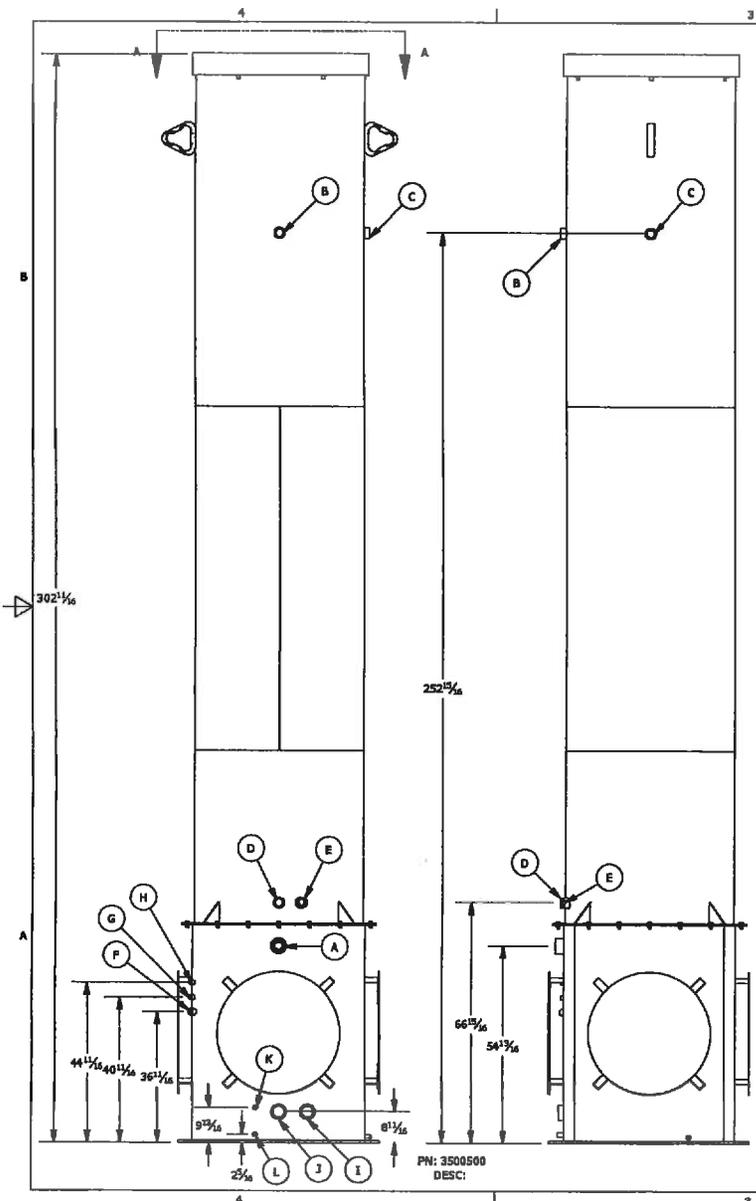
- 1) Report any period when visible emissions exceeded 5 minutes during any two-hour period.

34. Additional Information Attached? **YES**

Please attach a copy of manufacturer's data sheet. Please attach a copy of manufacturer's drawing.

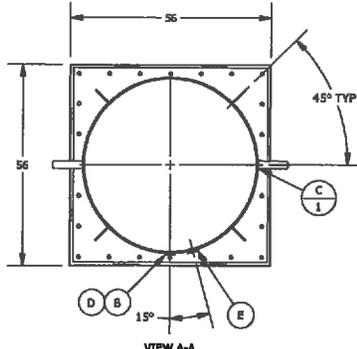
Please attach a copy of the manufacturer's performance testing.

If any of the requested information is not available, please contact the manufacturer.



**48" DIA x 302 5/8" HEIGHT, 88 ORIFICES
EMISSION CONTROL DEVICE**

- * >98% TVOC DRE, CERTIFIED USEPA 40 CFR 60, APPENDIX A, SOURCE EMISSIONS TEST METHODS REFERENCED. MEETS ALL EPA & CDPHE REGULATIONS.
- * DESTROYS OIL/CONDENSATE PRODUCTION TANK VAPORS W/ NO VISIBLE FLAME.
- * EXCELLENT OPACITY AND SMOKELESS OPERATION.
- * RELIABLE AND CUSTOMIZABLE IGNITION.
- * VERY LOW CAPITAL AND OPERATING COST.
- * EASY TO OPERATE AND MAINTAIN.
- * FIELD TESTED TO DESTROY UP TO 119.5 MDSCFD (131 MCFD) @ 10 oz/in²; 2300 BTU/CF WASTE GAS (SG 1.45)
- * STRUCTURE CERTIFIED FOR 90 MPH 3-SEC WIND GUST PER ASCE 7-05 & IBC 2006 STANDARDS. HIGHER WIND LOAD RATED STRUCTURES AVAILABLE.



PN: 3500500
DESC:

SCHEDULE OF NOZZLES			
MARK	QTY	DESCRIPTION	SERVICE
A	1	3" HALF COUPLING	2000# BURNER WASTE GAS IN
B	1	2" FULL COUPLING	3000# FLOW TEST/AUTOMATION
C	1	2" FULL COUPLING	3000# FLOW TEST/AUTOMATION
D	1	2" FULL COUPLING	3000# SIGHT GLASS
E	1	2" FULL COUPLING	3000# MANUAL LIGHTING
F	1	1" FULL COUPLING	3000# PILOT GAS IN
G	1	1/2" FULL COUPLING	3000# IGNITOR CABLE
H	1	1/2" FULL COUPLING	3000# AUTOMATION
I	1	3" HALF COUPLING	3000# DRIP TANK WASTE GAS IN
J	1	3" HALF COUPLING	3000# DRIP TANK WASTE GAS OUT
K	1	1/2" FULL COUPLING	3000# AUTOMATION
L	1	1/2" FULL COUPLING	3000# LIQUID DRAIN

- UNLESS OTHERWISE SPECIFIED
1. REMOVE ALL BURRS AND SHARP CORNERS.
 2. COR. RAD .03
 3. DO NOT SCALE DRAWING.
 4. ALL DIMENSIONS ARE IN INCHES.
 5. MACHINE FIN.
 6. FABRICATION AND SHARP CORNERS.
 - .X = ± 0.25
 - .XX = ± 0.125
 - .XXX = ± 0.06
 - ANGLES ± 3°
 7. MACHINE
 - .X = ± 0.030
 - .XX = ± 0.015
 - .XXX = ± 0.005
 - ANGLES ± 1/2°
 - CONTRICTY WITHIN 0.010 TIR

APPROVED FOR A.S.M.E CODE, SECTION VIII DIV 1
ED, ADDENDA BY, DATE

CIMARRON
Energy Inc.

TITLE:
48" HIGH VOLLUME BCD

DATE: _____ WO No.: _____ SHEET: 1 OF 1

DRAWN BY: TDS | REV. | DRAW NO.: 3500500

Attachment O

Emissions Summary Sheet

Attachment O: G70-A Emissions Summary Sheet

Emission Points Data Summary Sheet

Table 1: Emissions Data												
Emission Point ID No. <i>(Must match Emission Units Table & Plot Plan)</i>	Emission Point Type ¹	Emission Unit Vented Through This Point <i>(Must match Emission Units Table & Plot Plan)</i>		Air Pollution Control Device <i>(Must match Emission Units Table & Plot Plan)</i>		All Regulated Pollutants - Chemical Name/CAS ³ <i>(Speciate VOCs & HAPS)</i>	Maximum Potential Uncontrolled Emissions ⁴		Maximum Potential Controlled Emissions ⁵		Emission Form or Phase <i>(At exit conditions, Solid, Liquid or Gas/Vapor)</i>	Est. Method Used ⁶
		ID No.	Source	ID No.	Device Type		lb/hr	ton/yr	lb/hr	ton/yr		
EP-H001, EP-H002, EP-H003, EP-H004, EP-H005, EP-H006, EP-H007, EP-H008, EP-H009, EP-H010	Vertical Stack	H001, H002, H003, H004, H005, H006, H007, H008, H009, H010	Gas Production Unit Heater	N/A		CO (630080)	1.0104	4.4254	1.0104	4.4254	Gas/Vapor /Solid (for PM)	MB AP-42
						NOx (10102439)	1.2028	5.2684	1.2028	5.2684		
						Pb (7439-92-1)	6.01E-06	2.63E-05	6.01E-06	2.63E-05		
						CO2 Equivalent N2O (10024972), CO2 (124389), CH4 (74828)	1451.9722	6359.6384	1451.9722	6359.6384		
						SO2 (7446095)	7.22E-03	0.0316	7.22E-03	0.0316		
						PM, PM10, PM2.5	0.0914	0.4004	0.0914	0.4004		
						Benzene (71432)	2.53E-05	1.11E-04	2.53E-05	1.11E-04		
						Toluene (108883)	4.09E-05	1.79E-04	4.09E-05	1.79E-04		
						Hexane (110543)	0.0217	0.0948	0.0217	0.0948		
						Formaldehyde (50000)	9.02E-04	3.95E-03	9.02E-04	3.95E-03		
						2-Methylnaphthalene (91576)	2.89E-07	1.26E-06	2.89E-07	1.26E-06		
						Dichlorobenzene (95501)	1.44E-05	6.32E-05	1.44E-05	6.32E-05		
						Fluoranthene (206440)	3.61E-08	1.58E-07	3.61E-08	1.58E-07		
						Fluorene (86737)	3.37E-08	1.48E-07	3.37E-08	1.48E-07		
						Naphthalene (91203)	7.34E-06	3.21E-05	7.34E-06	3.21E-05		
						Phenanthrene (85018)	2.04E-07	8.96E-07	2.04E-07	8.96E-07		
Total VOCs	0.0662	0.2898	0.0662	0.2898								
F001	n/a	F001	Fugitives	N/A		Benzene (71432)	2.35E-03	0.0103	2.35E-03	0.0103	Gas/Vapor	MB
						Toluene (108883)	0.0180	0.0788	0.0180	0.0788		
						Ethyl benzene (100414)	0.0316	0.1384	0.0316	0.1384		
						Hexane (110543)	0.1996	0.8741	0.1996	0.8741		
						o,m,p-xylenes (95476,108383,106423)	0.0733	0.3209	0.0733	0.3209		
						CO2 Equivalent CO2 (124389), CH4	80.9358	354.4988	80.9358	354.4988		
						VOCs	3.7870	16.5870	3.7870	16.5870		
						TAPs (benzene)	2.35E-03	0.0103	2.35E-03	1.03E-02		
EP-L001, EP-L002	n/a	L001, L002	Loading (Condensate), Loading (Water)	N/A		VOCs	5.8898	2.2446	5.8898	2.2446	Gas/Vapor	MB
						toluene (108883)	1.14E-03	4.39E-04	1.14E-03	4.39E-04		
						ethyl benzene (100414)	1.27E-03	4.84E-04	1.27E-03	4.84E-04		
						hexane (110543)	1.03E-02	3.93E-03	1.03E-02	3.93E-03		
						o,m,p-xylenes (95476,108383,106423)	2.68E-03	1.02E-03	2.68E-03	1.02E-03		
						CO2 Equivalent CO2 (124389), CH4	8.2963	7.2966	8.2963	7.2966		
						benzene (71432)	2.40E-04	9.52E-05	2.40E-04	9.52E-05		
TAPs (benzene)	2.40E-04	9.52E-05	2.40E-04	9.52E-05								
EP-HR001	n/a	HR001	Haul Truck	N/A		PM, PM10, PM2.5	2.3768	6.8246	1.1884	3.4123	Solid	MB

Attachment O: G70-A Emissions Summary Sheet

Emission Points Data Summary Sheet

Table 1: Emissions Data												
Emission Point ID No. <i>(Must match Emission Units Table & Plot Plan)</i>	Emission Point Type ¹	Emission Unit Vented Through This Point <i>(Must match Emission Units Table & Plot Plan)</i>		Air Pollution Control Device <i>(Must match Emission Units Table & Plot Plan)</i>		All Regulated Pollutants - Chemical Name/CAS ³ <i>(Speciate VOCs & HAPS)</i>	Maximum Potential Uncontrolled Emissions ⁴		Maximum Potential Controlled Emissions ⁵		Emission Form or Phase <i>(At exit conditions, Solid, Liquid or Gas/Vapor)</i>	Est. Method Used ⁶
		ID No.	Source	ID No.	Device Type		lb/hr	ton/yr	lb/hr	ton/yr		
EP-EC001	n/a	TANKCOND001-010, TANKPW001-002, and EC001	Condensate Tanks, PW Tanks, and Enclosed Combustor	N/A	Enclosed Combustor	CO (630080)	0.00E+00	0.00E+00	0.4230	1.8529	Gas/Vapor/Solid (for PM)	MB
						NOx (10102439)	0.00E+00	0.00E+00	0.5036	2.2058		
						Pb (7439-92-1)	0.00E+00	0.00E+00	2.52E-06	1.10E-05		
						CO2 Equivalent N2O (10024972), CO2 (124389), CH4	2042.9285	8948.0269	1597.6243	6997.5944		
						SO2 (7446095)	0.00E+00	0.00E+00	7.56E-06	3.31E-05		
						PM, PM10, PM2.5	0.00E+00	0.00E+00	0.0383	0.1676		
						Benzene (71432)	0.2313	1.0131	4.63E-03	0.0203		
						Toluene (108883)	0.5201	2.2781	0.0104	0.0456		
						ethyl benzene (100414)	0.3062	1.3412	6.12E-03	0.0268		
						hexane (110543)	7.7642	34.0070	0.1553	0.6801		
						o,m,p-xylenes (95476,108383,106423)	0.5511	2.4140	0.0110	0.0483		
						Formaldehyde (50000)	0.00E+00	0.00E+00	9.45E-07	4.14E-06		
VOCs	294.9766	1291.9975	5.8996	25.8403								
EP-PCV	valve	PCV	Pneumatic CV	N/A		hexane (110543)	0.0136	0.0596	0.0136	0.0596	Gas/Vapor	MB
						CO2 Equivalent CO2 (124389), CH4	9.0327	39.5633	9.0327	39.5633		
						VOCs	0.1145	0.5015	0.1145	0.5015		
EP-ENG001	Vertical Stack	ENG001	Compressor Engine	N/A		CO (630080)	5.6445	24.7228	5.6445	24.7228	Gas/Vapor/Solid (for PM)	MB
						NOx (10102439)	0.3158	1.3831	0.3158	1.3831		
						CO2 Equivalent N2O (10024972), CO2 (124389), CH4 (74828)	27.7765	121.6612	27.7765	121.6612		
						SO2 (7446095)	1.41E-04	6.18E-04	1.41E-04	6.18E-04		
						PM, PM10, PM2.5	2.28E-03	9.99E-03	2.28E-03	9.99E-03		
						TAPs Benzene (71432)	3.79E-04	1.66E-03	3.79E-04	1.66E-03		
						Toluene (108883)	0.0001	0.0006	0.0001	0.0006		
						TAPs Formaldehyde (50000)	4.92E-03	2.15E-02	4.92E-03	2.15E-02		
						Ethyl Benzene (100414)	5.95E-06	2.61E-05	5.95E-06	2.61E-05		
						Naphthalene (91203)	2.33E-05	1.02E-04	2.33E-05	1.02E-04		
						o,m,p-xylenes (95476,108383,106423)	4.68E-05	2.05E-04	4.68E-05	2.05E-04		
						Total VOCs	7.10E-03	3.11E-02	7.10E-03	3.11E-02		