

Environmental Compression Services, Inc.

WWW.ENVIRCOMP.COM

33 Spruce Lane

Burgettstown, PA 15021-2728

(724) 272-5734 – Mobile

(724) 899-3103 – Office / Residence

bmonroe@atc-pa.com

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Environmental Laboratory Registration# 63-03526

ID # 081-00227

Reg G30-D148A

Company ARP Mountaineer Production

Facility SD-11 Initials *W*

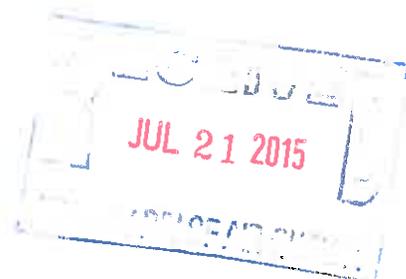
Compressor
site

July 13, 2015

West Virginia – Department of Environmental Protection
Division of Air Quality
601 57th Street, SE
Charleston, WV25304

Attention: Bev McKeone – NSR Manager

Reference: General Permit Application Class II Modification
SD-11 Compressor Site
Plant ID 081-00227
G30-D148



Dear Beverly McKeone,

Environmental Compression Services, Inc. would like to submit this General Permit G30-D application on behalf of ARP Mountaineer Production, LLC for a Natural Gas Compressor Facility identified as SD-11 in Raleigh County, WV near the town of Harper.

The General Permit Registration Class II Modification is requested for the proposed installation (Change out/Swap) of a smaller compressor to: (145 BHP Caterpillar Model G3306NALCR) to replace the existing permitted (400 BHP Waukesha Model F-18L) engine. Emission calculations for the summary of changes of regulated air pollutants are contained within.

Enclosed are the following:

- Three signed copies of the G30-D General Permit Registration Class II Modification
- The Application Fee in the amount of \$500.00

If you have any questions or concerns, please contact me at any of this phone numbers listed above.

Sincerely,

William M. Monroe
President

Enclosures

Entire Document
NON-CONFIDENTIAL



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 checked="" 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 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):
ARP Mountaineer Production, LLC | 2. Federal Employer ID No. (FEIN):
80-0959365 |
|---|---|

- | | |
|--|---|
| 3. Applicant's mailing address:
1000 Commerce Drive , Suite 410
Pittsburgh, PA 15275 | 4. Applicant's physical address:
1000 Commerce Drive , Suite 410
Pittsburgh, PA 15275 |
|--|---|

5. If applicant is a subsidiary corporation, please provide the name of parent corporation: **Atlas Resource Partners, L.P.**

6. **WV BUSINESS REGISTRATION.** Is the applicant a resident of the State of West Virginia? YES 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 Compressor Facility - Modification | 8a. Standard Industrial Classification
Classification (SIC) code: 1311 | AND | 8b. North American Industry System (NAICS) code: 211111 |
|---|--|-----|--|

- | | |
|---|---|
| 9. DAQ Plant ID No. (for existing facilities only):
081-00227 | 10. List all current 45CSR13 and other General Permit numbers associated with this process (for existing facilities only):
G30-D148 |
|---|---|

A: PRIMARY OPERATING SITE INFORMATION

11A. Facility name of primary operating site: <u>SD-11 Compressor Site</u>	12A. Address of primary operating site: Mailing: <u>NA</u> Physical: <u>State Route 2 / Lower Sandlick Road – See Map</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: <u>ARP is leasing the mineral rights for this site</u> _____ – 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 . I – 64E out of Charleston towards Beckley, exit SR 3 to Glen Daniels, right onto CH 3 for 2.7 miles, right onto Mattsville Road, right onto Lower Sandlick, 1 mile to compressor site on right.		
15A. Nearest city or town: Harper	16A. County: Raleigh	17A. UTM Coordinates: Northing (KM): <u>4186.72</u> Easting (KM): <u>472.61</u> Zone: <u>17N</u>
18A. Briefly describe the proposed new operation or change (s) to the facility: Downsizing (< BHP) engine compressor package		19A. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: <u>37.8275</u> Longitude: <u>81.31118</u>

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: _____
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: _____

20. Provide the date of anticipated installation or change: Upon G30-D Modification Approval <input type="checkbox"/> If this is an After-The-Fact permit application, provide the date upon which the proposed change did happen: : NA	21. Date of anticipated Start-up if registration is granted: TBD
--	---

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 24 Days per week 7 Weeks per year 52 Percentage of operation 100%

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.

ARP Mountaineer Production, LLC.
1000 Commerce Drive, Suite 410
Pittsburgh, PA 15275

Phone: (412) 489-0311
Fax: (412) 262-7430
E-mail: cSuszowski@atlasenergy.com

GENERAL PERMIT REGISTRATION APPLICATION G30-D

Class II Modification / Downsizing Engine/Compressor

SD-11 Compressor 081-00227/ G30-D148

*Submitted To: West Virginia Department of Environmental Protection
Office of Air Quality
601 57th Street, SE
Charleston, WV 25304*

<i>General Permit Application Fee – Class II Modification</i>	<i>\$ 500.00</i>
<i>NSPS Fee</i>	<i>\$1,000.00</i>
<i>NESHAP Fee</i>	<i>\$2,500.00 - NA</i>
<i>Total</i>	<i>\$ 500.00</i>

Total Enclosed \$500.00 payable to: "WVDEP – Division of Air Quality"

Prepared by: Environmental Compression Services, Inc.

**33 Spruce Lane
Burgettstown, PA 15021-2728
(724) 272-5734 – Mobile
(724) 899-3103 – Office / Residence
bmonroe@atc-pa.com
WWW.ENVIRCOMP.COM
Environmental Laboratory Registration# 63-03526
www.envircomp.com**

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Attachment H	Air Pollution Control Device Data Sheet - NA
Attachment I	Emission Calculations
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Attachment K	Electronic Submittal – NA
Attachment L	General Permit Application Fee \$500 + \$1000 NSPS (\$500 Total)
Attachment M	Siting Waiver Criteria – NA
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Attachment O	Emission Summary Sheets - NA
Attachment P	Other Supporting Documents

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) Carla L. Suszkowski 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 Carla L. Suszkowski 7-15-15
(please use blue ink) Responsible Official Date

Name & Title Carla L. Suszkowski P.E. Director of Environmental and Regulatory
(please print or type)

Signature _____
(please use blue ink) Authorized Representative (if applicable) Date

Applicant's Name ARP Mountaineer Production, LLC

Phone & Fax (412)-489-0311 (412) 262-7430
Phone Fax

Email cSuszkowski@atlasenergy.com

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

ISSUED TO:
**ARP MOUNTAINEER PRODUCTION, LLC
2388 HARPER RD
BECKLEY, WV 25801-9454**

BUSINESS REGISTRATION ACCOUNT NUMBER: 2301-2512

This certificate is issued on: **06/11/2014**

*This certificate is issued by
the West Virginia State Tax Commissioner
in accordance with Chapter 11, Article 12, of the West Virginia Code*

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

**This certificate is not transferrable and must be displayed at the location for which issued.
This certificate shall be permanent until cessation of the business for which the certificate of registration
was granted or until it is suspended, revoked or cancelled by the Tax Commissioner.**

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

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

atL006 v.4
L0729993792

att' Rebecca Wilder

ATTACHMENT B

DETAILED PROCESS DESCRIPTION

Natural Gas (methane, ethane, propane, etc.) comes from CDM wells and are piped to booster compressor which removes some of the water entrained in the gas stream by disturbance of the gas flow inside the separator on the skid, the water and trace amounts of Oil/Condensate is dumped out of the separators using high pressure gas to a One (1) 100 barrel (4200 gallons/tank) steel holding tank.

SITE Equipment (See Flow Diagram) will entail one engine/compressor, one (1) 100 Barrel tank and one (1) 300 gallon tank for new oil supply for engine/compressor. The One (1)100 barrel storage tank is used to store water and a small amount of condensate that has been entrained in the water that is dumped from the on skid separator which sees gas from the wells.

Simple process of gas supplied to inlet of compressor and compressed to higher pipeline pressure for going to sales of another station miles away. Only sources on this site are:

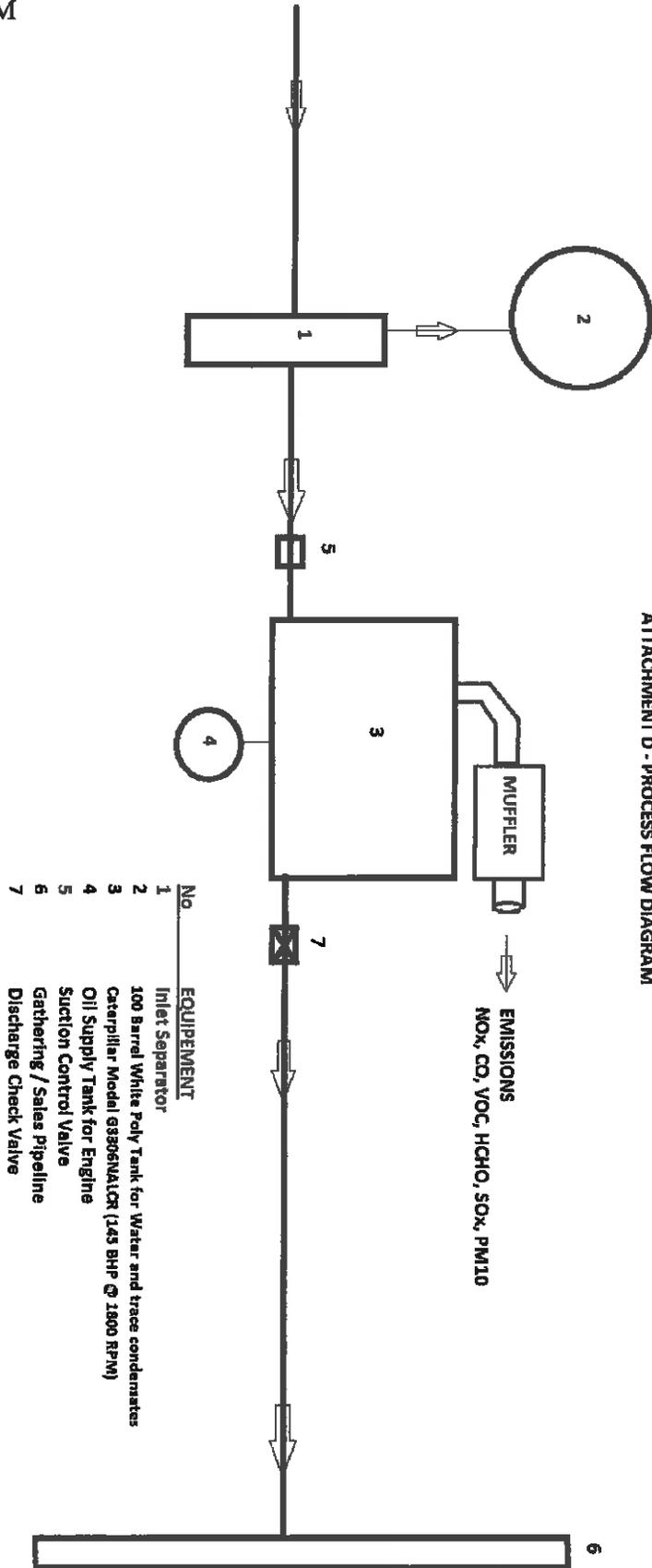
Engine built in 2003, therefore 40CFR60 Subpart JJJJ - NSPS is Not-applicable.

No HAP's on the location, 40CFR63 Subpart ZZZZ, site is remote, therefore NESHAP is Not-applicable.

Sources for Emissions:

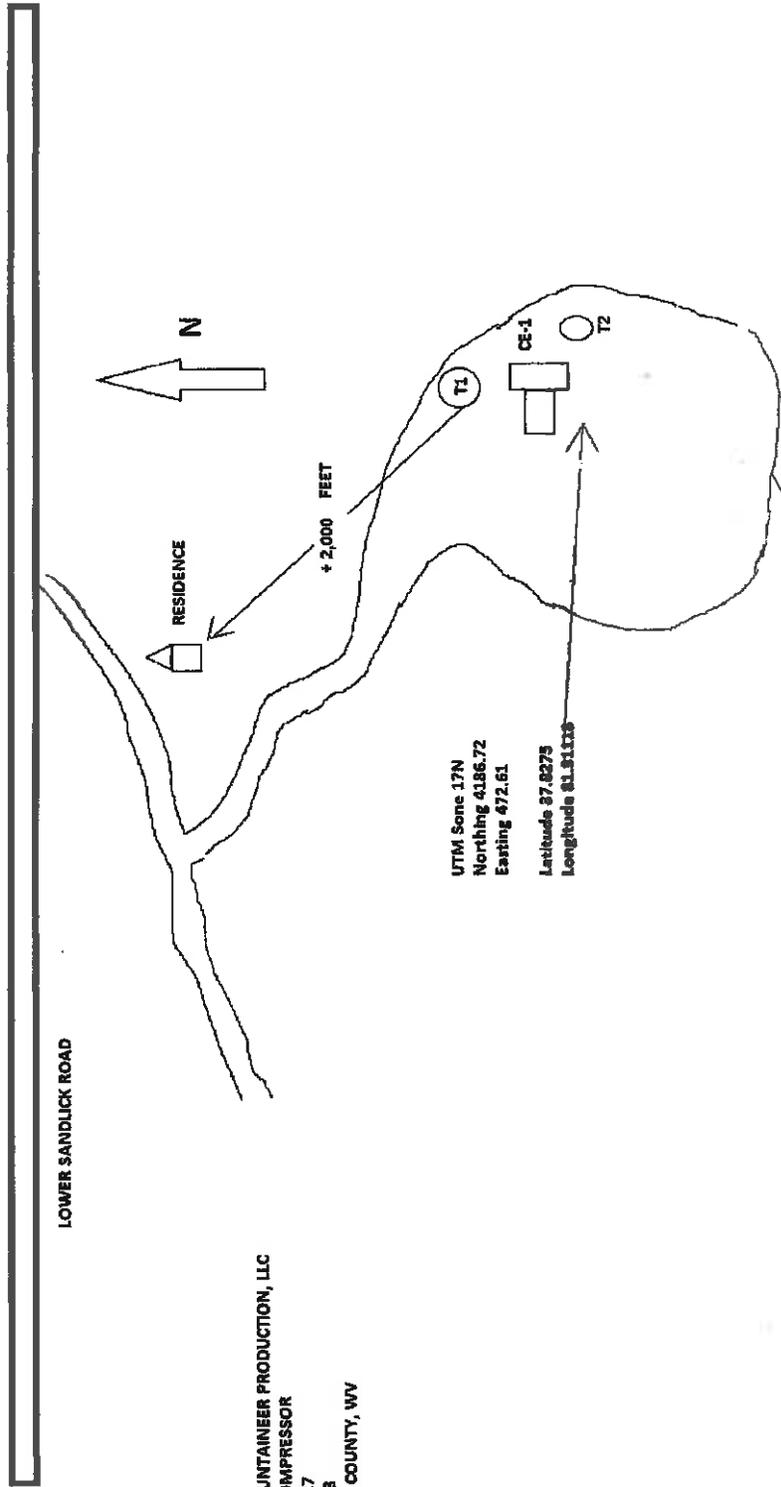
- One (1) Caterpillar G3306NA/Ariel 145 BHP Engine/compressor
- One (1) 100 barrel tank– Insignificant emissions, no flash loss, Working/Standing (Breathing)-NA
- One (1) 300 gallon oil supply (day) tank – emissions - NA

ATTACHMENT D
PROCESS FLOW DIAGRAM



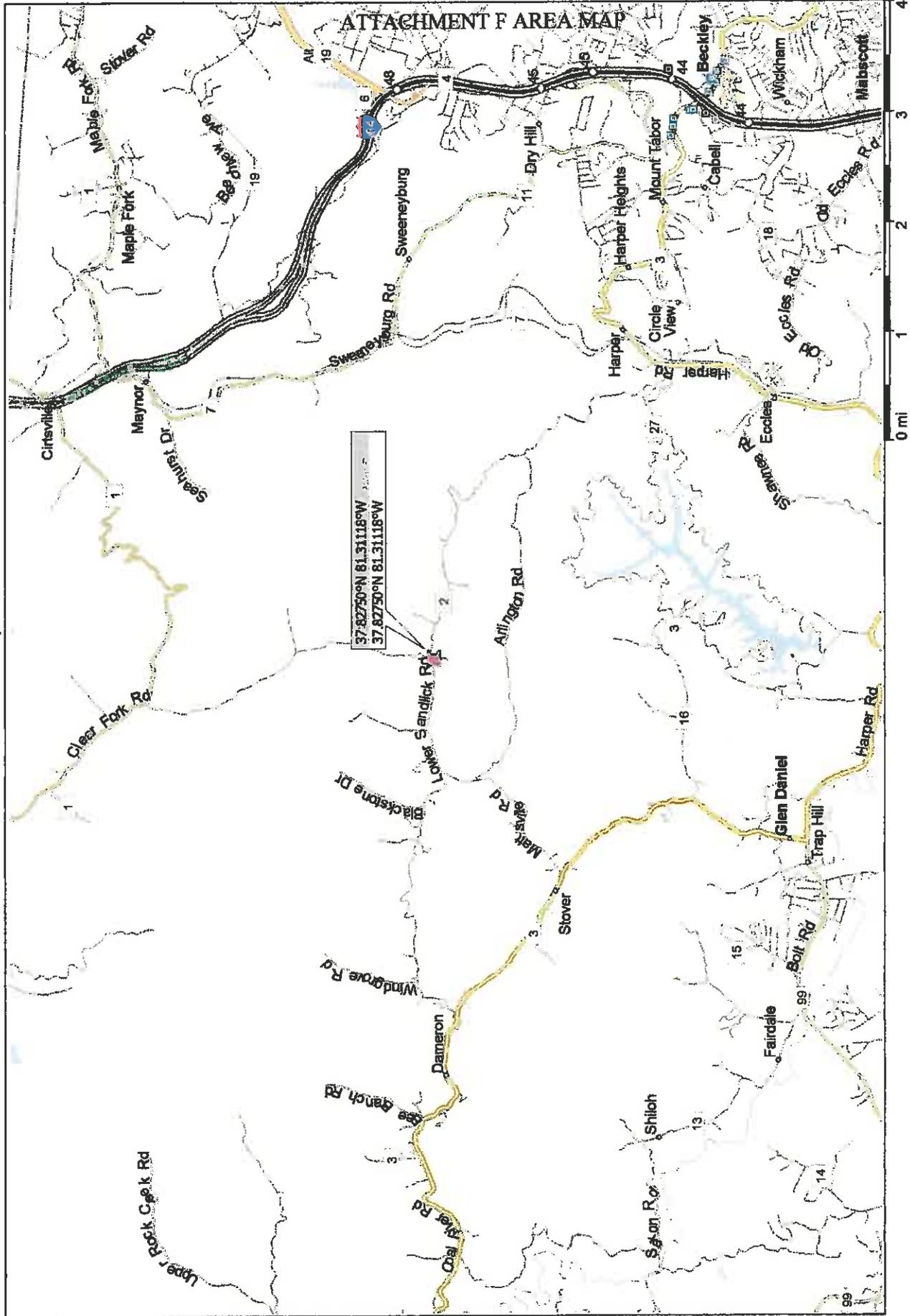
ATTACHMENT D - PROCESS FLOW DIAGRAM

ATTACHMENT E
PLOT PLAN



ARP MOUNTAINEER PRODUCTION, LLC
SD-11 COMPRESSOR
081-00227
G30-D148
RALIEGH COUNTY, WV

ARP SD-11 Compressor Site



Copyright © and (P) 1998-2009 Microsoft Corporation and/or its suppliers. All rights reserved. http://www.microsoft.com/streets/ Certain mapping and direction data © 2009 NAVTEQ. All rights reserved. The Data for areas of Canada includes information taken with permission from Canadian authorities, including © Her Majesty the Queen in Right of Canada, © Queen's Printer for Ontario, NAVTEQ and NAVTEQ ON BOARD are trademarks of NAVTEQ. © 2009 Tele Atlas North America, Inc. All rights reserved. Tele Atlas and Tele Atlas North America are trademarks of Tele Atlas, Inc. © 2008 by Applied Geographic Systems. All rights reserved.

ATTACHMENT F AREA MAP



Source: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRC.

clear markers

street map image

Coordinate Conversion & Identification

input coordinates

enter comma delimited coordinates, examples:
 39 15 30.1 -81 25 15.2 (lat, lon as decimal minutes seconds)
 39.12499 -81.42499 (lat, lon as decimal degrees)
 500000 4100000 (UTM as easting, northing)
 1987854.32 394123.45 (NW state plane as easting, northing)

37.8275, -81.3118

Lat/Lon WGS 1984

convert zoom to point

output coordinates

472815.5, 4186720.9

UTM NAD83 Zone 17N

Google Maps

history (lat, lon, utm, state)

1,37,827500,-81,31180000 (G1150),472815.5,4186720.9,UTM17N NAD83(CORE38)

notes about datum conversions

Datum conversions between all realizations of NAD27, NAD83, and WGS84 are not practical, or sometimes not strictly possible. Many of the issues are associated with the inability to convert between the original realization of NAD83 and more recent realizations. While error could be reduced by introducing an intermediate HARN conversion, separate transformations would have to be implemented for each state, which significantly increases the complexity of the application. Therefore datum conversions include a few built-in assumptions.

1. Pennsylvania, beginning 6/4/13, and 12/1/03. The appropriate reference is NAD83 and NAD83.

ARP Mountaineer Production, LLC

SD-11 Compressor

081-00227 G30-D148

ATTACHMENT G

G30-D REGISTRATION APPLICATION FORMS

NATURAL GAS COMPRESSOR/GENERATOR ENGINE DATA SHEET

Source Identification Number ¹		CE-1					
Engine Manufacturer and Model		Caterpillar G3306NALCR					
Manufacturer's Rated bhp/rpm		145 @ 1800					
Source Status ²		NS					
Date Installed/Modified/Removed ³		TBD					
Engine Manufactured/Reconstruction Date ⁴		10/29/2003					
Is this a Certified Stationary Spark Ignition Engine according to 40CFR60 Subpart JJJ? (Yes or No) ⁵		NO					
Engine, Fuel and Combustion Data	Engine Type ⁶	RB4S					
	APCD Type ⁷	None					
	Fuel Type ⁸	PQ					
	H ₂ S (gr/100 scf)	NA					
	Operating bhp/rpm	145/1800					
	BSFC (Btu/bhp-hr)	7396					
	Fuel throughput (ft ³ /hr)	1062					
	Fuel throughput (MMft ³ /yr)	9.3					
	Operation (hrs/yr)	8760					
Reference ⁹	Potential Emissions ¹⁰	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
MD	NO _x	7.71	33.72				
MD	CO	0.45	1.96				
MD	VOC	0.051	0.223				
AP	SO ₂	0.0006	0.0027				
AP	PM ₁₀	0.01	0.044				
	Formaldehyde	0.022	0.096				
	GHG CO2	157	688				
	GHG CH4	6.3	27.5				

- Enter the appropriate Source Identification Number for each natural gas-fueled reciprocating internal combustion compressor/generator engine located at the compressor station. Multiple compressor engines should be designated CE-1, CE-2, CE-3 etc. Generator engines should be designated GE-1, GE-2, GE-3 etc. If more than three (3) engines exist, please use additional sheets.
- Enter the Source Status using the following codes:

NS	Construction of New Source (installation)	ES	Existing Source
MS	Modification of Existing Source	RS	Removal of Source

COMPRESSOR STATION EMISSION SUMMARY SHEET FOR HAZARDOUS/TOXIC POLLUTANTS

SD-11 Compressor Station		Registration Number (Agency Use) <u>G30-D148</u>										
Source ID No.	Potential Emissions (lbs/hr)						Potential Emissions (tons/yr)					
	Benzene	Ethyl-benzene	Toluene	Xylenes	n-Hexane	Formaldehyde	Benzene	Ethyl-benzene	Toluene	Xylenes	n-Hexane	Formaldehyde
CE-1	NA	NA	NA	NA	NA	0.022	NA	NA	NA	NA	NA	0.096
Total	NA	NA	NA	NA	NA	0.022	NA	NA	NA	NA	NA	0.096

**General Permit Levels
Construction, Modification, Relocation, Administrative Update**

Class II General Permits – G10-C (Coal Preparation and Handling), G20-B (Hot Mix Asphalt), G30-D (Natural Gas Compressor Stations), G35-A (Natural Gas Compressor Stations with Glycol Dehydration Units, Flares, or Other Specified Control Devices Herein), G40-B (Nonmetallic Minerals Processing), G50-B (Concrete Batch Plant), G60-B (Emergency Generators)

Class I General Permit - G65-B (Emergency Generators)

General Permit	Public Notice	Review Period as 45CSR13	Application Fee	Criteria	Application Type
Class II General Permit (Construction)	30 days (applicant)	90 days	\$500 + applicable NSPS fees	6 lb/hr and 1.0 tpy of any regulated air pollutant OR 144 lb/day of any regulated air pollutant, OR 2 lb/hr of any hazardous air pollutant OR 5 tpy of aggregated HAP OR 45CSR27 TAP (10% increase if above BAT triggers or increase to BAT triggers) or subject to applicable standard or rule, but subject to specific eligibility requirements	Registration Application
Class II General Permit (Modification)	30 days (applicant)	90 days	\$500 + applicable NSPS fees	Same as Class II General Permit (Construction) but subject to specific eligibility requirements	Registration Application
Administrative Update (Class I)	None	60 days	None	Decrease in emissions or permanent removal of equipment OR more stringent requirements or change in MRR that is equivalent or superior	Registration Application or Written Request
Administrative Update (Class II)	30 days (applicant)	60 days	\$300 + applicable NSPS fees	No change in emissions or an increase less than Class II Modification levels	Registration Application
Relocation	30 days (applicant)	45 days	\$500 + applicable NSPS fees	No emissions increase or change in facility design or equipment	Registration Application
Class I General Permit	None	45 days	\$250	Same as Class II General Permit (Construction) but subject to specific eligibility requirements	Registration Application

ATTACHMENT I

Date: July 13, 2015

Owner of Source: ARP Mountaineer Production, LLC. Site: SD-11 Compressor

County: Raliegh

Latitude/Longitude: 37.8275 N / 81.31118 W

Mass Emission Calculations for a Natural Gas Engine Stationary Source

Make Caterpillar Model G3306NA BHP 145 RPM 1800

Engine Build Date (EBD) October 29, 2003 SN# G6X00579

Emission Controls:

Catalyst (Y/N) N Make NA Model NA

Air.Fuel Controller: NA, Murphy Dual Point Temperature Differential Shut Down-NA

Cycle and Burn (4SLB, 4SRB, 2SLB, 2SRB) 4SRB

Fuel /Heat Input (BTU/bhp-hr) 7396 BTU/scf 1009.4 SCF/hr 1062

Heat Input (MMBTU/hr) 1.07

EPA AP-42 Uncontrolled Emission Factors for 4SLB from Table 3.2-3

Pollutant	grams/bhp-hr (lb/MMBTU)	lb/hr g *BHP/453.5924	Ton/Year lb/hr*8760/2000	Method OEM/AP-42
NOx	24.11	7.71	33.72	OEM
CO	1.40	0.45	1.96	OEM
VOC	0.16	0.051	0.223	OEM
HCHO	0.07 (2.05E-02)	0.022	0.096	AP-42
PM(filter)	0.03 (9.5E-03)	0.01	0.044	AP-42
SOx	0.002 (5.88E-04)	0.0006	0.0027	AP-42
CO2(e) GHG	NA	NA	688 Metric Tons	EPA Website

CH4 is approx. 25 less than CO2(e) = 27.5 TPY

ATTACHMENT J

AIR QUALITY PERMIT NOTICE Notice of Application

Notice is given that ARP Mountaineer Production, LLC has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for General Registration G30-D Class II Modification for SD-11 Compressor Site, a Natural Gas Compressor Facility located near Lower Sandlick Road near the town of Harper, in Raleigh County, West Virginia.

Latitude 37.8275
Longitude 81.31118

The applicant estimates the change in emissions from existing site to have the potential to discharge the following Regulated Air Pollutants will be:

NO_x = 33.72 TPY
CO = 1.96 TPY
VOC's = 0.233 TPY
SOX = 0.0027 TPY
PM₁₀ = 0.044 TPY
HCHO = 0.096 TPY
GHG(CO₂(e)) = 688 TPY
GHG(CH₄) = 27.5 TPY

Completion and Operation of SD-11 Compressor Site will begin on or about the 10th day of August, 2015 or immediately after WVDEP Authorization. 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 13th day of July, 2015.

By: ARP Mountaineer Production, LLC
Carla L. Suszkowski P.E.
Director of Environmental and Regulatory
1000 Commerce Drive, Suite 410
Pittsburgh, PA 15275



Beckley Newspapers

Phone (304) 255-4406
Fax (304) 255-4405
Toll Free 800-950-0250
801 N. Kanawha Street
P.O. Box 2398 or 2340
Beckley, West Virginia 25302

CNHI dba Beckley Newspapers
P. O. Box 2398
Beckley, WV 25801
Fed. ID # 631253948

Publishers of
THE REGISTER-HERALD
THE FAYETTE TRIBUNE
THE MONTGOMERY HERALD
THE POST REPORT
WYOMING COUNTY REPORT
MARKET BASKETS
COMMERCIAL PRINTING
WEST VIRGINIA SOUTH

Advertising Invoice

ATLAS RESOURCE PARTNERS, L.P.
2615 STEELSBURG HIGHWAY
ATTN: ROCKY STILWELL
CEDARBLUFF, VA 24609

Cust#:71091
Ad#:88696
Phone#:276-963-2979
Date:07/15/2015

Salesperson: Tara Meyer

Classification: Legals

Ad Size: 1.0 x 9.20

Advertisement Information:

Description	Start	Stop	Ins.	Cost/Day	Total
The Register-Herald	07/16/2015	07/16/2015	1	51.43	51.43
Bold word charge	-	-	-	-	0.70

Payment Information:

Date:	Order#	Type
07/14/2015	88696	BILLED ACCOUNT

Total Amount: 52.13

Amount Due: 52.13

Attention: No credit or refund will be given to advertisements that are cancelled

Ad Copy

AIR QUALITY PERMIT NOTICE Notice of Application

Notice is given that ARP Mountaineer Production, LLC has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for General Registration G30-D Class II Administrative Update for SD-11 Compressor, a Natural Gas Compressor Facility located near Lower Sandlick Road near the town of Harper, in Raleigh County, West Virginia.

Latitude 37.8275
Longitude 81.31118

The applicant estimates the change in

L. 3197

**AFFIDAVIT OF PUBLICATION
BECKLEY NEWSPAPERS
BECKLEY, WEST VIRGINIA 25801**

07/16/2015

STATE OF WEST VIRGINIA
COUNTY OF RALEIGH, to wit:

I, Tara Meyer, being duly sworn upon my oath, do depose and say that I am Legal Advertising Clerk for Beckley Newspapers, a corporation, publisher of the newspaper entitled The Register-Herald, an Independent newspaper; that I have been duly authorized by the board of directors of such corporation to execute this affidavit of publication; that such newspaper has been published for more than one year prior to publication of the annexed notice described below; that such newspaper is regularly published daily for at least fifty weeks during the calendar year, in the municipality of Beckley, Raleigh County, West Virginia; that such newspaper is a newspaper of "general circulation" as that term is defined in article three, chapter fifty-nine of the Code of West Virginia, 1931, as amended, within the publication area of areas of the aforesaid municipality and county; that such newspaper averages in length four or more pages, exclusive of any cover, per issue; that such newspaper is circulated to the general public at a definite price of consideration; that such newspaper is a newspaper to which the general public resorts for passing events of a political, religious, commercial and social nature, and for current happenings, announcements, miscellaneous reading matter, advertisements and other notices; that the annexed notice

of AIR QUALITY PERMIT NOTICE / NOTICE OF APPLICATION
(Description of notice)

was duly published in said newspaper once a week for 1 successive weeks (Class 1), commencing with the issue of 07/16/2015 and ending with the issue of 07/16/2015, that said annexed notice was published on the following dates: 07/16/2015, and that the cost of publishing said annexed notice as aforesaid was \$ 52.13

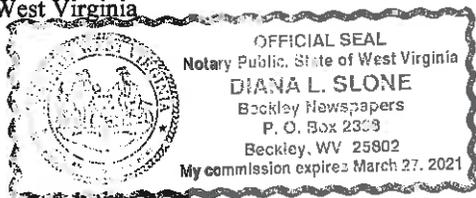
Signed _____

Tara Meyer
Tara Meyer
Legal Advertising Clerk
Beckley Newspapers

Taken, subscribed and sworn to before me in my said county this day:
07/16/2015

My commission expires March 27, 2021

Diana L. Slone
Notary Public of Raleigh County,
West Virginia



COPY OF PUBLICATION

**AIR QUALITY
PERMIT NOTICE
Notice of
Application**

Notice is given that ARP Mountaineer Production, LLC has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for General Registration G30-D Class II Administrative Update for SD-11 Compressor, a Natural Gas Compressor Facility located near Lower Sandlick Road near the town of Harper, in Raleigh County, West Virginia.

Latitude 37.8275
Longitude 81.31118

The applicant estimates the change in emissions from existing site to have the potential to discharge the following Regulated Air Pollutants will be:

NOx = 33.72 TPY
CO = 1.96 TPY
VOC's = 0.233 TPY
SOX = 0.0027 TPY
PM10 = 0.044 TPY
HCHO = 0.096 TPY
GHG(CO2(e)) = 688 TPY
GHG(CH4) = 27.5 TPY

Completion and Operation of SD-11 Compressor Site will begin on or about the 10th day of August, 2015 or immediately after WVDEP Authorization. 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 13th day of July, 2015.

By:
ARP Mountaineer
Production, LLC
Carla L.
Suszkowski P.E.
Director of
Environmental and
Regulatory
1000 Commerce Drive,
Suite 410
Pittsburgh, PA 15275
7-16-TH(U)-1-RH: L 3197

ATTACHMENT L

AIR QUALITY PERMIT FEE

APPLICATION FEE	\$ 500.00
NSPS FEE	\$1,000.00 NA
NESHAP FEE	\$2500.00 NA
TOTAL	\$ 500.00

PLEASE ATTACH CHECK FOR \$500.00 PAYABLE TO:

WVDEP – DIVISION OF AIR QUALITY



ATTACHMENT P
G3306

GAS PETROLEUM ENGINE

108-164 bkW (145-220 bhp)

TECHNICAL DATA

G3306 Gas Petroleum Engine — 1800 rpm

		TM9278-06	DM5062-05	DM5779-01	DM5211-06	TM9268-06
Engine Power						
@ 100% Load	bkW (bhp)	151 (203)	151 (203)	157 (211)	108 (145)	164 (220)
@ 75% Load	bkW (bhp)	114 (152)	114 (152)	118 (158)	81 (109)	123 (165)
Engine Speed		1800	1800	1800	1800	1800
Max Altitude @ Rated Torque and 38°C (100°F)		0	0	0	0	0
Speed Turndown @ Max Altitude, Rated Torque, and 38°C (100°F)		25	22	25	44.4	22
SCAC Temperature		54 (130)	54 (130)	32 (90)	N/A	32 (90)
Emissions*						
NOx	g/bkW-hr (g/bhp-hr)	37.16 (27.71)	30.52 (22.76)	36.91 (27.52)	32.34 (24.11)	30.9 (23.07)
CO	g/bkW-hr (g/bhp-hr)	2.01 (1.5)	1.7 (1.28)	2 (1.52)	1.9 (1.4)	2 (1.6)
CO ₂	g/bkW-hr (g/bhp-hr)	691 (515)	665 (496)	677 (505)	660 (492)	652 (486)
VOC**	g/bkW-hr (g/bhp-hr)	0.15 (0.11)	0.15 (0.11)	0.15 (0.11)	0.21 (0.16)	0.16 (0.12)
Fuel Consumption***						
@ 100% Load	MJ/bkW-hr (Btu/bhp-hr)	11.04 (7802)	10.66 (7532)	10.89 (7694)	10.57 (7471)	10.46 (7396)
@ 75% Load	MJ/bkW-hr (Btu/bhp-hr)	11.85 (8374)	11.39 (8053)	11.67 (8249)	11.3 (7987)	11.34 (8015)
Heat Balance						
Heat Rejection to Jacket Water						
@ 100% Load	bkW (Btu/min)	150 (8557)	140 (7935)	143 (8133)	99.4 (5652)	142 (8095)
@ 75% Load	bkW (Btu/min)	134 (7617)	125 (7088)	127 (7245)	87.3 (4964)	130 (7387)
Heat Rejection to Aftercooler						
@ 100% Load	bkW (Btu/min)	9.78 (557)	9.45 (538)	14.9 (846)	—	15.1 (857)
@ 75% Load	bkW (Btu/min)	4.44 (252)	4.04 (230)	8.3 (475)	—	8.5 (482)
Heat Rejection to Exhaust (LHV to 25°C)						
@ 100% Load	bkW (Btu/min)	114 (6509)	111 (6320)	123 (6976)	84 (4775)	117 (6679)
@ 75% Load	bkW (Btu/min)	89 (5065)	86 (4873)	96 (5479)	64.1 (3644)	93 (5289)
Exhaust System						
Exhaust Gas Flow Rate						
@ 100% Load	m ³ /min (cfm)	27.5 (973)	26.8 (947)	29 (1028)	19.7 (697)	28.2 (987)
@ 75% Load	m ³ /min (cfm)	21.8 (769)	20.8 (733)	23.1 (815)	15.4 (545)	22.3 (791)
Exhaust Stack Temp.						
@ 100% Load	°C (°F)	540 (1004)	535 (996)	561 (1041)	560 (1040)	538 (1000)
@ 75% Load	°C (°F)	522 (972)	530 (985)	548 (1018)	534 (993)	536 (996)
Intake System						
Air Inlet Flow Rate						
@ 100% Load	m ³ /min (scfm)	9 (320)	8.9 (314)	9.3 (330)	6.4 (225)	9.3 (329)
@ 75% Load	m ³ /min (scfm)	7.3 (259)	6.9 (244)	7.5 (266)	5.1 (181)	7.4 (261)
Gas Pressure		83-172 (12-24.9)	83-172 (12-24.9)	83-172 (12-24.9)	10.34-34.47 (1.5-5)	83-172 (12-24.9)

*at 100% load and speed, all values are listed as not to exceed

**Volatile organic compounds as defined in U.S. EPA 40 CFR 60, subpart JJJJ

***ISO 3048/1

ATTACHMENT P

Class II General Permit G30-D
Natural Gas Compressor Station

Page 3 of 3

Emission Units

Emission Unit ID	Emission Unit Description (Make, Model, Serial No.)	Design Capacity (hp/rpm)
CE-1	Waukesha F18GL Compressor Engine	400/1,800
CE-2	Waukesha F18GL Compressor Engine	400/1,800
CE-3	Waukesha F18GL Compressor Engine	400/1,800
T01	300 gallon Lube Oil Storage Tank	NA
T02	4,200 gallon Condensate Storage Tank	NA

Emission Limitations

Source ID#	Nitrogen Oxides		Carbon Monoxide		Volatile Organic Compounds	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
CE-1	1.76	7.71	1.54	6.75	0.66	2.89
CE-2	1.76	7.71	1.54	6.75	0.66	2.89
CE-3	1.76	7.71	1.54	6.75	0.66	2.89

ATTACHMENT P



west virginia department of environmental protection

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

Joe Manchin, III, Governor
Randy C. Huffman, Cabinet Secretary
www.wvdep.org

August 13, 2008

CERTIFIED MAIL

7007 0220 0000 0370 2028

CDX Gas, LLC
Gary Charles
110 Wyoming Street, Suite 200
Charleston, WV 25302

RE: Approved Registration G30-D148
CDX Gas, LLC
SD-11 Compressor Site
Plant ID No. 081-00227

Dear Mr. Charles:

The Director has determined that the submitted Registration Application and proposed construction and operation of a natural gas compressor station demonstrates eligibility and compliance with the requirements, provisions, standards and conditions of General Permit G30-D and hereby grants General Permit registration authorizing the proposed activity.

Please be aware of the actions required in Monitoring, Testing, Recordkeeping and Reporting Requirements in General Permit G30-D.

Should you have any questions, please contact the undersigned engineer at (304)926-0499 ext. 1223.

I.D. No. 081-00227 Reg. G30-D148
Company: CDX Gas
Site: SD-11
Location: JW

Sincerely,

Jerry Williams II, P.E.
Engineer

Enclosures: Registration G30-D148

c: Christopher Veazey

Entire Document
NON-CONFIDENTIAL

ATTACHMENT P



WEST VIRGINIA DEPARTMENT
OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY

Certificate to Operate

Company, Facility/Source

ARP MOUNTAINEER PRODUCTION, LLC
SD-11 COMPRESSOR SITE

DAQ Company ID No.: 08100227
Class: 8D

Amount Paid: \$500.00
Received: 7/31/2014

Operating Year

July 1, 2014 - June 30, 2015

Mailing Information

BRIAN KLINK
ARP MOUNTAINEER PRODUCTION, LLC
3500 MASSILLION ROAD, SUITE 100
UNIONTOWN OH 44685

Pursuant to West Virginia Code 22-5-4 and Rule 45CSR22 "Air Quality Management Fee Program" the Division of Air Quality of the Department of Environmental Protection has hereby issued a certificate to operate for the operating year indicated above.

Division of Air Quality
601 57th Street SE
Charleston WV 25304
Phone: 304-926-0489 extension 1234 or email: airqualityfees@wv.gov

**ATTACHMENT P
GENERAL PERMIT APPLICATION FEE AND TIME TABLE**

G10-C - Class II Coal Preparation and Handling

	Application Fee	NSPS Fee	Total Fee	Total Days*
Construction	\$ 500.00	\$ 1,000.00	\$ 1,500.00	45
Modification	\$ 500.00	\$ 1,000.00	\$ 1,500.00	45
Relocation	\$ 500.00	\$ 1,000.00	\$ 1,500.00	45
Class I Admin. Update	NA	NA	NA	45
Class II Admin. Update	\$ 300.00	\$ 1,000.00	\$ 1,300.00	45

G20-B - Class II Hot Mtx Asphalt

	Application Fee	NSPS Fee	Total Fee	Total Days*
Construction	\$ 500.00	\$ 1,000.00	\$ 1,500.00	45
Modification	\$ 500.00	\$ 1,000.00	\$ 1,500.00	45
Relocation	\$ 500.00	\$ 1,000.00	\$ 1,500.00	45
Class I Admin. Update	NA	NA	NA	45
Class II Admin. Update	\$ 300.00	\$ 1,000.00	\$ 1,300.00	45

G30-A - Class II Natural Gas Compressor

	Application Fee	NSPS Fee	Total Fee	Total Days*
Construction	\$ 500.00	\$ 1,000.00	\$ 1,500.00	45
Modification	\$ 500.00	\$ 1,000.00	\$ 1,500.00	45
Relocation	\$ 500.00	\$ 1,000.00	\$ 1,500.00	45
Class I Admin. Update	NA	NA	NA	45
Class II Admin. Update	\$ 300.00	\$ 1,000.00	\$ 1,300.00	45

G-33A - Class I Natral Gas Compressor ≥ 25HP and ≤ 500 HP

	Application Fee	NSPS Fee	Total Fee	Total Days*
Construction	\$ 250.00	NA	\$ 250.00	45
Modification	\$ 250.00	NA	\$ 250.00	45
Relocation	\$ 250.00	NA	\$ 250.00	45
Class I Admin. Update	NA	NA	NA	45
Class II Admin. Update	\$ 300.00	NA	\$ 300.00	45

G-36A - Class II Natural Gas Compressor Station W/ Glycol Dehydration Unit, Flares, and Other Specified Control Devices

	Application Fee	NSPS Fee	Total Fee	Total Days*
Construction	\$ 500.00	\$ 1,000.00	\$ 1,500.00	45
Modification	\$ 500.00	\$ 1,000.00	\$ 1,500.00	45
Relocation	\$ 500.00	\$ 1,000.00	\$ 1,500.00	45
Class I Admin. Update	NA	NA	NA	45
Class II Admin. Update	\$ 300.00	\$ 1,000.00	\$ 1,300.00	45

G40-B - Class II Nonmetallic Minerals Processing

	Application Fee	NSPS Fee	Total Fee	Total Days*
Construction	\$ 500.00	\$ 1,000.00	\$ 1,500.00	45
Modification	\$ 500.00	\$ 1,000.00	\$ 1,500.00	45
Relocation	\$ 500.00	\$ 1,000.00	\$ 1,500.00	45
Class I Admin. Update	NA	NA	NA	45
Class II Admin. Update	\$ 300.00	\$ 1,000.00	\$ 1,300.00	45

G60-B - Class II Concrete Batch

	Application Fee	NSPS Fee	Total Fee	Total Days*
Construction	\$ 500.00	\$ 1,000.00	\$ 1,500.00	45
Modification	\$ 500.00	\$ 1,000.00	\$ 1,500.00	45
Relocation	\$ 500.00	\$ 1,000.00	\$ 1,500.00	45
Class I Admin. Update	NA	NA	NA	45
Class II Admin. Update	\$ 300.00	\$ 1,000.00	\$ 1,300.00	45

G60-A - Class II Emergency Generator

	Application Fee	NSPS Fee	Total Fee	Total Days*
Construction	\$ 500.00	\$ 1,000.00	\$ 1,500.00	45
Modification	\$ 500.00	\$ 1,000.00	\$ 1,500.00	45
Relocation	\$ 500.00	\$ 1,000.00	\$ 1,500.00	45
Class I Admin. Update	NA	NA	NA	45
Class II Admin. Update	\$ 300.00	\$ 1,000.00	\$ 1,300.00	45

G66-A - Class I Emergency Generator

	Application Fee	NSPS Fee	Total Fee	Total Days*
Construction	\$ 250.00	NA	\$ 250.00	45
Modification	\$ 250.00	NA	\$ 250.00	45
Relocation	\$ 250.00	NA	\$ 250.00	45
Class I Admin. Update	NA	NA	NA	45
Class II Admin. Update	\$ 300.00	NA	\$ 300.00	45

G70-A - Class II Natural Gas Production Pad

	Application Fee	NSPS Fee	NESHAP Fee	Total Fee	Total Days*
Construction	\$ 500.00	\$ 1,000.00	\$ 2,500.00	\$ 4,000.00	45
Modification	\$ 500.00	\$ 1,000.00	\$ 2,500.00	\$ 4,000.00	45
Class I Admin. Update	NA	NA	NA	NA	45
Class II Admin. Update	\$ 300.00	\$ 1,000.00	\$ 2,500.00	\$ 3,800.00	45

* Maximum days after receipt of complete application.