

Environmental Compression Services, Inc.

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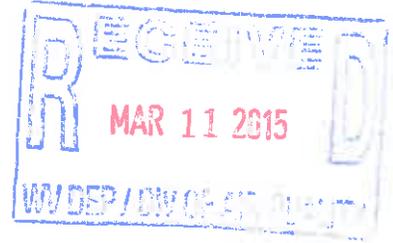
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Environmental Laboratory Registration# 63-03526

Keatley
635-A067E
091-00034



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

February 18, 2015

Reference: General Permit Registration Modification and Change of Ownership
East Comet Compressor Station
G35-A067D Plant ID# 091-00034
Wendel, Tayler County, West Virginia

Attention: Beverly McKeone

Dear Beverly McKeone – NSR Manager

MK Midstream Holdings, LLC is submitting a General Permit G-35A Registration Modification package as requested by West Virginia Department of Environmental Protection – Division of Air Quality for the East Comet Compressor Station facility, Plant ID# 091-00034, located in Tayler County, WV

This facility is operating under a current G35-A067D registration under PDC Mountaineer, LLC's name and enclosed with this package is the Change of Ownership Buyers letter agreement and below is MK Midstream Holdings, LLC intentions for future modification.

As per 091-00034: There are Two (2) Caterpillar Model G3516Bs, Two (2) Caterpillar G3508LEs, and One (45 MMCFD) TEG Dehydration unit and One (42 MMCFD) TEG Dehydration unit. The Two (2) Caterpillar G3508 engine/compressor packages will be removed and an additional Three (3) New Caterpillar G3516B's will be installed (Phased in over time), with an end result of Five (5) Caterpillar G3516B and One (1) 45 MMCFD TEG Dehydration unit and One (1) 42 MMCFD TEG Dehydration unit, associated tanks, piping and valves on this facility.

Please feel free to contact myself directly if WVDEP – DAQ has any questions or concerns regarding the information in this General Permit Registration Modification.

Sincerely,

William M. Monroe
President

Enclosures



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

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

PLEASE CHECK ALL THAT APPLY (IF KNOWN):

- CONSTRUCTION MODIFICATION RELOCATION
 ADMINISTRATIVE UPDATE AFTER-THE-FACT

FOR AGENCY USE ONLY: PLANT I.D. # _____

PERMIT # _____ PERMIT WRITER: _____

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

- G10-C – Coal Preparation and Handling
 G20-B – Hot Mix Asphalt
 G30-D – Natural Gas Compressor Stations
 G33-A – Class I Spark Ignition Internal Combustion Engine
 G35-A – Natural Gas Compressor Stations (Flare/Glycol Dehydration Unit)

- G40-C – Nonmetallic Minerals Processing
 G50-B – Concrete Batch
 G60-C – Class II Emergency Generator
 G65-C – Class I Emergency Generator

SECTION I. GENERAL INFORMATION

1. NAME OF APPLICANT (AS REGISTERED WITH THE WV SECRETARY OF STATE'S OFFICE):

MK Midstream Holdings, LLC

2. FEDERAL EMPLOYER ID NO. (FEIN):

47-1919654

3. APPLICANT'S MAILING ADDRESS:

45 Professional Place
 Bridgeport, WV 26330

4. IF APPLICANT IS A SUBSIDIARY CORPORATION, PLEASE PROVIDE THE NAME OF PARENT CORPORATION: Mountaineer Keystone, LLC

5. 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 CERTIFICATE AS ATTACHMENT A.
- IF NO, PROVIDE A COPY OF THE CERTIFICATE OF AUTHORITY / AUTHORITY OF L.L.C. / REGISTRATION (ONE PAGE) INCLUDING ANY NAME CHANGE AMENDMENTS OR OTHER BUSINESS CERTIFICATE AS ATTACHMENT A.

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 Station – Class II General Permit Modification

8. STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODE FOR THE FACILITY:

1311

9A. DAQ PLANT I.D. NO. (FOR AN EXISTING FACILITY): 091 -00034	10A. LIST ALL CURRENT 45CSR13 AND 45CSR30 (TITLE V) PERMIT NUMBERS ASSOCIATED WITH THIS PROCESS (FOR EXISTING FACILITY ONLY): G35-A067D
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PRIMARY OPERATING SITE INFORMATION

11A. NAME OF PRIMARY OPERATING SITE: EAST COMET STATION	12A. MAILING ADDRESS OF PRIMARY OPERATING SITE: Route 50E, Wendel Road, Wendel, Taylor County, WV
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13A. DOES THE APPLICANT OWN, LEASE, HAVE AN OPTION TO BUY, OR OTHERWISE HAVE CONTROL OF THE PROPOSED SITE?
 YES **NO**
- IF YES, PLEASE EXPLAIN: Applicant Owns the Station
- 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.**
From I-79 take Exit 124 go East on Route 279 for 2.5 miles to junction with US Route 50, Turn left onto US Route 50 east. Go 5.3 miles to Wendel Road (RT 36). Turn right and go 1.2 miles to double white gates on left. Go 0.3 miles to compressor station on right.
INCLUDE A MAP AS ATTACHMENT F.

15A. NEAREST CITY OR TOWN: Wendel	16A. COUNTY: Taylor
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17A. UTM NORTHING (KM): 4350.915	18A. UTM EASTING (KM): 576.957	19A. UTM ZONE: 17
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1ST ALTERNATE OPERATING SITE INFORMATION (G20-B, G40-C, G50-C only)

11B. NAME OF PRIMARY OPERATING SITE: 	12B. MAILING ADDRESS OF PRIMARY OPERATING SITE:
---	--

13B. 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.

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 NORTHING (KM):	18B. UTM EASTING (KM):	19B. UTM ZONE:

2ND ALTERNATE OPERATING SITE INFORMATION (G20-B, G40-C, G50-C only)

11C. NAME OF PRIMARY OPERATING SITE:	12C. MAILING ADDRESS OF PRIMARY OPERATING SITE:
_____	_____

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 NORTHING (KM):	18C. UTM EASTING (KM):	19C. UTM ZONE:

20. PROVIDE THE DATE OF ANTICIPATED INSTALLATION OR CHANGE: <u>4 / 1 / 2015</u> — 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: 4/1/2015
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22. PROVIDE MAXIMUM PROJECTED OPERATING SCHEDULE OF ACTIVITY/ ACTIVITIES OUTLINED IN THIS APPLICATION:

HOURS PER DAY 24 DAYS PER WEEK 7 WEEKS PER YEAR 52 PERCENTAGE OF OPERATION 100%

SECTION III. ATTACHMENTS AND SUPPORTING DOCUMENTS

PLEASE CHECK ALL ATTACHMENTS INCLUDED WITH THIS PERMIT APPLICATION:

Please See 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: AFFECTED SOURCE SHEETS
- ATTACHMENT H: BAGHOUSE AIR POLLUTION CONTROL DEVICE SHEET
- ATTACHMENT I: EMISSIONS CALCULATIONS
- ATTACHMENT J: CLASS I LEGAL ADVERTISEMENT
- ATTACHMENT K: ELECTRONIC SUBMITTAL DISKETTE
- CERTIFICATION OF INFORMATION
- ATTACHMENT L: GENERAL PERMIT REGISTRATION APPLICATION FEE
- ATTACHMENT M: SITING CRITERIA WAIVER

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. PLEASE DO NOT FAX PERMIT APPLICATIONS. FOR QUESTIONS REGARDING APPLICATIONS OR WEST VIRGINIA AIR POLLUTION RULES AND REGULATIONS PLEASE CALL (304) 928-0475.

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)

G 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

G I certify that I am a General Partner

FOR A LIMITED LIABILITY COMPANY

G I certify that I am a General Partner or General Manager

FOR AN ASSOCIATION

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

FOR A JOINT VENTURE

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

FOR A SOLE PROPRIETORSHIP

G I certify that I am the Owner and Proprietor

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 Chief 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 Joseph L. McConnell 2-24-15
(please use blue ink) Responsible Official Date

Name & Title Joe McConnell – Compression Manager
(please print or type)

Signature Joseph L. McConnell 2-24-15
(please use blue ink) Authorized Representative (if applicable) Date

Applicant's Name Joe McConnell

Phone & Fax 724-940-1272 304-848-9134
Phone Fax

Email jmconnell@mkmidstream.com

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

ISSUED TO:
**MK MIDSTREAM HOLDINGS, LLC
65 PROFESSIONAL PL 200
BRIDGEPORT, WV 26330-1889**

BUSINESS REGISTRATION ACCOUNT NUMBER: 2306-9776

This certificate is issued on: **02/19/2015**

*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.

ATTACHMENT A

**Current 2015 West Virginia Business Certificate Place Here
(i.e.: Certificate of Incorporation/organization/Limited Partnership – ONE PAGE ONLY)**

Pipeline quality natural gas (methane) is supplied to Five (5) Caterpillar G3516B Internal combustion engine (1380 BHP @ 1400 RPM/each) equipped with a DCL Model DC-65 Oxidation Catalytic Converters for emission reductions. The engines drive compressors to move the natural gas through a pipeline into a TEG (Tri-Ethylene Glycol) Dehydrator for drying the gas to below 7.0 lbs/MMSCFD of Water Content and eventually sell the dried clean natural gas into a sales line that has a higher pressure (psig) than the wells can produce on their own at.

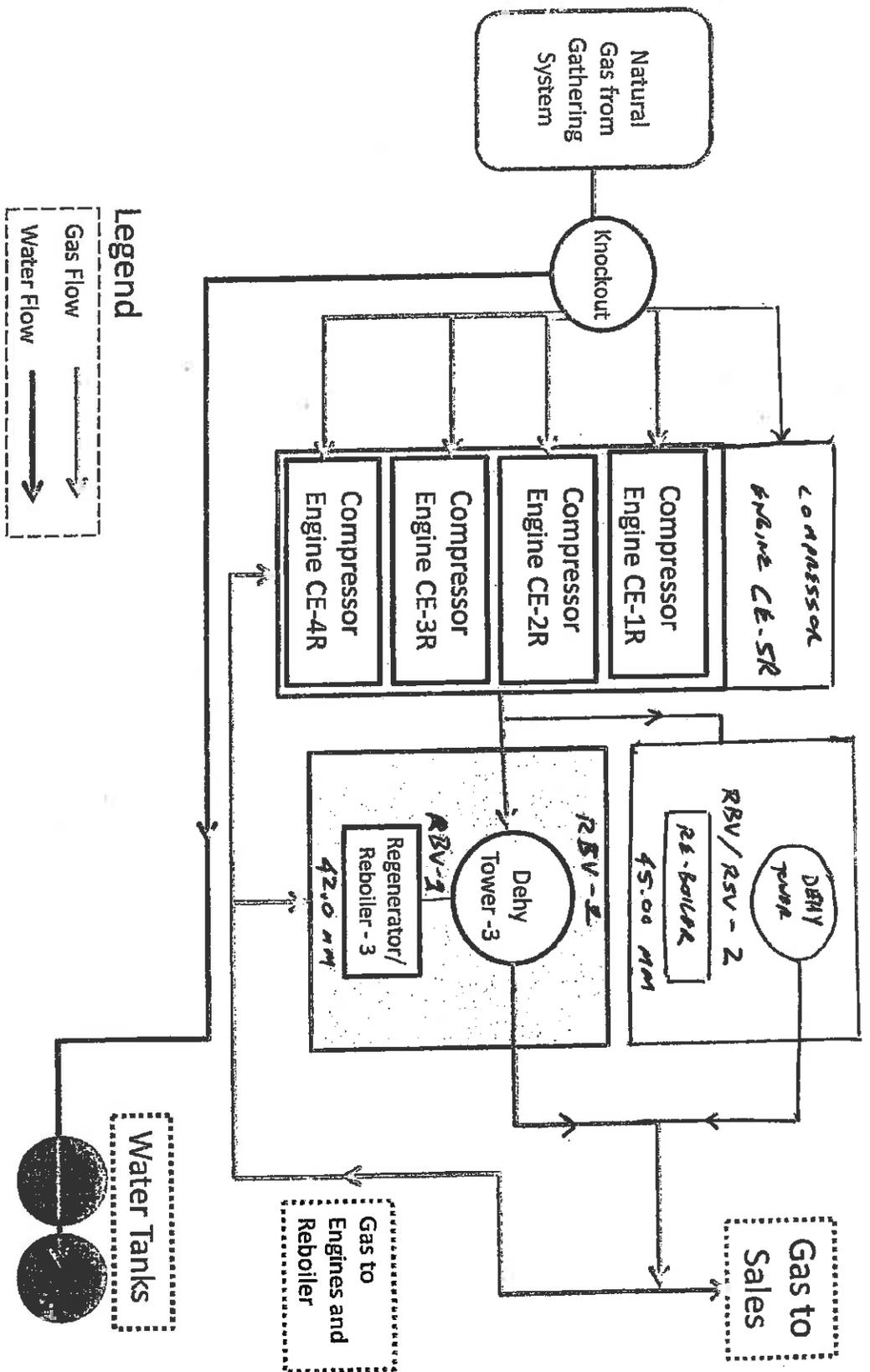
The engine burns the dried hot natural gas from the discharge of the dehydrator and products of combustion are exhausted through an exhaust line and into a Catalytic Converter and then to a Hospital Grade Muffler/Silencer through a tailpipe and into the atmosphere.

The Tri-Ethylene Glycol (TEG) Dehydrator uses a type of anti-freeze to remove water that is entrained in the gas stream. The re-boiler heats the glycol to a certain temperature and a pump pushes the glycol up through the tower that also has the natural gas flowing through it and absorption tray vessel (Tower) stripes out the water and it is dropped out of the gas stream and piped to a waste tank. The re-boiler has a stack on it and the only real pollutant that is measurable is VOC's (Volatile Organic Chemicals) or Non-Methane Hydrocarbons off of what is called the still column. NOx & CO is the product of combustion of natural gas through the burner and these are vented to the atmosphere through the fire-tube.

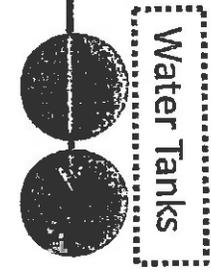
Most of the lube oils from the compressor are entrained in the gas stream, but what is caught in a coalescent filter is piped to a waste tank and hauled away by a company like Safety Clean, who disposes of it properly. The engine oil and filters that must be used to keep engine running and in good condition is also piped to either the same tank that has a containment dike around it for accidental spills, is also drained periodically by a safety company that disposes it properly.

There are fugitive emissions associated with piping connections, valves, and controllers. These emissions occur due to potential seepage from connections, flanges and open ended lines.

East Comet Compressor Station Process Flow Diagram

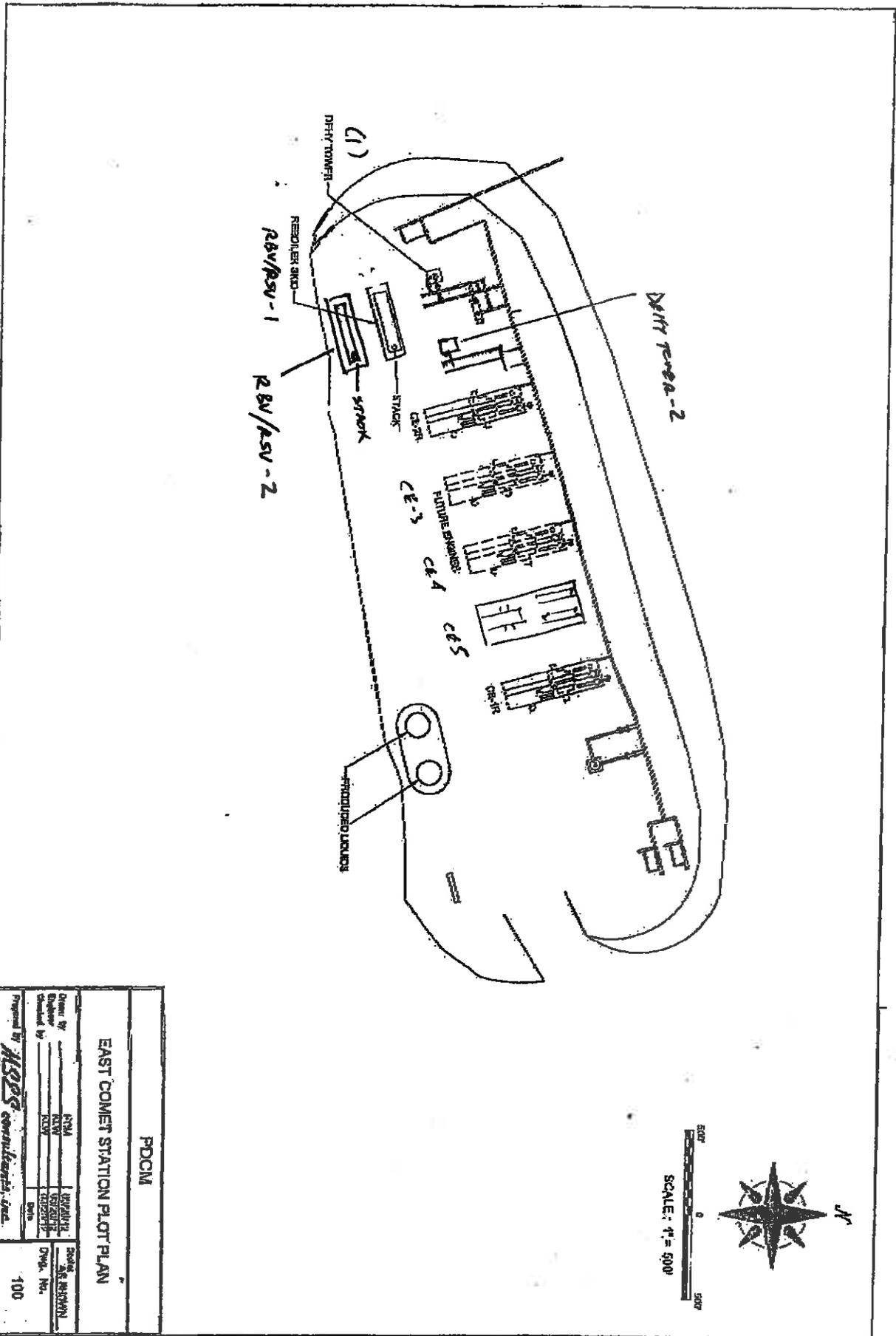


Legend
 Gas Flow
 Water Flow



ATTACHMENT D

PROCESS FLOW DIAGRAM



PDCM	
EAST COMET STATION PLOT PLAN	
Client By: <u>NSA</u>	Project: <u>NSA</u>
Drawn By: <u>NSA</u>	Scale: <u>AS SHOWN</u>
Checked By: <u>NSA</u>	DWG. No.: <u>100</u>
Prepared by: KOPS <i>consultants, Inc.</i>	

**East Comet Compressor Station
near Wendel, WV**



Reference: Google Earth V. 7.0.3.8542
Site Location: 17S 576957mE 4351092.32mN

General Permit G35-A Registration Section Applicability Form

General Permit G35-A was developed to allow qualified registrants to seek registration for a variety of sources. These sources include internal combustion engines, boilers, reboilers, line heaters, tanks, emergency generators, dehydration units not subject to MACT standards, dehydration units not subject to MACT standards and being controlled by a flare control device, dehydration units not subject to MACT standards and being controlled by recycling the dehydration unit back to flame zone of reboiler, dehydration units not subject to MACT standards being controlled by a thermal oxidizer, and permit exemptions including the less than 1 ton/year benzene exemption, the 40CFR63 Subpart HH - Annual Average Flow of Gas Exemption (3 mmscf/day), and the 40CFR63 Subpart HHH - Annual Average Flow of Gas Exemption (10 mmscf/day). All registered facilities will be subject to Sections 1.0, 1.1, 2.0, 3.0, and 4.0.

General Permit G35-A allows the registrant to choose which sections of the permit that they wish to seek registration under. Therefore, please mark which sections that you are applying for registration under. 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	Reciprocating Internal Combustion Engines (R.I.C.E.)*	<input checked="" type="checkbox"/>
Section 6	Boilers, Reboilers, and Line Heaters	<input checked="" type="checkbox"/>
Section 7	Tanks	<input checked="" type="checkbox"/>
Section 8	Emergency Generators	<input type="checkbox"/>
Section 9	Dehydration Units Not Subject to MACT Standards	<input checked="" type="checkbox"/>
Section 10	Dehydration Units Not Subject to MACT Standards and being controlled by a flare control device	<input type="checkbox"/>
Section 11	Dehydration Units Not Subject to MACT Standards being controlled by recycling the dehydration unit back to the flame zone of the reboiler	<input type="checkbox"/>
Section 12	Dehydration Units Not Subject to MACT Standards and being controlled by a thermal oxidizer	<input type="checkbox"/>
Section 13	Permit Exemption (Less than 1 ton/year of benzene exemption)	<input checked="" type="checkbox"/>
Section 14	Permit Exemption (40CFR63 Subpart HH – Annual average flow of gas exemption (3 mmscf/day))	<input type="checkbox"/>
Section 15	Permit Exemption (40CFR63 Subpart HHH – Annual average flow of gas exemption (10 mmscf/day))	<input type="checkbox"/>
Section 16	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40CFR60 Subpart JJJJ)	<input checked="" type="checkbox"/>

* Affected facilities that are subject to Section 5 may also be subject to Section 16. Therefore, if the applicant is seeking registration under both sections, please select both.

NATURAL GAS COMPRESSOR/GENERATOR ENGINE DATA SHEET

Source Identification Number ¹		CE-1R		CE-2R		CE-3R	
Engine Manufacturer and Model		CAT G3516B		CAT G3516B		CAT G3516B	
Manufacturer's Rated bhp/rpm		1380 / 1400		1380 / 1400		1380 / 1400	
Source Status ²		ES		ES		NS	
Date Installed/Modified/Removed ³		4/2012		5/2012		4/2015	
Engine Manufactured/Reconstruction Date ⁴		10/05/2011		10/12/2011		AFTER 2010 TBD	
Is this a Certified Stationary Spark Ignition Engine according to 40CFR60 Subpart JJJJ? (Yes or No) ⁵		YES		YES		YES	
Engine, Fuel and Combustion Data	Engine Type ⁶	LB4S		LB4S		LB4S	
	APCD Type ⁷	SCR		SCR		SCR	
	Fuel Type ⁸	RG		RG		RG	
	H ₂ S (gr/100 scf)	0.25		.025		0.25	
	Operating bhp/rpm	1380/1400		1380/1400		1380/1400	
	BSFC (Btu/bhp-hr)	7050		7050		7050	
	Fuel throughput (ft ³ /hr)	9447		9447		9447	
	Fuel throughput (MMft ³ /yr)	82.75		82.75		82.75	
	Operation (hrs/yr)	8760		8760		8760	
Reference ⁹	Potential Emissions ¹⁰	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
MD	NO _x	3.04	13.33	3.04	13.33	3.04	13.33
MD	CO	0.60	2.61	0.60	2.61	0.60	2.61
MD	VOC	0.64	2.79	0.64	2.79	0.64	2.79
OT	SO ₂	0.007	0.03	0.007	0.03	0.007	0.03
AP	PM ₁₀	0.10	0.43	0.10	0.43	0.10	0.43
MD	Formaldehyde	0.12	0.53	0.12	0.53	0.12	0.53

1. 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.

2. 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 |

NATURAL GAS COMPRESSOR/GENERATOR ENGINE DATA SHEET

Source Identification Number ¹		CE-4R		CE-5R			
Engine Manufacturer and Model		CAT G3516B		CAT G3516B			
Manufacturer's Rated bhp/rpm		1380 / 1400		1380 / 1400			
Source Status ²		NS		NS			
Date Installed/Modified/Removed ³		4/2015		4/2015			
Engine Manufactured/Reconstruction Date ⁴		AFTER 2010		AFTER 2010			
Is this a Certified Stationary Spark Ignition Engine according to 40CFR60 Subpart JJJJ? (Yes or No) ⁵		YES		YES			
Engine, Fuel and Combustion Data	Engine Type ⁶	LB4S		LB4S			
	APCD Type ⁷	SCR		SCR			
	Fuel Type ⁸	RG		RG			
	H ₂ S (gr/100 scf)	0.25		.025			
	Operating bhp/rpm	1380/1400		1380/1400			
	BSFC (Btu/bhp-hr)	7050		7050			
	Fuel throughput (ft ³ /hr)	9447		9447			
	Fuel throughput (MMft ³ /yr)	82.75		82.75			
Operation (hrs/yr)	8760		8760				
Reference ⁹	Potential Emissions ¹⁰	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
MD	NO _x	3.04	13.33	3.04	13.33		
MD	CO	0.60	2.61	0.60	2.61		
MD	VOC	0.64	2.79	0.64	2.79		
OT	SO ₂	0.007	0.03	0.007	0.03		
AP	PM ₁₀	0.10	0.43	0.10	0.43		
MD	Formaldehyde	0.12	0.53	0.12	0.53		

- 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
- Enter the date (or anticipated date) of the engine's installation (construction of source), modification or removal.

Source ID # ¹	Status ²	Design Heat Input (mmBtu/hr) ³	Hours of Operation (hrs/yr) ⁴	Fuel Heating Value (Btu/scf) ⁵	
NONE					

1. Enter the appropriate Source Identification Numbers (Source ID #) for each boiler or line heater located at the compressor station. Boilers should be designated BLR-1, BLR-2, BLR-3, etc. Heaters or Line Heaters should be designated HTR-1, HTR-2, HTR-3, etc. Enter glycol dehydration unit Reboiler Vent data on the *Glycol Dehydration Unit Data Sheet*.
2. Enter the Status for each boiler or line heater using the following:
 EXIST Existing Equipment
 REM Equipment Removed
 NEW Installation of New Equipment
3. Enter boiler or line heater design heat input in mmBtu/hr.
4. Enter the annual hours of operation in hours/year for each boiler or line heater.
5. Enter the fuel heating value in Btu/standard cubic foot.

STORAGE TANK DATA SHEET

Source ID # ¹	Status ²	Content ³	Volume ⁴	Dia ⁵	Throughput ⁶	Orientation ⁷	Liquid Height ⁸
T-1	EXIST	Produced Water	4200	6	21000 GPY	VERT	3
T-2	EXIST	Produced Water	4200	6	21000 GPY	VERT	3

1. Enter the appropriate Source Identification Numbers (Source ID #) for each storage tank located at the compressor station. Tanks should be designated T01, T02, T03, etc.
2. Enter storage tank Status using the following:
 EXIST Existing Equipment
 REM Equipment Removed
 NEW Installation of New Equipment
3. Enter storage tank content such as condensate, pipeline liquids, glycol (DEG or TEG), lube oil, etc.
4. Enter storage tank volume in gallons.
5. Enter storage tank diameter in feet.
6. Enter storage tank throughput in gallons per year.
7. Enter storage tank orientation using the following:
 VERT Vertical Tank
 HORZ Horizontal Tank
8. Enter storage tank average liquid height in feet.

NATURAL GAS GLYCOL DEHYDRATION UNIT DATA SHEET

General Glycol Dehydration Unit Data		Manufacturer and Model		EXTERRAN	
		Max Dry Gas Flow Rate (mmscf/day)		42	
		Design Heat Input (mmBtu/hr)		1.0	
		Design Type (DEG or TEG)		TEG	
		Source Status ²		EXIST	
		Date Installed/Modified/Removed ³		8/2014	
		Regenerator Still Vent APCD ⁴		NA	
		Fuel HV (Btu/scf)		1020	
		H ₂ S Content (gr/100 scf)		<0.25	
		Operation (hrs/yr)		8760	
Source ID # ¹	Vent	Reference ⁵	Potential Emissions ⁶	lbs/hr	tons/yr
RBV-3	Reboiler Vent	AP	NO _x	0.1	0.43
		AP	CO	0.08	0.36
		AP	VOC	0.005	0.02
		AP	SO ₂	0.0006	0.003
		AP	PM ₁₀	0.007	0.033
RSV-3	Glycol Regenerator Still Vent	GRI-GLYCalc™	VOC	0.18	0.80
		GRI-GLYCalc™	Benzene	NA	NA
		GRI-GLYCalc™	Ethylbenzene	NA	NA
		GRI-GLYCalc™	Toluene	NA	NA
		GRI-GLYCalc™	Xylenes	NA	NA
		GRI-GLYCalc™	n-Hexane	NA	NA

- Enter the appropriate Source Identification Numbers for the glycol dehydration unit Reboiler Vent and glycol Regenerator Still Vent. The glycol dehydration unit Reboiler Vent and glycol Regenerator Still Vent should be designated RBV-1 and RSV-1, respectively. If the compressor station incorporates multiple glycol dehydration units, a *Glycol Dehydration Unit Data Sheet* shall be completed for each, using Source Identification #s RBV-2 and RSV-2, RBV-3 and RSV-3, etc.
- Enter the Source Status using the following codes:

NS	Construction of New Source	ES	Existing Source
MS	Modification of Existing Source	RS	Removal of Source
- Enter the date (or anticipated date) of the glycol dehydration unit's installation (construction of source), modification or removal.
- Enter the Air Pollution Control Device (APCD) type designation using the following codes:

NA	None	CD	Condenser
FL	Flare	CC	Condenser/Combustion Combination
TO	Thermal Oxidizer		

West Virginia Department of Environmental Protection

DIVISION OF AIR QUALITY : (304) 926-0475
WEB PAGE: <http://www.wvdep.org>

Division of Air Quality

40 CFR Part 63; Subpart HH & HHH Registration Form

Complete this form for any oil and natural gas production or natural gas transmission and storage facility that uses an affected unit under HH/HHH, whether subject or not.

Section A: Facility Description			
Affected facility actual annual average natural gas throughput (scf/day): 42			
Affected facility actual annual average hydrocarbon liquid throughput (bbl/day): NA			
The affected facility processes, upgrades, or stores hydrocarbon liquids prior to custody transfer.	Yes	No	
The affected facility processes, upgrades, or stores natural gas prior to the point at which natural gas (NG) enters the NG transmission and storage source category or is delivered to the end user.	Yes	No	
The affected facility is: <input type="checkbox"/> prior to a NG processing plant <input type="checkbox"/> a NG processing plant <input type="checkbox"/> prior to the point of custody transfer and there is no NG processing plant			
The affected facility transports or stores natural gas prior to entering the pipeline to a local distribution company or to a final end user (if there is no local distribution company).	Yes	No	
The affected facility exclusively processes, stores, or transfers black oil.	Yes	No	
Initial producing gas-to-oil ratio (GOR): _____ scf/bbl API gravity: _____ degrees			
Section B: Dehydration Unit (if applicable) ¹			
Description: TEG DEHYDRATION UNIT			
Date of Installation: 2014	Annual Operating Hours: 8760	Burner rating (MMbtu/hr): 1.0	
Exhaust Stack Height (ft): 12	Stack Diameter (ft): 6.0	Stack Temp. (°F): 212	
Glycol Type: <input checked="" type="checkbox"/> TEG <input type="checkbox"/> EG <input type="checkbox"/> Other:			
Glycol Pump Type: <input type="checkbox"/> Electric <input checked="" type="checkbox"/> Gas If gas, what is the volume ratio? 0.08 ACFM/gpm			
Condenser installed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Exit Temp. _____ °F Condenser Pressure _____ psig			
Incinerator/flare installed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Destruction Eff. _____ %			
Other controls installed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe:			
Wet Gas ² : Gas Temp.: 100 °F Gas Pressure 610 psig			
(Upstream of Contact Tower) Saturated Gas? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, water content _____ lb/MMSCF			
Dry Gas: Gas Flowrate(MMSCFD) Actual _____ Design 42			
(Downstream of Contact Tower) Water Content 7.0 lb/MMSCF			
Lean Glycol: Circulation rate (gpm) Actual ³ 7.5 Maximum ⁴ _____			
Pump make/model:			
Glycol Flash Tank (if applicable): Temp.: _____ °F Pressure _____ psig Vented? Yes <input type="checkbox"/> No <input type="checkbox"/>			
If no, describe vapor control:			
Stripping Gas (if applicable): Source of gas: _____ Rate _____ scfm			

Please attach the following required dehydration unit information:

1. System map indicating the chain of custody information. See Page 43 of this document for an example of a gas flow schematic. It is not intended that the applicant provide this level of detail for all sources. The level of detail that is necessary is to establish where the custody transfer points are located. This can be accomplished by submitting a process flow diagram indicating custody transfer points and the natural gas flow. However, the DAQ reserves the right to request more detailed information in order to make the necessary decisions.
2. Extended gas analysis from the Wet Gas Stream including mole percents of C₁-C₆, benzene, ethylbenzene, toluene, xylene and n-Hexane, using Gas Processors Association (GPA) 2286 (or similar). A sample should be taken from the inlet gas line, downstream from any inlet separator, and using a manifold to remove entrained liquids from the sample and a probe to collect the sample from the center of the gas line. GPA standard 2166 reference method or a modified version of EPA Method TO-14, (or similar) should be used.
3. GRI-GLYCalc Ver. 3.0 aggregate report based on maximum Lean Glycol circulation rate and maximum throughput.
4. Detailed calculations of gas or hydrocarbon flow rate.

Section C: Facility NESHAPS Subpart HH/HHH status

	<input type="checkbox"/> Subject to Subpart HH	
Affected facility	<input type="checkbox"/> Subject to Subpart HHH	
status:	<input checked="" type="checkbox"/> Not Subject	<input checked="" type="checkbox"/> < 10/25 TPY
(choose only one)	because:	<input type="checkbox"/> Affected facility exclusively handles black oil <input type="checkbox"/> The facility wide actual annual average NG throughput is < 650 thousand scf/day and facility wide actual annual average hydrocarbon liquid is < 250 bpd <input type="checkbox"/> No affected source is present

NATURAL GAS GLYCOL DEHYDRATION UNIT DATA SHEET

General Glycol Dehydration Unit Data		Manufacturer and Model		EXTERRAN	
		Max Dry Gas Flow Rate (mmscf/day)		45	
		Design Heat Input (mmBtu/hr)		1.0	
		Design Type (DEG or TEG)		TEG	
		Source Status ²		EXIST	
		Date Installed/Modified/Removed ³		8/2014	
		Regenerator Still Vent APCD ⁴		NA	
		Fuel HV (Btu/scf)		1020	
		H ₂ S Content (gr/100 scf)		<0.25	
		Operation (hrs/yr)		8760	
Source ID # ¹	Vent	Reference ⁵	Potential Emissions ⁶	lbs/hr	tons/yr
RBV-4	Reboiler Vent	AP	NO _x	0.1	0.43
		AP	CO	0.08	0.36
		AP	VOC	0.005	0.02
		AP	SO ₂	0.0006	0.003
		AP	PM ₁₀	0.007	0.033
RSV-4	Glycol Regenerator Still Vent	GRI-GLYCalc™	VOC	0.18	0.80
		GRI-GLYCalc™	Benzene	NA	NA
		GRI-GLYCalc™	Ethylbenzene	NA	NA
		GRI-GLYCalc™	Toluene	NA	NA
		GRI-GLYCalc™	Xylenes	NA	NA
		GRI-GLYCalc™	n-Hexane	NA	NA

1. Enter the appropriate Source Identification Numbers for the glycol dehydration unit Reboiler Vent and glycol Regenerator Still Vent. The glycol dehydration unit Reboiler Vent and glycol Regenerator Still Vent should be designated RBV-1 and RSV-1, respectively. If the compressor station incorporates multiple glycol dehydration units, a *Glycol Dehydration Unit Data Sheet* shall be completed for each, using Source Identification #s RBV-2 and RSV-2, RBV-3 and RSV-3, etc.
2. Enter the Source Status using the following codes:

NS	Construction of New Source	ES	Existing Source
MS	Modification of Existing Source	RS	Removal of Source
3. Enter the date (or anticipated date) of the glycol dehydration unit's installation (construction of source), modification or removal.
4. Enter the Air Pollution Control Device (APCD) type designation using the following codes:

NA	None	CD	Condenser
FL	Flare	CC	Condenser/Combustion Combination
TO	Thermal Oxidizer		

West Virginia Department of Environmental Protection

Division of Air Quality

40 CFR Part 63; Subpart HH & HHH Registration Form

DIVISION OF AIR QUALITY : (304) 926-0475

WEB PAGE: <http://www.wvdep.org>

Complete this form for any oil and natural gas production or natural gas transmission and storage facility that uses an affected unit under HH/HHH, whether subject or not.

Section A: Facility Description			
Affected facility actual annual average natural gas throughput (scf/day): 45			
Affected facility actual annual average hydrocarbon liquid throughput: (bbl/day): NA			
The affected facility processes, upgrades, or stores hydrocarbon liquids prior to custody transfer.			Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
The affected facility processes, upgrades, or stores natural gas prior to the point at which natural gas (NG) enters the NG transmission and storage source category or is delivered to the end user.			Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
The affected facility is: <input type="checkbox"/> prior to a NG processing plant <input type="checkbox"/> a NG processing plant <input type="checkbox"/> prior to the point of custody transfer and there is no NG processing plant			
The affected facility transports or stores natural gas prior to entering the pipeline to a local distribution company or to a final end user (if there is no local distribution company).			Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
The affected facility exclusively processes, stores, or transfers black oil.			Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Initial producing gas-to-oil ratio (GOR): _____ scf/bbl API gravity: _____ degrees			
Section B: Dehydration Unit (if applicable) ¹			
Description: TEG DEHYDRATION UNIT			
Date of Installation: 2014	Annual Operating Hours: 8760	Burner rating (MMBtu/hr): 1.0	
Exhaust Stack Height (ft): 12	Stack Diameter (ft): 6.0	Stack Temp. (°F): 212	
Glycol Type:	<input checked="" type="checkbox"/> TEG <input type="checkbox"/> EG <input type="checkbox"/> Other:		
Glycol Pump Type:	<input type="checkbox"/> Electric <input checked="" type="checkbox"/> Gas	If gas, what is the volume ratio? 0.08 ACFM/gpm	
Condenser installed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Exit Temp. _____ °F	Condenser Pressure _____ psig
Incinerator/flare installed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Destruction Eff. _____ %	
Other controls installed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe:	
Wet Gas ² : (Upstream of Contact Tower)	Gas Temp.: 100 °F	Gas Pressure 610 psig	Saturated Gas? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, water content _____ lb/MMSCF
Dry Gas: (Downstream of Contact Tower)	Gas Flowrate(MMSCFD)	Actual _____ Design 42	Water Content 7.0 lb/MMSCF
Lean Glycol:	Circulation rate (gpm)	Actual ³ 7.5 Maximum ⁴ _____	Pump make/model:
Glycol Flash Tank (if applicable):	Temp.: _____ °F Pressure _____ psig	Vented? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If no, describe vapor control:
Stripping Gas (if applicable):	Source of gas:	Rate _____ scfm	

Please attach the following required dehydration unit information:

1. System map indicating the chain of custody information. See Page 43 of this document for an example of a gas flow schematic. It is not intended that the applicant provide this level of detail for all sources. The level of detail that is necessary is to establish where the custody transfer points are located. This can be accomplished by submitting a process flow diagram indicating custody transfer points and the natural gas flow. However, the DAQ reserves the right to request more detailed information in order to make the necessary decisions.
2. Extended gas analysis from the Wet Gas Stream including mole percents of C₁-C₆, benzene, ethylbenzene, toluene, xylene and n-Hexane, using Gas Processors Association (GPA) 2286 (or similar). A sample should be taken from the inlet gas line, downstream from any inlet separator, and using a manifold to remove entrained liquids from the sample and a probe to collect the sample from the center of the gas line. GPA standard 2166 reference method or a modified version of EPA Method TO-14, (or similar) should be used.
3. GRI-GLYCalc Ver. 3.0 aggregate report based on maximum Lean Glycol circulation rate and maximum throughput.
4. Detailed calculations of gas or hydrocarbon flow rate.

Section C: Facility NESHAPS Subpart HH/HHH status

	<input type="checkbox"/> Subject to Subpart HH	
Affected facility	<input type="checkbox"/> Subject to Subpart HHH	
status:	<input checked="" type="checkbox"/> Not Subject	<input checked="" type="checkbox"/> < 10/25 TPY
(choose only one)	because:	<input type="checkbox"/> Affected facility exclusively handles black oil <input type="checkbox"/> The facility wide actual annual average NG throughput is < 650 thousand scf/day and facility wide actual annual average hydrocarbon liquid is < 250 bpd <input type="checkbox"/> No affected source is present

COMPRESSOR STATION EMISSION SUMMARY SHEET FOR CRITERIA POLLUTANTS												
East Comet Compressor Station											Registration Number (Agency Use) <u>G35-A067D</u>	
Source ID No.	Potential Emissions (lbs/hr)						Potential Emissions (tons/yr)					
	NO_x	CO	VOC	SO₂	PM₁₀	PM₁₀	NO_x	CO	VOC	SO₂	PM₁₀	
CE-1R	3.04	0.60	0.64	0.01	0.10	0.10	13.33	2.61	2.79	0.03	0.42	
CE-2R	3.04	0.60	0.64	0.01	0.10	0.10	13.33	2.61	2.79	0.03	0.42	
CE-3R	3.04	0.60	0.64	0.01	0.10	0.10	13.33	2.61	2.79	0.03	0.42	
CE-4R	3.04	0.60	0.64	0.01	0.10	0.10	13.33	2.61	2.79	0.03	0.42	
CE-5R	3.04	0.60	0.64	0.01	0.10	0.10	13.33	2.61	2.79	0.03	0.42	
RBV-3	0.10	0.08	0.005	0.0006	0.007	0.007	0.43	0.36	0.02	0.003	0.033	
RSV-3			0.18						0.80			
RBV-4	0.10	0.08	0.005	0.0006	0.007	0.007	0.43	0.36	0.02	0.003	0.033	
RSV-4			0.18						0.80			
Total	15.40	3.16	3.57	0.0512	0.514	0.514	67.51	13.77	15.59	0.156	2.166	

ATTACHMENT I - EMISSION CALCULATIONS

Date: February 16, 2015

Owner of Source: MK Midstream Holdings, LLC. Site: East Comet Compressor Station

County: Taylor

Latitude/Longitude: 39.3042 N / 80.1074 W

Mass Emission Calculations for a Natural Gas Engine Stationary Source (CE-1R)

Make Caterpillar Model G3516B BHP 1380 RPM 1400

Engine Build Date (EBD) All After 1/1/2010 NSPS Applicable SN# 4EK???

Emission Controls:

Catalyst (Y/N) Y Make DCL Model DC-65

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

Fuel /Heat Input (BTU/bhp-hr) 7301 BTU/scf 1017 SCF/hr 10,049

Heat Input (MMBTU/hr) 10.01

EPA AP-42 Uncontrolled Emission Factors for 4SLB from Table 3.2-2

Pollutant	grams/bhp-hr (lb/MMBTU)	lb/hr g *BHP/453.5924	Ton/Year lb/hr*8760/2000	Method OEM/AP-42
NOx	1.00	3.04	13.33	OEM
CO	0.20	0.60	2.61	OEM
VOC	0.21	0.64	2.79	OEM
HCHO	0.04	0.12	0.53	OEM
PM(10)	0.0317 (9.91E-03)	0.10	0.42	AP-42
SOx	0.002 (5.88E-04)	0.007	0.03	AP-42
CO2(e) GHG CH4	NA	NA	6313 Tons 253 Tons	EPA Website

Totals within General Permit Registration are for CE-1R, 2R, 3R, 4R & 5R x 5 engines

ATTACHMENT I – EMISSION CALCULATIONS

Date: February 16, 2015

Owner of Source: MK Midstream Holdings, LLC. Site: East Comet Compressor Station

County: Taylor

Latitude/Longitude: 39.3042 N / 80.1074 W

Mass Emission Calculations for a Natural Gas Engine Stationary Source (RBV/RSV-3)

Make Exterran Model TEG 1.0 BHP NA RPM NA

RBV/RSV- 3 (42.0 MMCFD)

RBV/RSV- 4 (45.0 MMCFD)

Emission Controls: No

Natural Gas Combustion Sources Small Boiler

Heat Input (MMBTU/hr) 1.0

EPA AP-42 NG Combustion Sources Table 1.4-1

Pollutant	lb/10 ⁶ SCF/ 1020	lb/hr	Ton/Year	Method AP-42
NOx	100	0.10	0.43	AP-42
CO	84	0.08	0.36	AP-42
VOC	5.5	0.005	0.02	AP-42
VOC - RSV		0.18	0.80	Gly-Calc 4.0
HCHO	0.075	NA	NA	AP-42
PM(10)	7.6	0.007	0.033	AP-42
SOx	0.6	0.0006	0.003	AP-42
CO2(e)	120,000	118	515	AP-42
GHG				
CH4	2.3	0.002	0.01	

Emissions are Per TEG Dehydrator – Two (2) at this site

ATTACHMENT I

MK Midstream Comet Dehy RBV-RSV-3

GRI-GLYCALc VERSION 4.0 - SUMMARY OF INPUT VALUES

Case Name: MK Midstream East Comet RSV-3 & RBV -4
File Name: C:\GLYCALC\MK Midstream Goff West 1 & 2.ddf
Date: February 23, 2015

DESCRIPTION:

Description: Two (2) 1.0 MMBTU/hr reboilers,
Each Possible of 42 & 45 MMCFD

Annual Hours of Operation: 8760.0 hours/yr

WET GAS:

Temperature: 100.00 deg. F
Pressure: 610.00 psig
Wet Gas Water Content: Saturated

Component	Conc. (vol %)
Carbon Dioxide	0.3900
Nitrogen	0.3360
Methane	97.3230
Ethane	1.8950
Propane	0.0560

DRY GAS:

Flow Rate: 45.0 MMSCF/day
Water Content: 7.5 lbs. H₂O/MMSCF

LEAN GLYCOL:

Glycol Type: TEG
Water Content: 1.5 wt% H₂O
Flow Rate: 7.5 gpm

PUMP:

Glycol Pump Type: Gas Injection
Gas Injection Pump Volume Ratio: 0.080 acfm gas/gpm glycol

ATTACHMENT I

MK Midstream Comet Dehy Aggregate

GRI-GLYCalc VERSION 4.0 - AGGREGATE CALCULATIONS REPORT

Case Name: MK Midstream East Comet RSV-3 & RBV -4
 File Name: C:\GLYCALC\MK Midstream Goff West 1 & 2.ddf
 Date: February 23, 2015

DESCRIPTION:

Description: Two (2) 1.0 MMBTU/hr reboilers,
 Each Possible of 42 & 45 MMCFD

Annual Hours of Operation: 8760.0 hours/yr

EMISSIONS REPORTS:

UNCONTROLLED REGENERATOR EMISSIONS

Component	lbs/hr	lbs/day	tons/yr
Methane	70.8419	1700.205	310.2874
Ethane	3.3361	80.065	14.6119
Propane	0.1831	4.393	0.8018
Total Emissions	74.3610	1784.663	325.7011
Total Hydrocarbon Emissions	74.3610	1784.663	325.7011
Total VOC Emissions	0.1831	4.393	0.8018

PER DSHY *PER DSHY*

EQUIPMENT REPORTS:

ABSORBER

NOTE: Because the Calculated Absorber Stages was below the minimum allowed, GRI-GLYCalc has set the number of Absorber Stages to 1.25 and has calculated a revised Dry Gas Dew Point.

Calculated Absorber Stages: 1.25
 Calculated Dry Gas Dew Point: 6.15 lbs. H2O/MMSCF

Temperature: 100.0 deg. F
 Pressure: 610.0 psig
 Dry Gas Flow Rate: 45.0000 MMSCF/day
 Glycol Losses with Dry Gas: 0.2955 lb/hr
 Wet Gas Water Content: Saturated
 Calculated Wet Gas Water Content: 84.76 lbs. H2O/MMSCF
 Calculated Lean Glycol Recirc. Ratio: 3.05 gal/lb H2O

Component	Remaining in Dry Gas	Absorbed in Glycol
Water	7.24%	92.76%
Carbon dioxide	99.84%	0.16%
Nitrogen	99.99%	0.01%
Methane	99.99%	0.01%
Ethane	99.96%	0.04%
Propane	99.93%	0.07%

ATTACHMENT I

MK Midstream Comet Dehy Aggregate

REGENERATOR

No Stripping Gas used in regenerator.

Component	Remaining in Glycol	Distilled Overhead
Water	30.00%	70.00%
Carbon Dioxide	0.00%	100.00%
Nitrogen	0.00%	100.00%
Methane	0.00%	100.00%
Ethane	0.00%	100.00%
Propane	0.00%	100.00%

STREAM REPORTS:

WET GAS STREAM

Temperature: 100.00 deg. F
 Pressure: 624.70 psia
 Flow Rate: 1.88e+006 scfh

Component	Conc. (vol%)	Loading (lb/hr)
Water	1.79e-001	1.59e+002
Carbon Dioxide	3.89e-001	8.48e+002
Nitrogen	3.35e-001	4.65e+002
Methane	9.71e+001	7.71e+004
Ethane	1.89e+000	2.82e+003
Propane	5.59e-002	1.22e+002
Total Components	100.00	8.16e+004

DRY GAS STREAM

Temperature: 100.00 deg. F
 Pressure: 624.70 psia
 Flow Rate: 1.88e+006 scfh

Component	Conc. (vol%)	Loading (lb/hr)
Water	1.30e-002	1.15e+001
Carbon Dioxide	3.89e-001	8.47e+002
Nitrogen	3.36e-001	4.65e+002
Methane	9.73e+001	7.71e+004
Ethane	1.89e+000	2.82e+003
Propane	5.60e-002	1.22e+002
Total Components	100.00	8.14e+004

LEAN GLYCOL STREAM

Temperature: 100.00 deg. F
 Flow Rate: 7.50e+000 gpm

ATTACHMENT I

MK Midstream Comet Dehy Aggregate

Component	Conc. (wt%)	Loading (lb/hr)
TEG	9.85e+001	4.16e+003
Water	1.50e+000	6.33e+001
Carbon Dioxide	3.13e-012	1.32e-010
Nitrogen	1.27e-013	5.34e-012
Methane	6.69e-018	2.83e-016
Ethane	1.18e-008	4.99e-007
Propane	8.12e-011	3.43e-009
Total Components	100.00	4.22e+003

RICH GLYCOL AND PUMP GAS STREAM

Temperature: 100.00 deg. F
 Pressure: 624.70 psia
 Flow Rate: 7.96e+000 gpm
 NOTE: Stream has more than one phase.

Component	Conc. (wt%)	Loading (lb/hr)
TEG	9.35e+001	4.16e+003
Water	4.75e+000	2.11e+002
Carbon Dioxide	4.52e-002	2.01e+000
Nitrogen	9.67e-003	4.30e-001
Methane	1.59e+000	7.08e+001
Ethane	7.51e-002	3.34e+000
Propane	4.12e-003	1.83e-001
Total Components	100.00	4.45e+003

REGENERATOR OVERHEADS STREAM

Temperature: 212.00 deg. F
 Pressure: 14.70 psia
 Flow Rate: 4.86e+003 scfh

Component	Conc. (vol%)	Loading (lb/hr)
Water	6.41e+001	1.48e+002
Carbon Dioxide	3.56e-001	2.01e+000
Nitrogen	1.20e-001	4.30e-001
Methane	3.45e+001	7.08e+001
Ethane	8.67e-001	3.34e+000
Propane	3.24e-002	1.83e-001
Total Components	100.00	2.25e+002

ATTACHMENT J

**AIR QUALITY PERMIT NOTICE
Notice of Application**

Notice is given that MK Midstream Holdings, LLC. has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for General Registration Modification Update G35-A067D Plant ID# 091-00034 for East Comet, a Natural Gas Compressor Station located near Wendel Road, Route 50E, near the town of Wendel, in Taylor County, West Virginia.

The applicant estimates the increased potential to discharge the following Regulated Air Pollutants will be: NO_x = 67.51 TPY, CO = 13.77 TPY, VOC's = 15.59 TPY, HCHO = 2.65 TPY, SOX = 0.156 TPY & PM10 = 2.166 TPY GHG (CO₂ (e)) = 32,595 TPY, GHG (CH₄) = 1265 TPY

Latitude 39.3042N
Longitude 80.1074W

Startup of and operation to begin on or about the 15th day of April, 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 18th day of February, 2015.

By: MK Midstream Holdings, LLC
Joe McConnell
Manager of Compression Operations
45 Professional Place
Bridgeport, WV 26330

MK Midstream Holdings Operating Acc

MK Midstream Holdings LLC
 6031 Wallace Road Extension, Suite 300
 Wexford PA 15090
 724-940-1100

TEXAS CAPITAL BANK

32-1797
 1110

Check No	Check Date	Check Amount
0000001041	02/20/2015	*****\$1,500.00

COPY

PAY *One Thousand Five Hundred Dollars and Zero Cents*

Void After 90 Days

TO THE ORDER OF
 WEST VIRGINIA DEP
 601 57TH STREET, SE
 CHARLESTON WV 25304

Chuck M. Holt

⑈0000001041⑈ ⑆111017979⑆ 3111033852⑈

PLEASE DETACH AT PERFORATION ABOVE

PLEASE DETACH AT PERFORATION ABOVE

MK Midstream Holdings LLC

6031 Wallace Road Extension, Suite 300
 Wexford PA 15090
 724-940-1100



Check Number 0000001041

Invoice #	Inv. Date	Description	Amount	Discount	Net Amount
Comet02182015	02/18/2015		1,500.00	0.00	1,500.00

0000082 ← Owner Check Date: 02/20/2015 Check Amount → 1,500.00

ATTACHMENT L

PLEASE ATTACH A CHECK PAYABLE TO:

“WVDEP – DIVISION OF AIR QUALITY”

AMOUNT: \$500 APPLICATION + \$1,000 NSPS = \$1,500



G3516B LE Gas Petroleum Engine

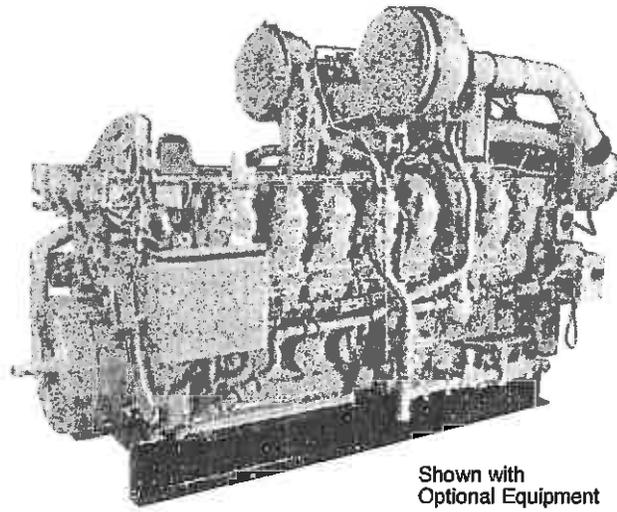
1029 bkW (1380 bhp)
1400 rpm

0.5 g/bhp-hr NOx or 1.0 g/bhp-hr NOx (NTE)

CAT® ENGINE SPECIFICATIONS

V-16, 4-Stroke-Cycle

Bore	170 mm (6.7 in.)
Stroke	190 mm (7.5 in.)
Displacement.....	69.3 L (4230 cu. in.)
Aspiration	Turbocharged-2 Stage Aftercooled
Digital Engine Management	
Governor and Protection.....	Electronic (ADEM™ A3)
Combustion.....	Low Emission (Lean Burn)
Engine Weight, net dry (approx)....	8401 kg (18,520 lb)
Power Density	8.2 kg/kW (13.4 lb/hp)
Power per Displacement.....	19.9 bhp/L
Total Cooling System Capacity.....	221.5 L (58.5 gal)
Jacket Water	204.4 L (54 gal)
SCAC.....	17 L (4.5 gal)
Lube Oil System (refill)	424 L (112 gal)
Oil Change Interval	1000 hour
Rotation (from flywheel end)	Counterclockwise
Flywheel and Flywheel Housing.....	SAE No. 00
Flywheel Teeth	183



Shown with
Optional Equipment

FEATURES

Engine Design

- Built on G3500 LE proven reliability and durability
- Ability to burn a wide spectrum of gaseous fuels
- Robust diesel strength design prolongs life and lowers owning and operating costs
- Broad operating speed range at lower site air densities (high altitude/hot ambient temperatures)
- Higher power density improves fleet management
- Quality engine diagnostics
- Detonation-sensitive timing control for individual cylinders

Ultra Lean Burn Technology (ULB)

ULB technology uses an advanced control system, a better turbo match, improved air and fuel mixing, and a more sophisticated combustion recipe to provide:

- Lowest engine-out emissions
- Highest fuel efficiency
- Improved altitude and speed turndown
- Stable load acceptance and load rejection

Emissions

- Meets U.S. EPA Spark Ignited Stationary NSPS emissions for 2010
- Lean air/fuel mixture provides best available emissions and fuel efficiency for engines of this bore size

Advanced Digital Engine Management

ADEM A3 engine management system integrates speed control, air/fuel ratio control, and ignition/detonation controls into a complete engine management system. ADEM A3 has improved: user interface, display system, shutdown controls, and system diagnostics.

Full Range of Attachments

Large variety of factory-installed engine attachments reduces packaging time.

Testing

Every engine is full-load tested to ensure proper engine performance.

Gas Engine Rating Pro

GERP is a PC-based program designed to provide site performance capabilities for Cat® natural gas engines for the gas compression industry. GERP provides engine data for your site's altitude, ambient temperature, fuel, engine coolant heat rejection, performance data, installation drawings, spec sheets, and pump curves.

Product Support Offered Through Global Cat Dealer Network

- More than 2,200 dealer outlets
- Cat factory-trained dealer technicians service every aspect of your petroleum engine
- Cat parts and labor warranty
- Preventive maintenance agreements available for repair-before-failure options

S-O-SSM program matches your oil and coolant samples against Caterpillar set standards to determine:

- Internal engine component condition
- Presence of unwanted fluids
- Presence of combustion by-products
- Site-specific oil change interval

Over 80 Years of Engine Manufacturing Experience

- Over 60 years of natural gas engine production
- Ownership of these manufacturing processes enables Caterpillar to produce high quality, dependable products
- Cast engine blocks, heads, cylinder liners, and flywheel housings
- Machine critical components
- Assemble complete engine

Web Site

For all your petroleum power requirements, visit www.catoilandgas.cat.com.

STANDARD EQUIPMENT

Air Inlet System

Axial flow air cleaners
Service indicator
Cleanable

Cooling System

Two-stage charge air cooling:
First stage — JW + OC + 1st stage AC
Second stage — 2nd stage AC
Engine cooling and charge air cooling thermostats

Exhaust System

Dry exhaust manifolds and turbocharger housings

Flywheels and Housings

SAE 00 flywheel
SAE 00 flywheel housing
SAE standard rotation

Fuel System

Electronic fuel metering valve
Requires 7-50 psig gas supply
Gas pressure regulator
Gas shutoff valve

Instrumentation

Remote-mounted Advisor control panel
Interconnect harness

Lube System

Top-mounted crankcase breathers
Oil cooler
Oil filter and oil sampling valve
Drain valve
Turbo oil accumulator
API B16.3 approved gas/air-driven pre-lube system

Torsional Vibration Analysis

Caterpillar provided
Required through first quarter 2010

Mounting

Rails

Control Panels

4" LCD Advisor display panel
Shipped loose

Starting System

90 psi TDI starter
150 psi TDI starter

Power Take-Offs

Front housing, two sided
Front lower LH accessory drive

Protection System — Display/Alarm/Shutdown

Low oil pressure
Oil filter differential pressure
High fuel or oil temperature
Engine oil to engine coolant
Differential temperature
High coolant temperature
Engine speed
Engine load
Battery voltage
Detonation
Manifold air temperature
Coolant JW inlet/outlet pressure
Left turbo inlet temperature
Right turbo inlet temperature
Cylinder port temperature

Protection System — Display Only

Service hours
Oxygen level

General

Paint — Cat yellow
Dual 23" vibration damper with guard
CSA Certification, Class 1 Division 2 Groups C and D

OPTIONAL EQUIPMENT

Air Inlet System

Rectangular air inlet adapter
Circular air inlet adapter

Charging System

Battery Charger 20 amp

Connections

Mechanical joint assembly
Inlet connection

Exhaust System

Flexible fittings available at first production build
Elbows and mufflers

Instrumentation

Optional interconnect harness

Lube System

Shipped with lube oil

Mounting System

Rails

Power Take-Offs

Front stub shaft

Literature

Options available

Packing

TECHNICAL DATA

G3516B LE Gas Petroleum Engine — 1400 rpm***

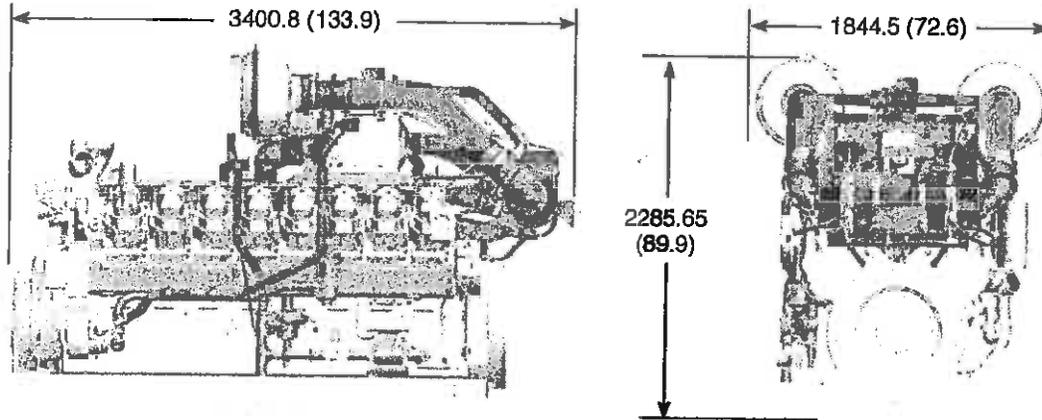
Fuel System		0.5 g NOx NTE Rating DM8800-03	1.0 g NOx NTE Rating DM8850-02
Engine Power			
@ 100% Load	bkW (bhp)	1029 (1380)	1029 (1380)
Engine Speed			
Max Altitude @ Rated Torque and 38°C (100°F)	rpm	1400	1400
Speed Turndown @ Max Altitude, Rated Torque, and 38°C (100°F)	m (ft)	1219.2 (4000)	1828.8 (6000)
	%	25	25
Aftercooler Temperature			
Stage 1 (JW)	°C (°F)	98.9 (210)	98.9 (210)
Stage 2 (SCAC)	°C (°F)	54 (130)	54 (130)
Emissions*			
NOx	g/bkW-hr (g/bhp-hr)	0.67 (0.50)	1.34 (1.00)
CO	g/bkW-hr (g/bhp-hr)	3.26 (2.43)	3.75 (2.80)
CO ₂	g/bkW-hr (g/bhp-hr)	635 (474)	603 (449)
VOC**	g/bkW-hr (g/bhp-hr)	0.64 (0.48)	0.51 (0.38)
Fuel Consumption***			
@ 100% Load	MJ/bkW-hr (Btu/bhp-hr)	10.33 (7301)	9.97 (7050)
Heat Balance			
Heat Rejection to Jacket Water			
@ 100% Load			
JW	bkW (Btu/mn)	412.37 (23,451)	418.9 (23,820)
OC	bkW (Btu/mn)	78.2 (4449)	78.2 (4449)
Heat Rejection to Aftercooler			
@ 100% Load			
1st Stage AC	bkW (Btu/mn)	94.23 (5359)	78.55 (4467)
2nd Stage AC	bkW (Btu/mn)	176.7 (10,047)	157.9 (8984)
Heat Rejection to Exhaust			
@ 100% Load LHV to 25° C (77° F)	bkW (Btu/mn)	1098 (62,428)	1021.9 (58,113)
Heat Rejection to Atmosphere			
@ 100% Load	bkW (Btu/mn)	107.34 (6110)	107.34 (6110)
Exhaust System			
Exhaust Gas Flow Rate			
@ 100% Load	m ³ /min (cfm)	258.4 (9126)	246.8 (8716)
Exhaust Stack Temperature			
@ 100% Load	°C (°F)	533.33 (992)	532.22 (990)
Intake System			
Air Inlet Flow Rate			
@ 100% Load	m ³ /min (scfm)	88.52 (3126)	84.70 (2991)
Gas Pressure			
	kPag (psig)	48-345 (7-50)	48-345 (7-50)

*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 3046/1

DIMENSIONS



DIMENSIONS		
Length	mm (in.)	3400.8 (133.9)
Width	mm (in.)	1844.55 (72.6)
Height	mm (in.)	2285.65 (89.9)
Shipping Weight	kg (lb)	8401 (18,520)

Note: General configuration not to be used for installation.

Dimensions are in mm (inches).

RATING DEFINITIONS AND CONDITIONS

Engine performance is obtained in accordance with SAE J1995, ISO3046/1, BS5514/1, and DIN6271/1 standards.

Transient response data is acquired from an engine/generator combination at normal operating temperature and in accordance with ISO3046/1 standard ambient conditions. Also in accordance with SAE J1995, BS5514/1, and DIN6271/1 standard reference conditions.

Conditions: Power for gas engines is based on fuel having an LHV of 33.74 kJ/L (905 Btu/cu ft) at 101 kPa (29.91 in. Hg) and 15° C (59° F). Fuel rate is based on a cubic meter at 100 kPa (29.61 in. Hg) and 15.6° C (60.1° F). Air flow is based on a cubic foot at 100 kPa (29.61 in. Hg) and 25° C (77° F). Exhaust flow is based on a cubic foot at 100 kPa (29.61 in. Hg) and stack temperature.

Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication. CAT, CATERPILLAR, their respective logos, ADEM, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.



DCL International Inc.

Mailing address: P.O. Box 90, Concord, Ontario, Canada, L4K 1B2
Toll free: 1-800-872-1968 Phone: 905-660-6450 Fax: 905-660-6435 E-mail: info@dcl-inc.com

To	Mark Davis	Phone	
	J-W Power	Fax	
Date	January 4, 2010	Email	mdavis@jwenergy.com

RE: EMISSIONS GUARANTEE

Mark,

We hereby guarantee that our QUICK-LID™ Model DC65A-12 catalytic converter described below:

Catalyst model	DC65
Catalyst coating	Oxidation (A coating)
Outside Diameter of catalyst substrate	30.75"
No. of catalyst substrates	1
Cell Density	300 cpsi

and sized for the following engine:

Engine model	CAT G3516 ULB
Power	1380 hp @ 1400 rpm
Fuel	Pipeline Quality Natural Gas

will perform as follows:

Emissions	After Catalyst (% destruction)
Carbon Monoxide (CO)	93%
Formaldehyde (CH ₂ O)	90%
Volatile Organic Compounds	80%

for a period of 1 year or 8000 hours, whichever comes first, subject to all terms and conditions contained in the attached warranty document being respected and met.

Best regards,
DCL International, Inc.

Tawnya VanGroningen
Account Manager
North American Industrial Catalyst Division

Quote#16-1558

FESCO, Ltd.
 1100 Fesco Ave. - Alice, Texas 78332

Sample: Comet Compressor
 Inlet to Dehydrator
 Sampled @ 610 psig & 130 °F

Date Sampled: 02/13/2013

Job Number: 31851.005

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286

COMPONENT	MOL%	GPM
Nitrogen	0.336	
Carbon Dioxide	0.390	
Methane	97.323	
Ethane	1.896	0.504
Propane	0.056	0.015
Isobutane	0.000	0.000
n-Butane	0.000	0.000
2-2 Dimethylpropane	0.000	0.000
Isopentane	0.000	0.000
n-Pentane	0.000	0.000
Hexanes Plus	<u>0.000</u>	<u>0.000</u>
Totals	100.000	0.519

Computed Real Characteristics Of Hexanes Plus:

Specific Gravity ----- (Air=1)
 Molecular Weight -----
 Gross Heating Value ----- BTU/CF

Computed Real Characteristics Of Total Sample:

Specific Gravity ----- 0.570 (Air=1)
 Compressibility (Z) ----- 0.9979
 Molecular Weight ----- 16.47
 Gross Heating Value
 Dry Basis ----- 1017 BTU/CF
 Saturated Basis ----- 1000 BTU/CF

Base Conditions: 14.650 PSI & 60 Deg F

Certified: FESCO, Ltd. - Alice, Texas

Analyst: MR
 Processor: HH
 Cylinder ID: T-3143

 David Dannhaus 361-661-7015

**CHROMATOGRAPH EXTENDED ANALYSIS
TOTAL REPORT**

COMPONENT	MOL %	GPM	WT %
Nitrogen	0.336		0.571
Carbon Dioxide	0.390		1.042
Methane	97.323		94.778
Ethane	1.895	0.504	3.459
Propane	0.056	0.015	0.150
Isobutane	0.000	0.000	0.000
n-Butane	0.000	0.000	0.000
2,2 Dimethylpropane	0.000	0.000	0.000
Isopentane	0.000	0.000	0.000
n-Pentane	0.000	0.000	0.000
2,2 Dimethylbutane	0.000	0.000	0.000
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.000	0.000	0.000
2 Methylpentane	0.000	0.000	0.000
3 Methylpentane	0.000	0.000	0.000
n-Hexane	0.000	0.000	0.000
Methylcyclopentane	0.000	0.000	0.000
Benzene	0.000	0.000	0.000
Cyclohexane	0.000	0.000	0.000
2-Methylhexane	0.000	0.000	0.000
3-Methylhexane	0.000	0.000	0.000
2,2,4 Trimethylpentane	0.000	0.000	0.000
Other C7's	0.000	0.000	0.000
n-Heptane	0.000	0.000	0.000
Methylcyclohexane	0.000	0.000	0.000
Toluene	0.000	0.000	0.000
Other C8's	0.000	0.000	0.000
n-Octane	0.000	0.000	0.000
Ethylbenzene	0.000	0.000	0.000
M & P Xylenes	0.000	0.000	0.000
O-Xylene	0.000	0.000	0.000
Other C9's	0.000	0.000	0.000
n-Nonane	0.000	0.000	0.000
Other C10's	0.000	0.000	0.000
n-Decane	0.000	0.000	0.000
Undecanes (11)	<u>0.000</u>	<u>0.000</u>	<u>0.000</u>
Totals	100.000	0.519	100.000

Computed Real Characteristics of Total Sample

Specific Gravity	0.570	(Air=1)
Compressibility (Z)	0.9979	
Molecular Weight	16.47	
Gross Heating Value		
Dry Basis	1017	BTU/CF
Saturated Basis	1000	BTU/CF



STATION
PURCHASED
BY MK MIDSTREAM, LLC

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.wvdep.org

July 17, 2014

CERTIFIED MAIL
91 7199 9991 7032 6258 5772

Joe McConnell
PO Box 26
Bridgeport, WV 26330

RE: Approved Registration G35-A
G35-A067D
PDC Mountaineer, LLC
East Comet Station
Facility ID No. 091-00034

Dear Mr. McConnell:

The Director has determined that the submitted Registration Application and proposed modification and operation of a natural gas compressor station demonstrates eligibility and compliance with the requirements, provisions, standards and conditions of General Permit G35-A and hereby grants General Permit registration authorizing the proposed activity.

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. 1224.

Sincerely,

David Keatley
Permit Writer -NSR Permitting

Enclosures: Registration G35-A067D
General Permit G35-A

This Class II General Permit Registration will supersede and replace G35A-A067C

Facility Location: near Wendel, Taylor County, West Virginia
Mailing Address: PO Box 26
Bridgeport, WV 26330
Facility Description: Natural gas compressor station
SIC Codes: 1311
UTM Coordinates: 576.957 km Easting • 4,350.915 km Northing • Zone 17
Registration Type: Modification
Description of Change: Permitting of a 45 MMscf/day TEG dehydration unit with associated 1.00 MMBTU/hr reboiler, one (1) 1.00 MMBTU/hr, and removal of one (1) 0.5 MMBTU/hr reboiler.

Subject to 40CFR60 Subpart IIII? No

Subject to 40CFR60 Subpart JJJJ? Yes, not certified

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.

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

Emission Unit ID	Subject to 40CFR60 Subpart IIII?	Subject to 40CFR60 Subpart JJJJ?	Subject to Sections 5.1.4./5.2.1. (Catalytic Reduction Device)
CE-1R	No	Yes	Yes
CE-2R	No	Yes	Yes
CE-3R	No	Yes	No
CE-4R	No	Yes	No

Emission Limitations

Source ID	Emission Source	Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (tpy)
CE-1R	Caterpillar G3516B LE DM8850-2	Nitrogen Oxides	3.04	13.33
		Carbon Monoxide	0.60	2.61
		Volatile Organic Compounds	0.64	2.79
		Formaldehyde	0.12	0.53
CE-2R	Caterpillar G3516B LE DM8850-2	Nitrogen Oxides	3.04	13.33
		Carbon Monoxide	0.60	2.61
		Volatile Organic Compounds	0.64	2.79
		Formaldehyde	0.12	0.53
CE-3R	Caterpillar G3508 TALE	Nitrogen Oxides	2.95	12.94
		Carbon Monoxide	2.73	11.97
		Volatile Organic Compounds	0.44	1.94
		Formaldehyde	0.27	1.16
CE-4R	Caterpillar G3508 TALE	Nitrogen Oxides	2.95	12.94
		Carbon Monoxide	2.73	11.97
		Volatile Organic Compounds	0.44	1.94
		Formaldehyde	0.27	1.16
RBV-3	TEG Dehydrator Reboiler	Nitrogen Oxides	0.10	0.43
		Carbon Monoxide	0.08	0.36
RSV-3	TEG Dehydration Still Vent	Volatile Organic Compounds	0.37	1.60
RBV-4	TEG Dehydrator Reboiler	Nitrogen Oxides	0.10	0.43
		Carbon Monoxide	0.08	0.36
RSV-4	TEG Dehydration Still Vent	Volatile Organic Compounds	0.37	1.60

February 18, 2015

DRAFT

Mr. William F. Durham
West Virginia Department of Environmental Protection
Division of Air Quality
601 – 57th Street
Charleston, WV 35304

Re: Transfer of Permit(s)

East Comet	G35-A067D	Plant ID # 091-00034
Goff West	G35-A107	Plant ID # 033-00187

Corporation's Federal Employer I.D. Number 47-1919654

Dear Mr. Durham - Director:

We are by this letter advising you that we, MK Midstream Holdings, LLC, have purchased both compressor stations listed above:

- East Comet Station located at Wendel Road, RT 50E Wendel, Taylor County, WV
- Goff West Station located at Davisson Run Road, Clarksburg, Harrison County, WV

From Petroleum Development Corporation effective January 1, 2014. However, the name of the facilities will remain the same along with permit numbers and plant ID numbers

The previous owners of the identical facilities were granted General Permit Registration to construct these facilities back in 2011, and have provided our company with a copy of the permit application and permit No.'s G35A-067D & G35-A107.

We have reviewed both applications and the permits and understand the facilities permitted design conditions, emission limitations and other required operating conditions established within the applications and/or permits. We agree to abide by and comply with all these provisions, and therefore, request that you acknowledge transfer of permit G35-A067D & G35-A107 to our company.

The previous owner will confirm the transfer of ownership and will request your acknowledgment of the transfer of the permit to our company. If you have any questions concerning this matter, please contact my office at 724-940-1100.

Also attached is a written agreement between MK Midstream Holdings, LLC and Petroleum Development Corporation reflecting the date of transfer of the permits and permit responsibility.

The correct company name, address and telephone number to be referenced or included on any further correspondence are: MK Midstream Holdings, LLC
6031 Wallace Road Extension, Suite 300
Wexford, PA 15090

Sincerely,

Len Paugh