

# Fact Sheet



*For Final Renewal Permitting Action Under 45CSR30 and  
Title V of the Clean Air Act*

Permit Number: **R30-10300033-2007**

Application Received: **May 15, 2002**

Plant Identification Number: **03-54-103-00033**

Permittee: **Equitrans, L. P.**

Facility Name: **Logansport #49 Compressor Station**

Mailing Address: **100 Allegheny Center Mall, Pittsburgh, PA 15212-5331**

Physical Location:

Smithfield, Wetzel County, West Virginia

UTM Coordinates:

465.20 km Easting • 4207.20 km Northing • Zone 17

Directions:

~~Traveling East on West Virginia State Route 61 from Charleston, turn right onto secondary route 79/3 (Cabin Creek). Proceed to the village of Leewood and bear left toward the village of Decota. Keep left at Decota and go across railroad tracks. The station is located approximately 2 miles on the left on Logansport #49 Fuel Co. Road~~

Interstate 79 North to the Downtown Fairmont Exit (Number 137). Bear to the right on off ramp and merge into left lane prior to stop light. Make left at stop light and stay on Route 310 for 3 stop lights. Make right turn onto bridge at 3rd light. Go up the hill at stop light after crossing bridge. Go thru 2nd stop light. Make a left at next stop light. Bear to the right hand lane for two stop lights and make a right onto Route 250 North. Stay on Route 250N to Mannington. In Mannington after passing Rite Aid (on right), make left hand turn onto Market street. At the Y at the end of Market Street, bear right onto Buffalo Road and continue on this road past Mannington Fairgrounds into the community of Logansport. After leaving Logansport make a left hand turn onto an old one lane bridge (2nd left after Logansport) to Rymer & Brink Road. In Rymer at the Y (nice brick home in middle of Y), bear to the left. At the top of Brink Road you will cross into Wetzel County, the station is located in Mobley about 4 miles into Wetzel County from top of Brink Hill.

## Facility Description

The Logansport #49 Station is a natural gas transmission facility covered by NAICS 48210 and SIC 4922. The station has the potential to operate seven (7) days per week, twenty-four (24) hours per day. The station consists of two (2) 800-hp natural gas internal combustion reciprocating engine, one (1) heating boiler, one (1) hot water tank, two (2) electric generators, two (2) dehydrator boilers, one (1) dehydrator heater, and five (5) tanks of various sizes. The Logansport #49 CS is used to compress storage gas.

## Emissions Summary

Plantwide Emissions Summary [Tons per Year]		
Regulated Pollutants	Potential Emissions	2006 Actual Emissions
Carbon Monoxide (CO)	26.1608	6.5903
Nitrogen Oxides (NO <sub>x</sub> )	196.6142	44.0564
Particulate Matter (PM <sub>10</sub> )	2.4397	0.7751
Total Particulate Matter (TSP)	3.1841	0.7751
Sulfur Dioxide (SO <sub>2</sub> )	0.0544	0.0181
Volatile Organic Compounds (VOC)	178.0191	2.7522
<i>PM<sub>10</sub> is a component of TSP.</i>		
Hazardous Air Pollutants	Potential Emissions	2006 Actual Emissions
Benzene	0.8386	0.0619
Ethyl Benzene	0.0066	0.00
Formaldehyde	4.5414	1.6058
Hexane	0.7385	0.0649
Naphthalene	0.0059	0.0001
Toluene	4.2970	0.2249
Xylenes	8.5486	0.4302
Total	18.9766	2.389
<i>Some of the above HAPs may be counted as PM or VOCs.</i>		

## Title V Program Applicability Basis

This facility has the potential to emit 446.76 tons per year of NO<sub>x</sub>. Due to this facility's potential to emit over 100 tons per year of criteria pollutant, Equitrans, L. P. is required to have an operating permit pursuant to Title V of the Federal Clean Air Act as amended and 45CSR30.

## Legal and Factual Basis for Permit Conditions

The State and Federally-enforceable conditions of the Title V Operating Permits are based upon the requirements of the State of West Virginia Operating Permit Rule 45CSR30 for the purposes of Title V of the Federal Clean Air Act and the underlying applicable requirements in other state and federal rules.

This facility has been found to be subject to the following applicable rules:

Federal and State:	45CSR2  45CSR6 45CSR10  45CSR11 45CSR13  WV Code § 22-5-4 (a) (14)  45CSR30 40 C.F.R. Part 61 40 C.F.R. Part 82, Subpart F	To Prevent and Control Particulate Air Pollution from Combustion of Fuel in Indirect Heat Exchangers Open burning prohibited. To Prevent and Control Particulate Air Pollution from the Emissions of Sulfur Dioxides Standby plans for emergency episodes. New Source Review permits for stationary sources The Secretary can request any pertinent information such as annual emission inventory reporting. Operating permit requirement. Asbestos inspection and removal Ozone depleting substances
State Only:	45CSR4 45 CSR17	No objectionable odors. To Prevent and Control Particulate Air Pollution from Materials Handling, Preparation, Storage and Other Sources of Fugitive Particulate Matter

Each State and Federally-enforceable condition of the draft Title V Operating Permit references the specific relevant requirements of 45CSR30 or the applicable requirement upon which it is based. Any condition of the draft Title V permit that is enforceable by the State but is not Federally-enforceable is identified in the draft Title V permit as such.

The Secretary's authority to require standards under 40 C.F.R. Part 60 (NSPS), 40 C.F.R. Part 61 (NESHAPs), and 40 C.F.R. Part 63 (NESHAPs MACT) is provided in West Virginia Code §§ 22-5-1 *et seq.*, 45CSR16, 45CSR15, 45CSR34 and 45CSR30.

**Active Permits/Consent Orders**

Permit or Consent Order Number	Date of Issuance	Permit Determinations or Amendments That Affect the Permit ( <i>if any</i> )
R30-10300033-1996	August 20, 1997	CO-R30-E-2002-55
		PD03-117
		Issued: December 19, 2003
		Replace 1.5 MMBtu/hr process heater with a 1.25 MMBtu/hr Process heater
		No Permit Required
CO-R30-E-2002-55	January 29, 2003	

Conditions from this facility's Rule 13 permit(s) governing construction-related specifications and timing requirements will not be included in the Title V Operating Permit but will remain independently enforceable under the applicable Rule 13 permit(s). All other conditions from this facility's Rule 13 permit(s) governing the source's operation and compliance have been incorporated into this Title V permit in accordance with the "General Requirement Comparison Table B," which may be downloaded from DAQ's website.

## Determinations and Justifications

The only changes to the August 20, 1997 Title V Permit were

1. The consent order required the company to submit a Title V Renewal Application and allowed them to operate under the terms and conditions of the original Title V permit, and
2. Permit Determination to replace 1.5 MMBtu/hr process heater with a 1.25 MMBtu/hr process heater. The 1.5 MMBtu process heater was destroyed by fire. No permit was required.

A determination was made that 45CSR10 does not apply to engines and compressors. Since the heating boiler is less than 10 MMBtu/hr, it is exempt from sulfur dioxide weight emission standards for fuel burning units, registration, permits, testing, monitoring, and recordkeeping, 45CSR§§10-3, 6 through 8. The Logansport facility does not refine or process gas streams, therefore, it is not subject to 45CSR§10-5. Also, since the Logansport facility is not a manufacturing process, it is not subject to 45CSR§10-4.

The 1.0 MMBtu/hr indirect gas fired heater, 2.5 MMBtu/hr heating boiler, and 1.25 MMBtu/hr and 0.7 MMBtu/hr dehydrator boilers are exempt from monitoring and testing under 45CSR2 and 45CSR2A since they are fueled by natural gas. Since the design heat input of the heater and boilers are less than 10 MMBtu/hr, they are not subject to 45CSR§2A, per 45CSR§2A-3.1. According to 45CSR§2-11.1, the heater and boilers are also exempt from Sections 45CSR§§2-4, 5, 6, 8 and 9; Weight Emission Standards, Control of Fugitive Particulate Matter, Registration, Testing, Monitoring, Recordkeeping and Reporting, and Start-ups, Shutdowns and Malfunctions, respectively. The Director reserves the right to require testing pursuant to 45CSR§§ 2-8.1.b and 2-8.1.c.

### 40 CFR part 63 Subpart HHH

Federally and Practically Enforceable requirements for the Dehydrator Facilities have been added to the Title V Permit, Sections 5.1, 5.2, 5.3, 5.4, and 5.5.2 through 5.5.4. The dehydration units can be exempt (Section 5.1.3.) from Subpart HHH in accordance with 40 C.F.R. § 63.1274 (d) (2) by limiting the benzene emissions through a NSR permit or by taking a limit via 45CSR§30-12.7. The owner or operator must monitor actual average benzene emissions in accordance with 40 C.F.R. § 63.1282 (a) (2), which requires the use of GLYCalc Version 3.0 or higher (Section 5.1.3.). However, Sections 5.2.1, 5.3.1, and 5.5.2 require the use of GLYCalc Version 4.0 or higher, therefore the monitoring requirement of 40 C.F.R. § 63.1282 (a) (2) was streamlined with Condition 5.3.1 of the Title V Permit. The owner or operator must maintain records of the benzene emissions in accordance with 40 C.F.R. § 63.1284 (d).

### 40 CFR 64 - Compliance Assurance Monitoring (CAM).

The engines, generators, boilers and storage tanks do not have control devices and are not subject to CAM in accordance with 40 C.F.R. § 64.2 (a) (2). Dehydration #2 boiler (BLR02) incorporates a process design by which exhaust gases from the boiler are reintroduced into the dehydrator's boiler system for the primary purpose of providing combustion fuel for the boiler. As the boiler is inherent process equipment necessary for the functional operation of the dehydration unit, and was not designed as an add-on control device, its operation does not constitute a control device under CAM. Therefore, Dehy #2 is not subject to CAM.

## Non-Applicability Determinations

The following requirements have been determined not to be applicable to the subject facility due to the following:

45CSR21	Regulation to Prevent and Control Air Pollution from the Emission of Volatile Organic Compounds. Logansport #49 station is not located in Cabell, Kanawha, Putnam, Wayne, or Wood counties that are affected by 45CSR21.
45CSR27	To Prevent and Control the Emissions of Toxic Air Pollutants. Natural gas is included as a petroleum product and contains less than 5% benzene by weight. 45CSR§27-2.4 exempts equipment “used in the production and distribution of petroleum products providing that such equipment does not produce or contact materials containing more than 5% benzene by weight.”
40 C.F.R. 60 Subpart GG	Standards of Performance for Stationary Gas Turbines. There are no turbines at the Logansport #49 Compressor Station.
40 C.F.R. 60 Subpart K	Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978. All tanks are below 40,000 gallons in capacity.
40 C.F.R. 60 Subpart Ka	Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984. All tanks are below 40,000 gallons in capacity.
40 C.F.R. 60 Subpart Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. All tanks storing volatile organic liquids are below 75 m <sup>3</sup> (≈20,000 gallons) in capacity.
40 C.F.R. 60 Subpart KKK	Standards of Performance for Equipment Leaks of VOC From Onshore Natural Gas Processing Plants. Logansport #49 Compressor Station is not engaged in the extraction of natural gas from field gas or in the fractionation of mixed natural gas liquids to natural gas products.
40 C.F.R. 60 Subpart LLL	Standards of Performance for Onshore Natural Gas Processing: SO <sub>2</sub> Emissions. There are no sweetening units at the Logansport #49 Compressor Station.
40 C.F.R. 60 Subpart KKKK	Standards of Performance for Stationary Combustion Turbines. There are no turbines at the Logansport #49 Compressor Station.
40 CFR 63 Subpart HH	National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities. The Logansport #49 Compressor Station is not subject to Subpart HH since Logansport #49 Compressor Station is not a natural gas production facility.
40 CFR 63 Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). The Logansport #49 Compressor Station is not subject to RICE since the station is not major source of HAPs.
40 C.F.R. Part 64	The facility does not have any pollutant specific emissions units (PSEU) at this facility that satisfy all of the applicability criteria requirements of 40 CFR §64.2(a), i.e., that: 1) have pre-control regulated pollutant potential emissions (PTE) equal to or greater than the “major” threshold limits to be classified as a major source; 2) are subject to an emission limitation or standard and; 3) have a control device to achieve compliance with such emission limitation or standard. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

## Request for Variances or Alternatives

None

## Insignificant Activities

Insignificant emission unit(s) and activities are identified in the Title V application.

## Comment Period

Beginning Date: September 5, 2007  
Ending Date: October 5, 2007

All written comments should be addressed to the following individual and office:

Wayne Green  
Title V Permit Writer  
West Virginia Department of Environmental Protection  
Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

## Procedure for Requesting Public Hearing

During the public comment period, any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. The Secretary shall grant such a request for a hearing if he/she concludes that a public hearing is appropriate. Any public hearing shall be held in the general area in which the facility is located.

## Point of Contact

Wayne Green  
West Virginia Department of Environmental Protection  
Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
Phone: 304/926-0499 ext. 1258 • Fax: 304/926-0478

## Response to Comments (Statement of Basis)

Because of a typographical error, citation changes were made to Sections 4.5.1, 5.1.1, and 5.1.2. The citation now read 45CSR§§30-12.7 instead of 45CSR30-12.7.c.

Because of a typographical error, Section 5.1.2 b, c, and d were revised to read:

- b. The vapors/overheads from the still column and flash tank shall be routed through a closed-vent system to the re-boiler at all times when there is a potential that vapor emissions can be generated from still column and/or flash tank;
- c. The re-boiler shall be operated at all times when there is a potential of vapor emissions to be generated from the flash tank and/or still column;

- d. The re-boiler shall be fired with vapors from the still column and flash tank. Natural gas may only be used as supplemental fuel;