

DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION  
ACTIVITY REPORT: Scheduled Inspection

N623135399

FACILITY: Merit Energy Company - Chester 34 CPF		SRN / ID: N6231
LOCATION: Bass Lake Trl, GAYLORD		DISTRICT: Cadillac
CITY: GAYLORD		COUNTY: OTSEGO
CONTACT:		ACTIVITY DATE: 07/06/2016
STAFF: Shane Nixon	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SM OPT OUT
SUBJECT: on-site inspection and records review		
RESOLVED COMPLAINTS:		

AQD staff traveled to Otsego County to perform an inspection of the Chester 34 CPF. The purpose of the inspection was to determine the facility's compliance with Permit to Install (PTI) No. 99-97.

**Equipment at the facility included:**

- Four storage tanks (three hydrocarbon, one water) equipped with a vapor recovery unit. An auditory observation concluded the unit was operating at the time of the inspection;
- A glycol dehydrator;
- Seven heaters;
- Separators;
- Compressor engine (eight cylinders, no catalytic control).

**Operating parameters and serial number of the engine recorded at the time are:**

- Engine speed: 772 rpm
- Engine oil temperature: 210°F
- Engine oil pressure: 55 psi
- Engine coolant temperature: 200°
- Serial number: 72B674

Carbon monoxide (CO), volatile organic compounds (VOC), and oxides of nitrogen (NOx) emission are each limited to 89 tons per 12 month rolling time period. Emissions calculations submitted by Merit Energy indicate compliance with the emission limits contained in PTI No. 99-97. The highest emissions, occurring in February 2016, were:

CO: 23.42 tons per 12 month rolling time period

VOC: 15.31 tons per 12 month rolling time period

NOx: 25.79 tons per 12 month rolling time period

Emissions from 2016 are lower when compared to records submitted during the 2012 Full Compliance Evaluation.

HAP emissions are limited to less than 9 tons per 12 month rolling time period for individual HAPs and less than 22.5 tons per 12 month rolling time period for total HAPs. Total HAP emissions from the facility has been 4.764 tons per 12 month rolling time period which is a 0.003 ton per 12 month rolling time period increase when compared to 2012 emissions.

As required by the PTI, records of fuel consumption, crude/condensate throughput to the tanks, monthly hydrocarbon liquids trucked, the glycol circulation rate through the dehydrator, and maintenance logs were maintained. These records were available to staff upon request (attached).

Conditions of the PTI require that the facility only process sweet gas. AQD staff were

provided with analytical results of the gas processed at the facility. The attached results indicate the hydrogen sulfide concentration of the gas is 12 ppm. 12 ppm is equivalent to 0.75 grains hydrogen sulfide per 100 standard cubic feet of gas. Therefore, the gas is considered sweet per the definition of sweet gas in Part 1 of the Air Pollution Control Rules.

Based upon the on-site inspection and records review, AQD staff considers the facility to be in compliance with PTI No. 99-97.

NAME Shane Dixon

DATE 7/7/16

SUPERVISOR 