

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

N614739002

FACILITY: TRENDWELL ENERGY CORP - Charlton 27		SRN / ID: N6147
LOCATION: NE NW NW T30N R1W SEC 27, CHARLTON TWP		DISTRICT: Gaylord
CITY: CHARLTON TWP		COUNTY: OTSEGO
CONTACT:		ACTIVITY DATE: 03/20/2017
STAFF: Becky Radulski	COMPLIANCE STATUS:	SOURCE CLASS: MINOR
SUBJECT: FY17		
RESOLVED COMPLAINTS:		

AQD Staff traveled to N6147 Trendwell Antrim Inc Charlton 27 CPF located in Charlton Township, Otsego County, for a scheduled inspection to determine compliance with PTI 705-96A. This is a minor source permit. During the inspection, the Operator – Dennis, was onsite.

The Charlton 27 CPF is a natural gas central production facility (CPF). Natural gas and brine fluids are extracted from wells drilled into producing reservoirs (Antrim Formation). Fluids are transmitted through flow lines to the CPF. The gas is compressed and dehydrated prior to pipeline transport.

LOCATION

The facility is located on the south side of M-32 about 1 mile east of Johannesburg. The facility is visible from the road. The site is fenced – the fence was open during the inspection.

The facility was signed as: Trendwell Antrim Inc; Greenville, MI 48838; Charlton 27 CPF; NW/4 NW/4 Section 27 T30N R1W; Charlton Township; Otsego County MI; Emergency: 517-731-1844; if no answer 616-754-5024.

A map to the facility has been attached to the permit file cover.

REGULATORY DISCUSSION

PTI 705-96A was issued 1/2/08, and is an active minor source permit. The permit is for 1 lean burn Caterpillar 3516LE, 1,265 hp engine (no add on control) and one dehydration unit that processes Antrim zone natural gas (exempt per Rule 288(2)(b)(ii)). There is also a FGFACILITY table.

PTI 705-96 was issued 11/22/96, VOID 7/22/97. A VOID letter in the file dated 7/22/97 from DEQ to Trendwell indicates the equipment onsite was determined exempt by a consultant. No further information was found. The application for PTI 705-96A indicates PTI 705-96 was voided based on PTE, however, new PTE calculations showed they needed a permit.

The facility is not major for HAPS.

The engine is subject to 40 CFR Part 63, Subpart ZZZZ, which has not been delegated to MDEQ from EPA.

The glycol dehydrator is subject to 40 CFR Part 63, Subpart HH, which has not been delegated to MDEQ from EPA.

INSPECTION NOTES

The facility contains several buildings and a tank farm inside a fenced area. A site map is included in the application.

The building located at the northern fence is labeled as 'Compressor Building #1' and contains an engine identified on records as a Caterpillar 3516 LE 1265 hp (F-116). The unit was operating and no visible emissions were noted. Parameters noted on the engine during the inspection include engine PSI of 53, RPM of 949, water temp of 182 F, skid label of 'GCS 1106', 'unit ID 1116'. An operator notes on the maintenance clipboard daily. Inside the building are several drums and oil storage.

A storage building is located on the south side of 'Compressor Building #1'. There are no stacks on this building, which was locked and not entered.

A small tank battery, which is bermed and lined, is located in the center of the property. It contains two tanks, a brine and emulsion tank, approximately 400 bbl and 200 gallon in size.

West of the tank battery is the oil-water separator building. Outside this building was a 55 gallon drum of methanol.

East of the tank batter is the dehydration unit. A 100 gallon triethylene glycol tank is located by the dehy in containment.

At the SE corner of the fenced area is an empty building that is labeled as 'Compressor Building #2 (empty)' on the site map. Discussed this building with the Operator, Dennis, who said there has not been an engine in the building at least since the mid 1990s.

The exhaust stack from the engine appeared to meet height and diameter conditions based on visual estimation. The exhaust stack has a muffler.

MAERS

This in a minor source and not required to submit to MAERS at this time.

MACES

MACES was reviewed. Updated the description. Updated Contact information to assign appropriate facility contact. Updated MACT screen to include Subparts HH. Updated subject pollutants on regulatory summary screen.

COMPLIANCE DETERMINATION

Based on the scheduled inspection, N6147 Trendwell Antrim Inc Charlton 27 CPF appears to be in compliance with PTI 705-96A. Records are reviewed separately.

NAME Becky Radulski DATE 10/22/17 SUPERVISOR SN