

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

B914450567

FACILITY: Lambda Energy Resources, LLC - Charlton 4		SRN / ID: B9144
LOCATION: 5750 LOST CABIN TR, JOHANNESBURG		DISTRICT: Gaylord
CITY: JOHANNESBURG		COUNTY: OTSEGO
CONTACT:		ACTIVITY DATE: 09/18/2019
STAFF: Bill Rogers	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SM OPT OUT
SUBJECT: Compliance inspection and record review		
RESOLVED COMPLAINTS:		

On September 18, 2019, I inspected the Lambda Charlton 4 CPF. This facility is in the Pigeon River State Forest. Note that the compressor shed is away from the main facility, out of sight of it. It is to the south, past a well site, and up a hill, about 100 yards outside the fence.

In addition, Lambda provided us with records to review for compliance with permit conditions.

This facility is covered by Air Use Permit 52-04A.

EUDEHY

I looked for the glycol dehydrator but did not find it in the main facility.

Permit 52-04A, Condition 1.1, requires a flare, condenser, or other acceptable control device. According to facility records, the dehy has a condenser. Assuming this is correct, it complies with the permit condition.

Condition 1.3, requires records of the glycol circulation rate. This information is in the facility records, attached. This complies with the permit condition.

EUCH4COMP1

One compressor engine is listed in this permit. There is one on site. There is an empty pad for a second one, but the second engine seems to have been gone for a long time.

Condition 2.1 requires a Malfunction Abatement Plan. We have an approved MAP in our files for this facility. It is dated June 11, 2007. This complies with the permit condition.

Condition 2.2 limits operating any engine without its add on control device (if there is one) to 200 hours per engine per year. The company claims they haven't run without the catalytic oxidizer.

Condition 2.3 requires that the add on control device be installed and operating properly. It appeared to be installed and operating properly at the time of my inspection. Maintenance records, attached, include cleaning and testing the catalytic oxidizer.

Condition 2.5 requires recording natural gas usage. Condition 2.9 requires keeping records of this fuel usage. The fuel usage is in the attached facility records. This complies with the permit conditions.

Condition 2.7 requires a maintenance log. This is in the attached facility records. This complies with the permit condition.

Condition 2.10a sets stack dimensions of a minimum height of 20 feet above ground and a maximum diameter of 10 inches. The stack appears to meet these conditions.

FGFACILITY:

Conditions 3.1a, 3.1b, and 3.1c set NO_x, CO, and VOC limits of 40 tons each per 12 month rolling time period. Facility records, attached, claim facility emissions of about 16 tons CO, 5 tons NO_x, and 2 tons VOC per 12 months. This complies with the permit conditions.

Condition 3.2 requires burning only sweet natural gas at the facility. I did not see or smell anything that would lead me to think any sour gas was being used.

Condition 3.5 requires monthly and 12 month NO_x, CO, and VOC emission calculations. These are present in the attached facility records. This complies with the permit condition.

COMMENTS

This is a large facility, but much of it seems to have fallen out of use.

The compressor shed is up a hill and out of sight from the fence of the large, main facility. It contains one Waukesha natural gas fired compressor engine with a catalytic oxidizer. The engine was running at the time of my inspection. It was at 708 RPM. Engine oil pressure was 40 PSI. Compressor oil pressure was 50 PSI. Coolant temperature was 180 degrees f.

The shed appears to have been designed for two engines, and has a pad for a second one. This doesn't look to have been used for many years. There are two small drum on stilt tanks near the engine, one labeled as Chevron Regal ISO 150 oil and one as Chevron SAE 40 oil.

Although the compressor shed is weathered with peeling paint on the outside, inside the maintenance appeared to be good. I didn't notice any unusual vibration or noise. There was no opacity in the exhaust.

The facility also contains five 400 barrel storage tanks inside a lined berm. The tanks are labeled as crude oil. I saw six inline heaters or heater treaters. I didn't see builder's plates on these which would tell me what their heat input was, but they are about the same size as others I have seen with 10 million BTU per hour burners.

I didn't see any leaks. I didn't see any stained soils which would make me think there had been any recent leaks or spills.

NAME William J. Rogers, Jr.

DATE 9/25/19

SUPERVISOR SN