

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

B915253884

FACILITY: Lambda Energy Resources LLC - Hayes 22		SRN / ID: B9152
LOCATION: 9375 MT FREDERIC RD, GAYLORD		DISTRICT: Gaylord
CITY: GAYLORD		COUNTY: OTSEGO
CONTACT:		ACTIVITY DATE: 06/09/2020
STAFF: Bill Rogers	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SM OPT OUT
SUBJECT: Field inspection for FCE		
RESOLVED COMPLAINTS:		

On June 9, 2020, I inspected the Lambda Hayes 22 Central Production Facility. I didn't find any violations during my inspection.

The facility is located off Mount Frederic Road south of Mancelona Road. There is no special difficulty in reaching the facility. The facility is visible from Mount Frederic Road.

The facility is covered by Permit to Install 653-96B, issued November 22, 2005.

Permit 653-96B, Special Condition 1.1, requires a flash tank on the glycol dehydrator. If I identified this correctly, it is installed properly.

Condition 2.3 requires the catalytic oxidizer on the compressor engine be installed and operating properly. The catalytic oxidizer was installed and appeared to be operating properly at the time of my inspection.

Condition 2.11a sets stack dimensions for the compressor engine as a maximum diameter of 10 inches at a minimum height of 25 feet above ground level. The stack I observed appeared to satisfy this permit condition.

COMMENTS

The facility includes:

Four 400 barrel tanks inside a lined berm. Two are labeled as Oil, Flammable. I didn't see any label on the other two. The vents on top of the tanks were piped to a nearby building which appeared to contain a vapor recovery unit.

Several indirect process heaters which appeared to be line heaters or heater treaters. One appeared to be intact. It had a stack which was approximately 18 inches diameter by 20 feet tall, exhausting unobstructed vertically upward. Based on the size of the unit I would guess it had a burner in the 1 to 2 million BTU per hour range. There were three other heater treaters also, larger than the one described above, but they appear to be out of service. One of the larger units is partially dismantled, the other two appear to have parts of the burners missing.

Four drum on stilts tanks of perhaps 500 gallon size each, all labeled Methanol. These are above a lined berm structure.

One Caterpillar natural gas fired compressor engine. It was operating at the time of my inspection. There was no opacity in its exhaust. The exhaust stack appeared to be 8 or 10 inches in diameter and perhaps 25 feet in height, based on a comparison between the length of its shadow and the length of my own.

The engine was equipped with a catalytic oxidizer. According to the data on the clipboard hanging nearby, that day the catalyst inlet temperature was 754 degrees f, outlet was 835 degrees f. A temperature rise across a catalytic oxidizer suggests it is burning contaminants out of the exhaust stream passing through, and therefore hints that the catalytic oxidizer is operating properly.

Inside the compressor shed were two drum on stilt tanks. One was labeled HDAX Ashless Gas Engine Oil and the other Shell Pre-mixed coolant.

Two iron sponges. These devices are meant to remove relatively small amounts of hydrogen sulfide from natural gas. The facility is prohibited from burning sour gas as fuel. The presence of iron sponges suggests there is mildly sour gas passing through the facility. However, an iron sponge is a means of sweetening that gas, so it does not in itself indicate that the facility is burning sour gas in violation of the permit; it might be burning other gas streams as fuel, or it might be sweetening natural gas by putting it through the iron sponge before burning it.

One glycol dehydrator. It was operating at the time of my inspection. There was some "steam" in its still vent exhaust, but I didn't notice any glycol odors. The still vent was about 12 feet above ground level, 2 inches diameter, terminating in a T shaped pipe fitting. The burner stack was perhaps 6 inches diameter and 20 feet high.

I thought, based on some partially dismantled equipment and structures, that there might have been some gas sweetening on site at some time in the past. But I didn't see anything like an amine plant on site now.

Maintenance appeared to be fair, except for equipment that seems to have been partly dismantled and out of service for some time. I didn't see any leaks or spills. I didn't see any stained soils. I didn't see any opacity. I didn't notice any odors.

NAME _____

DATE _____

SUPERVISOR _____

William J. Rogers Jr. Digitally signed by William J. Rogers Jr.
Date: 2020.06.23 15:00:52 -0400'

Shane Nixon Digitally signed by Shane Nixon
Date: 2020.06.23 15:01:19 -04'00'