

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

B916053435

FACILITY: Lambda Energy Resources LLC - Maple Grove 16		SRN / ID: B9160
LOCATION: 10326 Healy Lake Rd., KALEVA		DISTRICT: Cadillac
CITY: KALEVA		COUNTY: MANISTEE
CONTACT: Vicki Kniss , Environmental Affairs Manager		ACTIVITY DATE: 03/12/2020
STAFF: Kurt Childs	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SMOPT OUT
SUBJECT: 2020 FCE		
RESOLVED COMPLAINTS:		

B9160 Merit Energy Maple Grove 16

Full Compliance Evaluation

INTRODUCTION

I conducted a Full Compliance Evaluation, including on-site inspection and a record review, of the Merit Energy Company (MEC) Maple Grove 16 to determine compliance with opt-out permit number 47-04A and the Air Pollution Control Rules. At the time of the inspection the weather was overcast, 38 degrees with light south winds.

Equipment on site at the time of the inspection included: a tank battery with 5 tanks plus a blow down tank; Three Compressor engines; a glycol dehydrator; and 5 heaters.

EU-MG16DEHY

The dehy was operating and there were no noticeable visible emissions or odors from the dehy. Glycol circulation pump was operating at a rate of 12 strokes per minute.

1.1 There is a flash tank installed at the facility and it appears to be operating properly.

1.2 There is a condenser installed at the facility and it appears to be operating properly.

EU-MG16COMP1

On June 24, 2019 the AQD received notification that the Waukesha L7042G engine in EU-MG16COMP1 was being replaced with a Caterpillar G342 engine. At the time of the inspection both engines were on-site, the G342 was operating and the L7042G was not. However, the L7042G engine did not appear to have been rendered inoperable. Log sheets on-site indicated the L7042G last operated in June 2019, which is consistent with the notification we received.

The G342 engine was operating at 823 rpm, the engine did not appear to be equipped with a catalytic convertor or air to fuel ratio controller. No visible emissions were present at the time of the inspection.

2.1 The facility has an active PM/MAP that was approved on March 9, 2007; the plan was most recently updated 10/16/2019 with current operating variables for the G342 engine

2.2, 2.3, 2.7 The L7042G engine is equipped with a three-way catalyst, the G342 is not equipped with a catalyst.

2.4 NOx testing has not been requested by the AQD District Supervisor in the last 12 months.

2.5 The amount of natural gas used by the compressor engine is being monitored and recorded as required.

2.6 Significant maintenance activities are being logged at the facility (see attached). The records provided for 2019 include maintenance activities for both engines.

2.8 Monthly fuel use records for the compressor engine are being kept. Facility records indicate that 12-month rolling time period fuel usage is around 22 MMcf.

2.9 Stack parameters at the facility have not changed since the last inspection and appear correct. Stack parameters were not provided for the G342 engine, but the stack exits the side of the building and turns vertical terminating at the building roofline.

EU-MG16COMP2

Waukesha F2895G inline 6 cyl. engine. The engine is no longer operating and the compressor has been disassembled.

3.1 The facility has an active PM/MAP that was approved on March 9, 2007 and most recently updated on 10/16/2019 with current operating variables.

3.2 NOx testing has not been requested by the AQD District Supervisor in the last 12 months.

3.3 No natural gas usage during the review period, engine not operating.

3.4 No significant maintenance during the review period, engine not operating.

3.5 No fuel use during the review period, engine not operating.

3.6 Stack parameters at the facility have not changed since the last inspection and appear correct.

FG-FACILITY

4.1A - NOx emissions for the entire facility are limited to 89 tons per year based on a 12-month rolling time period. Records as of September 2019 indicate that the facility is emitting 6.6 tons of NOx based on a 12-month rolling time period.

4.2 - Only sweet natural gas is burned at the facility. H2S is removed in an iron sponge treatment process.

4.3 - H2S and Sulfur content of the natural gas burned has not been required by the District Supervisor

4.4, 4.5 - All required records are being kept by the facility and were provided upon request in a timely manner.

At the time of the inspection there were 5 storage tanks with a VRU which was operating, three of the tanks were marked "Crude Oil". There were also 6 heaters on-site (one apparently in storage).

As a result of the inspection and the records review it appears the Maple Grove 16 facility is in compliance at this time.

NAME 

DATE 3-12-20

SUPERVISOR 