

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

N619026129

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|--------------------------------------------|-------------------------------|---------------------------|
| FACILITY: MUSKEGON DEVELOPMENT, CRAPO LAKE | | SRN / ID: N6190 |
| LOCATION: T29 N R2W SEC 25, CHESTER TWP | | DISTRICT: Cadillac |
| CITY: CHESTER TWP | | COUNTY: OTSEGO |
| CONTACT: MICHAEL MESBERGEN, ENGINEER | | ACTIVITY DATE: 07/24/2014 |
| STAFF: Kurt Childs | COMPLIANCE STATUS: Compliance | SOURCE CLASS: SM OPT OUT |
| SUBJECT: 2014 FCE. | | |
| RESOLVED COMPLAINTS: | | |

2014 Full Compliance Inspection

I inspected the Muskegon Development Company (MDC) Crapo Lake CPF to determine compliance with PTI 744-96 and the Air Pollution Control Rules. The facility is located on Lovells Rd. south of Old State Rd and is on private property behind a gated drive. Equipment at the facility includes two tanks in a bermed area with no liner, one glycol dehydrator, and one compressor/engine.

At the time of the inspection the compressor/engine was not operating. Also, the burner on the dehydrator was not operating but glycol was being circulated at an observed 4 strokes per minute pump rate. The dehy does not have a condenser but is not required to have one by PTI 744-96. There were some mild odors associated with the dehy vent.

The compressor engine on site was a Caterpillar V-12 mounted on a skid with the Universal Compression ID # E00032. The engine type and size are not specified in the permit but permit application materials indicate there were originally two 500 hp engines, company ID numbers U-705 and U-709. I could not locate any recent inspection logs that indicated the engine size or operation history. Records provided by MDC indicate the current engine is a Caterpillar G3512TA. One previous inspection has been conducted on 2/04/2010 at this facility and the records for that inspection indicate the same engine was in place at that time. The heat input on this engine as operated at this facility is below 10 MMBtu/hr and actual emissions are below major source thresholds. The records provided for the current inspection covered the period from August 2013 to January 2014 and indicate the engine and dehy did operate during this time period.

The records provided by MDC also address the requirements of each Special Condition in the PTI.

S.C.13: CO, VOC, NOx emission limits of 89 tpy (12-month rolling period) each. The records provided indicate CO emission average around 6 tpy, VOC 0.75 tpy, and NOx 5 tpy. Emissions calculations are based on manufacturer emission factors for the engine and MAERS emission factors for the glycol dehydrator.

S.C.14: HAP emissions, using MAERS emission factors the company is reporting no HAP emissions. VOC emissions are less than 1 tpy so actual HAP emissions are likely less than this and well below the 9 tpy individual HAP limit and 22.5 tpy total HAP limit.

S.C.15: Monthly emissions are calculated using specific manufacturer emission factors as approved by AQD.

S.C.16: Monthly fuel usage is recorded on the Monthly Fuel Gas Consumption spreadsheet (attached). No crude or condensate is processed or stored at this facility. No crude or condensate is trucked to or from this facility. Glycol circulation rate is reported as 0.670 gallons per minute.

S.C.17: MDC maintains records of the amount of gas produced each month (attached).

S.C.18: MAERS Reporting, the MAERS report was submitted and reviewed on 6/02/14.

S.C.19: Maintenance records are maintained and were provided (attached).

S.C.20: Tanks, no crude or condensate stored on site, no control equipment.

S.C.21: There are no required control devices on any of the equipment.

S.C.22: The facility is not subject to Subpart KKK Onshore Natural Gas Processing Facilities.

S.C.23: Stack testing has not been required by AQD at this facility.

S.C.24: The facility demonstrates that only sweet natural gas is processed by testing. The most recent test was March 4, 2014.

NAME 

DATE 7-29-14

SUPERVISOR 