

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

N613132938

FACILITY: Ward Lake Energy (KITCHEN FARMS SOUTH CPF)		SRN / ID: N6131
LOCATION: NW14 NW14 SEC 17, MANCELONA TWP		DISTRICT: Gaylord
CITY: MANCELONA TWP		COUNTY: ANTRIM
CONTACT: Jeff Rilling, Production Manager		ACTIVITY DATE: 01/12/2016
STAFF: Becky Radulski	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SM OPT OUT
SUBJECT: scheduled inspection		
RESOLVED COMPLAINTS:		

On January 12, 2016 AQD Staff traveled to N6131 Ward Lake Energy Kitchen Farms South CPF located in Mancelona Township, Antrim County for a Full Compliance Evaluation (FCE) scheduled inspection to determine compliance with PTI 689-96.

AQD Staff Gloria Torello and Becky Radulski were present at the inspection.

DEQ Inspection brochures have been previously emailed to Ward Lake Energy.

The Kitchen Farms South CPF is a central production facility. Gas and brine fluids are extracted from wells drilled into producing reservoirs. The fluids are transmitted through flow lines, generally located within a 5 mile radius of a CPF. The gas is compressed by internal combustion driven compressors, fueled by natural gas. Saturated water vapor is removed by glycol dehydration. If water is present in the gas stream, it is separated and stored in tank batteries with fixed roofs.

The facility is signed as follows:

Ward Lake Energy
Mancelona Township/Antrim County
Kitchen Farms Facility
NW/NW/NW Sect 17 T29N R5W
In case of emergency call 517-733-8499

LOCATION

The facility is located in southern Antrim County, east of Mancelona. It is located on the SE corner of Bocook Road and Scholl Road. The driveway is located off Bocook Road.

EQUIPMENT ON SITE

The facility consists of 1 engine and a glycol dehydrator. The engine is a Caterpillar 3408NA 255 hp, no control. A separator and a tank battery containing 2 400 bbl tanks are also onsite.

The facility processes natural gas from the Antrim zone. The engines compresses gas and sends it to a production pipeline for further processing.

REGULATORY DISCUSSION

The permit (PTI 689-96) for this facility is a MOGA 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 dehy is subject to 40 CFR Part 63, Subpart HH, which has not been delegated to MDEQ from EPA.

INSPECTION NOTES

There is one large building on site to house the engine and dehy. The engine was operating during the inspection, no odors or VE from the stack.

A small tank of triethylene glycol is located outside the building inside a containment on the west side of the building. The dehy system was operating, no odors or VE noted.

Two tanks which appear to be 400 bbls were located in a bermed containment area. One tank was labeled as brine. The containment area was covered in snow. Past inspection notes state that the berm is lined. Just east of the building was what appeared to be a brine disposal well.

EUENGINE1 - Caterpillar 3408NA 255 hp, muffler, no control

Compressor oil pressure	65 psi
engine oil pressure	47 psi
rpm	980

EUENGINE1 is located in the N part of the building. There is a used oil tank and several storage tanks (oil and dehy chemicals) on stilts in containment located inside the building. A contained tank of methanol was located outside the building along the south wall. The stack has a muffler and no control.

There are no stack height requirements required with this MOGA permit. The stack emits horizontally, approximately 15 feet above ground.

MAERS

The 2016 submittal will be reviewed during the 2016 MAERS season. See MAERS for details.

MACES

MACES Facility and Regulatory screens were reviewed. The facility description was updated to add information to the description.

COMPLIANCE DETERMINATION

Based on the scheduled inspection, N6131 Ward Lake Energy Kitchen Farms South CPF appears to be in compliance with the inspection portion of PTI 689-96. Records will be review separately to determine full compliance.

NAME Becky Radulski

DATE 1/27/16

SUPERVISOR 