

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

N632251961

FACILITY: RIVERSIDE - ELMIRA 23 CPF		SRN / ID: N6322
LOCATION: NE 4 SE 4 SEC 23 T31N R4W, ELMIRA TWP		DISTRICT: Gaylord
CITY: ELMIRA TWP		COUNTY: OTSEGO
CONTACT: NATALIE SCHRADER , TECHNICAL ASSISTANT		ACTIVITY DATE: 12/27/2019
STAFF: Bill Rogers	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SM OPT OUT
SUBJECT: Field inspection for FCE		
RESOLVED COMPLAINTS:		

On December 27, 2019, I inspected the Riverside Elmira 23 CPF. I did not find any violations during my inspection.

The facility is toward the center of its section and is approached from Parmater Road, which runs across the north of the section. The sign at the entrance of the facility read Restricted Area - Elmira 23 Facility - Riverside Energy Michigan LLC - 231-995-4000 989-705-7665.

The facility is covered by Permit 353-97. It includes two natural gas fired compressor engines and one glycol dehydrator.

The facility has no brine tank.. Brine appears to be piped to Riverside Energy Michigan LLC Elmira 23 Provins 6-23 SWD, Permit 56768, T31N R4W Sec 23 SE 1/4 SE 1/4 NW 1/4, Elmira Twp-Otsego Co.

**DEHYDRATOR:** The dehydrator has an unlabeled burner of about the size of 100,000-150,000 BTU per hour burners I have seen at similar facilities. The burner stack appeared to be approximately 6 inches diameter and perhaps 25 feet high, unobstructed vertically upward. There was no opacity in its exhaust. The still vent exited the side of the shed about 12 feet above ground level, terminating in a T shaped fitting. It appeared to be about 2.5 inches diameter. There was some visible "steam" from this vent. There were moderate glycol odors nearby, but nothing that would be significant off site.

Near the dehydrator I saw a 300 gallon drum on stilts tank labeled as triethylene glycol. It was above a wooden berm structure.

The compressor shed is large. It contains one engine at the east end and one at the west end, with an empty space in the center which would be sufficient for a third engine; likely there was one, at some time.

#### ENGINES

The east engine is a Caterpillar medium sized natural gas fired compressor engine with no catalytic oxidizer. An adhesive label on the control box identifies it as Unit 1017. It has a digital display which said it was operating at 852 RPM with engine oil pressure 80 PSI and engine coolant temperature 235 degrees f.

There is one orange tank on the floor labeled used oil. There are two 300 gallon drum on stilts tanks, one labeled Chevron HDAX gas engine oil and one as Chevrol Regal ISO 100 oil.

The west engine is a Caterpillar natural gas fired compressor engine, medium to small sized; I thought it was smaller than the east engine. It had a catalytic oxidizer which appeared to be installed and operating properly. The catalytic oxidizer temperature readout said Point 2 (presumably outlet) was at 891 degrees f. The engine was running at 784 RPM. An adhesive label on the control box identified it as Unit 812. The number 812 was also in metal characters welded to the skid the engine is mounted upon.

There is one orange tank on the floor labeled as used oil. There are two 300 gallon drum on stilts tanks, one labeled Chevron HDAX gas engine oil, the other Chevron Regal ISO 100 oil.

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N605351963

FACILITY: RIVERSIDE - BIG WOLF CPF		SRN / ID: N6053
LOCATION: SE4 NW4 T29N R1E SEC 36, LEWISTON		DISTRICT: Gaylord
CITY: LEWISTON		COUNTY: MONTMORENCY
CONTACT:		ACTIVITY DATE: 12/27/2019
STAFF: Bill Rogers	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SM OPT OUT
SUBJECT: Field inspection for FCE		
RESOLVED COMPLAINTS:		

On December 27, 2019, I inspected the Riverside Big Wolf CPF. I did not find any violations during my inspection.

The facility includes one glycol dehydrator with a Flamco flame arrested burner rated at 500,000 BTU per hour, according to its burner plate. The burner stack appeared to be about 10 inches diameter and 18 feet high, exhausting unobstructed vertically upward. There was no opacity in its exhaust. The still vent appeared to be about 2 inches diameter by 20 feet high, exhausting unobstructed vertically upward. I didn't see any opacity from it. I didn't smell any glycol odors. There were small storage tanks nearby but I didn't notice any labels on them.

The facility shed contains one Caterpillar medium sized natural gas fired compressor engine with no catalytic oxidizer. According to its digital display it was running at 1059 RPM. Oil pressure was 59 psi. Coolant temperature was 192 degrees f. Volts 27, hours of operation 99971. The engine exhausts through the side of the shed to a horizontal muffler and is then directed unobstructed vertically upward by a pipe elbow. The stack exhaust appeared to be about 12 inches diameter at 18 feet above ground level.

There is one 400 barrel brine tank inside a lined berm. Inside the shed, near the engine, I saw two 300 gallon drum on stilt style tanks, one labeled Chevron HDAX gas engine oil and one labeled Chevron Regal AIO ISO 100. There was also one used oil tank on the floor, painted orange, and 3 drums properly labeled as waste.

I noticed digital readout gauges on the wall near the exit for fuel gas and sales gas.

Maintenance looked good. I didn't notice any unusual noises or vibrations. I didn't see any leaks or spills. I didn't see any stained soils that would suggest leaks or spills in the past.

NAME William J Rogers

DATE 1/8/20

SUPERVISOR SN