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

N082738557

FACILITY: SUMMIT ESSEXVILLE - ARMS RD		SRN / ID: N0827
LOCATION: ARMS RD, ESSEXVILLE		DISTRICT: Saginaw Bay
CITY: ESSEXVILLE		COUNTY: BAY
CONTACT:		ACTIVITY DATE: 12/28/2016
STAFF: Benjamin Witkopp	COMPLIANCE STATUS: Non Compliance	SOURCE CLASS: SM OPT OUT
SUBJECT:		
RESOLVED COMPLAINTS:		

Ben Witkopp of the Michigan Department of Environmental Quality - Air Quality Division (MDEQ-AQD) and Andrew Kent of the Office of Oil Gas and Minerals (OOGM) visited the crude oil production site on Arms Rd owned by Summit Petroleum. It is also known as the Wazbinski facility because only a single well is involved. The well is located south of the production site. The operation and subsequent emissions are covered by air use permit 309-96A.

When the well is being pumped the oil flows north to the heater treater. The treated oil then goes to the tank battery located to the east. The produced gas goes to a tall flare located at the north end of the site. It is equipped with an auto igniter. A shorter flare is found near the main flare. The short flare burns gas potentially coming from the tanks as residual gas may separate from the oil as it sits. Both flares were lit. The tall flare igniter worked. The flame temperature ranged from 920 to 980 F.

The shut down system in case of pilot flame failure was in place and indications were it was operational. The bypass was closed.

The tank battery was checked and all hatches were closed. The winds were from the SSE and an H2S odor was detected. The NE tank was receiving oil at the time because the liquid could be heard entering the tank. The odor tailed off as fluid loading slowed. The flame for the tank battery flare also lessened. There may be a very slight leak at a hatch seal.

We then checked the well site itself. The well was pumping at the time. The wiring from the murphy switch back to the engine was in place to facilitate the shutdown system in case of pilot light failure at the flare. The murphy switch settings were checked. The permit specifies a maximum pressure of 220 psi. However, the actual high pressure setting was 320. This is a violation of permit special condition 2.5.

Records previously submitted were checked. SO2 emissions were basically around 20 pounds per operating hour while the limit is 87.18 pph. The permit has a tons per year limit based upon a 12 month rolling time period. Records showed actual amounts were just under 19 tons. Individual monthly records were requested for May and August 2016. Those records show the daily data. Typical produced gas flows to the flare were in the range of 8-10 thousand cubic feet per day with values usually higher on Mondays after the well was shut in over the weekends. H2S concentrations were 10.5 %.

NAME B. Witkopp DATE 2-21-17 SUPERVISOR C. Hare