



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, ILLINOIS 60604**

SUBJECT: CLEAN AIR ACT INSPECTION REPORT
Southwestern Energy (SWN) Boyd Hall Well Pad

FROM: Jacob Herbers, Environmental Engineer
AECAB (MI/WI)

THRU: Sarah Marshall, Section Supervisor
AECAB (MI/WI)

TO: File

BASIC INFORMATION

Facility Name: Southwestern Energy (SWN) Boyd Hall Well Pad

Facility Location: 32420 Old National Road Barnesville, Ohio 43713 (40.057284, -81.224409)

Date of Inspection: August 30, 2022

EPA Inspectors:

1. Jacob Herbers, Environmental Engineer
2. Victoria Nelson, Environmental Engineer
3. Laura Neudorf, Environmental Engineer

Other Attendees:

1. Clay Murrell, Air Program Manager, SWN
2. Tyler Bryant, Senior Environmental Specialist, SWN

Contact Email Address: Clay_Murrell@swn.com

Purpose of Inspection: To assess compliance with the facility's Permit-to-Install and Operate (PTIO) and the Clean Air Act

Facility Type: Oil and gas well pad

Regulations Central to Inspection: NSPS Subpart OOOO/OOOOa - Standards of Performance for Crude Oil and Natural Gas Facilities

Arrival Time: 11:15 EDT
Departure Time: 12:00 EDT

Inspection Type:

- ☐ Unannounced Inspection
- ☒ Announced Inspection

OPENING CONFERENCE

- ☒ Presented Credentials
- ☒ Stated authority and purpose of inspection
- ☒ Small Business Resource Information Sheet not provided. Reason: Not a small business
- ☒ Provided CBI warning to facility

The following information was obtained verbally from Clay Murrall and Tyler Bryant, unless otherwise noted.

Company Ownership: This well pad, along with several others in Ohio, was constructed by Eclipse Resources and began production in 2017. In 2019, Eclipse merged with Blue Ridge Resources to create Montage Resources, which was bought by SWN in 2020.

Process Description:

At the well pad, an oil/gas/water emulsion is extracted from the formation through four wells that each flow into a sand trap, a gas processing unit, and a three-phase separator. A heater treater is used to drive off additional vapors from the oil. From there, the oil/condensate is sent into five tanks, and the produced water is sent into three tanks. The tanks feed to a combustor, which is the primary control device. The effluent is transported by truck to EnLink Midstream's Borton gathering Station, located approx. 5 miles west-southwest. The gas is compressed into lines to third-party midstream companies.

Staff Interview: Facility staff said that maintenance, repairs, and leak detection are performed on the thief hatches, which are vertical flanges on top of each tank. The frequency depends on the type of material on the seals, which can have different life expectancies. Maintenance on other components varies. Staff also said they plan to drill three new wells on the existing site.

TOUR INFORMATION

EPA Tour of the Facility: Yes

Data Collected and Observations:

EPA inspectors observed smoke emissions from the combustor. The FLIR camera showed emissions from the thief hatch on condensate tank #3.

Photos and/or Videos: were taken during the inspection.

Field Measurements: were not taken during this inspection.

CLOSING CONFERENCE

☒ Provided U.S. EPA point of contact to the facility

Concerns: EPA expressed concerns about emissions from the thief hatch on condensate tank #3 and smoke from the combustor.

DIGITAL SIGNATURES

Report Author: **Herbers,
Jacob**  Digitally signed by
Herbers, Jacob
Date: 2022.10.24
11:02:28 -05'00'

Section Supervisor: **SARAH
MARSHALL**  Digitally signed by
SARAH MARSHALL
Date: 2022.10.24
11:22:47 -05'00'

Facility Name: Southwestern Energy (SWN) Boyd Hall Well Pad
Facility Location: 32420 Old National Road Barnesville, Ohio 43713
Date of Inspection: August 30, 2022

APPENDIX A: DIGITAL IMAGE LOG

1. Inspector Name: Laura Neudorf	2. Archival Record Location: Region 5 Electronic Records Center
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Image #	File Name	Date and Time	Description of Image
1	IMG_0103.JPG	8/30/2022 11:53 EDT	Thief hatch on condensate tank #3
2	IMG_0104.JPG	8/30/2022 11:54 EDT	Thief hatch on condensate tank #3

APPENDIX B: DIGITAL VIDEO LOG

1. Inspector Name: Victoria Nelson	2. Archival Record Location: Region 5 Electronic Records Center
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Video #	File Name	Date and Time	Description of Video
1	MOV_2825.mp4	8/30/2022 11:36 EDT	FLIR video of combustor with smoke and emissions
2	MOV_2826.mp4	8/30/2022 11:45 EDT	FLIR video showing thief hatch on condensate tank #3, with emissions