VENTURE OIL & GAS, INC.
OIL AND GAS EXPLORATION, DEVELOPMENT & OPERATIONS

140 MAYFAIR ROAD, SUITE 900
HATTIESBURG, MS 39402

PHONE: 601-428-7725
Fax: 601-450-4448

February 24, 2025

Mr. Jeffrey Bland, P.E.
Environmental Permits Division
Mississippi Department of Environmental Quality
PO Box 2261
Jackson, MS 39225-2261

Dear Mr. Bland:

Re: Venture Oil & Gas Inc. Stone 9-5 No. 1 Tank Battery, AI 82364
MSOPGP1300-00086
Oil Production General Permit NOI Modification

Venture Oil & Gas Inc. is submitting the enclosed NOI for modification of coverage under the Oil Production General Permit for the Stone 9-5 No. 1 facility in Jasper County, MS. The compressor engine identified as 150 hp in the original submittal will instead utilize a 215 hp engine. Enclosed are the updated application forms and emissions calculations.
If you have any questions, please feel free to contact me at (601) 428-2257.

Sincerely,

Dan Watts
EHS Director

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE

RECEIVED MAR 11 2025 MDEQ

Facility (Agency Interest) Information | **Section OPGP - A**

1. Name, Address, and Location of Facility

A. Owner/Company Name: Venture Oil & Gas Inc.

B. Facility Name (*if different than A. above*) : Venture Stone 9-5 No. 1 Facility

C. Facility Air Permit/Coverage No. (*if known*) : MSOPGP1300-00086

D. Agency Interest No. (*if known*) : 82364

E. Physical Address

1. Street Address: Field Road off of Jasper County Road 713
2. City: Stringer 3. State: MS
4. County: Jasper 5. Zip Code: 39481
6. Telephone No.: 601-518-0622 7. Fax No.:
8. Are facility records kept at this location? ☐ Yes ☑ No. Please complete Item 10.

F. Mailing Address

1. Street Address or P.O. Box: 207 South 13th Avenue
2. City: Laurel 3. State: MS
4. Zip Code: 39440

G. Latitude/Longitude Data

1. Collection Point (*check one*):
   ☐ Site Entrance ☑ Other: Well head
2. Method of Collection (*check one*):
   ☐ GPS Specify coordinate system (NAD 83, etc.)
   ☑ Map Interpolation (Google Earth, etc.) ☐ Other:
3. Latitude (*degrees/minutes/seconds*) : 31/51/10.6554
4. Longitude (*degrees/minutes/seconds*): neg89/18/47.7354
5. Elevation (*feet*): 350

H. SIC Code: 1311

2. Name and Address of Facility Contact

A. Name: Dan Watts Title: EHS Director

B. Mailing Address

1. Street Address or P.O. Box: 140 Mayfair Road, Suite 900
2. City: Hattiesburg 3. State: MS
4. Zip Code: 39402 5. Fax No.: 601-450-4448
6. Telephone No.: 601-428-2257
7. Email: dwatts@venture-inc.com

ORIGINAL

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE

Facility (Agency Interest) Information | **Section OPGP - A**

3. Name and Address of Air Contact (*if different from Facility Contact*)

A. Name: _____ Title: _____

B. Mailing Address

1. Street Address or P.O. Box: _____
2. City: _____ 3. State: _____
4. Zip Code: _____ 5. Fax No.: _____
6. Telephone No.: _____
7. Email: _____

4. Name and Address of Responsible Official for the Facility

The Form must be signed by a Responsible Official as defined in 11 Miss. Admin. Code Pt.2, R. 2.1.C(24).

A. Name: Adam Barham Title: VP-operations

B. Mailing Address

1. Street Address or P.O. Box: 140 Mayfair Road, Suite 900
2. City: Hattiesburg 3. State: MS
4. Zip Code: 39402 5. Fax No.: 601-450-4448
6. Telephone No.: 601-518-0624
7. Email: abarham@venture-inc.com

C. Is the person above a duly authorized representative and not a corporate officer?

☐ Yes ☑ No

If yes, has written notification of such authorization been submitted to MDEQ?

☐ Yes ☐ No ☐ Request for authorization is attached

5. Type of Oil Production Notice of Intent (*Check all that apply*)

☐ Initial Coverage

☐ Re-Coverage for existing Coverage

☐ Modification with Public Notice

☑ Modification without Public Notice

☑ Update Compliance Plan

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE

Facility (Agency Interest) Information | **Section OPGP - A**

6. Equipment List (*Check all that apply*)

Complete supporting emission calculations must be included for each potential emission unit selected below.

- ☑ Heater Treater. Include a completed Section OPGP-C Form for each unit.
- ☑ Condensation Storage Vessel. Include a completed Section OPGP-E Form for each unit.
- ☑ Water Storage Vessel. Include a completed Section OPGP-E Form for each unit.
- ☑ Internal Combustion Engine. Include a completed Section OPGP-D Form for each unit.
- ☑ Flare. Include a completed Section OPGP-F Form for each unit.
- ☑ Oil Truck Loading (Section OPGP-B Form)
- ☑ Component Fugitive Emissions (Section OPGP-B Form)
- ☐ Other: _____

7. Process/Product Details

Maximum Anticipated Well(s) Production for Faciltiy:

Produced Material	Throughput	Units
Gas	750	MMCF/day
Oil	350	barrels/day
Water	10	barrels/day
Other (Specify)		

Maximum Anticipated Throughput for Principal Product(s) (*as applicable*):

Produced Material	Throughput	Units
Flared Gas	750	MMCF/day
Oil	350	barrels/day
Water	10	barrels/day
Other (Specify)		

8. Zoning

A. Is the facility (either existing or proposed) located in accordance with any applicable city and/or county zoning ordinances? If no, please explain
Yes

B. Is the facility (either existing or proposed) required to obtain any zoning variance to locate/expand the facility at this site? If yes, please explain.
No

C. Is the required USGS quadrangle map or equivalent attached? ☑ Yes ☐ No

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE

Facility (Agency Interest) Information | **Section OPGP - A**

9. MS Secretary of State Registration / Certificate of Good Standing

No permit will be issued to a company that is not authorized to conduct business in Mississippi. If the company applying for the permit is a corporation, limited liability company, a partnership or a business trust, the application package should include proof of registration with the Mississippi Secretary of State and/or a copy of the company's Certificate of Good Standing. The name listed on the permit will include the company name as it is registered with the Mississippi Secretary of State.

It should be noted that for an application submitted in accordance with 11 Miss. Admin. Code Pt. 2, R. 2.8.B. to renew a State Permit to Operate or in accordance with 11 Miss. Admin. Code Pt. 2, R. 6.2.A(1)(c). to renew a Title V Permit to be considered timely and complete, the applicant shall be registered and in good standing with the Mississippi Secretary of State to conduct business in Mississippi.

10. Address and Location of Facility Records

Physical Address

1. Street Address: 140 Mayfair Road, Suite 900
2. City: Hattiesburg
3. State: MS
4. County: Forrest
5. Zip Code: 39402
6. Telephone No.: 601-518-0624
7. Fax No.: 601-450-4448

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE

Facility (Agency Interest) Information | **Section OPGP - A**

11. Certification

The Form must be signed by a Responsible Official as defined in 11 Miss. Admin. Code Pt. 2, R. 2.1.C.(24).

I certify that to the best of my knowledge and belief formed after reasonable inquiry, the statements and information in this application are true, complete, and accurate, and that as a responsible official, my signature shall constitute an agreement that the applicant assumes the responsibility for any alteration, additions, or changes in operation that may be necessary to achieve and maintain compliance with all applicable Rules and Regulations. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature of Responsible Official/DAR

3/3/2025
Date

Adam Barham
Printed Name

3/3/2025
Date

Section B.1: Maximum Uncontrolled Emissions (under normal operating conditions)

Maximum Uncontrolled Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) in Section B.3 and GHGs in Section B.4. Emission Point numbering must be consistent throughout the application package and, for existing emission points, should match any MDEQ ID's in the current permit. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Emissions > 0.01 TPY must be included. Please do not change the column widths on this table.

Emission	TSP[1] (PM)		PM-10[1]		PM-2.5[1]		SO_2		NOx		CO		VOC		TRS[2]		Lead		Total HAPs	
Point ID	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
AA-001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	467.72	2048.61	0.00	0.00	0.00	0.00	35.4445	########
AA-001a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0001	0.0004
AA-002	0.01	0.05	0.02	0.10	0.02	0.10	0.00	0.00	2.70	11.83	4.55	19.91	0.04	0.19	0.00	0.00	0.00	0.00	0.0396	0.1735
AA-002a	0.02	0.07	0.03	0.14	0.03	0.14	0.00	0.00	3.52	15.41	5.92	25.94	0.05	0.21	0.00	0.00	0.00	0.00	0.0516	0.2261
AA-003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.30	0.00	0.00	0.00	0.00	0.0031	0.0136
AA-004	Routed to AA-001																			
AA-005	Routed to AA-001																			
AA-006	Routed to AA-001																			
AA-006a	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.05	0.21	0.04	0.18	0.00	0.01	0.00	0.00	0.00	0.00	0.0009	0.0041
AA-007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.0043	0.0190
AA-008	Routed to AA-001																			
AA-009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	117.72	12.07	0.00	0.00	0.00	0.00	5.2676	0.5399
AA-010	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.11	0.01	0.09	0.00	0.01	0.00	0.00	0.00	0.00	0.0005	0.0020
Totals	0.03	0.12	0.06	0.26	0.06	0.26	0.00	0.01	6.28	27.58	10.52	46.12	585.61	2061.41	0.00	0.00	0.00	0.00	40.81	156.23

[1] **Condensables:** Include condensable particulate matter emissions in particulate matter calculations for PM-10 and PM-2.5, but not for TSP (PM).

[2] **TRS:** Total reduced sulfur (TRS) is the sum of the sulfur compounds hydrogen sulfide (H_2S), methyl mercaptan (CH_4S), dimethyl sulfide (C_2H_6S), and dimethyl disulfide ($C_2H_6S_2$).

Section B.2: Proposed Allowable Emissions

Proposed Allowable Emissions (Potential to Emit) are those emissions the facility is currently permitted to emit as limited by a specific permit requirement or federal/state standard (e.g., a MACT standard); or the emission rate at which the facility proposes to emit considering emissions control devices, restrictions to operating rates/hours, or other requested permit limits that reduce the maximum emission rates. Emission Point numbering must be consistent throughout the application package and, for existing emission points, should match any MDEQ ID's in the current permit. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Additional columns may be added if there are regulated pollutants (other than HAPs and GHGs) emitted at the facility.

Emission	TSP[1]		PM10[1]		PM2.5[1]		SO_2		NOx		CO		VOC		TRS		Lead	
Point ID	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
AA-001	0.06	0.27	0.25	1.08	0.25	1.08	0.000	0.00	2.24	9.83	10.23	44.80	9.35	40.97	0.00	0.00	0.00	0.00
AA-001a	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
AA-002	0.01	0.05	0.02	0.104	0.02	0.104	0.001	0.004	2.70	11.83	4.55	19.91	0.04	0.19	0.00	0.00	0.00	0.00
AA-002a	0.02	0.07	0.03	0.135	0.03	0.135	0.00	0.004	3.52	15.41	5.92	25.94	0.05	0.21	0.00	0.00	0.00	0.00
AA-003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.28	0.00	0.00	0.00	0.00
AA-004	Routed to AA-001																	
AA-005	Routed to AA-001																	
AA-006	Routed to AA-001																	
AA-006a	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.05	0.21	0.04	0.18	0.00	0.01	0.00	0.00	0.00	0.00
AA-007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
AA-008	Routed to AA-001																	
AA-009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	117.72	12.07	0.00	0.00	0.00	0.00
AA-010	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.02	0.11	0.02	0.09	0.00	0.01	0.00	0.00	0.00	0.00
Totals	0.09	0.39	0.31	1.34	0.31	1.34	0.00	0.01	8.54	37.41	20.76	95.00	127.24	53.75	0.00	0.00	0.00	0.00

[1] **Condensables:** Include condensable particulate matter emissions in particulate matter calculations for PM-10 and PM-2.5, but not for TSP (PM).

[2] **TRS:** Total reduced sulfur (TRS) is the sum of the sulfur compounds hydrogen sulfide (H_2S), methyl mercaptan (CH_4S), dimethyl sulfide (C_2H_6S), and dimethyl disulfide ($C_2H_6S_2$).

Section B.3: Proposed Allowable Hazardous Air Pollutants (HAPs)

In the table below, report the Proposed Allowable Emissions (Potential to Emit) for each HAP from each regulated emission unit if the HAP > 0.0001 tpy. Each facility-wide Individual HAP total and the facility-wide Total HAPs shall be the sum of all HAP sources. Use the HAP nomenclature as it appears in the Instructions. Emission Point numbering must be consistent throughout the application package and, for existing emission points, should match any MDEQ ID's in the current permit. For each HAP listed, fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected or the pollutant is emitted in a quantity less than the threshold amounts described above. Additional columns may be added as necessary to address each HAP.

Emission Point ID	Total HAPs		1,1,2,2-tetrachloroethane		1,1,2-trichloroethane		1,3-butadiene		1,3-dichloropropene		acetaldehyde		acrolein		benzene		carbon tetrachloride	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
AA-001	0.8806	3.1049	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0185	0.0811	<0.0001	<0.0001
AA-001a	0.0001	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AA-002	0.0396	0.1735	<0.0001	0.0001	<0.0001	0.0001	0.0008	0.0035	<0.0001	0.0001	0.0034	0.0149	0.0032	0.0141	0.0019	0.0085	<0.0001	0.0001
AA-002a	0.0516	0.2261	<0.0001	0.0002	<0.0001	0.0001	0.0011	0.0046	<0.0001	0.0001	0.0044	0.0195	0.0042	0.0183	0.0025	0.0110	<0.0001	0.0001
AA-003	0.0036	0.0136	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0005	0.0022	<0.0001	<0.0001
AA-004	Routed to AA-001																	
AA-005	Routed to AA-001																	
AA-006	Routed to AA-001																	
AA-006a	0.0009	0.0041	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AA-007	0.0043	0.0190	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AA-008	Routed to AA-001																	
AA-009	5.2676	0.5399	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.5648	0.0579	<0.0001	<0.0001
AA-010	0.00047	0.00205	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Totals:	6.2489	4.0836	0.0000	0.0003	0.0000	0.0002	0.0019	0.0082	0.0000	0.0002	0.0079	0.0344	0.0074	0.0324	0.5883	0.1607	0.0000	0.0002

Section B.3: Proposed Allowable Hazardous Air Pollutants (HAPs)

In the table below, report the Proposed Allowable Emissions (Potential to Emit) for each HAP from each regulated emission unit if the HAP > 0.0001 tpy. Each facility-wide Individual HAP total and the facility-wide Total HAPs shall be the sum of all HAP sources. Use the HAP nomenclature as it appears in the Instructions. Emission Point numbering must be consistent throughout the application package and, for existing emission points, should match any MDEQ ID's in the current permit. For each HAP listed, fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected or the pollutant is emitted in a quantity less than the threshold amounts described above. Additional columns may be added as necessary to address each HAP.

Emission Point ID	Total HAPs		chlorobenzene		chloroform		ethylbenzene		ethylene dibromide		formaldehyde		methanol		methylene chloride		naphthalene	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
AA-001	0.1414	3.1049	<0.0001	<0.0001	<0.0001	<0.0001	0.0014	0.0061	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AA-001a	0.0001	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AA-002	0.0396	0.1735	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	0.0250	0.1097	0.0037	0.0164	0.0001	0.0002	0.0001	0.0005
AA-002a	0.0227	0.2261	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	0.0001	0.0326	0.1430	0.0049	0.0213	<0.0001	0.0003	0.0002	0.0007
AA-003	0.0031	0.0136	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AA-004	Routed to AA-001																<0.0001	<0.0001
AA-005	Routed to AA-001																<0.0001	<0.0001
AA-006	Routed to AA-001																<0.0001	<0.0001
AA-006a	0.0009	0.0041	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AA-007	0.0043	0.0190	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AA-008	Routed to AA-001																<0.0001	<0.0001
AA-009	5.2676	0.5399	<0.0001	<0.0001	<0.0001	<0.0001	0.0216	0.0022	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
AA-010	0.0005	0.0020	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Totals:	5.4802	4.0836	0.0000	0.0001	0.0000	0.0001	0.0230	0.0088	0.0000	0.0003	0.0577	0.2529	0.0086	0.0377	0.0001	0.0005	0.0003	0.0012

Section B.3: Proposed Allowable Hazardous Air Pollutants (HAPs)

In the table below, report the Proposed Allowable Emissions (Potential to Emit) for each HAP from each regulated emission unit if the HAP > 0.0001 tpy. Each facility-wide Individual HAP total and the facility-wide Total HAPs shall be the sum of all HAP sources. Use the HAP nomenclature as it appears in the Instructions. Emission Point numbering must be consistent throughout the application package and, for existing emission points, should match any MDEQ ID's in the current permit. For each HAP listed, fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected or the pollutant is emitted in a quantity less than the threshold amounts described above. Additional columns may be added as necessary to address each HAP.

Emission Point ID	Total HAPs		PAH		styrene		toluene		vinyl chloride		xylene		hexane		POM			
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
AA-001	0.1414	3.1049	<0.0001	<0.0001	<0.0001	<0.0001	0.0151	0.0661	<0.0001	<0.0001	0.0080	0.0352	0.6659	2.9165	<0.0001	<0.0001		
AA-001a	0.0001	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	0.0004	<0.0001	<0.0001		
AA-002	0.0396	0.1735	0.0002	0.0008	<0.0001	0.0001	0.0007	0.0030	<0.0001	<0.0001	0.0002	0.0010	<0.0001	<0.0001	<0.0001	<0.0001		
AA-002a	0.0227	0.2261	0.0002	0.0010	<0.0001	<0.0001	0.0009	0.0039	<0.0001	<0.0001	0.0003	0.0014	<0.0001	<0.0001	<0.0001	<0.0001		
AA-003	0.0031	0.0136	<0.0001	<0.0001	<0.0001	<0.0001	0.0004	0.0017	<0.0001	<0.0001	0.0002	0.0009	0.0206	0.0902	<0.0001	<0.0001		
AA-004	Routed to AA-001																	
AA-005	Routed to AA-001																	
AA-006	Routed to AA-001																	
AA-006a	0.0009	0.0041	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0009	0.0039	<0.0001	0.0001		
AA-007	0.0043	0.0190	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		
AA-008	Routed to AA-001																	
AA-009	<0.0001	0.5399	<0.0001	<0.0001	<0.0001	<0.0001	0.5593	0.0573	<0.0001	<0.0001	0.2946	0.0302	3.8273	0.3923	<0.0001	<0.0001		
AA-010	0.00047	0.00205	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00044	0.00193	<0.0001	<0.0001		
Totals:	0.2126	4.0836	0.0004	0.0017	0.0000	0.0001	0.5763	0.1320	0.0000	0.0000	0.3034	0.0687	4.5152	3.4052	0.0000	0.0001		

Section B.4: Greenhouse Gas Emissions

Applicants must report potential emission rates in SHORT TONS per year, as opposed to metric tons required by Part 98. Emission Point numbering must be consistent throughout the application package and, for existing emission points, should match any MDEQ ID's in the current permit.

		CO_2 (non-biogenic) ton/yr	CO_2 (biogenic)[2] ton/yr	N_2O ton/yr	CH_4 ton/yr	SF_6 ton/yr	PFC/HFC[3] ton/yr					Total GHG Mass Basis ton/yr[5]	Total CO_2e ton/yr[6]
Emission Point ID	GWPs [1]	1	1	298	25	22,800	footnote 4						
AA-001	mass GHG	18426.95	0	0.03	62.49	0	0					18489.47	N/A
	CO2e	18426.95	0	8.93	1562.19	0	0					N/A	19998.07
AA-001a	mass GHG	25.59	0	0.00	0.00	0	0					25.59	N/A
	CO2e	25.59	0	0.01	0.01	0	0					N/A	25.62
AA-002	mass GHG	624.23	0	0.00	0.01	0	0					624.24	N/A
	CO2e	624.23	0	0.35	0.29	0	0					N/A	624.88
AA-002a	mass GHG	813.39	0	0.00	0.02	0	0					813.41	N/A
	CO2e	813.39	0	0.46	0.38	0	0					N/A	814.23
AA-003	mass GHG	0.04	0	0.00	0.27	0	0					0.32	N/A
	CO2e	0.04	0	0.00	6.81	0	0					N/A	6.85
AA-004	mass GHG	0	0	0	0	0	0					0.00	N/A
	CO2e	0	0	0	0	0	0					N/A	0.00
AA-005	mass GHG	0	0	0	0	0	0					0.00	N/A
	CO2e	0	0	0	0	0	0					N/A	0.00
AA-006	mass GHG	0	0	0	0	0	0					0.00	N/A
	CO_2e	0	0	0	0	0	0					N/A	0.00
AA-006a	mass GHG	255.45	0	0.00	0.00	0	0					255.46	N/A
	CO_2e	255.45	0	0.14	0.12	0	0					N/A	255.71
AA-007	mass GHG	0	0	0	0	0	0					0.00	N/A
	CO_2e	0	0	0	0	0	0					N/A	0.00
AA-008	mass GHG	0	0	0	0	0	0					0.00	N/A
	CO_2e	0	0	0	0	0	0					N/A	0.00
AA-009	mass GHG	0.03	0	0	0.18	0	0					0.21	N/A
	CO_2e	0.03	0	0	4.50	0	0					N/A	4.53
AA-010	mass GHG	127.73	0	0.00	0.00	0	0					127.73	N/A
	CO_2e	127.73	0	0.07	0.06	0	0					N/A	127.86
FACILITY TOTAL	mass GHG	20145.70	0	0.49	63.34	0.00	0.00					20209.53	N/A
	CO_2e	20145.70	0	145.67	1583.51	0.00	0.00	0.5				N/A	21874.88

[1] GWP (Global Warming Potential): Applicants must use the most current GWPs codified in Table A-1 of 40 CFR part 98. GWPs are subject to change, therefore, applicants need to check 40 CFR 98 to confirm GWP values.

[2] Biogenic CO2 is defined as carbon dioxide emissions resulting from the combustion or decomposition of non-fossilized and biodegradable organic material originating from plants, animals, or micro-organisms.

[3] For HFCs or PFCs describe the specific HFC or PFC compound and use a separate column for each individual compound.

[4] For each new compound, enter the appropriate GWP for each HFC or PFC compound from Table A-1 in 40 CFR 98.

[5] Greenhouse gas emissions on a mass basis is the ton per year greenhouse gas emission before adjustment with its GWP. Do not include biogenic CO_2 in this total.

[6] CO_2e means Carbon Dioxide Equivalent and is calculated by multiplying the TPY mass emissions of the greenhouse gas by its GWP. Do not include biogenic CO_2e in this total.

Section B.5: Stack Parameters and Exit Conditions

Emission Point numbering must be consistent throughout the application package and, for existing emission points, should match any MDEQ ID's in the current permit.

Emission Point ID	Orientation (H-Horizontal V=Vertical)	Rain Caps (Yes or No)	Height Above Ground (ft)	Base Elevation (ft)	Exit Temp. (°F)	Inside Diameter or Dimensions (ft)	Velocity (ft/sec)	Moisture by Volume (%)	Geographic Position (degrees/minutes/seconds)	
									Latitude	Longitude
AA-001	H	No	40	415	1800	0.50	100	TBD	31/51/7.848N	89/19/7.464W
AA-002	H	Yes	7	415	TBD	TBD	TBD	TBD	31/51/7.848N	89/19/7.464W
AA-002a	H	yes	7	415	TBD	TBD	TBD	TBD	31/51/7.848N	89/19/7.464W
AA-003	N/A-Fugitives	N/A	N/A	415	N/A	N/A	N/A	N/A	31/51/7.848N	89/19/7.464W
AA-004	N/A-Separator	N/A	N/A	415	N/A	N/A	N/A	N/A	31/51/7.848N	89/19/7.464W
AA-005	N/A-Separator	N/A	N/A	415	N/A	N/A	N/A	N/A	31/51/7.848N	89/19/7.464W
AA-006	N/A-Heater Treater	N/A	N/A	415	N/A	N/A	N/A	N/A	31/51/7.848N	89/19/7.464W
AA-006a	TBD	TBD	TBD	415	TBD	TBD	TBD	TBD	31/51/7.848N	89/19/7.464W
AA-007	N/A-Tanks	N/A	N/A	415	N/A	N/A	N/A	N/A	31/51/7.848N	89/19/7.464W
AA-008	N/A-Tanks	N/A	N/A	415	N/A	N/A	N/A	N/A	31/51/7.848N	89/19/7.464W
AA-009	N/A-Truck Loading	N/A	N/A	415	N/A	N/A	N/A	N/A	31/51/7.848N	89/19/7.464W
AA-010	TBD	TBD	TBD	415	N/A	TBD	TBD	TBD	31/51/7.848N	89/19/7.464W

[1] A WAAS-capable GPS receiver should be used and in the WGS84 or NAD83 coordinate system.

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE

Fuel Burning Equipment – Internal Combustion Engines | Section OPGP- D

1. Emission Point Description

A. Emission Point Designation (Ref. No.): AA-002a

B. Equipment Description (including serial number): 215 HP RICE for sales gas compressor

C. Manufacturer: Caterpillar

D. Date of Manufacture and Model No.: 2011

E. Maximum Heat Input (higher heating value): 1.59 MMBtu/hr

F. Rated Power: 215 hp 162 kW

G. Is the engine an EPA-certified engine? No Yes or No

H. Use: ☒ Non-emergency ☐ Emergency

I. Displacement per cylinder: ☒ < 10 Liters ☐ 10 to <30 Liters ☐ ≥ 30 Liters

J. Engine Ignition Type: ☒ Spark Ignition ☐ Compression Ignition

K. Engine Burn Type: ☒ 4-stroke ☐ 2-stroke ☒ Rich Burn ☐ Lean Burn
(check all that apply)

L. Status: ☐ Operating ☒ Proposed ☐ Under

M. Date of construction, reconstruction, or most recent modification (for existing sources) or date of anticipated construction: Construction 03/2025

2. Fuel Type

Complete the following table, identifying each type of fuel and the amount used. Specify units of measurement.

FUEL TYPE	HEAT CONTENT	% SULFUR	% ASH	MAXIMUM HOURLY USAGE	MAXIMUM YEARLY USAGE
Nat. Gas/propane	1020 BTU/Ft3	0.00004	0.0	1.59 MCF	13.93 MMCF

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE	
Compliance Plan	**Section OPGP-G**

Part 1. Equipment List

List all equipment and the corresponding federal and/or state regulation that is applicable. Clearly identify federal regulations from state requirements. Provide the expected or actual construction date, startup date and removal date if the equipment is no longer on site.

EMISSION UNIT (Ref No.)	FEDERAL or STATE REGULATION Ex. 40 CFR Part ____, Subpart _____ Ex. 11 Miss. Admin. Code Pt. 2, R. 1.4.B(2).	CONSTRUCTION DATE	STARTUP DATE	REMOVAL DATE
Example: Engines	40 CFR 63, Subpart ZZZZ	10/01/2002	11/15/2019	N/A
Example: Fugitive Emissions	40 CFR 60, Subpart OOOOa	10/01/2019	11/15/2019	N/A
Example: Flare	11 Miss. Admin. Code Pt. 2, R.1.4.B(2).	12/01/2019	12/02/2019	N/A
This list of examples is not intended to be conclusive for each type of emission source. This list only provides examples of how the table should be completed.				
AA-001 Flare and facility wide	11 Miss. Admin. Code Pt. 2, R.1.4.B(2).			
AA-002	40 CFR 63, Subpart ZZZZ			
AA-002, AA-010	11 Miss. Admin. Code Pt. 2, R.1.3.B.			
AA-002, ,AA-006a, AA-010	11 Miss. Admin. Code Pt. 2, R.1.3.D(1)(a).			
AA-003 Fugitive Emissions	40 CFR 60, Subpart OOOOa			

ATTACHMENT A

Calculations for Venture Stone 9-5 No. 1 Tank Battery

Site Information for Calculations

Site Name: Stone 9-5 No. 1 Tank Battery			
Potential Crude Production	78,840	bbl/yr	
Potential Gas production	219,000	mcf/yr	
Potential Produced Water	3,650	bbl/yr	
Initial Crude Production	216	bbl/day	(expected maximum daily production)
Initial Gas Production	750	mcf/day	(expected maximum daily production)
Initial Water Production	10	bbl/day	(expected maximum daily production)
Crude Gravity	49		
Oil tank W&B Losses	1.31	SCF/stock tank bbl	(estimated using E&P Tanks)
Oil tank Flash Gas	18.87	SCF/stock tank bbl	(estimated using E&P Tanks)
Water tank W&B Losses	0.0131	SCF/stock tank bbl	(using 1% of oil tank emissions)
Water tankFlash Gas	0.1887	SCF/stock tank bbl	(using 1% of oil tank emissions)
VRU recovery efficiency	0.00%		
Flare destruction efficiency	98.00%		

Emission Point Summary

Emission Point Number	Emission Point Description	Design Capacity	Units	Operating Hours
AA-001	Flare	10.25	MMBtu/hr	8760
AA-001a	Flare Pilot	0.05	MMBtu/hr	8760
AA-002	Power Oil Pump Engine	165	hp	8760
AA-002a	Compressor Engine	150	hp	8760
AA-003	Fugitive emissions- equipment leaks	-	-	8760
AA-004	High Pressure Separator	-	-	8760
AA-005	Low Pressure Separator	-	-	8760
AA-006	Heater Treater	-	-	8760
AA-006a	Heater Treater (burner)	0.5	mmBtu/hr	8760
AA-007	Misc. Chemical Tanks	-	-	8760
AA-008	Oil and Water Storage Tanks	-	-	8760
AA-009	Truck Loading	16,000	gal/hr	As needed
AA-010	Line Heater	0.25	mmBtu/hr	8760

Note: Storage tanks, separators, and heater treater vent to the flare.

Proposed Annual Emissions, controlled

Emission Unit ID	Emission Unit	Annual Emissions, tpy								GHG Emissions, tpy			
		PM	PM10	PM2.5	VOC	NOx	CO	SO2	Total HAPs	CO2	CH4	N2O	CO2e
AA-001	Flare	0.27	0.27	0.27	40.97	9.83	44.80	0.00	3.1049	18426.95	62.49	0.03	19998.07
AA-001a	Flare Pilot	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.0004	25.59	0.00	0.00	25.62
AA-002	Power Oil Pump Engine	0.051	0.104	0.104	0.16	11.83	19.91	0.003	0.1735	624.23	0.03	0.00	625.26
AA-002a	Compressor Engine	0.066	0.135	0.135	0.09	6.78	25.94	0.002	0.2261	813.39	0.01	0.00	814.14
AA-003	Fugitive emissions- equipment leaks	-	-	-	0.30	-	-	-	0.0136	0.04	0.02	0.00	0.43
AA-004	High Pressure Separator	Gas routed to Flare											
AA-005	Low Pressure Separator	Gas routed to Flare											
AA-006	Heater Treater	Gas routed to Flare											
AA-006a	Heater Treater (burner)	0.00408	0.01632	0.01632	0.01181	0.21471	0.18035	0.00129	0.0041	255.45	0.00	0.00	255.71
AA-007	Misc. Chemical Tanks (4)	-	-	-	0.02	-	-	-	0.0190	-	-	-	-
AA-008	Oil and Water Tanks (4)	Gas routed to flare											
AA-009	Truck Loading				12.07				0.5399	0.03	0.18	0	4.49
AA-010	Line Heater	0.00204	0.00816	0.00816	0.01	0.10735	0.09018	0.00064	0.0020	127.73	0.00	0.00	127.86
	Totals	0.39	0.63	0.63	53.62	28.67	90.84	0.01	4.0815	20145.70	62.73	0.03	21723.72

Notes:
Storage tanks emissions are included in flare emissions.

Potential Annual Emissions, uncontrolled

Emission Unit ID	Emission Unit	Annual Emissions, tpy								GHG Emissions, tpy			
		PM	PM10	PM2.5	VOC	NOx	CO	SO2	Total HAPs	CO2	CH4	N2O	CO2e
AA-001	Facility gas emissions	-	-	-	2048.61	-	-	-	155.25	465.40	3125.06	0.00	78591.84
AA-002	Power Oil Pump Engine	0.051	0.104	0.104	0.16	11.83	19.91	0.003	0.17	624.23	0.01	0.00	624.88
AA-002a	Compressor Engine	0.066	0.135	0.135	0.21	15.41	25.94	0.004	0.23	813.39	0.02	0.00	814.23
AA-003	Fugitive emissions- equipment leaks	-	-	-	0.30	-	-	-	0.01	0.04	0.27	0.00	6.85
AA-004	High Pressure Separator	Gas routed to Flare											
AA-005	Low Pressure Separator	Gas routed to Flare											
AA-006	Heater Treater	Gas routed to Flare											
AA-006a	Heater Treater (burner)	0.00	0.02	0.02	0.01	0.21	0.18	0.00	0.0041	232.23	0.00	0.00	232.47
AA-007	Misc. Chemical Tanks	-	-	-	0.02	-	-	-	0.02	-	-	-	-
AA-008	Oil and Water Storage Tanks	Gas routed to flare											
AA-009	Truck Loading				12.07				0.5399	0.03	0.18	0	4.49
AA-010	Line Heater	0.00	0.01	0.01	0.01	0.11	0.09	0.00	0.0020	127.73	0.00	0.00	127.86
	Totals	0.12	0.26	0.26	2061.37	27.45	46.03	0.01	156.22	2135.32	3125.54	0.00	80274.76

Notes:
Storage tanks emissions are included in flare emissions, AA-001.

Facility Maximum Hourly Emissions, Controlled

Emission Unit ID	Emission Unit	Emissions, lb/hr								GHG Emissions, lb/hr			
		PM	PM10	PM2.5	VOC	NOx	CO	SO2	Total HAPs	CO2	CH4	N2O	CO2e
AA-001	Flare	0.08	0.08	0.08	9.35	2.24	10.23	0.00	0.88	4207.07	14.27	0.01	4565.77
AA-001a	Flare Pilot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.84	0.00	0.00	5.85
AA-002	Power Oil Pump Engine	0.01	0.02	0.02	0.04	2.70	4.55	0.00	0.04	142.52	0.01	0.00	142.75
AA-002a	Compressor Engine	0.02	0.03	0.03	0.05	3.52	5.92	0.00	0.05	185.71	0.00	0.00	185.90
AA-003	Fugitive emissions- equipment leaks	-	-	-	0.07	-	-	-	0.00	0.01	0.00	0.00	0.10
AA-004	High Pressure Separator	GAS ROUTED TO FLARE											
AA-005	Low Pressure Separator	GAS ROUTED TO FLARE											
AA-006	Heater Treater	GAS ROUTED TO FLARE											
AA-006a	Heater Treater (burner)	0.00	0.00	0.00	0.00	0.05	0.04	0.00	0.00	58.32	0.00	0.00	58.38
AA-007	Misc. Chemical Tanks	-	-	-	0.00	-	-	-	0.00	-	-	-	0.00
AA-008	Oil and Water Storage Tanks	GAS ROUTED TO FLARE											
AA-009	Truck Loading	-	-	-	117.72	-	-	-	5.27	0.01	0.04	0	1.03
AA-010	Line Heater	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.0005	29.16	0.00	0.00	29.19
	Totals	0.09	0.12	0.12	127.23	8.52	20.74	0.002	6.25	4589.47	14.32	0.01	4959.77

Notes:
Storage tanks emissions are included in flare emissions.
Truck loading hourly emissions are dictated by the capacity of the transfer pump

4.38 tpy = 1 PPH

Flash Gas Analysis and Conversions

Component	VOC and/or HAP?	Mol %	Wt %
Total S	None	***	0.00000%
CO2	None	0.362%	0.160%
N2	None	0.000%	0.000%
Methane	None	11.546%	1.852%
Ethane	None	6.480%	1.949%
Propane	VOC	19.755%	8.712%
Isobutane	VOC	20.171%	11.724%
Butane	VOC	12.576%	7.309%
Isopentane	VOC	9.194%	6.633%
Pentane	VOC	5.953%	4.295%
Hexane	VOC	3.906%	3.366%
Heptanes	VOC	6.630%	6.644%
Benzene	VOC and HAP	0.390%	0.544%
Toluene	VOC and HAP	0.388%	0.639%
e-Benzene	VOC and HAP	0.015%	0.028%
Xylenes	VOC and HAP	0.211%	0.400%
n-hexane	VOC and HAP	2.422%	3.726%
Total VOC		79.190%	54.020%
Total HAP		3.426%	5.337%

Heat of combustion, Btu/ft^3	2465.9
Molecular weight	46.02

Gas analysis generated by E&P Tanks software.

Produced Gas Analysis and Conversions

Component	VOC and/or HAP?	Mol %	Wt %
Total S	None	0.000%	0.00000%
CO2	None	3.663%	6.696%
N2	None	2.039%	2.372%
Methane	None	67.467%	44.953%
Ethane	None	13.830%	17.272%
Propane	VOC	7.074%	12.956%
Isobutane	VOC	1.484%	3.582%
Butane	VOC	2.649%	6.395%
Isopentane	VOC	0.623%	1.867%
Pentane	VOC	0.554%	1.660%
Hexane	VOC	0.573%	2.051%
n-Hexane	VOC and HAP	0.136%	0.196%
Heptanes+	VOC	0.044%	0.196%
Benzene	VOC and HAP	0.042%	0.051%
Toluene	VOC and HAP	0.010%	0.039%
e-Benzene	VOC and HAP	0.001%	0.004%
Xylenes	VOC and HAP	0.007%	0.020%
Total VOC		13.001%	28.707%
Total HAP		0.196%	0.310%

Heat of combustion, Btu/ft^3	1302.0
Molecular weight	24.08

TANK W & B GAS COMPOSITION

Component	VOC and/or HAP?	Mol %	Wt %			
Total S	None	0.000%	0.00000%			
CO2	None	0.32%	0.25%	44.1	0.140414	
N2	None	0.00%	0.00%	28.01	0	
Methane	None	4.76%	1.35%	16.04	0.762878	
Ethane	None	7.23%	3.86%	30.07	2.174783	
Propane	VOC	24.31%	19.03%	44.1	10.72005	
Isobutane	VOC	23.60%	24.34%	58.12	13.71649	
Butane	VOC	14.17%	14.62%	58.12	8.235546	
Isopentane	VOC	9.38%	12.01%	72.15	6.766083	
Pentane	VOC	5.77%	7.39%	72.15	4.163055	
Hexane	VOC	3.28%	5.02%	86.18	2.8286	
Heptanes+	VOC	4.52%	8.03%	100.21	4.526586	
Benzene	VOC and HAP	0.32%	0.44%	78.11	0.247531	0.539932
Toluene	VOC and HAP	0.27%	0.44%	92.14	0.245092	
e-Benzene	VOC and HAP	0.01%	0.02%	106.17	0.009449	
Xylenes	VOC and HAP	0.12%	0.23%	106.16	0.129091	
n-hexane		1.95%	2.98%	86.18	1.677235	
Total VOC		85.75%	91.56%		56.34289	
Total HAP		2.660%	4.10%			

Heat of combustion, Btu/ft^3	2796.8
Molecular weight	51.43

Note: W&B vapors and truck loading vapors assumed to have same composition
Gas analysis generated by E&P Tanks software.

Tank Uncontrolled Emissions Summary

	Potential		Initial Production	
Total flash gas ,	1,488,400	SCF/yr	170	SCF/hr
Total flash gas ,	88.43	tpy	20.19	lb/hr
Total tank W&B loss	103,328	SCF/yr	12	SCF/hr
Total tank W &B losses	6.86	tpy	1.57	lb/hr
Total tank emissions	95.29	tpy	21.76	lb/hr
Tank emissions to flare	95.29	tpy	21.76	lb/hr
	688.76			
	0.04	0.04	0.0001	

Notes:

1. Total flash gas calculated using gas/oil ratio from E&P tanks program and potential crude and water production
2. All tank emissions included with flare, Emission Point AA-001.

Calculation of Criteria and Hazardous Flare Emissions
Using 30-day Average Production Values

Gas Flow to Flare:

		Potential
Flow to flare of tank flash gas	=	88.43 tpy
Flow to flare of tank W&B emissions		6.86 tpy
flow to flare from truck loading	=	0.00 tpy
Total process gas to flare	=	95.29 tpy
Produced gas to flare	=	6947.98 tpy
	=	219000.00 mcf/yr

Produced gas combustion heat	=	285138.00	MMBtu/yr
process gas combustion heat	=	3875.34	MMBtu/yr
flare gas combustion heat, total	=	289013.34	MMBtu/yr

			Potential Emissions			Potential Emissions	
	Pollutant	Emission factor, lbs/MMBtu	lb/hr	tpy	Pollutant	lb/hr	tpy
	NOx	0.068	2.243	9.826	n-hexane	0.6659	2.9165
Calculation	CO	0.31	10.228	44.797	benzene	0.0185	0.0811
	PM	0.00186	0.001	0.269	e-benzene	0.0014	0.0061
	VOC	mass balance	9.354	40.972	toluene	0.0151	0.0661
	SO_2	mass balance	0.000	0.000	xylenes	0.0080	0.0352
	PM10/PM2.5	0.00745	0.246	1.077	Total HAPs	0.7089	3.1049

Notes:

1. Emission factors from AP-42, Table 13.5-1, are used to calculate NOx and CO emissions, and PM emission factor from AP-42, Table 1.4-2.
2. Mass balance calculations utilize flare input gas flow and a flare destruction efficiancy of 98% minimum.
3. Mass balance for sulfur assumes all sulfur converted to SO2 in flare.

ank Battery HAP emissions calculated using mass balance and 98% destruction efficiency
Oil General Permit Coverage Application

Calculation of Maximum Hourly Criteria and Hazardous Flare Emissions
Using Initial Production Values

Gas Flow to Flare:

		Potential
Flow to flare of tank flash gas	=	20.19 lbs/hr
Flow to flare of tank W&B emissions		1.57 lbs/hr
flow to flare from truck loading	=	0.00 lbs/hr
Total process gas to flare	=	21.76 lbs/hr
Produced gas to flare	=	1982.87 lbs/hr
	=	31.25 mcf/hr

Produced gas combustion heat	=	40.69 MMBtu/hr
process gas combustion heat	=	0.44 MMBtu/hr
flare gas combustion heat, total	=	41.13 MMBtu/hr

			Maximum Hourly Emissions		Potential Emissions
	Pollutant	Emission factor, lbs/MMBtu	lb/hr	Pollutant	lb/hr
	NOx	0.068	2.797	n-hexane	0.8285
Calculation	CO	0.37	15.218	benzene	0.0226
	PM	0.00745	0.306	e-benzene	0.0017
	VOC	mass balance	11.631	toluene	0.0182
	SO_2	mass balance	0.000	xylenes	0.0096
				Total HAPs	0.8806

Notes:

1. Emission factors from AP-42, Table 13.5-1, are used to calculate NOx and CO emissions, and PM emission factor from AP-42, Table 1.4-2.
2. Mass balance calculations utilize flare input process gas flow and a flare destruction efficiancy of 98% minimum.
3. Mass balance for sulfur assumes all sulfur converted to SO2 in flare.
4. HAP emissions calculated using mass balance and 98% destruction efficiency

Calculation of Uncontrolled Emissions of Produced Gas

		Potential
Flow to flare from tank flash gas	=	88.43 tpy
Flow to flare from tank W&B emissions	=	6.86
flow to flare from truck loading	=	0.00 tpy
Produced gas to flare from separators	=	6947.98 tpy

			Potential Emissions	
	Pollutant	Emission factor, lbs/MMBtu	lb/hr	tpy
	VOC	mass balance	467.719	2048.61
	H2S	mass balance	0.000	0.00
	n-hexane	mass balance	33.293	145.82
	benzene	mass balance	0.926	4.06
	e-benzene	mass balance	0.069	0.30
	toluene	mass balance	0.754	3.30
Calculation	xylenes	mass balance	0.402	1.76
	total HAPs	mass balance	35.444	155.25
	methane	mass balance	713.484	3125.06
	CO2	mass balance	106.255	465.40

Note: For calculation of uncontrolled emissions, flare efficiency is 0%.

Calculation of Flare GHG Emissions

Process gas to flare, mmcf/yr	1.57
N2O emission factor, kg/mmBtu	0.0001
HHV, mmBtu/scf	0.001235
CO2 density, kg/ft3	0.052600
CH4 density, kg/ft3	0.019200
flare efficiency	98.00%

PROCESS GAS

carbon	CO2 (from combustion)		CO2 input	CH4, uncombusted		N2O	CO2e
atoms	cubic ft.	tpy	tpy	cubic ft.	tpy[1]	tpy[1]	tpy
			3.29E-01	3.63E+03	7.66E-02	2.13E-04	2.31E+00
1	1.78E+05	1.03E+01	*				1.03E+01
2	2.00E+05	1.15E+01					1.15E+01
3	9.13E+05	5.28E+01					5.28E+01
4	2.02E+06	1.17E+02					1.17E+02
5+	2.06E+06	1.19E+02					1.19E+02
Total	5.36E+06	3.10E+02	3.29E-01	3.63E+03	7.66E-02	2.13E-04	3.13E+02

PRODUCED GAS

produced gas to flare, mmcf/yr	219.00

carbon	CO2 (from combustion)		CO2 input	CH4, uncombusted		N2O	CO2e
atoms	cubic ft.	tpy	tpy	cubic ft.	tpy	tpy	tpy
			4.64E+02	2.96E+06	6.24E+01	2.98E-02	2.03E+03
1	1.45E+08	8.38E+03					8.38E+03
2	5.94E+07	3.43E+03					3.43E+03
3	4.55E+07	2.64E+03					2.64E+03
4	3.55E+07	2.05E+03					2.05E+03
5+	1.99E+07	1.15E+03					1.15E+03
Total	3.05E+08	1.77E+04	4.64E+02	2.96E+06	6.24E+01	2.98E-02	1.97E+04

Note: GHG emissions calculated using procedures from 40 CFR 98.233(n)(4)

Equipment Component Fugitive Emissions

Components	Counts	Emission Factor[1] scf/hr/component	Emissions lbs/hr	Wt. Fraction VOC	VOC Emissions		VOC% HAP[3]	HAP Emissions		GHG Emissions, ton/yr		
					lb/hr	tpy		lb/hr	tpy	CO2	CH4	CO2e
Valves:	**37**											
gas/vapor	24	0.027	0.041116838	0.29	0.012	0.05	0.31%	0.000	0.001	0.012035	0.080884	2.03
light oil[2]	13	0.05	0.041243742	0.54	0.022	0.10	5.34%	0.002	0.010	0.012073	0.073758	1.86
heavy oil	0	0.0005	0	0.29	0.000	0.00	0.31%	0.000	0.000	0	0	0.00
Pumps:			0	0.29			0.31%	0.000	0.000	0	0	0.00
Light oil	0	0.01	0	0.73	0.000	0.00	1.66%	0.000	0.000	0	0	0.00
heavy oil	0	0	0	0.29			0.31%	0.000	0.000	0	0	0.00
Flanges:	46		0	0.29			0.31%	0.000	0.000	0	0	0.00
gas/vapor		0	0	0.29	0.000	0.00	0.31%	0.000	0.000	0	0	0.00
light oil	46	0.003	0.008756364	0.73	0.006	0.03	1.66%	0.000	0.001	0.002563	0.015659	0.39
heavy oil	0	0.0009	0	0.29	0.000	0.00	0.31%	0.000	0.000	0	0	0.00
Relief Valve:			0	0.29			0.31%	0.000	0.000	0	0	0.00
gas/vapor	4	0.04	0.010152306	0.29	0.003	0.01	0.31%	0.000	0.000	0.002972	0.018156	0.46
Connectors:	101		0	0.29			0.31%	0.000	0.000	0	0	0.00
gas/vapor	67	0.003	0.012753834	0.29	0.004	0.02	0.31%	0.000	0.000	0.003733	0.022808	0.57
light oil	34	0.007	0.015101555	0.73	0.011	0.05	1.66%	0.000	0.001	0.00442	0.027007	0.68
heavy oil	0	0.0003	0	0.29	0.000	0.02	0.31%	0.000	0.000	0	0	0.00
Other	1	0.3	0.019035573	0.29	0.005	0.02	1.66%	0.000	0.001	0.005572	0.034042	0.86
				Totals	**0.064**	**0.302**		**0.003**	**0.014**	**0.043**	**0.272**	**6.851**

Notes:

1. Emission factors and equipment counts taken from 40 CFR 98, subpart W.
2. Light oil is defined as having API gravity greater than or equal to 20 degrees API.
3. Vapors emitted from gas service equipment assumed to be same as produced gas, vapor from liquid service equipment assumed to be the same as flash gas.

	lb/hr	tpy
n-hexane	0.02060	0.09021
benzene	0.00051	0.00224
ethyl benzene	0.00004	0.00018
toluene	0.00039	0.00172
xylene	0.00020	0.00088

Equipment	Count	Valves	Flanges	Fittings	prv	Other
wellhead	1	5	10	4	0	1
heater treater	1	8	12	20	0	0
header	0	0	0	0	0	0
separator	2	12	24	20	0	
meters/piping	0	0	0	0	0	0
compressor	1	12	0	57	4	0
dehydrator	0	0	0	0	0	0
total		37	46	101	4	1

ENGINE POTENTIAL EMISSIONS CALCULATIONS

		Heat Input		Emissions, tpy							GHG Emissions, tons/yr		
Engine No.	HP	mmBtu/hr	NOx	VOC	CO	SO2	TSP	PM10	PM2.5	CO2	CH4	N2O	CO2e
AA-002	165	1.22	11.83	0.16	19.91	0.00	0.05	0.10	0.10	624.23	1.18E-02	0.001	624.88
AA-002a	215	1.59	15.41	0.21	25.94	0.00	0.07	0.14	0.14	813.39	1.53E-02	0.002	814.23
		Total	27.24	0.36	45.85	0.01	0.12	0.24	0.24	1437.62	0.03	0.00	1439.11

Pollutant	AP-42 Emission Factor lbs/MMBtu
NOx	2.21
VOC	0.0296
CO	3.72
SO2	0.000588
PM10	0.00950
PM2.5	0.00950
PM cond	0.00991

Conversion Factor,g to lbs
0.0022046

	GHG Emission Factors kg/mmBtu
CO2	53.02
CH4	0.001
N2O	0.0001

ENGINE HAP EMISSIONS CALCULATIONS

HAP	Natural Gas Emission Factor, lbs/mmBtu	AA-002 HAP EMISSIONS		AA-002a HAP EMISSIONS	
		lbs/hr	tpy	lbs/hr	tpy
1,1,2,2-Tetrachloroethane	2.53E-05	3.09E-05	1.35E-04	4.03E-05	1.76E-04
1,1,2-Trichloroethane	1.53E-05	1.87E-05	8.19E-05	2.44E-05	1.07E-04
1,3-Butadiene	6.63E-04	8.10E-04	3.55E-03	1.06E-03	4.62E-03
1,3-Dichloropropene	1.27E-05	1.55E-05	6.80E-05	2.02E-05	8.86E-05
Acetaldehyde	2.79E-03	3.41E-03	1.49E-02	4.44E-03	1.95E-02
Acrolein	2.63E-03	3.21E-03	1.41E-02	4.19E-03	1.83E-02
Benzene	1.58E-03	1.93E-03	8.46E-03	2.52E-03	1.10E-02
Carbon Tetrachloride	1.77E-05	2.16E-05	9.47E-05	2.82E-05	1.23E-04
Chlorobenzene	1.29E-05	1.58E-05	6.90E-05	2.05E-05	9.00E-05
Chloroform	1.37E-05	1.67E-05	7.33E-05	2.18E-05	9.55E-05
Ethylbenzene	2.48E-05	3.03E-05	1.33E-04	3.95E-05	1.73E-04
Ethylene Dibromide	2.13E-05	2.60E-05	1.14E-04	3.39E-05	1.49E-04
Formaldehyde	2.05E-02	2.50E-02	1.10E-01	3.26E-02	1.43E-01
Methanol	3.06E-03	3.74E-03	1.64E-02	4.87E-03	2.13E-02
Methylene Chloride	4.12E-05	5.03E-05	2.20E-04	6.56E-05	2.87E-04
Naphthalene	9.71E-05	1.19E-04	5.20E-04	1.55E-04	6.77E-04
PAH	1.41E-04	1.72E-04	7.55E-04	2.24E-04	9.83E-04
Styrene	1.19E-05	1.45E-05	6.37E-05	1.89E-05	8.30E-05
Toluene	5.58E-04	6.82E-04	2.99E-03	8.88E-04	3.89E-03
Vinyl Chloride	7.18E-06	8.77E-06	3.84E-05	1.14E-05	5.01E-05
Xylene	1.95E-04	2.38E-04	1.04E-03	3.10E-04	1.36E-03
Total		3.96E-02	1.73E-01	5.16E-02	2.26E-01

AA-002 heat input= 1.22 mmBtu/hr
AA-002a heat input= 1.59 mmBtu/hr
annual operating hours= 8760
Emission factors from AP-42, Table 3.2-3

Truck Loading Emissions Calculations 30-Day Average production

Basis: 30 day average production rates

L_L = 12.46 *(SPM)/T (from EPA AP-42 Section 5.2.2.1)

Where:

L_L = Loading loss, lbs per 1,000 gal of liquid loaded
S = Saturation factor
P = True vapor pressure of liquid, psia
M = Molecular weight of vapors, lb/lb-mole
T = Temperature of bulk liquid loaded, degrees R

CRUDE OIL

EPA "S" Factor	True VP of Liquid	Mol. Wt. Of Vapors	Temp. of Liquid	Sales Volume	Loading Rate	Uncontrolled Estimated Emissions, Total Hydrocarbons		
	(psia)	(lb/lb-mole)	°(R)	(10^3 gal/yr)	(gal/hr)	L_L	(lb/hr)	(tpy)
1.45	5	48.00	545	3,311	16,000	7.96	127.30	13.17

PRODUCED WATER

EPA "S" Factor	True VP of Liquid	Mol. Wt. Of Vapors	Temp. of Liquid	Loaded Volume	Loading Rate	Uncontrolled Estimated Emissions, Total Hydrocarbons		
	(psia)	(lb/lb-mole)	°(R)	(10^3 gal/yr)	(gal/hr)	L_L	(lb/hr)	(tpy)
1.45	0.05	48.00	545	153	16,000	0.08	1.27	0.01

Calculation

HAPs	tons/yr
Benzene	0.057897
Toluene	0.057327
e-Benzene	0.00221
Xylenes	0.030194
n-hexane	0.392304
	0.539932

Truck Loading Emissions Calculations, Maximum lbs/hr

L_L = 12.46 *(SPM)/T (from EPA AP-42 Section 5.2.2.1)

Where:

L_L = Loading loss, lbs per 1,000 gal of liquid loaded
S = Saturation factor
P = True vapor pressure of liquid, psia
M = Molecular weight of vapors, lb/lb-mole
T = Temperature of bulk liquid loaded, degrees R

CRUDE OIL

EPA "S" Factor	True VP of Liquid (psia)	Mol. Wt. Of Vapors (lb/lb-mole)	Temp. of Liquid °(R)	Sales Volume (10^3 gal/hr)	Loading Rate (gal/hr)	Uncontrolled Estimated Emissions, Total Hydrocarbons L_L	(lb/hr)
1.45	5	48.00	545	16.0	16,000	7.96	127.30

PRODUCED WATER

Calculation	EPA "S" Factor	True VP of Liquid (psia)	Mol. Wt. Of Vapors (lb/lb-mole)	Temp. of Liquid °(R)	Loaded Volume (10^3 gal/hr)	Loading Rate (gal/hr)	Uncontrolled Estimated Emissions, Total Hydrocarbons L_L	(lb/hr)
	1.45	0.05	48.00	545	16.0	16,000	0.08	1.27

HAPs	lbs/hr
Benzene	0.564848
Toluene	0.559285
e-Benzene	0.021562
Xylenes	0.294576
n-hexane	3.82734
total	5.267611

Venture Stone 9-5 No. 1 Tank Battery
Oil General Permit Coverage Application

External Combustion Equipment Emissions Calculations

	Capacity	Emissions, tons/yr								GHG Emissions, metric tons/yr			
Source	MMBtu/hr	PM	PM10	Pm 2.5	NOx	CO	VOC	SO2	HAP	CO2	CH4	N2O	CO2e
Heater Tre	0.5	0.004	0.016	0.016	0.215	0.180	0.012	0.001	0.004	255.45	0.00	0.00	255.72
Line Heate	0.25	0.002	0.008	0.008	0.107	0.090	0.006	0.001	0.000	127.73	0.00	0.00	127.86
Totals		0.006	0.024	0.024	0.322	0.271	0.018	0.002	0.004	383.18	0.01	0.00	383.58

Ap-42 natural gas combustion Emission Factors, lbs/MMBtu	
Pm	0.001863
PM10	0.007451
PM2.5	0.007451
NOx	0.098039
CO	0.082353
VOC	0.005392
SO2	0.000588
HAPs	0.001851

40 CFR 98, subpart C	
Emission Factors, kg/MMBtu	
CO2	53.02
CH4	0.001
N2O	0.0001

Natural Gas Combustion HAP Calculations

HAP	Natural Gas Emission Factor, lbs/mmBtu	Heater Treater HAP EMISSIONS		Flare Pilot HAP EMISSIONS		Line Heater HAP EMISSIONS	
		lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy
Benzene	2.06E-06	1.03E-06	4.51E-06	1.03E-07	4.51E-07	5.15E-07	2.25E-06
Dichlorobenzene	1.18E-06	5.88E-07	2.58E-06	5.88E-08	2.58E-07	2.94E-07	1.29E-06
Formaldehyde	7.35E-05	3.68E-05	1.61E-04	3.68E-06	1.61E-05	1.84E-05	8.05E-05
Hexane	1.76E-03	8.82E-04	3.86E-03	8.82E-05	3.86E-04	4.41E-04	1.93E-03
Naphthalene	5.98E-07	2.99E-07	1.31E-06	2.99E-08	1.31E-07	1.50E-07	6.55E-07
Polycyclic Organic Matter	2.38E-05	1.19E-05	5.21E-05	1.19E-06	5.21E-06	5.95E-06	2.61E-05
Toluene	3.33E-06	1.67E-06	7.30E-06	1.67E-07	7.30E-07	8.33E-07	3.65E-06
Total		9.35E-04	4.09E-03	9.35E-05	4.09E-04	4.67E-04	2.05E-03

Burner Heat Input= 0.50 mmBtu/hr
Flare Pilot Heat Input= 0.05 mmBtu/hr
Line Heater Heat Input= 0.25
annual operating hours= 8760
Emission factors from AP-42, Table 1.4-3

Venture Stone 9-5 No. 1 Tank Battery
Oil General Permit Coverage Application

FLARE PILOT CALCULATIONS

Emission Unit ID	Combustion Source	Capacity	Criteria Emissions, tons/yr							
		MMBTUH	PM	PM10	PM2.5	NOx	CO	VOC	SO2	HAP
AA-001a	Flare (Pilot)	0.05	0.000	0.002	0.002	0.021	0.018	0.001	0.000	0.000

Emission Unit ID	Combustion Source	Capacity	GHG Emissions, metric tons/yr				GHG Emissions, short tons/yr			
		MMBTUH	CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e
AA-001a	Flare (Pilot)	0.05	23.223	0.000	0.000	23.246	25.59	0.00	0.00	25.62

Gas combustion

AP-42 Emission Factors, lbs/MMBtu	
TSP	0.001863
PM10	0.007451
PM2.5	0.007451
NOx	0.098039
CO	0.082353
VOC	0.005392
SO2	0.000588
HAPs	0.001851

Emission Factors, kg/MMBtu	
CO2	53.02
CH4	0.001
N2O	0.0001

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE	
Compliance Plan	**Section OPGP-G**

Part 1. Equipment List

List all equipment and the corresponding federal and/or state regulation that is applicable. Clearly identify federal regulations from state requirements. Provide the expected or actual construction date, startup date and removal date if the equipment is no longer on site.

EMISSION UNIT (Ref No.)	FEDERAL or STATE REGULATION Ex. 40 CFR Part ____, Subpart ____ Ex. 11 Miss. Admin. Code Pt. 2, R. 1.4.B(2).	CONSTRUCTION DATE	STARTUP DATE	REMOVAL DATE
AA-000 Well affected facility	40 CFR 60, Subpart OOOOa			
AA-002a	40 CFR 60 Subpart JJJJ	3/01/25	3/01/25	

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE

Compliance Plan — Section OPGP-G

Part 2. Applicable Requirements

List all applicable state and federal requirements, including emission limits, operating restrictions, etc., and the applicable test methods or monitoring used to demonstrate compliance with each applicable requirement. Clearly identify federal regulations from state requirements. Provide the compliance status as of the day the application is signed.

EMISSION UNIT (Ref No.)	APPLICABLE REQUIREMENT (Specific Regulatory citation)	POLLUTANT	LIMITS/ REQUIREMENTS	TEST METHOD/ COMPLIANCE MONITORING
Example: Compressor	Item 8 of Table 2d of 40 CFR 63, Subpart ZZZZ	HAPs	Change oil and filter every 2,160 hours of operation or annually, whichever comes first; Inspect spark plugs every 2,160 hours of operation or annually, whichever comes first, and replace as necessary; and Inspect all hoses and belts every 2,160 hours of operation or annually, whichever comes first, and replace as necessary.	Monitoring of compressor hours of operation
Example: Tanks	40 CFR 60.5395(a)(2)	VOC and Methane	Must reduce VOC emissions by 95.0 percent within 60 days after startup of production.	Tank emissions are routed to the flare for destruction at all times of operations.
Example: Flare	11 Miss. Admin. Code Pt. 2, R.1.4.B(2).	H_2S	1 grain H_2S per 100 standard cubic feet (1 gr/100 scf)	Recordkeeping of H2S composition of gas by gas analysis; Maintenance of continuous flame for gas combustion.
This list of examples is not intended to be conclusive for each type of emission source. This list only provides examples of how the table should be completed.				
AA-001, Flare & facility wide	1 Miss. Admin. Code Pt. 2, R.1.4.B(2).	H_2S	Any gas stream containing as much as 1 grain H_2S per 100 standard cubic feet (1 gr/100 scf) must be incinerated prior to discharge to the atmosphere	Recordkeeping of H2S composition of gas by gas analysis; Maintenance of continuous flame for gas combustion.
AA-002, AA-002a, Engines,	40 CFR 63, subpart ZZZZ, (§63.6590(a))	HAP	Applicability	Applicability Only
AA-002,	40 CFR 63, subpart ZZZZ, (§63.6603 & Table 2(d))	HAP	Change oil and filter every 1,440 hours of operation or annually, whichever comes first; b. Inspect spark plugs every	Monitoring engine hours of operation

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Compliance Plan — Section OPGP-G

Part 2. Applicable Requirements

List all applicable state and federal requirements, including emission limits, operating restrictions, etc., and the applicable test methods or monitoring used to demonstrate compliance with each applicable requirement. Clearly identify federal regulations from state requirements. Provide the compliance status as of the day the application is signed.

EMISSION UNIT (Ref No.)	APPLICABLE REQUIREMENT (Specific Regulatory citation)	POLLUTANT	LIMITS/ REQUIREMENTS	TEST METHOD/ COMPLIANCE MONITORING
			1,440 hours of operation or annually, whichever comes first, and replace as necessary c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.	
AA-002,	40 CFR 63, subpart ZZZZ, (§63.6605)	HAP	Contiuous compliance and General Duty to operate and maintain in a manner consistent with safety and good air pollution control practies to minimize emissions	Process Knowledge
AA-002,	40 CFR 63, subpart ZZZZ, (§63.6640 (a) and Table 6)	HAP	i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or ii. Develop and follow your own maintenance plan	Process Knowledge
AA-002	40 CFR 63, subpart ZZZZ, (§63.6655 (a),(d) and (e))	HAP	Recordkeeping Requiremnts	Recordkeeping
AA-002	40 CFR 63, subpart ZZZZ, (§63.6660 (a),(b) and (c))	HAP	General recordkeeping requirements	Recordkeeping
AA-002,	40 CFR 63, subpart ZZZZ, (§63.6640 (b)	HAP	Report any failure to perform a required work practice as scheduled	Reporting
AA-002	40 CFR 63, subpart ZZZZ, (§63.6665 (a) and Table 8)	HAP	Applicable requirements under 40 CFR 63 subpart A	Applicability

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EMISSION UNIT (Ref No.)	APPLICABLE REQUIREMENT (Specific Regulatory citation)	POLLUTANT	LIMITS/ REQUIREMENTS	TEST METHOD/ COMPLIANCE MONITORING
AA-003 Fugitive Emissions	40 CFR 60.5365a(i)	VOC and Methane	Applicability	Applicability only
AA-003 Fugitive Emissions	40 CFR 60.5397a(a-g)	VOC and Methane	Develop a fugitive emission monitoring plan	Upon Startup
AA-003 Fugitive Emissions	40 CFR 60.5397a(h)	VOC and Methane	Fugitive emission source repair or replacement requirements	Written Plan development
AA-003 Fugitive Emissions	40 CFR 60.5425a and Table 3	VOC and Methane	Applicability of General Provisions of 40 CFR 60, Subpart A	Applicability only
AA-003 Fugitive Emissions	40 CFR 60.5410a(j)	VOC and Methane	Demonstration of initial compliance	Monitoring
AA-003 Fugitive Emissions	40 CFR 60.415a(h)	VOC and Methane	Demonstration of continuous compliance	Monitoring
AA-003 Fugitive Emissions	40 CFR 60.5420a(c)	VOC and Methane	Recordkeeping requirements	Monitoring and Recordkeeping
AA-003 Fugitive Emissions	40 CFR 60.5420a(b)	VOC and Methane	Reporting requirements	Reporting
AA-008 Storage Tanks	40 CFR 60.5365a(e)	VOC and Methane	Applicability determination may take into account legally and practically enforceable limit on tank emissions	Applicability Only. Federally enforceable limit requested for avoidance.

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EMISSION UNIT (Ref No.)	APPLICABLE REQUIREMENT (Specific Regulatory citation)	POLLUTANT	LIMITS/ REQUIREMENTS	TEST METHOD/ COMPLIANCE MONITORING
AA-000 Well affected facility	40 CFR 60.5365a(a)	VOC	Applicability	Process Knowledge
AA-000 Well affected facility	40 CFR 60.5375a(a)	VOC	Completion standards/procedures for VOC control	Process Knowledge
AA-000 Well affected facility	40 CFR 60.5410a(a) 40 CFR 60.5415a(a)	VOC	Submit notification, annual report, maintain log of records, as applicable	Recordkeeping and Reporting
AA-000 Well affected facility	40 CFR 60.5420a	VOC	Specific notification, recordkeeping and reporting requirements.	Recordkeeping and Reporting
AA-002a	40 CFR 60.4230(a)(4)(iii) and 60.4246(a), Subpart JJJJ	NOx, CO, VOC	Applicability	
AA-002a	40 CFR 60.4233(e), 60.4234, and Table 1, Subpart JJJJ	NOx, CO, VOC	NOx ≤ 2.0 g/hp-hr (160 ppmvd @ 15 % O2) • CO ≤ 4.0 g/hp-hr (540 ppmvd @ 15 % O2) • VOC ≤ 1.0 g/hp-hr (86 ppmvd @ 15 % O2) 1	Initial stack test, follow manufacturer's operation and maintenance plan
AA-002a	40 CFR 60.4243(b)(2)(i) and 60.4244, Subpart JJJJ; 40 CFR 60.8(a), Subpart A; and 11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	NOx, CO, VOC	Initial performance testing and routine maintenance	Initial stack test, follow manufacturer's operation and maintenance plan
AA-002a	40 CFR 60.4245(a)(1), (2), and (4), Subpart JJJJ	NOx, CO, VOC	Records	Maintain records of notifications, maintenance, and performance testing