

March 22, 2022

Ms. Krystal Rudolph, P.E. Chief Environmental Permits Division Mississippi Department of Environmental Quality PO Box 2261 Jackson, MS 39225-2261

Dear Ms. Rudolph:

Re:

Venture Oil & Gas Inc. Burnham 13-16 No. 2 Tank Battery

Oil Production General Permit NOI

Venture Oil & Gas Inc. is submitting the enclosed NOI for coverage under the Oil Production General Permit for the proposed Burnham 13-16 No. 2 facility in Rankin County, MS. Also enclosed is a copy of the public notice which was published March 23, 2022.

If you have any questions, please feel free to contact me at (601) 613-1915.

Sincerely,

Toby M. Cook, P.E. Environmental Engineer

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Dept. of Environmental Quality

Oil Production General Permit Public Notice Mississippi Environmental Quality Permit Board P. O. Box 2261 Jackson, Mississippi 39225 Telephone No. (601) 961-5171

Public Notice Start Date: 3/23/2022

Venture Oil & Gas Burnham 13-16 No. 2 facility located at Lat.32.09287, Long-89.73380, Rankin county, MS, approximately 2.6 miles ENE of Puckett, Mississippi, in Section 13, T3N, R5E, (601) 518-0622, has applied to the Mississippi Department of Environmental Quality (MDEQ) for coverage under MDEQ's Oil Production General Permit to construct and operate an oil production facility.

The Oil Production General Permit has been developed to ensure compliance with all State and Federal regulations. Facilities granted coverage under this permit and adhering to the conditions contained therein should operate within State and Federal environmental laws and standards concerning the operation of air emissions equipment.

The proposed project consists of construction and/or operation of an oil and gas production site including well, separators, oil and water storage tanks, engine for a well pump, and a flare to control gas emissions. Venture is requesting a federally enforceable permit requirement that the storage tank emissions be routed to the flare at all times the facility is in operation. The facility will operate control(s) such that criteria pollutant emissions will not exceed emission rates restricted in the Oil Production General Permit, nor will hazardous air pollutant (HAP) emissions exceed any HAP emission rates restricted in the Oil Production General Permit. This project will result in new sources of potential emissions of regulated air pollutants. However, emissions will be below the Prevention of Significant Deterioration significance levels as specified in the Mississippi Regulations for the Prevention of Significant Deterioration of Air Quality, 11 Miss. Admin. Code Pt. 2, Ch. 5., and in 40 CFR Part 52.21. Potential emissions will also be below the Air Title V Major Source thresholds as specified in 11 Miss. Admin. Code Pt. 2, Ch. 6. and in 40 CFR Part 70.

Persons wishing to comment upon or object to the proposed request are invited to submit comments in writing to the Air 1 Branch Chief, Environmental Permits Division at the Permit Board's address shown above no later than 30-days from the date of publication of this notice. All comments received or postmarked by this date will be considered in the determination regarding the coverage approval. After receipt of public comments and thorough consideration of all comments, MDEQ will formulate its recommendations regarding coverage approval.

Additional details about the proposed project are available by writing or calling the **Air 1 Branch Chief, Environmental Permits Division** at the above Permit Board address and telephone number and on the MDEQ's website at: https://www.mdeq.ms.gov/ensearch/recently-received-general-permit-noi/. This information is also available for review at the following locations during normal business hours:

Mississippi Department of Environmental Quality
Office of Pollution Control
515 East Amite Street,
Jackson, MS 39201
(601) 961-5171

Brandon Public Library 1475 W. Government Street Brandon, MS 39042

Please bring the foregoing to the attention of persons whom you know will be interested.

OIL PRODUCTION GENERAL PERMIT NOTICE OF INTENT



VENTURE OIL & GAS, INC Burnham 13-16 No.2 Facility Rankin County, Mississippi

Submittal Date: March 2022

PREPARED BY:

FC&E ENGINEERING, LLC 917 MARQUETTE ROAD BRANDON, MISSISSIPPI 39042 (601) 824-1860



EXECUTIVE SUMMARY

Venture Oil & Gas Inc. (Venture) plans to drill a new well for the purposes of oil and gas production. The well (Burnham 13-16 No. 2) will be located in Section 13, Township 3N, Range 5E, in Rankin County, Mississippi. The proposed site will include a conventional tank battery, flare, and associated well pad activities. Based on engineering estimates, the maximum production rates are estimated to be up to 750 thousand cubic feet (MCF) of gas produced per day and 350 barrels (bbl) of oil produced per day, along with 10 bbl/day of produced water.

A pipeline outlet does not currently exist for the gas, therefore, Venture proposes to flare the produced gas. If/when gas sales become available, all gas will be sold except for low pressure streams such as the storage tank emissions and the gas produced by the heater treater. Venture will collect produced water into a 400-bbl water tank prior to offsite transport to a disposal well. Oil will be collected into three (3) 400-bbl oil storage tanks and one(1) 500 bbl oil storage tank before being trucked to market. Venture will route emissions from the oil and water storage tanks, as well as the heater treater, to the flare, and is requesting a federally enforceable requirement for flaring of tank emissions. Emissions associated with truck loading will be vented to the atmosphere. Venture may also operate various small chemical storage vessels, including totes and drums, which are typically associated with well pad activities. Venture intends to install and operate a natural gas fueled engine if/when a pumping unit is required for production from the well. This engine will be classified as "existing" under 40 CFR 63, Subpart ZZZZ.

Consequently, Venture is submitting the attached Notice of Intent (NOI) and associated information for issuance of coverage under the Oil Production General Permit. Based on the facility's potential to emit, the facility's uncontrolled potential emissions of Volatile Organic Compounds (VOC), n-hexane, and total HAPs exceed the threshold limits to be classified as a True Minor Source. Therefore, Venture proposes to restrict facility operations such that the flare is operated at all times during gas venting. Combustion of produced gas from the well during possible upsets or unavailability of gas sales, process gas from the heater treater, and gas off of the oil and water storage tanks will ensure VOC emissions from the facility do not exceed the Air Title V Major Source threshold of 100 tons per year and the General permit limit of 95 tons per year. Venture will monitor the volume of gas sold and the volume of gas flared, except that the volume of gas from the tanks will be calculated using an approved methodology. Venture will calculate corresponding monthly VOC emissions due to flaring of gas from all sources. A flow meter will be used to measure monthly flow of produced gas to the flare. Monthly oil production records and E&P TANKS software will be utilized to calculate emissions from the storage tanks to the flare. Emissions calculations will be maintained on a monthly and rolling, consecutive 12-month basis to ensure compliance with permitted emissions thresholds.

Also included with the NOI are associated maps and figures. Detailed air emissions calculations are provided in Appendix A, and pertinent backup documentation is provided in Appendix B.

NOTICE OF INTENT (NOI) FORMS

Facility (Agency Interest) Information			Section OPGP - A
1. Name, Address, and Location of Facil	lity		
A. Owner/Company Name: Ventu	ıre Oil & Gas In	c.	
B. Facility Name (if different than A. abov	ve): Venture E	Burnham 13-16	No. 2 Facility
C. Facility Air Permit/Coverage No. (if kn	own):		
D. Agency Interest No. (if known):			
E. Physical Address			
1. Street Address: Field Road off of	Oil Field Road		
2. City: Brandon		3. State:	MS
4. County: Rankin		5. Zip Code:	39042
6. Telephone No.: 601-518-0622		7. Fax No.:	
8. Are facility records kept at this location	? Yes	✓ No. J	Please complete Item 10.
F. Mailing Address			
1. Street Address or P.O. Box: 207 S	outh 13th Aven	ue	
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 coordinat	· ·	83, etc.)	
Map Interpolation (Google E	arth, etc.)		Other:
3. Latitude (degrees/minutes/seconds):	32/05/34.	3314N	
4. Longitude (degrees/minutes/seconds):	89/44/1.6	8W	
5. Elevation (feet): 350			
H. SIC Code: <u>1311</u>			
2. Name and Address of Facility Contact	t		
A. Name: Jarvis Hensley		Title:	VP-Operations
B. Mailing Address			
	layfair road, Su	ite 900	
2. City: hattiesburg	,,,,	3. State:	MS
4. Zip Code: 39402		5. Fax No.:	601-450-4448
6. Telephone No.: 601-518-0622	····		
7. Email: jarvish@venture-inc.com			
	<u>-</u>		

	cy Interest) Information		IL TIO III	Section OPGP - A
_	Address of Air Contact (Facility Con	
		<u> </u>	· · · · · · · · · · · · · · · · · · ·	
A. Name:	Bud Dial		Title:	HSE Manager
	· · · · · · · · · · · · · · · · · · ·			
B. Mailing	Address			
1. Street Ad	dress or P.O. Box: 140	Mayfair road, Sui	te 900	
2. City:	Hattiesburg		3. State:	MS
4. Zip Code	: 39402		5. Fax No.:	601-450-4448
6. Telephon	e No.: 601-319-7	161		
7. Email:	bdial@venture-inc.com			
	Address of Responsible (
The Form musi	t be signed by a Responsible (Official as defined in	ı II Miss. Adn	1in. Code Pt.2, R. 2.1.C(24).
A. Name:	Iorgia Handley		Ti41	VD amountings
A. Name.	Jarvis Hensley	 .	Title:	VP-operations
B. Mailing	Address		•	
_		Mayfair road, Sui	te ONN	
2. City:	Hattiesburg	iviayian 10au, 5ui	3. State:	MS
4. Zip Code				601-450-4448
6. Telephon			J. 1 ax 140	001-450-4440
7. Email:	jarvish@venture-inc.com			
, . <u></u>	Jai vising, volitare metom	<u> </u>		
C. Is the per	son above a duly authorized	representative and	I not a cornora	ate officer?
	Yes No			
If yes, has w	ritten notification of such a	uthorization been s	ubmitted to M	IDEO?
	Yes \square No			authorization is attached
			•	
5. Type of Oil	Production Notice of Inc	tent (<i>Check all tl</i>	at apply)	
V	T-20-1 C-		D 0	
Ť	Initial Coverage		Re-Coverage	e for existing Coverage
	Modification with Public N	Jotice	Modification	without Public Notice
_	· · · · · · · · · · · · · · · · · · ·			. William I dollo I tolloo
	Update Compliance Plan			

	T. A	
Facility (Agency Interest)		Section OPGP - A
6. Equipment List (Check		
Complete supporting emission	n calculations must be included for each potential	emission unit selected below.
✓ Condensation Storage Ve ✓ Water Storage Vessel. In ✓ Internal Combustion Eng ✓ Flare. Include a complete ✓ Oil Truck Loading (Section 1985)	completed Section OPGP-C Form for each unit essel. Include a completed Section OPGP-E Form clude a completed Section OPGP-E Form for each inc. Include a completed Section OPGP-D Form ed Section OPGP-F Form for each unit. ion OPGP-B Form) issions (Section OPGP-B Form)	<u>m</u> for each unit. Ich unit.
7. Process/Product Detail		
7. Frocess/Froduct Detail	<u>5</u>	
Max	kimum Anticipated Well(s) Production for Facil	4
Produced Material	Throughput	Units
Gas	0.6	MMCF/day
Oil	300	barrels/day
Water	10	barrels/day
Other (Specify)	10	Oat reis/day
, , , , ,	icipated Throughput for Principal Product(s) (a	s applicable):
Produced Material	Throughput	Units
Flared Gas	0.75	MMCF/day
Oil	350	barrels/day
Water	10	barrels/day
Other (Specify)		
8. Zoning		
A. Is the facility (either exis county zoning ordinance Yes	ting or proposed) located in accordance with an s? If no, please explain	y applicable city and/or
	ting or proposed) required to obtain any zoning at this site? If yes, please explain.	variance to
C. Is the required USGS qua	adrangle map or equivalent attached?	☑ Yes □ No

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.

00
3. State: MS
5. Zip Code: 39402
7. Fax No.: 601-450-4448
(

Facility	(Agency	Interest)	Information
	(************	IIIIVI IIIMUUVI

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	3/27/22 Date
Jarvis Hensley Printed Name	3/27/22 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.

[APs	ton/yr	75.7624	0.0004	0.2103		0.0159				0.0041	0.0190		0.7498	0.0020			T					7F 7F
Total HAPs	lb/hr	+-	0.0001	0.0480		0.0036	┪~			0.0009	-	┪—	5.2676 (+-			-	-			-	22.63
pa	ton/yr	0.00	0.00	0.00		0.00				0.00	0.00		0.00	0.00						1		000
Lead	lb/hr	0.00	0.00	0.00		0.00				0.00	000		0.00	00.0								00.0
TRS2	ton/yr	0.00	0.00	0.00		0.00				0.00	0.00		0.00	0.00								000
Ĺ	lb/hr	00.0	0.00	0.00		0.00				0.00	0.00		0.00	0.00								000
VOC	ton/yr	1653.95	0.00	61.0		0.28				0.01	0.02		16.76	0.01								1671.21
Į×	lb/hr	377.61	0.00	0.04		90.0				0.00	0.00		117.72	0.00			į					495.45
93	ton/yr	0.00	0.00	19.91		00.00				0.18	0.00		00.00	0.09								20.18
	lb/hr	0.00	0.00	4.55		00.0				0.04	0.00		0.00	0.01				:				4.60
NOx	ton/yr	0.00	0.02	11.83		00.0				0.21	0.00		0.00	0.11								12.17
Z	lb/hr	0.00	0.00	2.70		0.00				0.05	0.00		0.00	0.01								2.77
80,	ton/yr	0.00	0.00	0.00		0.00				0.00	0.00		00.00	0.00								0.01
Š	Murry	0.00	0.00	0.00		0.00				0.00	0.00		0.00	00.0		i.						0.00
PM-2.51	ton/yr	0.00	0.00	0.10		00.0				0.02	00'0		0.00	0.01		į						0.13
PM	lb/hr	0.00	0.00	0.02		00.0				00.00	0.00		0.00	0.00								0.03
PM-101	ton/yr	0.00	0.00	0.10		0.00				0.02	00.0		0.00	0.01								0.13
ΜĀ	lb/hr	00.00	0.00	0.02		00.00				0.00	0.00		0.00	0.00	:							0.03
(PM)	ton/yr	0.00	0.00	0.05		0.00	AA-001	AA-001	AA-001	0.00	0.00	AA-001	0.00	0.00								90.0
TSP^1	lb/hr	0.00	0.00	0.01		0.00	Routed to AA-001	Routed to AA-001	Routed to AA-001	0.00	0.00	Routed to AA-001	0.00	0.00								0.01
Emission	Point ID	AA-001	AA-001a	AA-002	removed	AA-003	AA-004	AA-005	AA-006	AA-006a	AA-007	AA-008	AA-009	AA-010								Totals

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 (H₂S), methyl mercaptan (CH₄S), dimethyl sulfide (C₂H₆S), and dimethyl disulfide (C₂H₆S₂).

Appplication Date: March 2022 Burnham 13-16 No. 2 Venture Oil and Gas, Inc.

Section B.2: Proposed Allowable Emissions

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 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 be added if there are regulated pollutants (other than HAPs and GHGs) emitted at the facility.

TOTOT	/	J. C.	PM101	101	PM2.5	, ¢1	SOS	<u></u>	XON	X(2	c	JUA	٥	SAT	\ \\ \chi_2\\\	Load	7
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/vr	lb/hr	ton/vr	lb/hr	ton/vr	lb/hr	ton/vr
AA-001	0.07	0.29	0.27	1.18	0.27	1.18	0.000	0.00	2.45	10.75	11.19	49.01	7.55	33.08	0.00	0.00	0.00	0.00
AA-001a	0.00	0.00	00'0	00'0	0.00	00.0	0.000	00.0	00.0	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-003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00	90.0	0.28	0.00	0.00	0.00	0.00
AA-004 R	Routed to AA-001	AA-001																
AA-005 R	Routed to AA-001	AA-001																
AA-006 R	Routed to AA-001	AA-001																
AA-006a	0.00	0.00	0.00	0.02	00.0	0.02	00.0	00.00	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	00.00	00.0	0.00	00.0	0.02	00.0	0.00	0.00	0.00
AA-008 R	Routed to AA-001	AA-001																
AA-009	0.00	00.0	0.00	0.00	00.0	00.0	0.00	0.00	0.00	00.0	00.0	0.00	117.72	16.76	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	60.0	0.00	0.01	0.00	0.00	0.00	0.00
									İ									
Totals	0.08	0.35	0.30	1.31	0.30	1.31	0.00	0.01	5.23	22.92	15.80	69.21	125.39	50.34	0.00	0.00	00.0	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 (H₂S), methyl mercaptan (CH₄S), dimethyl sulfide (C₂H₆S), and dimethyl disulfide (C₂H₆S₂).

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	Total	Total HAPs	1,1, tefrachlo	1,1,2,2 -	1,1,2-trich	1,1,2-trichloroethane	1,3-butadiene	adiene	1,3-dichlo	1,3-dichloropropene	acetald	acetaldehyde	acrolein	lcin	benz	benzene	carbon tet	carbon tetrachloride
Point ID	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	ıų/qı	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
AA-001	0.4231	1.5152	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0297	0.1301	<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	80000	0.0035	<0.0001	0.0001	0.0034	0.0149	0.0032	0.0141	0.0019	0.0085	<0.0001	0.0001
AA-003	0.0036	0.0159	<0.0001	1000'0>	<0.0001	<0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0003	0.0012	<0.0001	<0.0001
AA-004	Routed to AA-001	AA-001																
AA-005	Routed to AA-001	AA-001																
AA-006	Routed to AA-001	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-001																
AA-009	5.2676	0.7498	<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	0.0804	<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:	5.7398	2.4800	0.0000	0.0001	0.0000	0.0001	0.0008	0.0035	0.0000	0.0001	0.0034	0.0149	0.0032	0.0141	0.5968	0.2202	0.0000	0.0001

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 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. 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 Additional columns may be added as necessary to address each HAP.

Total HAPs	L	chlorobenzene	chlor	chloroform	ethylbe	ethylbenzene	ethylene	ethylene dibromide	formaldehyde	lehyde	теть	methanol	methylene	methylene chloride	analadthaca	lane
	= <u>-</u>	r ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/vr	lb/hr	ton/vr	lb/fir	ton/vr	lb/hr	ton/vr	lh/hr	ton/vr
10	1.5152 <0.0001	01 <0.0001	<0.0001	<0.0001	0.0020	0.0088	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	1_	<0.0001
0.0	0.0004 <0.0001	01 <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
0.1735	735 <0.0001	01 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
0.0159	129 <0.0001	01 <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
Routed to AA-001	100		_												<0.0001	<0.0001
Routed to AA-001	100		-												<0.0001	<0.0001
Routed to AA-001	100														<0.0001	<0.0001
0.0041	041 <0.0001	01 <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
0.0043 0.0190	190 <0.0001	01 <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
Routed to AA-001	100														<0.0001	<0.0001
5.2676 0.74	0.7498 <0.0001	01 <0.0001	<0.0001	<0.0001	0.0216	0.0031	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
0.0005 0.0020	120 <0.0001	01 <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
5.4581 2.4800	300 0.0000	0.0001	0.0000	0.0001	0.0236	0.0121	0.000.0	0.0001	0.0250	0.1099	0.0037	0.0164	0.0001	0.0002	0.0001	0.0005

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 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. 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 Additional columns may be added as necessary to address each HAP.

	т—	_	1	_	1	1	_	T	1	,	т	_	1	1	T	T		_	1	1	ı	ī	
	ton/yr																						
	lb/hr																						
×	ton/yr	<0.0001	<0.0001	<0.0001		<0.0001				0.0001	<0.0001		<0.0001	<0.0001							-		0.0001
POM	lb/hr	<0.0001	<0.0001	<0.0001		<0.0001				<0.0001	<0.0001		<0.0001	<0.0001									0.0000
ane	ton/yr	1.1862	0.0004	<0.0001		0.0133				0.0039	<0.0001		0.5448	0.00193									1.7505
hexane	lb/hr	0.2708	0.0001	<0.0001		0.0030				0.0000	<0.0001		3.8273	0.00044									4.1026
ne	ton/yr	0.0690	<0.0001	0.0010		0.0005				<0.0001	<0.0001		0.0419	<0.0001									0.1125
xylene	lb/hr	0.0158	<0.0001	0.0002		0.0001				<0.0001	<0.0001		0.2946	<0.0001									0.3107
nloride	ton/yr	<0.0001	<0.0001	<0.0001		<0.0001				<0.0001	<0.0001		<0.0001	<0.0001									0.0000
vinyl chloride	lb/hr	<0.0001	<0.0001	<0.0001		<0.0001				<0.0001	<0.0001		<0.0001	<0.0001	1								0.000.0
пе	ton/yr	0.1210	<0.0001	0.0030		600000				<0.0001	<0.0001		96/0.0	<0.0001									0.2046
toluene	lb/hr	0.0276	<0.0001	0.0007		0.0002				<0.0001	<0.0001		0.5593	<0.0001									0.5878
sne	ton/yr	<0.0001	<0.0001	0.0001		<0.0001				<0.0001	<0.0001		<0.0001	<0.0001									0.0001
styrene	lb/hr	<0.0001	<0.0001	<0.0001		<0.0001				<0.0001	<0.0001		<0.0001	<0.0001									0.0000
Н	ton/yr	<0.0001	<0.0001	0.0008		<0.0001				<0.0001	<0.0001		<0.0001	<0.0001									8000.0
PAH	lb/hr	<0.0001	1000.0>	0.0002		<0.0001				<0.0001	<0.0001		<0.0001	<0.0001 <0.0001							ľ		0.0002
HAPs	ton/yr	1.5152	0.0004	0.1735		0.0159	AA-001	AA-001	AA-001	0.0041	0.0190	AA-001	0.7498	0.00205									2.4800
Total HAPs	lb/hr	0.1414	0.0001	0.0396		0.0036	Routed to AA-001	Routed to AA-001	Routed to AA-001	0.0009	0.0043	Routed to AA-001	<0.0001	0.00047									0.1905
Emission	Point ID	AA-001	AA-001a	AA-002		AA-003	AA-004	AA-005	900-VV	AA-006a	4A-007	800-VV	AA-009	AA-010									Totals:

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-	CO ₂	N ₂ O	CH,	SF,	PFC/HFC ³			Total GHG	Total CO2e
		ton/yr	(biogenic)	ton/yr	ton/yr	ton/yr	ton/yr		•	ton/yr ⁵	ton/yr ⁶
Emission Point ID	GWPs 1	1	1	298	25	22,800	footnote 4				
AA-001	mass GHG		0	0.03	75.42	0	0			18645.83	N/A
100 1111	CO2e	18570.38	0	9.19	1885.49	0	0			N/A	20465.06
44-0019	mass GHG	25.59	0	0.00	0.00	0	Ö			25.59	N/A
PIO DE	C02e	25.59	0	0.01	0.01	0	0			N/A	25.62
4.4-002	mass GHG	624.23	0	0.00	0.01	0	0			624.24	N/A
700 277	C02e	624.23	0	0.35	0.29	0	0			N/A	624.88
AA-003	mass GHG		0	0.00	0.33	0	0			0.35	N/A
	CO2e	0.03	0	0.00	8.18	0	0			N/A	8.21
A A -0.04	mass GHG	0	0	0	0	0	0			0.00	N/A
100-2127	C02e	0	0	0	0	0	0			N/A	0.00
A A -005	mass GHG	0	0	0	0	0	0			0.00	N/A
200-3747	C02e	0	0	0	0	0	0			N/A	0.00
A A -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
A A-006a	mass GHG	255.45	0	0.00	00'0	0	0			255.46	N/A
2000-X22.	cO ₂ e	255.45	0	0.14	0.12	0	0			N/A	255.71
AA-007	mass GHG		0	0	0	0	0			0.00	N/A
	CO ₂ e	0	0	0	0	0	0			N/A	00.0
44-008	mass GHG	0	0	0	0	0	0			00:00	N/A
	co ₂ e		0	0	0	0	0			N/A	00.0
A A-000	mass GHG	0.03	0	0	0.18	0	0			0.21	N/A
(00 311)	CO ₂ e	0.03	0	0	4.50	0	0			N/A	4.53
AA-010	mass GHG		0	00'0	0.00	0	0			127.73	N/A
	_		0	0.07	90.0	0	0			N/A	127.86
FACILITY	5		0	0.03	75.94	00'0	0.00			19551.69	N/A
TOTAL	CO2e	19475.71	0	9.70	1898.60	0.00	0.00	0.5		N/A	21384.01
CWP (Glob.	ol Woming 1	Dat-meinly, Anni	CWP (Clobel Womaing Defention). Amiliante must see the	100		E	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 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.

s Greenhouse gas emissions on a mass basis is the ton per year greenhouse gas emission before adjustment with its GWP. Do not include biogenic CO2 in this total.

⁶ CO₂e means Carbon Dioxide Equivalent and is calculated by multiplying the TPY mass emissions of the greenhouse gas by its GWP. Do not include biogenic CO₂e 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	Orientation (H- Horizontal	Rain Caps	Height Above Ground	Base Elevation	Exit Temp.	Inside Diameter or Dimensions	Velocity	Moisture by Volume	Geograph (degrees/min	Geographic Position (degrees/minutes/seconds)
Point 1D	V=Vertical)	(Yes or No)	(£)	(E)	(F)	(£)	(ft/sec)	(%)	Latitude	Longitude
AA-001	Н	No	40	415	1800	0.50	100	TBD	32/5/34.33N	89/44/1.68W
AA-002	Н	Yes	7	415	TBD	TBD	TBD	TBD	32/5/34.33N	89/44/1.68W
AA-003	N/A-Fugitives	N/A	N/A	415	N/A	N/A	N/A	N/A	32/5/34.33N	89/44/1.68W
AA-004	N/A-Separator	N/A	N/A	415	N/A	N/A	N/A	N/A	32/5/34.33N	89/44/1.68W
AA-005	N/A-Separator	N/A	N/A	415	N/A	N/A	N/A	N/A	32/5/34.33N	89/44/1.68W
AA-006	N/A-Heater Treater	N/A	N/A	415	N/A	N/A	N/A	N/A	32/5/34.33N	89/44/1.68W
AA-006a	TBD	TBD	TBD	415	TBD	TBD	TBD	TBD	32/5/34.33N	89/44/1.68W
AA-007	N/A-Tanks	N/A	N/A	415	N/A	N/A	N/A	N/A	32/5/34.33N	89/44/1.68W
AA-008	N/A-Tanks	N/A	N/A	415	N/A	N/A	N/A	N/A	32/5/34.33N	89/44/1.68W
AA-009	N/A-Truck Loading	N/A	N/A	415	N/A	N/A	N/A	N/A	32/5/34.33N	89/44/1.68W
AA-010	TBD	TBD	TBD	415	N/A	TBD	TBD	TBD	32/5/34.33N	89/44/1.68W

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 – External Combustion **Section OPGP-C** Sources **Emission Point Description** Α. Emission Point Designation (Ref. No.): AA-010 B. Equipment Description: Line heater C. Manufacturer: custom D. Date of Manufacture and No.: 2020 E. F. Nominal Heat Maximum Heat Input (higher heating value): Input Capacity: 0.25 MMBtu/hr 0.25 MMBtu/hr Heater Treater TEG Burner Use: ☐ Line Heater G. Space Heat Process Heat Other (describe): Heat Mechanism: Direct Indirect H. I. Burner Type (e.g., forced draft, natural draft, Natural draft J. Additional Design Controls (e.g., FGR, etc.): none K. Operating X Proposed ☐ Under Construction Status: 2. Fuel Type Complete the following table, identifying each type of fuel and the amount used. Specify the units for heat content, hourly usage, and yearly usage. **FUEL TYPE** % SULFUR % ASH MAXIMUM MAXIMUM HEAT CONTENT HOURLY YEARLY USAGE **USAGE** 1000 < 0.001 245 2.15 MMCF Field gas < 0.001 Please list any fuel components that are hazardous air pollutants and the percentage in the fuel:

MDEO 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 – External Combustion Section OPGP-C Sources **Emission Point Description** Α. Emission Point Designation (Ref. No.): AA-006A В. Equipment Description: One (1) Heater Treater, with a 0.5 MMBTUH burner. D. Date of Manufacture and No.: 2019 C. Manufacturer: Custom E. Maximum Heat Input F. Nominal Heat 0.5 MMBtu/hr (higher heating value): Input Capacity: 0.5 MMBtu/hr Heater Treater TEG Burner Use: Line Heater G. Other (describe): Space Heat Process Heat Heat Mechanism: Direct Indirect H. I. Burner Type (e.g., forced draft, natural draft, Forced Draft Additional Design Controls (e.g., FGR, etc.): N/A J. \boxtimes Under Construction K. Operating Proposed Status: 2. Fuel Type Complete the following table, identifying each type of fuel and the amount used. Specify the units for heat content, hourly usage, and yearly usage. MAXIMUM **FUEL TYPE** HEAT % SULFUR % ASH MAXIMUM YEARLY CONTENT HOURLY **USAGE USAGE** 1,000 BTU/CF < 0.001 < 0.001 490 4.3 MMCF Field Gas Please list any fuel components that are hazardous air pollutants and the percentage in the fuel:

No analyzed HAP's have been identified as components in the fuel; however, AP-42, Tables 1.4-2, 1.4-3, and 1.4-4 project certain HAP's to be potentially present in exhaust vapors.

	l Bugines	-	quipment –	Internal C	Combusti	on	Sect	tion OP	GP- D
1.			int Description						
	A.		oint Designation (Re		002				
	B.	Equipment	Description (includi	ng serial number)	: 165 HP RIC	E for power of	il pump		
	C.	Manufactur	er: <u>TBD</u>			Manufacture del No.:	Pre- 200	06	
	E.	Maximum I	Heat Input (higher h	eating value):	1.22	MMBtu/hr			
	F.	Rated Powe	er: 165	hp	123	kW			
	G.	Is the engin	e an EPA-certified e	engine?	No	Yes or No			
	H.	Use:	Non-emerger	су	Emer	gency			
	I.	Displaceme	nt per cylinder:		s 🗆	10 to <30 Lite	ers	<u></u> ≥30	Liters
	J.	Engine Igni	tion Type:	Spark Ignit	tion	☐ Compre	ssion Igni	ition	
	K.	Engine Bur		4-stroke	2-stroke	e 🛚	Rich Bu	rn 🗌	Lean Burn
	L.	Status:		Operating	Propose	ed 🗌	Under C	onstruction	
	M.		struction, reconstructions are detected in the structure of the structure			n (for	Pre	- 2006	-
2.		el Type							
		plete the follo	owing table, identify HEAT CONTENT	ing each type of f % SULFUR	wel and the am	ount used. Sp MAXIM HOURLY U	UM	s of measure MAXIM YEARLY	IUM
	Gas	Nat. s/propane	1020 BTU/Ft3	0.00004	0.0	1.20 MG	CF	10,47	8

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE **Section OPGP-E** Tank Summary 1. Emission Point Description Emission Point Designation (Ref. No.): AA-008 (Power Oil Tank No. 1) Product(s) Stored: Oil В. Under Construction Operating Proposed C. Status: Date of construction, reconstruction, or most recent modification (for existing sources) or date of anticipated construction: 2021 Tank Data Tank Specifications: 21,000 gallons 1. Design capacity ٥F 2. True vapor pressure at storage temperature: 11.55 psia @ ambient Maximum true vapor pressure (as defined in 11.55 psia (a) ambient 3. §60.111b) Reid vapor pressure at storage temperature: 11.55 psia @ ambient 4. Density of product at storage temperature: 7.2 lb/gal 5. Molecular weight of product vapor at storage temp. 48 lb/lbmol Horizontal Vertical Tank Orientation: B. C. Type of Tank: Internal Floating Roof Fixed Roof External Floating Roof Other: Variable Vapor Space Pressure D. Is the tank equipped with a Vapor Recovery System Yes No and/or flare? If yes, describe below and include the efficiency of each. The tanks will be vented to the flare. If a VRU is necessary, it will be installed. E. Closest City: Meridian, MS Tupelo, MS ☐ Mobile, AL Jackson, MS New Orleans, LA Memphis, TN Baton Rouge, LA Yes \square No Is an E&P or similar report described in Condition 5.4(5) of the General Permit included for this tank in the Notice of Intent?

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL FORM 5 MDEQ QUALITY APPLICATION FOR AIR POLLUTION CONTROL PERMIT

						L .	E-WIATI I		
Ta	nk	Sum	mary						Section H
3.	Ho	rizon	tal Fixed Roof Ta	nk				•	
	A. B. C. D. E. F.	Shell Works Maxir Is the Is the	Length: Diameter: ing Volume: num Throughput: tank heated? tank underground? Color/Shade:		Yes Yes		No No		
		Ш			Alum	ninum/Specular			Aluminum/Diffuse
			Gray/Light		Gray	/Medium			Red/Primer
	H.	Shell	Condition:	Good		☐ Poor			
4.	Ve	rtical	Fixed Roof Tank	(
	A.	1. 2. 3. 4. 5. 6. 7.	nsions: Shell Height: Shell Diameter: Maximum Liquid Heig Average Liquid Height Working Volume: Turnovers per year: Maximum throughput: Is the tank heated?		Yes	25 feet 12 feet 24.8 feet 18 feet 21,000 gal 159.1 3,340,554 gal/yr No			
	B.		Characteristics: Shell Color/Shade: White/White			Aluminum/Specular			Aluminum/Diffuse
			☑ Gray/Light			Gray/Medium			Red/Primer
		2.	Shell Condition:	\boxtimes	Good	Poor			
	C.	1.	Characteristics: Roof Color/Shade: ☐ White/White ☑ Gray/Light			Aluminum/Specular Gray/Medium			Aluminum/Diffuse Red/Primer
			• •			_	_	_	
			Roof Condition:		Good	_	Poor		
		3.	Type:	Ц	Cone		Dome		
		4.	Height: 0.1		feet				

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL FORM 5 MDEQ QUALITY APPLICATION FOR AIR POLLUTION CONTROL PERMIT

	-	~		I DANIEL	C - 42 TT
1 a	nk	<u>Sun</u>	mary		Section H
5.	Int	erna	Floating Roof Tank		
	A.	Tank	Characteristics:		
		1.	Diameter:	feet	
		2.	Tank Volume:	gal	
		3.	Turnovers per year:		
		4.	Maximum Throughput:	gal/yr	
		5.	Number of Columns:		
		6.	Self-Supporting Roof? Ye	es 🔲 No	
		7.	Effective Column Diameter:		
		•	9"x7" Built-up Column	8" Diameter Pipe	Unknown
		8.	Internal Shell Condition:		
		0.		e Rust 🔲 Gunit	e Lining
		9.	External Shell Color/Shade:	_ =	&
		,	☐ White/White ☐ Aluminum/	Specular	inum/Diffuse
				ım 🔲 Red/P)
			☐ Gray/Light ☐ Gray/Media	ım 🗀 Reu/F	rimer
		10.	External Shell Condition:	Good Poor	
		11.	Roof Color/Shade:	_	
			☐ White/White ☐ Aluminum/	Specular	oiffuse
			☐ Gray/Light ☐ Gray/Media	um 🔲 Red/Primer	
		10	р (о 1):	□ n	
		12.	Roof Condition: Good	☐ Poor	
	В.	Rim	Seal System:	_	
		1.	Primary Seal:	☐ Liquid-mounted ☐	Vapor-mounted
		2.	Secondary Seal: Shoe-mounted	☐ Rim-mounted	☐ None
		۷.	Secondary Sear. Bloc-mounted	Li Kim mounted	
	C.	Deck	Characteristics:		
		1.	Deck Type:	☐ Welded	
		2.	Deck Fitting Category: Typical	☐ Detail	
			Book I timig Gatogory.		
6.	Ex	tern	l Floating Roof Tank		
		Tr. 1	Olements della co		
	A.		Characteristics	£t	
		1.	Diameter:	feet	
		2.	Tank Volume:	gal	
		3.	Turnovers per year:		
		4.	Maximum Throughput:	gal/yr	
		5.	Internal Shell Condition:	ъ	•
			☐ Light Rust ☐ Dens	e Rust	iing

FORM 5

MDEQ

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY APPLICATION FOR AIR POLLUTION CONTROL PERMIT

nk	Sun	amary	y									Section 1
Ex	terna	al Floa	ting Roof	Tank (c	conti	nued)						
A.	Tank 6.	Paint C	teristics (cont olor/Shade: /hite/White	tinued):	Alun	ninum/Specul	ar		Alu	minum/I	Diffu	se
		☐ G	ray/Light		Gray	/Medium			Rec	/Primer		
	7.	Paint C	ondition:		Good	i		Poor				
B.	Roof 1.	f Charact Roof T		☐ Pont	toon			Doul	ole De	eck		·
	2.	Roof F	itting Catego	ry:		□ Тур	oical			Detail		
C.	Tank 1.		action and Ri construction:	m-Seal Sys	stem:	☐ We	lded			Riveted	l	
	2.	Primary	y Seal: Jechanical Sl	hoe		Liquid-mou	nted			Vapor-r	nour	nted
					ب	Liquid-illou	inted			v upor 1		
Po	3. olluta	□ N	ary Seal Ione	Shoe-n	- -	_		mounte	ed			
	lluta	nt Em	ary Seal Ione	_	- -	_		mounte	ed			
Po A.	olluta Fixe	nt Em	ary Seal Ione	Shoe-n	nounte	_					W	eather shield
	olluta Fixe	nt Em	ary Seal Ione	Shoe-n	nounte	d 🗆	Rim-1		ss (to	ns/yr)	W	eather shield
	Fixe Polls	nt Em	ary Seal Ione	Shoe-n	nounte	d 🗆	Rim-1	ng Los	ss (tor	ns/yr)	W	eather shield I Emissions tons/yr)*
	Fixe Polls	nt Em	ary Seal Ione	Shoe-n	nounte	d 🗆	Rim-1	ng Los ol W& 0.143	ss (tor B 0. 39	ns/yr)	W	al Emissions tons/yr)* 30.96 2.8191 0.6979
	Fixe Polluta VOC Hexa	nt Em	issions Emissions:	Shoe-n	nounte	d 🗆	Rim-1	ng Los 0.143 0.033	ss (toi B 0. 39 55	ns/yr)	W	l Emissions tons/yr)* 30.96 2.8191 0.6979 0.0102
	Fixe Polls VOC Hexa Benz Ethy	nt Em d Roof E utant¹ C ane zene dbenzene	issions Emissions:	Shoe-n	nounte	d 🗆	Rim-1	ng Los 0.143 0.035 0.000	ss (tor B 0. 39 55 55	ns/yr)	W	l Emissions tons/yr)* 30.96 2.8191 0.6979 0.0102 0.3890
	Fixe Polla VOC Hexa Benz Ethy	nt Em d Roof E utant¹ C ane zene dbenzene	issions Emissions:	Shoe-n	nounte	d 🗆	Rim-1	ng Los 0.143 0.033	ss (tor B 0. 39 55 55	ns/yr)	W	l Emissions tons/yr)* 30.96 2.8191 0.6979 0.0102
	Fixe Polla VOC Hexa Benz Ethy Tolu Xyle	nt Em d Roof E utant¹ C ane zene elbenzene ene	issions Emissions:	Shoe-n Workin	nounte	d 🗆	Rim-1	ng Los 0.143 0.035 0.000 0.020 0.013	B 0. 39 55 05 01	ns/yr)	Tota	l Emissions tons/yr)* 30.96 2.8191 0.6979 0.0102 0.3890

^{1.} All regulated air pollutants including hazardous air pollutants emitted from this source should be listed in accordance with the Permit Application Instructions. A list of regulated air pollutants and hazardous air pollutants is provided in the Application Instructions.

^{2.} Landing losses should be determined according to the procedures in *Organic Liquid Storage Tanks* chapter of EPA's AP-42 emission factors. If the roof is not landed at least once/yr, enter "NA".

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE Section OPGP-E Tank Summary 1. Emission Point Description AA-008 (Oil Storage Tank No. 2) Emission Point Designation (Ref. No.): Product(s) Stored: Oil В. Operating \boxtimes Proposed Under Construction C. Status: Date of construction, reconstruction, or most recent modification (for existing sources) or date of anticipated construction: 2021 **Tank Data** Tank Specifications: 16,800 gallons 1. Design capacity True vapor pressure at storage temperature: 11.55 psia @ ambient 2. Maximum true vapor pressure (as defined in 11.55 ambient psia @ 3. §60.111b) Reid vapor pressure at storage temperature: 11.55 psia @ ambient 4. Density of product at storage temperature: lb/gal 7.2 5. Molecular weight of product vapor at storage temp. 48 lb/lbmol Vertical П Horizontal Tank Orientation: C. Type of Tank: Internal Floating Roof Fixed Roof External Floating Roof П Other: Pressure Variable Vapor Space D. Is the tank equipped with a Vapor Recovery System Yes No and/or flare? If yes, describe below and include the efficiency of each. The tanks will be vented to the flare. If a VRU is necessary, it will be installed. E. Closest City: Tupelo, MS Mobile, AL Jackson, MS Meridian, MS New Orleans, LA Memphis, TN Baton Rouge, LA Yes \square No Is an E&P or similar report described in Condition 5.4(5) of the General Permit included for this tank in the Notice of Intent?

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE **Section OPGP-E** Tank Summary **Horizontal Fixed Roof Tank** Shell Length: feet feet Shell Diameter: B. Working Volume: gal Maximum Throughput: gal/yr Yes E. Is the tank heated? No Is the tank underground? Yes No F. Shell Color/Shade: Aluminum/Diffuse Aluminum/Specular Red/Primer Gray/Medium Gray/Light Poor Shell Condition: Good Vertical Fixed Roof Tank A. Dimensions: Shell Height: feet 1. 12 feet 2. Shell Diameter: 19 feet 3. Maximum Liquid Height: ~10 feet 4. Average Liquid Height: 16,800 Working Volume: 5. gal 91.25 (est. for each oil storage tank) 6. Turnovers per year: MMgal/yr (for entire tank battery) Maximum throughput: 3.066 7. Is the tank heated? No. Shell Characteristics: Shell Color/Shade: White/White \boxtimes Aluminum/Specular Aluminum/Diffuse П Red/Primer Gray/Medium Gray/Light XPoor 2. Shell Condition: Good C. Roof Characteristics: Roof Color/Shade: \boxtimes Aluminum/Specular ☐ Aluminum/Diffuse White/White Gray/Medium Red/Primer Gray/Light Good Poor 2. Roof Condition: \boxtimes Dome Cone 3. Type: 4. 1 Height:

			MINOR SOURCE		
Ta	nk	Sun	nmary		Section OPGP-E
5.	Int	erna	al Floating Roof Tank		
	A.		Characteristics:		
		1. 2.	Diameter: feet Tank Volume: gal		
		2. 3.	Tank Volume: gal Turnovers per year:		
		<i>4.</i>	Maximum Throughput: gal/yr		
		5.	Number of Columns:		
		6.	Self-Supporting Roof?		
		7.	Effective Column Diameter:		
		_	9"x7" Built-up Column 8" Diameter Pipe		☐ Unknown
		8.	Internal Shell Condition:		Consider I indicate
			Light Rust Dense Rust		Gunite Lining
		9.	External Shell Color/Shade: White/White Aluminum/Specular		Aluminum/Diffuse
			Minter write	_	7 Hamman, Dillaco
			☐ Gray/Light ☐ Gray/Medium		Red/Primer
		10.	External Shell Condition: Good	Poor	
		11.	Roof Color/Shade:	1 001	
				Alumir	num/Diffuse
			☐ Gray/Light ☐ Gray/Medium ☐ I	Red/Pr	imer
		12.	Roof Condition: Good Poor		
	В.	Rim	Seal System:		
		1.	Primary Seal:	i	☐ Vapor-mounted
					-
		2.	Secondary Seal: Shoe-mounted Rim-mo	unted	☐ None
	C.	Decl	k Characteristics:		
	О.		Deck Type:		
			71		
		2.	Deck Fitting Category:		
6.	Ex	tern	al Floating Roof Tank		
-					
	A.		k Characteristics		
		1.	Diameter: feet		
		2.	Tank Volume: gal		
		3.	Turnovers per year:		
		4. 5.	Maximum Throughput: gal/yr		
		э.	Internal Shell Condition: ☐ Light Rust ☐ Dense Rust ☐	Guni	ite Lining
			□ Digiti Rust □ Dottse Rust □	Juii	in minit

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE **Section OPGP-E** Tank Summary **External Floating Roof Tank (continued)** Tank Characteristics (continued): Paint Color/Shade: Aluminum/Diffuse White/White Aluminum/Specular Red/Primer Gray/Medium Gray/Light ☐ Poor Paint Condition: Good 7. Roof Characteristics Double Deck Roof Type: Pontoon Detail Roof Fitting Category: Typical 2. Tank Construction and Rim-Seal System: Tank Construction: Riveted Welded 2. Primary Seal: Vapor-mounted Mechanical Shoe Liquid-mounted 3. Secondary Seal Weather shield Rim-mounted ☐ None Shoe-mounted **Pollutant Emissions** 7. Fixed Roof Emissions: **Total Emissions** Pollutant¹ Working Loss (tons/yr) Breathing Loss (tons/yr) (tons/yr) No emissions occur from the tanks since gasses are routed to the flare. VOC/HAP B. Floating Roof Emissions: **Total Emissions** Deck Seam Landing Pollutant¹ Rim Seal Deck Fitting Withdrawal Loss² (tons/yr) Loss Loss Loss Loss (tons/yr) (tons/yr) (tons/yr) (tons/yr) (tons/yr) 1. All regulated air pollutants including hazardous air pollutants emitted from this source should be listed in accordance with the OGP Application Instructions. A list of regulated air pollutants and a link to EPA's list of hazardous air pollutants is provided in the OGP Application Instructions. 2. Landing losses should be determined according to the procedures in Organic Liquid Storage Tanks chapter of EPA's AP-42 emission factors. If the roof is not landed at least once/yr, enter "NA".

Ta	nk	Summary Section OPGP-E
1.	Em	hission Point Description
	A. B.	Emission Point Designation (Ref. No.): AA-008 (Oil Storage Tank No. 3) Product(s) Stored: Oil
	C.	Status: Operating
	D.	Date of construction, reconstruction, or most recent modification (for existing sources) or date of anticipated construction: 2021
2.	Ta	nk Data
	A.	Tank Specifications: 1. Design capacity 2. True vapor pressure at storage temperature: 3. Maximum true vapor pressure (as defined in \$60.111b) 4. Reid vapor pressure at storage temperature: 5. Density of product at storage temperature: 6. Molecular weight of product vapor at storage temp. 16,800 gallons 211.55 psia @ ambient °F 3 ambient °F 4 ambient °F 5 psia @ ambient °F 5 psia @ ambient °F 5 psia @ ambient °F 6 psia @ ambient °F 6 psia @ ambient °F 6 psia @ ambient °F 7 psia @
	В.	Tank Orientation:
	C.	Type of Tank:
		☐ Fixed Roof ☐ External Floating Roof ☐ Internal Floating Roof
		☐ Pressure ☐ Variable Vapor Space ☐ Other:
	D.	Is the tank equipped with a Vapor Recovery System Yes No and/or flare? If yes, describe below and include the efficiency of each. The tanks will be vented to the flare. If a VRU is necessary, it will be installed.
	E.	Closest City: ☐ Jackson, MS ☐ Meridian, MS ☐ Tupelo, MS ☐ Mobile, AL
		☐ New Orleans, LA ☐ Memphis, TN ☐ Baton Rouge, LA
	F.	Is an E&P or similar report described in Condition 5.4(5) of the General Permit included for this tank in the Notice of Intent?

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE **Section OPGP-E** Tank Summary **Horizontal Fixed Roof Tank** A. Shell Length: Shell Diameter: feet B. Working Volume: gal C. Maximum Throughput: gal/yr E. Is the tank heated? Yes No F. Is the tank underground? Yes No Shell Color/Shade: Aluminum/Specular ☐ Aluminum/Diffuse Red/Primer Gray/Light Gray/Medium П Good Poor H. Shell Condition: **Vertical Fixed Roof Tank** A. Dimensions: 1. Shell Height: 20 feet Shell Diameter: 12 feet 2. 3. Maximum Liquid Height: 19 feet ~10 Average Liquid Height: feet 4. Working Volume: 16,800 5. gal Turnovers per year: 91.25 (est. for each oil storage tank) 6. MMgal/yr (for entire tank battery) 7. Maximum throughput: 3.066 Is the tank heated? 8. Yes ⊠ No Shell Characteristics: Shell Color/Shade: \boxtimes Aluminum/Specular П Aluminum/Diffuse White/White Red/Primer Gray/Medium Gray/Light \times Good Poor Shell Condition: Roof Characteristics: Roof Color/Shade: Aluminum/Diffuse ☐ White/White \boxtimes Aluminum/Specular Red/Primer Gray/Medium Gray/Light **Roof Condition:** Good Poor 2. \boxtimes Cone Dome 3. Type: 4. Height: 1 feet

		~	MINUR SOURCE	G .: ODCD E
<u>Ta</u>	nk	<u>Sun</u>	nmary	Section OPGP-E
5.	Int	erna	ll Floating Roof Tank	
	A.		Characteristics:	
		1.	Diameter: feet	
		2.	Tank Volume: gal	
		3.	Turnovers per year:	
		4.	Maximum Throughput: gal/yr	•
		5.	Number of Columns: Self-Supporting Roof?	
		6. 7.	Self-Supporting Roof?	
		/.	9"x7" Built-up Column	· Unknown
		8.	Internal Shell Condition:	
		0.	Light Rust Dense Rust	Gunite Lining
		9.	External Shell Color/Shade:	<u> </u>
			☐ White/White ☐ Aluminum/Specular ☐	Aluminum/Diffuse
			☐ Gray/Light ☐ Gray/Medium ☐	Red/Primer
		10.		oor
		11.	Roof Color/Shade: White/White Aluminum/Specular Aluminum/Specular	uminum/Diffuse
			☐ Gray/Light ☐ Gray/Medium ☐ Red	d/Primer
		12.	Roof Condition: Good Poor	
	B.		Seal System:	□ Monon monunto d
		1.	Primary Seal:	☐ Vapor-mounted
		2.	Secondary Seal:	ted None
	C.	Deck	k Characteristics:	
	О.	1.	Deck Type:	
		2.	Deck Fitting Category: Typical Detail	
6.	Ex	tern:	al Floating Roof Tank	
	Λ	Torl	Characteristics	
	A.	1 ans	Diameter: feet	
		2.	Tank Volume: gal	
		3.	Turnovers per year:	
		4.	Maximum Throughput: gal/yr	
		5.	Internal Shell Condition:	
				Gunite Lining

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE **Section OPGP-E** Tank Summary **External Floating Roof Tank (continued)** Tank Characteristics (continued): Paint Color/Shade: Aluminum/Diffuse White/White Aluminum/Specular Gray/Medium Red/Primer Gray/Light Poor 7. Paint Condition: Good Roof Characteristics Double Deck Roof Type: Pontoon 1. Detail Typical 2. Roof Fitting Category: Tank Construction and Rim-Seal System: Welded Riveted Tank Construction: Primary Seal: 2. Mechanical Shoe Liquid-mounted Vapor-mounted 3. Secondary Seal Weather shield ☐ None Shoe-mounted Rim-mounted 7. **Pollutant Emissions** Fixed Roof Emissions: Total Emissions Breathing Loss (tons/yr) Pollutant1 Working Loss (tons/yr) (tons/yr) No emissions occur from the tanks since gasses are routed to the flare. VOC / HAP B. Floating Roof Emissions: Pollutant¹ Total Emissions Rim Seal Deck Fitting Deck Seam Landing Withdrawal Loss² (tons/yr) Loss Loss Loss Loss (tons/yr) (tons/yr) (tons/yr) (tons/yr) (tons/yr) 1. All regulated air pollutants including hazardous air pollutants emitted from this source should be listed in accordance with the OGP Application Instructions. A list of regulated air pollutants and a link to EPA's list of hazardous air

2. Landing losses should be determined according to the procedures in Organic Liquid Storage Tanks chapter of EPA's AP-42 emission factors. If the roof is not landed at least once/yr, enter "NA".

pollutants is provided in the OGP Application Instructions.

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE Section OPGP-E Tank Summary 1. Emission Point Description AA-008 (Oil Storage Tank No. 4) Emission Point Designation (Ref. No.): Product(s) Stored: Oil \boxtimes Under Construction Proposed Status: Operating D. Date of construction, reconstruction, or most recent modification (for existing sources) or date of anticipated 2021 construction: **Tank Data** 2. Tank Specifications: gallons 16,800 1. Design capacity 2. True vapor pressure at storage temperature: 11.55 psia @ ambient Maximum true vapor pressure (as defined in 11.55 psia @ ambient 3. §60.111b) 11.55 ambient Reid vapor pressure at storage temperature: psia @ 4. Density of product at storage temperature: lb/gal 5. 7.2 lb/lbmol Molecular weight of product vapor at storage temp. 48 Horizontal Vertical B. Tank Orientation: Type of Tank: Fixed Roof External Floating Roof Internal Floating Roof П П Other: Variable Vapor Space Pressure \boxtimes No D. Is the tank equipped with a Vapor Recovery System ☐ Yes and/or flare? If yes, describe below and include the efficiency of each. The tanks will be vented to the flare. If a VRU is necessary, it will be installed. Closest City: E. Mobile, AL Tupelo, MS Meridian, MS Jackson, MS Memphis, TN Baton Rouge, LA New Orleans, LA \boxtimes Yes 🗀 No Is an E&P or similar report described in Condition 5.4(5) of the General Permit included for this tank in the Notice of Intent?

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE **Section OPGP-E** Tank Summary Horizontal Fixed Roof Tank Shell Length: feet A. feet Shell Diameter: В. C. Working Volume: gal gal/yr Maximum Throughput: D. Yes No E. Is the tank heated? No Is the tank underground? Yes F. Shell Color/Shade: Aluminum/Diffuse Aluminum/Specular Red/Primer Gray/Medium Gray/Light ☐ Good Poor H. Shell Condition: **Vertical Fixed Roof Tank** Dimensions: 20 feet Shell Height: 1. 12 feet Shell Diameter: 2. feet 3. Maximum Liquid Height: 19 ~10 feet Average Liquid Height: 4. 16,800 5. Working Volume: gal Turnovers per year: 91.25 (est. for each oil storage tank) 6. MMgal/yr (for entire tank battery) 7. Maximum throughput: 3.066 No. 8. Is the tank heated? Yes B. Shell Characteristics: Shell Color/Shade: Aluminum/Diffuse \boxtimes Aluminum/Specular White/White Red/Primer Gray/Medium Gray/Light Poor \boxtimes Good Shell Condition: Roof Characteristics: Roof Color/Shade: ☐ Aluminum/Diffuse Aluminum/Specular White/White \boxtimes Gray/Medium Red/Primer Gray/Light Good Poor 2. **Roof Condition:** \boxtimes Dome Cone 3. Type: 1 Height:

Ta	nk	Summ	ary		MINOR BOOKEL	Section OPGP-E
5.			loating Roof Ta	nk		
<i>J</i> .	A.	Tank Cha 1. Dia 2. Tan 3. Tur 4. Ma 5. Nur 6. Sel 7. Eff 8. Inte	aracteristics: meter: ak Volume: movers per year: ximum Throughput: mber of Columns: f-Supporting Roof? ective Column Diama 9"x7" Built-up Col ernal Shell Condition Light Rust ernal Shell Color/Sha	eter: umn		☐ Unknown Gunite Lining Aluminum/Diffuse
		11. Ro	Gray/Light rernal Shell Condition of Color/Shade: White/White Gray/Light of Condition:	 	Gray/Medium	num/Diffuse
	B.	1. Pri	l System: mary Seal:		nical Shoe	☐ Vapor-mounted ☐ None
	C.	1. De	aracteristics: ck Type: ck Fitting Category:	Bolt [ed	
6.	Ex	ternal I	loating Roof Ta	<u>ank</u>		
	A.	 Dia Tar Tu Ma 	aracteristics ameter: nk Volume: rnovers per year: aximum Throughput: ernal Shell Condition Light Rust	ı:	feet gal gal/yr Dense Rust Gur	nite Lining

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE **Section OPGP-E** Tank Summary **External Floating Roof Tank (continued)** A. Tank Characteristics (continued): Paint Color/Shade: ☐ Aluminum/Diffuse Aluminum/Specular ☐ White/White Red/Primer Gray/Medium Gray/Light Poor Good Paint Condition: 7. Roof Characteristics Double Deck Pontoon Roof Type: Detail **Typical** Roof Fitting Category: 2. Tank Construction and Rim-Seal System: Welded П Riveted Tank Construction: Primary Seal: 2. Liquid-mounted Vapor-mounted ☐ Mechanical Shoe Secondary Seal 3. Weather shield Rim-mounted ☐ None Shoe-mounted **Pollutant Emissions** 7. Fixed Roof Emissions: Total Emissions Breathing Loss (tons/yr) Working Loss (tons/yr) Pollutant1 (tons/yr) No emissions occur from the tanks since gasses are routed to the flare. VOC / HAP B. Floating Roof Emissions: **Total Emissions** Pollutant¹ Deck Fitting Deck Seam Landing Rim Seal Withdrawal Loss² (tons/yr) Loss Loss Loss Loss (tons/yr) (tons/yr) (tons/yr) (tons/yr) (tons/yr) 1. All regulated air pollutants including hazardous air pollutants emitted from this source should be listed in accordance with the OGP Application Instructions. A list of regulated air pollutants and a link to EPA's list of hazardous air pollutants is provided in the OGP Application Instructions. 2. Landing losses should be determined according to the procedures in Organic Liquid Storage Tanks chapter of EPA's AP-42 emission factors. If the roof is not landed at least once/yr, enter "NA".

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE **Section OPGP-E** Tank Summary **Emission Point Description** AA-008 (Water Storage Tank No. 1) Emission Point Designation (Ref. No.): Produced Water Product(s) Stored: Under Construction \boxtimes Proposed Status: Operating Date of construction, reconstruction, or most recent modification (for existing sources) or date of anticipated 2021 construction: **Tank Data** Tank Specifications: 16,800 gallons 1. Design capacity psia @ 1.15 ambient 2. True vapor pressure at storage temperature: Maximum true vapor pressure (as defined in 1.15 psia @ ambient 3. §60.111b) 1.15 psia @ ambient Reid vapor pressure at storage temperature: 4. 7.2 Density of product at storage temperature: lb/gal 5. Molecular weight of product vapor at storage temp. 48 lb/lbmol 6. Horizontal 冈 Vertical Tank Orientation: B. Type of Tank: C. Internal Floating Roof Fixed Roof External Floating Roof Other: Variable Vapor Space Pressure D. Is the tank equipped with a Vapor Recovery System Yes No and/or flare? If yes, describe below and include the efficiency of each. The tanks will be vented to the flare. If a VRU is necessary, it will be installed. Closest City: E. ☐ Mobile, AL Tupelo, MS Meridian, MS Jackson, MS Baton Rouge, LA Memphis, TN New Orleans, LA Yes \square M No Is an E&P or similar report described in Condition 5.4(5) of the General Permit included for this tank in the Notice of Intent?

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE **Section OPGP-E** Tank Summary Horizontal Fixed Roof Tank feet Shell Length: A. feet Shell Diameter: В. gal Working Volume: C. Maximum Throughput: gal/yr D. Yes No E. Is the tank heated? No Yes Is the tank underground? F. Shell Color/Shade: Aluminum/Diffuse Aluminum/Specular Ш Red/Primer Gray/Medium Gray/Light Poor H. Shell Condition: Good **Vertical Fixed Roof Tank** Α. Dimensions: 20 Shell Height: feet 1. 12 feet Shell Diameter: 2. feet Maximum Liquid Height: 19 ~10 feet Average Liquid Height: 4. 16,800 Working Volume: gal 5. 1 Turnovers per year: 6. Maximum throughput: 15,330 gal/yr 7. No. Is the tank heated? Yes 8. Shell Characteristics: В. Shell Color/Shade: Aluminum/Diffuse \boxtimes Aluminum/Specular White/White П Red/Primer Gray/Medium Gray/Light \boxtimes Poor Good Shell Condition: 2. Roof Characteristics: Roof Color/Shade: Aluminum/Diffuse \boxtimes Aluminum/Specular White/White Red/Primer Gray/Medium Gray/Light Good Poor **Roof Condition:** \boxtimes Dome Cone 3. Type: 1 ____ Height:

Ta	nk	Summary	Section OPGP-E
5.		ernal Floating Roof Tank	
3.	A.	Tank Characteristics: 1. Diameter:	☐ Unknown Gunite Lining Aluminum/Diffuse Red/Primer num/Diffuse imer
		12. Roof Condition: Good Poor	
	B.	Rim Seal System: 1. Primary Seal:	☐ Vapor-mounted ☐ None
	C.	Deck Characteristics: 1. Deck Type:	
6.	Ext	ternal Floating Roof Tank	
	A.	Tank Characteristics 1. Diameter:	ite Lining

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE Section OPGP-E **Tank Summary External Floating Roof Tank (continued)** Tank Characteristics (continued): Paint Color/Shade: Aluminum/Diffuse ☐ White/White Aluminum/Specular Red/Primer Gray/Medium Gray/Light Paint Condition: Good Poor 7. Roof Characteristics Double Deck Roof Type: Pontoon Detail Roof Fitting Category: Typical 2. Tank Construction and Rim-Seal System: Welded Riveted Tank Construction: Primary Seal: 2. Vapor-mounted Liquid-mounted Mechanical Shoe 3. Secondary Seal Weather shield Shoe-mounted Rim-mounted ☐ None **Pollutant Emissions** Fixed Roof Emissions: **Total Emissions** Pollutant¹ Working Loss (tons/yr) Breathing Loss (tons/yr) (tons/yr) No emissions occur from the tank since gasses are routed to the flare. VOC / HAP B. Floating Roof Emissions: Deck Seam **Total Emissions** Pollutant¹ Deck Fitting Landing Rim Seal Withdrawal Loss² (tons/yr) Loss Loss Loss Loss (tons/yr) (tons/yr) (tons/yr) (tons/yr) (tons/yr) 1. All regulated air pollutants including hazardous air pollutants emitted from this source should be listed in accordance with the OGP Application Instructions. A list of regulated air pollutants and a link to EPA's list of hazardous air pollutants is provided in the OGP Application Instructions. 2. Landing losses should be determined according to the procedures in Organic Liquid Storage Tanks chapter of EPA's

AP-42 emission factors. If the roof is not landed at least once/yr, enter "NA".

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE **Section OPGP-F** Flare **Equipment Description** 1. Emission Point Designation (Ref. No.): AA-001 Equipment Description (include the process(es) that the flare controls emissions В. from): The flare is utilized to combust produced gas, and to combust emissions from the heater treater and oil and water storage tanks. Manufacturer: D. Model: Custom C. Custom **Under Construction** Operating \boxtimes Proposed E. Status: Requesting a federally enforceable condition to route tank emissions to the flare. F. **System Data** 2. % Controlling the following pollutant(s): VOC Efficiency: 98 Controlling the following pollutant(s): HAP 98 % Efficiency: Reason for different efficiency: Flare Data (if applicable): В. Non-assisted Air-assisted Steam-assisted 1. Flare type: Other: 2. Net heating value of combusted gas: Est. 1,000 Btu/scf Design exit velocity: N/A ft/sec 3. Auto-ignitor Continuous Flame 4. System: No Yes Is the presence of a flare pilot flame monitored? 5. If yes, please describe the monitoring: thermocouple ⊠ Yes No Is the auto-ignitor system monitored? 6. If yes, please describe the monitoring: Daily inspections

Section OPGP-G

Part 1. Equipment List

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

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
Subpart ZZZZ	10/01/2002	11/15/2019	N/A
Subpart OOOOa	10/01/2019	11/15/2019	N/A
lmin. Code Pt. 2, R.1.4.B(2).	12/01/2019	12/02/2019	N/A
intended to be conclusive for each type of emission so	urce. This list only provides e	examples of ho	w the table
lmin. Code Pt. 2, R.1.4.B(2).	7/01/2022 (est.)	09/01/2022 (est.)	N/A
Subpart ZZZZ	7/01/2022 (est.)	09/01/2022 (est.)	N/A
lmin. Code Pt. 2, R.1.3.B.	7/01/2022 (est.)	09/01/2022 (est.)	N/A
lmin. Code Pt. 2, R.1.3.D(1)(a).	7/01/2022 (est.)	09/01/2022 (est.)	N/A
Subpart OOOOa	7/01/2022 (est.)	09/01/2022 (est.)	N/A

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DOI/OI DICKE STATE OF THE STATE	Section OPGP-G
Part 1. Equipment List	

corresponding federal and/or state regulation that is applicable. Clearly identify federal regulations from state requirements. Prov	vide
struction date, startup date and removal date if the equipment is no longer on site.	

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
0, Subpart OOOOa	7	7/01/2022 (est.)	09/01/2022 (est.)	

Section OPGP-G

Part 2. Applicable Requirements

deral requirements, including emission limits, operating restrictions, etc., and the applicable test methods or monitoring used to each applicable requirement. Clearly identify federal regulations from state requirements. Provide the compliance status as of the

CABLE REQUIREMENT ecific Regulatory citation)	POLLUTANT	LIMITS/ REQUIREMENTS	TEST METHOD/ COMPLIANCE MONITORING
le 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
95(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.
iin. Code Pt. 2, R.1.4.B(2).	H ₂ S	1 grain H ₂ S 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.
led to be conclusive for each type o	f emission source. Th	is list only provides examples of how the tal	ble should be completed.
n. Code Pt. 2, R.1.4.B(2).	H ₂ S	Any gas stream containing as much as 1 grain H ₂ S 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.
ibpart ZZZZ, (§63.6590(a))	НАР	Applicability	Applicability Only
ıbpart ZZZZ, (§63.6603 & Table	НАР	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

Section OPGP-G

Part 2. Applicable Requirements

deral requirements, including emission limits, operating restrictions, etc., and the applicable test methods or monitoring used to each applicable requirement. Clearly identify federal regulations from state requirements. Provide the compliance status as of the

CABLE REQUIREMENT ecific 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.	
ıbpart ZZZZ, (§63.6605)	НАР	Continuous 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
ıbpart ZZZZ, (§63.6640 (a) and	НАР	i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or	Process Knowledge
		ii. Develop and follow your own maintenance plan	
ıbpart ZZZZ, (§63.6655 (a),(d) and	HAP	Recordkeeping Requiremnts	Recordkeeping
ıbpart ZZZZ, (§63.6660 (a),(b) and	НАР	General recordkeeping requirements	Recordkeeping
ıbpart ZZZZ,	НАР	Report any failure to perform a required work practice as scheduled	Reporting
ıbpart ZZZZ, (§63.6665 (a) and	НАР	Applicable requirements under 40 CFR 63 subpart A	Applicability

Section OPGP-G

Part 2. Applicable Requirements

deral requirements, including emission limits, operating restrictions, etc., and the applicable test methods or monitoring used to each applicable requirement. Clearly identify federal regulations from state requirements. Provide the compliance status as of the

CABLE REQUIREMENT ecific Regulatory citation)	POLLUTANT	LIMITS/ REQUIREMENTS	TEST METHOD/ COMPLIANCE MONITORING
65a(i)	VOC and Methane	Applicability	Applicability only
97a(a-g)	VOC and Methane	Develop a fugitive emission monitoring plan	Upon Startup
97a(h)	VOC and Methane	Fugitive emission source repair or replacement requirements	Written Plan development
25a and Table 3	VOC and Methane	Applicability of General Provisions of 40 CFR 60, Subpart A	Applicability only
10a(j)	VOC and Methane	Demonstration of initial compliance	Monitoring
5a(h)	VOC and Methane	Demonstration of continuous compliance	Monitoring
20a(c)	VOC and Methane	Recordkeeping requirements	Monitoring and Recordkeeping
20a(b)	VOC and Methane	Reporting requirements	Reporting
65a(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.

Section OPGP-G

Part 2. Applicable Requirements

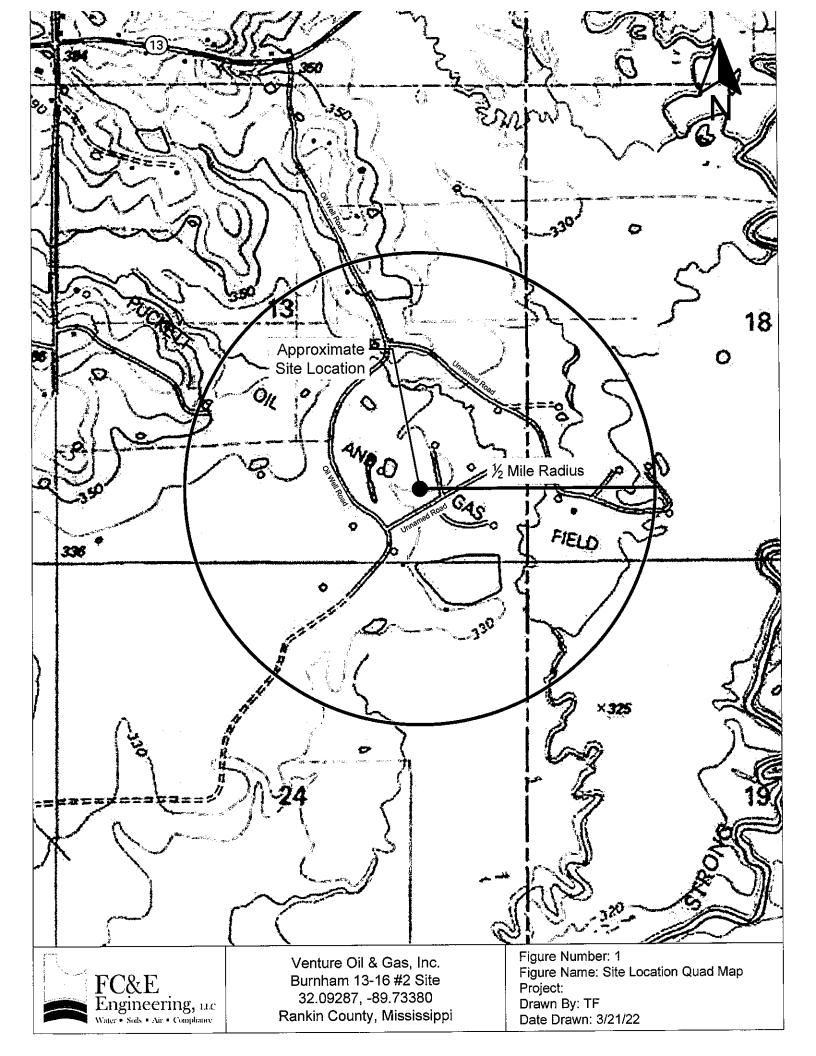
deral requirements, including emission limits, operating restrictions, etc., and the applicable test methods or monitoring used to each applicable requirement. Clearly identify federal regulations from state requirements. Provide the compliance status as of the

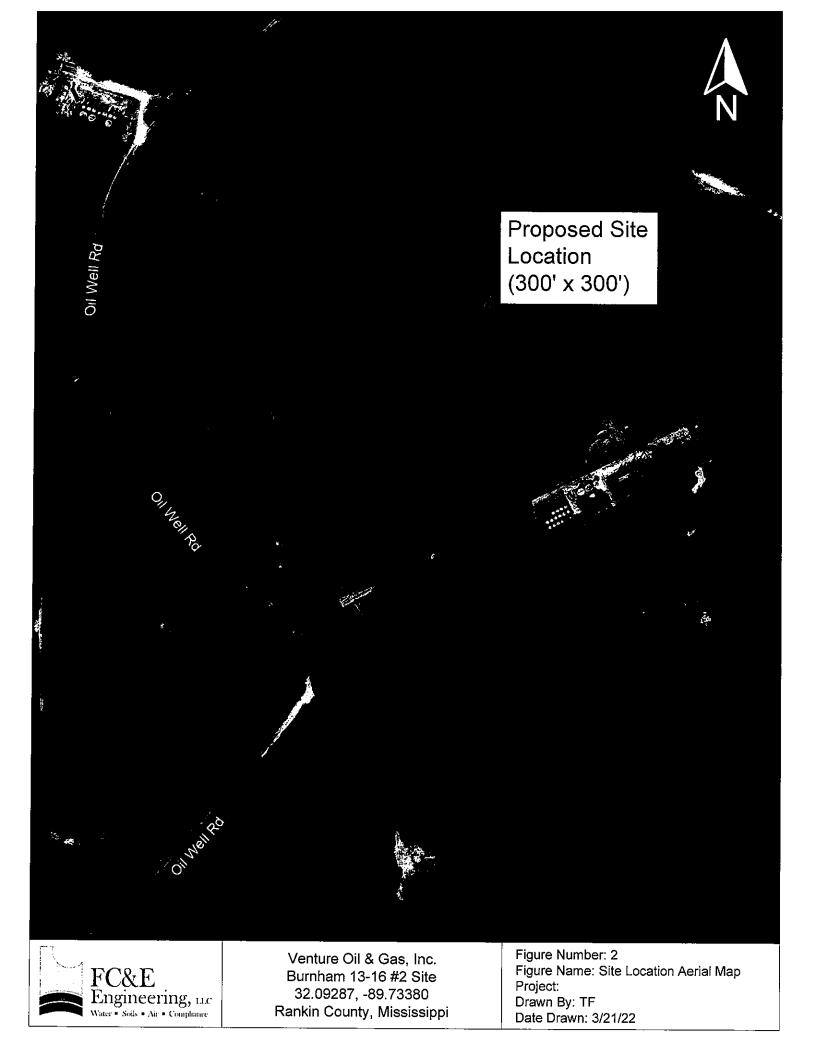
LICABLE REQUIREMENT (Specific Regulatory citation)	POLLUTANT	LIMITS/ REQUIREMENTS	TEST METHOD/ COMPLIANCE MONITORING	
40 CFR 60.5365a(a)	voc	Applicability	Process Knowledge	
40 CFR 60.5375a(a)	VOC	Completion standards/procedures for VOC control	Process Knowledge	
40 CFR 60.5410a(a) 40 CFR 60.5415a(a)	voc	Submit notification, annual report, maintain log of records, as applicable	Recordkeeping and Reporting	
40 CFR 60.5420a	voc	Specific notification, recordkeeping and reporting requirements.	Recordkeeping and Reporting	
<u> </u>				
	101010			

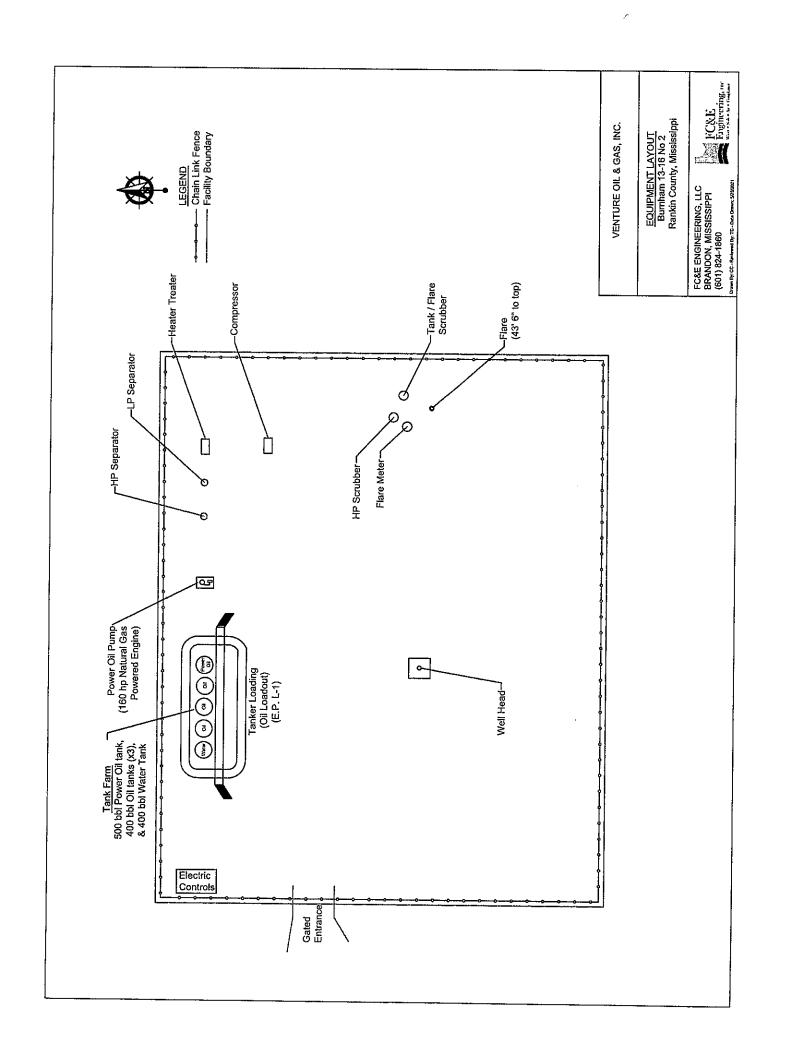
			Section OPGP-G			
Part 2. Applicable Requirements						
deral requirements, including emis-	sion limits, operating rest	rictions, etc., and the applicable test me ations from state requirements. Provide	ethods or monitoring used to the compliance status as of the			
CABLE REQUIREMENT ecific Regulatory citation)	POLLUTANT	LIMITS/ REQUIREMENTS	TEST METHOD/ COMPLIANCE MONITORING			
		-				

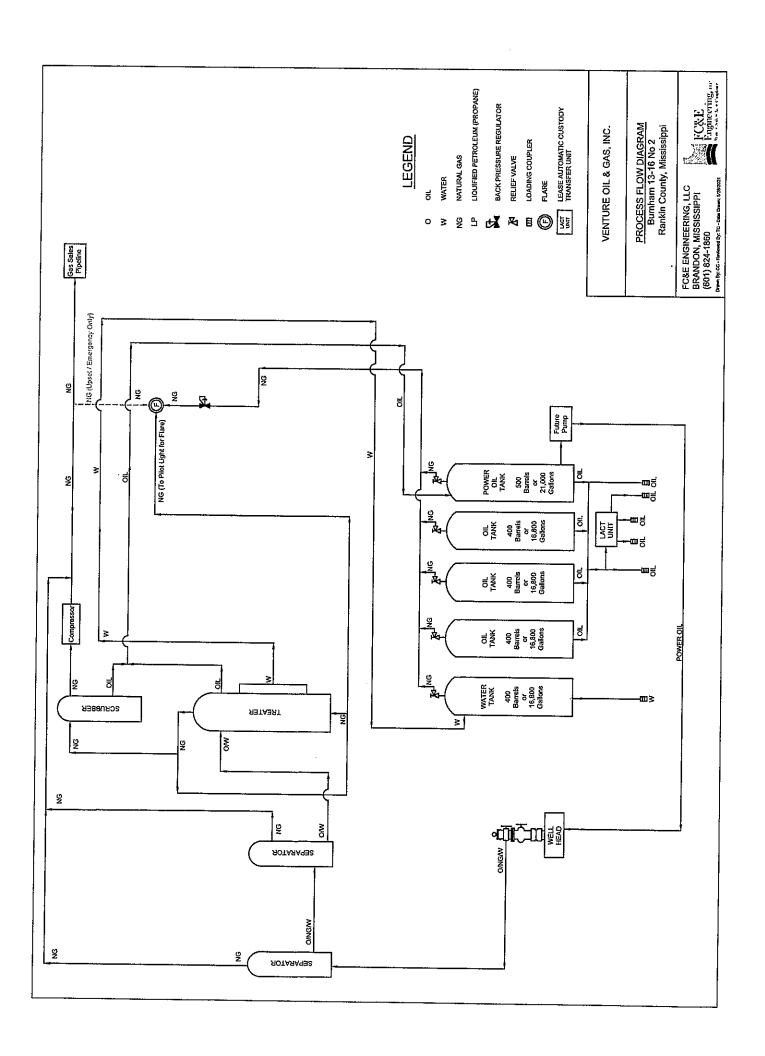
OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO

FIGURES









ATTACHMENT A

Calculations for Venture Burnham 13-16 No. 2 Tank Battery

3/21/2022 1 of 22

Site Information for Calculations

98.00%

No. 2 Tank Battery			
n	109,500 bbl/yr		
	219,000 mcf/yr		
	3,650 bbl/yr		
	350 bbl/day (expected r	naximum daily production)
	750 mcf/day (expected r	maximum daily production)
	10 bbl/day (expected r	naximum daily production)
	49		,,
	1.31 SCF/stock ta	nk bbl	(estimated using E&P Tanks)
	73.74 SCF/stock ta	nk bbl	(estimated using E&P Tanks)
	0.0131 SCF/stock ta	nk bbl	(using 1% of oil tank emissions)
	0.7374 SCF/stock ta	nk bbl	(using 1% of oil tank emissions)
	0.00%		

Emission Point Summary

- 10 (1972年 - 1973年 - 1972年	5 .5 (1.7) 2 3 (4.17)		& 7(3	©,5342,461 . (%3.20),
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
removed				
AA-003	Fugitive emissions- equipment leaks	-	•	8760
AA-004	High Pressure Separator	-	<u>-</u>	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	-	<u>.</u>	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.

3/21/2022 3 of 22

Proposed Annual Emissions, controlled

		Annual Emissions, tpy							GHG Emissions, tpy			
Jnit	PM	PM10	PM2.5	voc	NOx	co	SO2	Total HAPs	CO2	CH4	N2O	CO2e
	0.29	0.29	0.29	33.08	10.75	49.01	0.00	1,5152	18570.38	75.42	0.03	20465.06
	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.0004	25.59	0.00	0.00	25.62
Engine	0.051	0.104	0.104	0.16	11.83	19.91	0.003	0.1735	624.23	0.01	0.00	624.88
iquipment	-	-	-	0.28	-	-	-	0.0159	0.03	0.00	0.00	0.03
parator		Gas	routed to	Flare								
parator		Gas	routed to	Flare ,							-	
ter		Gas	routed to	Flare							<u>-</u>	
ourner)	0.00408	0.01632	0.01632	0.01181	0.21471	0.18035	0.00129	0.0041	255.45	0.00	0.00	255.71
:s (4)	-	-	-	0.02	-	-	-	0.0190	-	-	-	-
(4)		Gas	routed to	flare								
				16.76				0.7498	0.05	0.25	0	6.24
	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	0.35	0.42	0.42	50.30	22.81	69.12	0.00	2.4780	19475.72	75.68	0.03	21377.53

ed in flare emissions.

Potential Annual Emissions, uncontrolled

		estina e e e e	Anr	nual Emi	issions,	tpy			GHG Emissions, tpy			
nit	PM	PM10	PM2.5	voc	NOx	CO	SO2	Total HAPs	CO2	CH4	N2O	CO2e
sions	-	-	-	1653.95	-	-	-	75.76	346.68	4749.63	0.00	119087.32
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
quipment	-	-	-	0.28	-	-	-	0.02	0.03	0.33	0.00	8.21
parator		Gas	routed to	Flare								
parator		Gas	routed to	Flare								
:er		Gas	routed to	Flare								
ourner)	0.00	0.02	0.02	0.01	0.21	0.18	0.00	0.0041	232.23	0.00	0.00	232.47
Tanks	-	-	-	0.02	-	-	-	0.02	-	-	-	_
e Tanks		Gas	routed to	flare								
١g				16.76				0.7498	0.05	0.25	0	6.24
٢	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	0.05	0.12	0.12	1671.17	12.04	20.09	0.00	76.72	1203.21	4750,22	0.00	119959.12

ed in flare emissions, AA-001.

Facility Maximum Hourly Emissions, Controlled

	en e	Emissions, lb/hr								GHG Emissions, lb/hr			
Init	PM	PM10	PM2.5	VOC	NOx	co	SO2	Total HAPs	CO2	CH4	N2O	CO2e	
	0.07	0.07	0.07	7.55	2.45	11.19	0.00	0.42	4239.81	17.22	0.01	4672.39	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.84	0.00	0.00	5.85	
Engine	0.01	0.02	0.02	0.04	2.70	4.55	0.00	0.04	142.52	0.00	0.00	142.67	
equipment	-	-	-	0.06	-	-	-	0.00	0.01	0.00	0.00	0.01	
parator				GAS ROU	TED TO FL	ARE							
parator	-			GAS ROU	TED TO FL	ARE			•••				
ter				GAS ROU	TED TO FL	ARE							
ourner)	0.00	0.00	0.00	0.00	0.05	0.04	0.00	0.00	58.32	0.00	0.00	58.38	
Tanks	-	-	-	0.00	-	-	-	0.00		-	-	0.00	
ge Tanks				GAS ROU	TED TO FL	ARE	<u>'</u>			•			
ng	-	-	-	117.72	-	-		5.27	0.01	0.06	Ó	1.42	
r	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	0.08	0.09	0.09	125.38	5.21	15.78	0.001	5.74	4446.51	17.28	0.01	4880.71	

ed in flare emissions.
dictated by the capacity of the transfer pump

Flash Gas Analysis and Conversions

Γ'	T		
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.

3/21/2022 7 of 22

Produced Gas Analysis and Conversions

Component	VOC and/or HAP?	Mol %	Wt %
Total S	None	0.000%	0.00000%
CO2	None	2.157%	4.579%
N2	None	0.891%	1.204%
Methane	None	81.104%	62.757%
Ethane	None	9.041%	13.112%
Propane	voc	7.242%	7.242%
Isobutane	VOC	0.783%	2.195%
Butane	voc	1.187%	3.328%
Isopentane	voc	0.413%	1.437%
Pentane	voc	0.371%	1.291%
Hexane	voc	0.000%	0.565%
n-Hexane	VOC and HAP	0.136%	0.565%
Heptanes+	voc	0.297%	2.290%
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		6.807%	18.348%
Total HAP		0.196%	0.679%

Heat of combustion, Btu/ft ³	1353.0
Molecular weight	26.18

3/21/2022 8 of 22

TANK W & B GAS COMPOSITION

Component	VOC and/or	Mol %	Wt %			
	HAP?					
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	0.749809
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.

3/21/2022 9 of 22

Tank Uncontrolled Emissions Summary

<u>Potential</u> <u>Pr</u>	<u>oduction</u>	
Total flash gas , 8,077,222 SCF/yr	1,076	SCF/hr
Total flash gas , 479.88 tpy	127.82	lb/hr
Total tank W&B loss 143,493 SCF/yr	19	SCF/hr
Total tank W &B losses 9.53 tpy	2.54	lb/hr
Total tank emissions 489.41 tpy	130.35	lb/hr
Tank emissions to flare 489.41 tpy	130.35	lb/hr
2691.51		
0.16 0.15	0.0004	

Notes:

3/21/2022 10 of 22

^{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:

		<u>Potential</u>
Flow to flare of tank flash gas	=	479.88 tpy
Flow to flare of tank W&B emissions		9.53 tpy
flow to flare from truck loading	=	0.00 tpy
Total process gas to flare	=	489.41 tpy
Produced gas to flare	=	7553.91 tpy
	=	219000.00 mcf/yr

Produced gas combustion heat = 296307.00 MMBtu/yr process gas combustion heat = 19903.96 MMBtu/yr flare gas combustion heat, total = 316210.96 MMBtu/yr

			<u>Potential Emissions</u>				<u>missions</u>
	<u>Pollutant</u>	Emission factor, lbs/MMBtu	<u>lb/hr</u>	<u>tpy</u>	<u>Pollutant</u>	<u>lb/hr</u>	tpy
	NOx	0.068	2.455	10.751	n-hexane	0.2708	1.1862
Calculation	CO	0.31	11.190	49.013	benzene	0.0297	0.1301
	PM	0.00186	0.004	0.294	e-benzene	0.0020	0.0088
	voc	mass balance	7.552	33.079	toluene	0.0276	0.1210
	SO ₂	mass balance	0.000	0.000	xylenes	0.0158	0.0690
F	PM10/PM2.5	0.00745	0.269	1.178	Total HAPs	0.3459	1.5152

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.
- Mass balance calculations utilize flare input gas flow and a flare destruction efficiency 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

3/21/2022 11 of 22

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

	=	127.82 lbs/hr
sions		2.54 lbs/hr
	=	0.00 lbs/hr
	=	130.35 lbs/hr
	=	2155.80 lbs/hr
	=	31.25 mcf/hr
d gas combustion heat	=	42.28 MMBtu/hr
gas combustion heat	=	2.65 MMBtu/hr
combustion heat, total	=	44.93 MMBtu/hr

	Maximum Hourly Emissions		Potential Emissions
sion factor, Ibs/MMBtu	<u>lb/hr</u>	<u>Pollutant</u>	<u>lb/hr</u>
0.068	3.055	n-hexane	0.3322
0.37	16.625	benzene	0.0361
0.00745	0.335	e-benzene	0.0025
mass balance	9.338	toluene	0.0334
mass balance	0.000	xylenes	0.0190
		Total HAPs	0.4231

m AP-42, Table 13.5-1, are used to calculate NOx and CO emissions, and PM n AP-42, Table 1.4-2.

ations utilize flare input process gas flow and a flare destruction efficiency

Ifur assumes all sulfur converted to SO2 in flare.

Jated using mass balance and 98% destruction efficiency

Calculation of Uncontrolled Emissions of Produced Gas

		<u>Potential</u>
Flow to flare from tank flash gas	=	479.88 tpy
Flow to flare from tank W&B emissions	=	9.53
flow to flare from truck loading	=	0.00 tpy
Produced gas to flare from separators	=	7553.91 tpy

		<u>Potential (</u>	<u> missions</u>
<u>Pollutant</u>	Emission factor, lbs/MMBtu	<u>lb/hr</u>	<u>tpy</u>
VOC	mass balance	377.614	1653.95
H2S	mass balance	0.000	0.00
n-hexane	mass balance	13.541	59.31
benzene	mass balance	1.486	6.51
e-benzene	mass balance	0.101	0.44
toluene	mass balance	1.382	6.05
Calculation xylenes	mass balance	0.788	3.45
total HAPs	mass balance	17.297	75.76
methane	mass balance	1084.389	4749.63
CO2	mass balance	79.152	346.68

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

3/21/2022 13 of 22

Venture Burnham 13-16 No. 2 Tank Battery Oil General Permit Coverage Application

Calculation of Flare GHG Emissions

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

PROCESS GAS

carbon	CO2 (from combustion)		CO2 input	CH4, uncombusted		N2O	CO2e
atoms	cubic ft.	tpy	tpy	cubic ft.	tpy¹	tpy ¹	tpy
			1.69E+00	1.86E+04	3.94E-01	1.10E-03	1.19E+01
1	9.13E+05	5.28E+01	*				5.28E+01
2	1.03E+06	5.93E+01					5.93E+01
3	4.69E+06	2.71E+02					2.71E+02
4	1.04E+07	6.00E+02					6.00E+02
5+	1.06E+07	6.11E+02					6.11E+02
Total	2.75E+07	1.59E+03	1.69E+00	1.86E+04	3.94E-01	1.10E-03	1.61E+03

PRODUCED GAS

produced gas to flare, mmcf/yr

219.00

8.07

0.0001

98.00%

carbon	CO2 (from combustion) CO2 input CH4, un		CH4, unco	mbusted	N2O	CO2e	
atoms	cubic ft.	tpy	tpy	cubic ft. tpy		tpy	tpy
			2.73E+02	3.55E+06	7.50E+01	2.98E-02	2.16E+03
1	1.74E+08	1.01E+04					1.01E+04
2	3.88E+07	2.25E+03					2.25E+03
3	4.66E+07	2.70E+03					2.70E+03
4	1.69E+07	9.79E+02					9.79E+02
5+	1.22E+07	7.08E+02					7.08E+02
Total	2.89E+08	1.67E+04	2.73E+02	3.55E+06	7.50E+01	2.98E-02	1.89E+04

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

3/21/2022 14 of 22

Equipment Component Fugitive Emissions

Emission Factor ¹	Emissions	Wt. Fraction	VOC Em	issions	voc%	HAP Em	issions	GHG E	missions, t	on/yr
scf/hr/component	lbs/hr	voc	lb/hr	tpy	HAP ³	lb/hr	tpy	CO2	CH4	CO2e

0.027	0.044702609	0.18	0.008	0.04	0.68%	0.000	0.001	0.007087	0.097233	2.44
0.05	0.04484058	0.54	0.024	0.11	5.34%	0.002	0.010	0.007109	0.088667	2.22
0.0005	0	0.18	0.000	0.00	0.68%	0.000	0.000	0	0	0.00
	0	0.18			0.68%	0.000	0.000	0	0	0.00
0.01	0	0.73	0.000	0.00	1.66%	0.000	0.000	0	0	0.00
0	0	0.18			0.68%	0.000	0.000	0	0	0.00
	0	0.18			0.68%	0.000	0.000	0	0	0.00
0	0	0.18	0.000	0.00	0.68%	0.000	0.000	0	0	0.00
0.003	0.00952	0.73	0.007	0.03	1.66%	0.000	0.001	0.001509	0.018825	0.47
0.0009	0	0.18	0.000	0.00	0.68%	0.000	0.000	0	0	0.00
· · · · · · · · · · · · · · · · · · ·	0	0.18			0.68%	0.000	0.000	. 0	0	0.00
0.04	0.011037681	0.18	0.002	0.01	0.68%	0.000	0.000	0.00175	0.021826	0.55
	0	0.18			0.68%	0.000	0.000	0	0	0.00
0.003	0.013866087	0.18	0.003	0.01	0.68%	0.000	0.000	0.002198	0.027418	0.69
0.007	0.016418551	0.73	0.012	0.05	1.66%	0.000	0.001	0.002603	0.032466	0.81
0.0003	0	0.18	0.000	0.02	0.68%	0.000	0.000	0	Ö	0.00
0.3	0.020695652	0.18	0.004	0.02	1.66%	0.000	0.002	0.003281	0.040923	1.03
		Totals	0.060	0.278		0.004	0.016	0.026	0.327	8.209

ts taken from 40 C ity greater than or	FR 98, subpart W. equal to 20 degrees	a API.	<u>Equipment</u>	<u>Count</u>	Valves	Fla	<u>nges</u> Fitt	ings <u>prv</u>	Other	
oment assumed to	be same as produc	ed gas,	wellhead		1	5	10	4	0	1
ssumed to be the	same as flash gas.		heater treater		1	8	12	20	0	0
	<u>lb/hr</u>	tpy	header		0	0	0	0	0	0
nexane	0.00303	0.01327	separator		2	12	24	20	0	
nzene	0.00027	0.00120	meters/piping		0	0	0	0	0	0
ıyl benzene	0.00002	0.00009	compressor		1	12	0	57	4	0
uene	0.00021	0.00092	dehydrator		0	0	0	0	0	0
ene	0.00011	0.00047		total		37	46	101	4	1

ENGINE POTENTIAL EMISSIONS CALCULATIONS

	Emissions, tpy						GHG E	missions, t	ons/yr	
NOx	VOC	CO	SO2	TSP	PM10	PM2.5	CO2	CH4	N2O	CO2e
11.83	0.16	19.91	0.00	0.05	0.10	0.10	624.23	1.18E-02	0.001	624.88
11.83	0.16	19,91	0.00	0.05	0.10	0.10	624.23	0.01	0.00	624.88

		GHG Emission
Conversion Factor, g to lbs		<u>Factors</u>
0.0022046		kg/mmBtu
	CO2	53.02
	CH4	0.001
	NZO	0.0001

ENGINE HAP EMISSIONS CALCULATIONS

	Natural Gas	AA-	002	
	Emission Factor,	HAP EM	IISSIONS	
HAP	lbs/mmBtu	lbs/hr	tpy	
1,1,2,2-Tetrachloroethane	2.53E-05	3.09E-05	1.35E-04	
1,1,2-Trichloroethane	1.53E-05	1.87E-05	8.19E-05	
1,3-Butadiene	6.63E-04	8.10E-04	3.55E-03	
1,3-Dichloropropene	1.27E-05	1.55E-05	6.80E-05	
Acetaldehyde	2.79E-03	3.41E-03	1.49E-02	
Acrolein	2.63E-03	3.21E-03	1.41E-02	
Benzene	1.58E-03	1.93E-03	8.46E-03	
Carbon Tetrachloride	1.77E-05	2.16E-05	9.47E-05	
Chlorobenzene	1.29E-05	1.58E-05	6.90E-05	
Chloroform	1.37E-05	1.67E-05	7.33E-05	
Ethylbenzene	2.48E-05	3.03E-05	1.33E-04	
Ethylene Dibromide	2.13E-05	2.60E-05	1.14E-04	
Formaldehyde	2.05E-02	2.50E-02	1.10E-01	
Methanol	3.06E-03	3.74E-03	1.64E-02	
Methylene Chloride	4.12E-05	5.03E-05	2.20E-04	
Naphthalene	9.71E-05	1.19E-04	5.20E-04	
PAH	1.41E-04	1.72E-04	7.55E-04	
Styrene	1.19E-05	1.45E-05	6.37E-05	
Toluene	5.58E-04	6.82E-04	2.99E-03	
Vinyl Chloride	7.18E-06	8.77E-06	3.84E-05	
Xylene	1.95E-04	2.38E-04	1.04E-03	
Total	•	3.96E-02	1.73E-01	

AA-002 heat input=

1.22 mmBtu/hr

annual operating hours=

8760

Emission factors from AP-42, Table 3.2-3

3/21/2022 17 of 22

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	Loadin g Rate	E	Uncontrolled Estim Emissions, Total Hydrocarbo		
	(psia)	(lb/lb- mole)	(R)	(10 ³ gal/yr)	(gal/hr)	ել	(lb/hr)	(tpy)	
1.45	5	48.00	545	4,599	16,000	7.96	127.30	18.30	

PRODUCED WATER

Cal	lcui	lati	ioi

or	"S"	True VP of Liquid	Of	Temp. of Liquid	Loaded Volume	Loadin g Rate	E	rolled Es missions Hydroca	,
I	* *	(psia)	(lb/lb- mole)	(R)	(10 ³ gal/yr)	(gal/hr)	7	(lb/hr)	(tpy)
	1.45	0.05	48.00	545	153	16,000	0.08	1.27	0.01

HAP\$	tons/yr
Benzene	0.080402
Toluene	0.07961
e-Benzene	0.003069
Xylenes	0.041931
n-hexane	0.544796
	0.749809

3/21/2022

18 of 22

Truck Loading Emissions Calculations, Maximum Ibs/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"	True VP	Mol. Wt. Of	Temp. of	Sales Volume	Loadin g Rate		rolled Est missions	
Factor	Liquid	Vapors	Liquid		. - .	Total	Hydrocai	bons
	(psia)	(lb/lb- mole)	(R)	(10 ³ gal/hr)	(gal/hr)	ել	(lb/hr)	
1.45	5	48.00	545	16.0	16,000	7.96	127.30	

PRODUCED WATER

Calculation

	EPA	True VP	Mol. Wt.	Temp.	Loaded	Loadin	Uncont	rolled Es	timated
	"S"	of	Of	of	Volume	g Rate	E	missions	;,
or	Factor	Liguid	Vapors	Liquid			Total	Hydrocas	bons
		(psia)	(lb/lb-	'(R)	(10 ³ gal/hr)	(gal/hr)	L_L	(lb/hr)	
			mole)	14.00			- 1		
	1.45	0.05	48.00	545	16.0	16,000	0.08	1.27	

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

3/21/2022 19 of 22

nal Combustion Equipment Emissions Calculations

		Emission	s, tons/yr		i			,		
PM10	Pm 2.5	NOx	CO	VOC	SO2	HAP				
0.016	0.016	0.215	0.180	0.012	0.001	0.004	255.45	0.00	0.00	255.72
0.008	0.008	0.107	0.090	0.006	0.001	0.000	127.73	0.00	0.00	127.86
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	lhs/MMRtu

EIIIIDOIQI	11 deters, 153/1411415ta
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

	Natural Gas	Natural Gas Heater Treater Flare Pilot					Line Heater		
	Emission Factor,	HAP EN	4ISSIONS	HAP EM	ISSIONS	HAP EM	ISSIONS		
HAP	lbs/mmBtu	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

3/21/2022 21 of 22

FLARE PILOT CALCULATIONS

pacity		Criteria Emissions, tons/yr												
4BTUH	PM	PM10	PM2.5	NOx	CO	VOC	SO2	HAP						
0.05	0.000	0.002	0.002	0.021	0.018	0.001	0.000	0.000						

pacity	GHG	Emissions	, metric to	ns/yr	GHG Emissions, short tons/yr					
4BTUH	CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e		
0.05	23.223	0.000	0.000	23.246	25.59	0.00	0.00	25.62		

Gas combustion

42 Em	ission Factors, lbs/MMBtu	Emission Factors, kg/MMBt					
	0.001863	CO2	53.02				
10	0.007451	CH4	0.001				
2.5	0.007451	N2O	0.0001				
<	0.098039						
	0.082353						
2	0.005392						
:	0.000588						
's	0.001851						

APPENDIX B: BACKUP DOCUMENTATION

Emissions Report - Summary Format Tank Indentification and Physical Characteristics

Identification

User Identification: City: State: Company: Anti-Foam Tank Stringer Mississippi

Venture Oil Horizontal Tank

Type of Tank: Description:

250-Gallon Anti-Foam Tank

Tank Dimensions

 Shell Length (ft):
 5.00

 Diameter (ft):
 5.00

 Volume (gallons):
 250.00

 Turnovers:
 1.46

 Net Throughput(gallyr):
 365.00

 Is Tank Heated (y/n):
 N

Is Tank Heated (y/n):
Is Tank Underground (y/n):

Paint Characteristics

Shell Color/Shade: White/White Shell Condition Good

Breather Vent Settings

Vacuum Settings (psig): Pressure Settings (psig) -0.03 0.03

Meterological Data used in Emissions Calculations: Jackson, Mississippi (Avg Atmospheric Pressure = 14.59 psia)

TANKS 4.0.9d Emissions Report - Summary Format Liquid Contents of Storage Tank

Anti-Foam Tank - Horizontal Tank Stringer, Mississippi

Mixture/Component	Month		ally Liquid S perature (d Min.		Liquid Bulk Temp (deg F)	Vapo Avg.	r Pressure Min.	(psia) Max.	Vapor Mol. Weight,	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Welght	Basis for Vapor Pressure Calculations
Toluene	All	66.19	60.06	72.32	64.24	0.3992	0.3307	0.4793	92.1300			92.13	Option 2: A=6,954, B=1344.8, C=219.48

TANKS 4.0.9d Emissions Report - Summary Format Individual Tank Emission Totals

Emissions Report for: Annual

Anti-Foam Tank - Horizontal Tank Stringer, Mississippi

		Losses(lbs)										
Components	Working Loss	Breathing Loss	Total Emissions									
Toluene	0.32	7.47	7.79									

Emissions Report - Summary Format Tank Indentification and Physical Characteristics

Identification

User Identification:

Corrosion Inhibitor Tank

City: State: Company: Type of Tank: Stringer Mississippi Venture Oil Horizontal Tank

Description:

55-Gallon Corrosion Inhibitor Drum(s)

Tank Dimensions

 Shell Length (ft):
 5.00

 Diameter (ft):
 3.00

 Volume (gallons):
 55.00

 Turnovers:
 20.00

 Net Throughput(gallyr):
 1,095.00

Is Tank Heated (y/n):
Is Tank Underground (y/n):

18 Talik Olidergiotii

Paint Characteristics Shell Color/Shade:

White/White

Shell Condition Good

Breather Vent Settings

Vacuum Settings (psig): Pressure Settings (psig) -0.03

0.03

Meterological Data used in Emissions Calculations: Jackson, Mississippi (Avg Atmospheric Pressure = 14.59 psia)

TANKS 4.0.9d Emissions Report - Summary Format Liquid Contents of Storage Tank

Corrosion Inhibitor Tank - Horizontal Tank Stringer, Mississippi

		D	ally Liquid S	Surf.	Liquid Bulk Temp	Vapo	or Pressure		Vapor Mol.	Liquid Mass	Vapor Mass	Mol.	Basis for Vapor Pressure
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg,	Min.	Max.	Weight.	Fract.	Fract.	Weight	Calculations
Toluene	All	66.19	60.06	72.32	64.24	0.3992	0.3307	0.4793	92.1300			92.13	Option 2: A=6.954, B=1344.8, C=219.48

TANKS 4.0.9d Emissions Report - Summary Format Individual Tank Emission Totals

Emissions Report for: Annual

Corrosion Inhibitor Tank - Horizontal Tank Stringer, Mississippi

	Losses(lbs)										
Components	Working Loss		Total Emissions								
Toluene	0,96	2.74	3.70								

Emissions Report - Summary Format Tank Indentification and Physical Characteristics

Identification

User Identification:

Emulsion Breaker Tank

City: State: Company: Type of Tank: Stringer Mississippi Venture Oil Horizontal Tank

Type of Tank: Description:

250-Gallon Emulsion Breaker Tank

Tank Dimensions

 Shell Length (ft):
 5.00

 Diameter (ft):
 5.00

 Volume (gallons):
 250.00

 Turnovers:
 2.92

 Net Throughput(gal/yr):
 730.00

Is Tank Heated (y/n): Is Tank Underground (y/n):

N N

Paint Characteristics

Shell Color/Shade: Shell Condition White/White

Good

Breather Vent Settings

Vacuum Settings (psig): Pressure Settings (psig)

-0.03 0.03

Meterological Data used in Emissions Calculations: Jackson, Mississippi (Avg Atmospheric Pressure = 14.59 psia)

TANKS 4.0.9d Emissions Report - Summary Format Liquid Contents of Storage Tank

Emulsion Breaker Tank - Horizontal Tank Stringer, Mississippi

,			aily Liquid S perature (d		Liquid Bulk Temp		r Pressure	(psia)	Vapor Mol.	Liqu d Mass	Vapor Mass	Mol.	Basis for Vapor Pressure
Mixture/Component	Month	Avg.	Mín.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight	Calculations
Toluene	All	66.19	60,06	72.32	64.24	0.3992	0.3307	0.4793	92.1300			92.13	Option 2: A=6.954. B=1344.8. C=219.48

TANKS 4.0.9d Emissions Report - Summary Format Individual Tank Emission Totals

Emissions Report for: Annual

Emulsion Breaker Tank - Horizontal Tank Stringer, Mississippi

	Losses(lbs)								
Components	Working Loss	Breathing Loss	Total Emissions						
Toluene	0.64	7.47	8.11						

Emissions Report - Summary Format Tank Indentification and Physical Characteristics

Identification

User Identification: City: State: Company:

Methanol Tank Stringer Mississippi

Venture Oil Horizontal Tank

Type of Tank: Description:

330-Gallon Methanol Tank

Tank Dimensions

Shell Length (ft): 5.00 Diameter (ft): 5.00 Volume (gallons): 330.00 Turnovers: 2.21 Net Throughput(gal/yr): 730.00 Is Tank Heated (y/n):

Is Tank Underground (y/n):

Paint Characteristics

Shell Color/Shade: Shell Condition

White/White

Good

Breather Vent Settings

Vacuum Settings (psig): Pressure Settings (psig)

-0.03 0.03

Meterological Data used in Emissions Calculations: Jackson, Mississippi (Avg Atmospheric Pressure = 14.59 psia)

TANKS 4.0.9d Emissions Report - Summary Format Liquid Contents of Storage Tank

Methanol Tank - Horizontal Tank Stringer, Mississippi

		Теп	Daily Liquid Surf. Temperature (deg F)		Liquid Bulk Temp Va		Vapor Pressure (psia)		Vapor Mol.	Liquid Mass	Vapor Mass	Mol.	Basis for Vapor Pressure
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Welght.	Fract.	Fract.	Weight	Calculations
Methyl alcohol	All	66,19	60.06	72.32	64.24	1.7478	1,4448	2.1035	32.0400			32.04	Option 2: A=7.897, B=1474.08, C=229.13

TANKS 4.0.9d Emissions Report - Summary Format Individual Tank Emission Totals

Emissions Report for: Annual

Methanol Tank - Horizontal Tank Stringer, Mississippi

		Losses(lbs)									
Components	Working Loss	Breathing Loss	Total Emissions								
Methyl alcohol	0.97	17.15									

```
Project Setup Information
***********************************
Project File : Untitled.Ept
Flowsheet Selection : Oil Tank with Separator
Calculation Method : AP42
Control Efficiency : 100.0%
Known Separator Stream : Geographical Region
Geographical Region : All Regions in US
Entering Air Composition : No
Well ID
                        : Venture Burnham 13-16 No. 2
Date
                        : 2022.03.18
***********************************
* Data Input
***********************************
Separator Pressure
                      : 45.00[psig]
Separator Temperature : 140.00[F]
Ambient Pressure : 14.70[psia]
Ambient Temperature : 140.00[F]
C10+ SG : 0.8930
C10+ MW
                        : 277.00
No. Component mol %
   1
         H2S
                              0.0000
        02
   2
                             0.0000
   3
        CO2
                             0.0400
       N2
C1
C2
C3
i-C4
n-C4
   4
                             0.0000
   5
                             1.2100
   6
                             0.7600
                             2.9200
   7
   8
                             4.1500
                             3.0600
   9
   10
      i-C5
                             3.9300
   11 n-C5
12 C6
13 C7
                            3.0900
                             4.9100
                           13.0800
   14 C8
15 C9
16 C10+
                           14.6200
                             7.6300
                           31.1400
                           0.6900
       Benzene
   17
       Toluene
                            1.9400
0.1900
   18
   19 E-Benzene
20 Xylenes
21 n-C6
                            2.9800
   21
        n-C6
                             3.6600
        224Trimethylp
                             0.0000
-- Sales Oil -----
Production Rate : 218[bbl/day]
Days of Annual Operation : 365 [days/year]
API Gravity : 47.0
Reid Vapor Pressure : 6.00[psia]
Bulk Temperature : 80.00[F]
-- Tank and Shell Data ------
Diameter
                      : 21.00[ft]
Shell Height : 16.00[ft]
Cone Roof Slope : 0.06
Average Liquid Height : 8.00[ft]
Vent Pressure Range : 0.06[psi]
Solar Absorbance : 0.39
Page 1----- E&P TANK
-- Meteorological Data ------
City : Jackson, MS
Ambient Pressure : 14.70[psia]
Ambient Temperature : 140.00[F]
Min Ambient Temperature : 52.70[F]
```

*** *	**************************************		*****	******	*****	*****	*****	***** *		

 Ite	Emission Summary m	Uncontrolled [ton/yr]	Uncontrol							
	al HAPs	23.460	5.356							
	al HC		99.952							
VOC	s, C2+	423.339	96.653							
VOC	s, C3+	407.954	93.140							
Unc	ontrolled Recove	=								
		16.3600	[MSCFD]							
	HC Vapor		[MSCFD]							
	GOR	75.05	[SCF/bbl]							
	Emission Composi	tion								
No	Component	Uncontrolled	Uncontrol	.led						
		[ton/yr]	[lb/hr]							
1	H2S	0.000	0.000							
2	02	0.000	0.000							
3	CO2	1.257	0.287							
4	N2	0.000	0.000							
5	C1	14.448	3.299							
6	C2	15.385	3.513							
7	C3	68.917	15.734							
8	i-C4	92.659	21.155							
9	n-C4	57.728	13.180							
10	i-C5	52.289	11.938							
11	n-C5	33.828	7.723							
12	C6	25.783	5.887							
13	C7	33.003	7.535							
14	C8	16.359	3.735							
15	C9	3.924								
16	C10+		0.896							
17		0.002 2.395	0.000 0.547							
18	Toluene									
19		2.803 0.125	0.640							
20		1.752	0.029							
		16.388	0.400 3.742							
	224Trimethylp		0.000							
24	Total	439.045	100.239							
	10041	755.045	100.255							
	Stream Data									
	Component ssions	MW	LP Oil	Flash Oil	Sale Oil	Flash Gas	W&S Gas	Total		
millT	2010119		mol %	mol %	mol º	mol %	mol %	mol %		
1	H2S	34.80		0.0000						
2	02	32.00	0.0000	0.0000	0.0000	0.0000	0.0000			
3	CO2	44.01	0.0400	0.0007	0.0021	0.3632	0.3184	0.0000 0.3624		
4	N2	28.01	0.0000	0.0000	0.0021	0.3032	0.0000	0.0000		
	C1	16.04			0.0000					
5	C2		1.2100	0.0481		11.5462	4.7561	11.4290		
6 7	C3	30.07	0.7600	0.1170	0.0860	6.4800	7.2324	6.4930		
		44.10	2.9200	1.0276	0.9354	19.7545	24.3085	19.8331		
8	i-C4	58.12	4.1500	2.3490	2.2672	20.1714	23.6003	20.2306		
9	n-C4	58.12	3.0600	1.9902	1.9437	12.5764	14.1699	12.6039		
10	i-C5	72.15	3.9300	3.3383	3.3160	9.1937	9.3778	9.1969		
11	n-C5	72.15	3.0900	2.7682	2.7574	5.9530	5.7777	5.9499		
12	C6	86.16	4.9100	5.0229	5.0308	3.9060	3.2822	3.8952		
	e2					E&				
13	C7	100.20	13.0800	14.0626	14.1081	4.3385	3.1381	4.3178		
14	C8	114.23	14.6200	16.0518	16.1129	1.8828	1.1624	1.8703		
15	C9	128.28	7.6300	8.4418	8.4755	0.4082	0.2166	0.4049		
16	C10+	166.00	31.1400	34.6405	34.7819	0.0001	0.0000	0.0001		
17	Benzene	78.11	0.6900	0.7237	0.7254	0.3904	0.3169	0.3891		
18	Toluene	92.13	1.9400	2.1144	2.1221	0.3882	0.2660	0.3861		

19	E-Benzene	106.17	0.1900	0.2097	0.2105	0.0150	0.0089	0.0149
20	Xylenes	106.17	2.9800	3.2913	3.3042	0.2110	0.1216	0.2094
21	n-C6	86.18	3.6600	3.7992	3.8073	2.4215	1.9462	2.4133
22	224Trimethylp	114.24	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	MW Stream Mole Ratio Heating Value Gas Gravity Bubble Pt. @ 100F RVP @ 100F Spec. Gravity @ 100F	[BTU/SCF] [Gas/Air] [psia] [psia]	148.51 1.0000 59.52 129.92 0.743	158.95 0.8989 10.16 49.63 0.751	159.17 0.8972 8.49 46.58 0.751	55.71 0.1011 3108.39 1.92	56.35 0.0018 3147.61 1.95	55.72 0.1028 3109.06 1.92



DELBERT HOSEMANN Secretary of State

This is not an official certificate of good standing.

Name History		
Name	Name Type	
VENTURE OIL & GAS INC.	Legal	
Business Information		
Business Type:	Profit Corporation	
Business ID:	558492	
Status:	Good Standing	
Effective Date:	11/07/1988	
State of Incorporation:	Mississippi	
Principal Office Address:		
Registered Agent		
Name		
JAY DONALD FENTON 207 South 13th Avenue Laurel, MS 39440		
Officers & Directors		
Name	Title	
Jay Donald Fenton 332 Luther Hill Road, A Ellisville, MS 39437	Incorporator	
William Edward Carpenter 112 Westminister Drive Hattiesburg, MS 39401	Incorporator	
Jay Donald Fenton 332 Luther Hill Rd Ellisville, MS 39437	Director, President	
Neil Scrimpshire 9 Heritage Trail Laurel, MS 39440	Director, Secretary, Vice President	