

November 15, 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 Martin 24-14 No. 1 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 Martin 24-14 No. 1 facility in Rankin County, MS. Also enclosed is a copy of the public notice which is to be published November 16, 2022.

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

Sincerely,

Toby M. Cook, P.E. Environmental Engineer



DEPT. OF ENVIRONMENTAL QUALITY

Ph: (601) 824-1860 Fax: (601) 824-9627

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: 10/16/2022

Venture Oil & Gas Martin 24-14 No. 1 facility located at Lat.32.07806, Long-89.74223, Rankin County, MS, approximately 1.95 miles ESE of Puckett, Mississippi, in Section 24, 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, engines for a well pump and a gas compressor, 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 Martin 24-14 No. 1 Facility Rankin County, Mississippi

Submittal Date: November 2022

PREPARED BY:

FC&E ENGINEERING, LLC

917 Marquette Road Brandon, Mississippi 39042 (601) 824-1860



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EXECUTIVE SUMMARY

Venture Oil & Gas Inc. (Venture) plans to drill a new well for the purposes of oil and gas production. The well (Martin 24-14 No. 1) will be located in Section 24, Township 3N, Range 5E, in Rankin County, Mississippi. The proposed site will include a conventional tank battery, flare, future compressor engine and pump engine 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 low pressure separators. 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 low pressure separators, 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, process gas from the low pressure separators, 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 Facility		
A. Owner/Company Name: Venture Oil & Gas Inc.	-	
B. Facility Name (if different than A. above): Venture Mar	tin 24-14 No	o. 1 Facility
C. Facility Air Permit/Coverage No. (if known): MSOPGP	2380-0	90139
D. Agency Interest No. (if known):	793	
E. Physical Address		
1. Street Address: Field Road off of Oil Well Road		
2. City: Brandon 3	. State:	MS
4. County: Rankin 5	. Zip Code: 3	39042
	. Fax No.:	
8. Are facility records kept at this location?	✓ No. Pl	ease complete Item 10.
F. Mailing Address		
1. Street Address or P.O. Box: 207 South 13th Avenue		
2. City: Laurel 3.	. State: N	MS
4. Zip Code: 39440	_	
G. Latitudo/Langitudo Deta		
G. Latitude/Longitude Data 1. Collection Point (<i>check one</i>):		
	7-11 1 - 1	
☐ Site Entrance ☐ Other: W 2. Method of Collection (<i>check one</i>):	Vell head	
GPS Specify coordinate system (NAD 83,	oto)	
✓ Map Interpolation (Google Earth, etc.)	´	Other:
3. Latitude (<i>degrees/minutes/seconds</i>): 32/04/741.01		Julei .
4. Longitude (degrees/minutes/seconds): neg 89/44/32.		
5. Elevation (<i>feet</i>): 320	.020	
<u>22</u> 0		
H. SIC Code: 1311		
2. Name and Address of Facility Contact		
A. Name: Jarvis Hensley 45081	itle: \	/P-Operations
tariante da visitensity (500)	<u> </u>	71-Operations
B. Mailing Address		
1. Street Address or P.O. Box: 140 Mayfair road, Suite 9	000	
2. City: hattiesburg 3.	State: N	MS
4. Zip Code: <u>39402</u> 5.	Fax No.: 6	01-450-4448
6. Telephone No.: 601-518-0622	_	
7. Email: jarvish@venture-inc.com		

Facility (Agency Interest) Information	Section OPGP - A
3. Name and Address of Air Contact (if differen	nt from Facility Contact)
A. Name:	Title:
B. Mailing Address	
1. Street Address or P.O. Box:	
2. City:	3. State:
4. Zip Code:	5. Fax No.:
6. Telephone No.: 7. Email:	
4. Name and Address of Responsible Official for	
The Form must be signed by a Responsible Official as a	defined in 11 Miss. Admin. Code Pt.2, R. 2.1.C(24).
A. Name: Jarvis Hensley	Title: <u>VP-operations</u>
B. Mailing Address	
1. Street Address or P.O. Box: 140 Mayfair in	road, Suite 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	
C. Is the person above a duly authorized represent Yes No	ative and not a corporate officer?
If yes, has written notification of such authorization	on been submitted to MDEQ?
☐ Yes ☐ No	☐ Request for authorization is attached
5. Type of Oil Production Notice of Intent (Che	eck all that apply)
☑ Initial Coverage	☐ Re-Coverage for existing Coverage
☐ Modification with Public Notice	☐ Modification without Public Notice
☐ Update Compliance Plan	

	OH MENT AT A SINTHETIC MI	
Facility (Agency Interest		Section OPGP - A
6. Equipment List (Checi		
Complete supporting emission	n calculations must be included for each potential o	emission unit selected below.
	completed Section OPGP-C Form for each unit	
	essel. Include a completed Section OPGP-E For	
_	clude a completed Section OPGP-E Form for ea	
	gine. Include a completed <u>Section OPGP-D Form</u>	ı for each unit.
-	ed Section OPGP-F Form for each unit.	
☑ Oil Truck Loading (Sect	······································	
	issions (Section OPGP-B Form)	
☐ Other:		
7. Process/Product Detail	ls	
	ximum Anticipated Well(s) Production for Facil	tiy:
Produced Material	Throughput	Units
Gas	750	MMCF/day
Oil	350	barrels/day
Water	10	barrels/day
Other (Specify)		
	ticipated Throughput for Principal Product(s) (a	s applicable):
Produced Material	Throughput	Units
Flared Gas	750	MMCF/day
Oil	350	barrels/day
Water	10	barrels/day
Other (Specify)		
8. Zoning		
A. Is the facility (either exis	ting or proposed) located in accordance with an	y applicable city and/or
county zoning ordinance	s? If no, please explain	
Yes		
B. Is the facility (either exis	ting or proposed) required to obtain any zoning	variance to
locate/expand the facility	at this site? If yes, please explain.	
No		
C. Is the required USGS qua	adrangle map or equivalent attached?	☑ Yes □ No
- 1		

Facility (Agency Interest) Information

10. Address and Location of Facility Records

601-518-0622

4. County: Forrest

6. Telephone No.:

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.

Physical A	ddress				
1. Street A	ddress:	140 mayfair Road, Suite 900			
2. City:	Hattiesburg		3. State:	MS	

5. Zip Code: 39402

7. Fax No.: 601-450-4448

Facility (Agency Interest) Information

Section OPGP - A

11. Certification

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

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

Signature of Responsible Official/DAR	11/14/22 Date
Jarvis Hensley Printed Name	11/14/22 Date

Martin 24-14 No. 1 Appplication Date: Nov. 2022

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

nissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate urly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution rwise 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 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 not expected. Emissions > 0.01 TPY must be included. Please do not change the column widths on this table.

01	PM-	-2.5 ¹	S	O_2	N	Ox	C	0	V	OC	TI	RS ²	Le	ad	Total	HAPs
ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	377.61	1653.95	0.00	0.00	0.00	0.00	17.2974	75.7624
0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0,00	0.00	0.00	0.00	0.00	0.0001	0.0004
0.10	0.02	0.10	0.00	0.00	2.70	11.83	4.55	19.91	0.04	0.19	0.00	0.00	0.00	0.00	0.0480	0.2103
0.09	0.02	0.09	0.00	0.00	2.45	10.75	4.13	18.10	0.03	0.14	0.00	0.00	0.00	0.00	0.0360	0.1577
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.28	0.00	0.00	0.00	0.00	0.0036	0.0159
0.02	0.00	0.02	0.00	0.00	0.05	0.21	0.04	0.18	0.00	0.01	0.00	0.00	0.00	0.00	0.0009	0.0041
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.0043	0.0190
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	117.72	16.76	0.00	0.00	0.00	0.00	5.2676	0.7498
				"											,	
												_				
0.21	0.05	0.21	0.00	0.01	5.21	22.81	8.72	38.19	495.48	1671.35	0.00	0.00	0.00	0.00	22.66	76.92

late matter emissions in particulate matter calculations for PM-10 and PM-2.5, but not for TSP (PM).

of the sulfur compounds hydrogen sulfide (H2S), methyl mercaptan (CH4S), dimethyl sulfide (C2H6S), and dimethyl disulfide (C2H6S2).

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Section B.2: Proposed Allowable Emissions

ptential 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 rate at which the facility proposes to emit considering emissions control devices, restrictions to operating rates/hours, or other requested permit limits that es. Emission Point numbering must be consistent throughout the application package and, for existing emission points, should match any MDEQ ID's in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Additional columns may lutants (other than HAPs and GHGs) emitted at the facility.

PM	I10¹	PM	[2.5 ¹	S	O_2	N	Ox	C	:O	V	OC	T	RS	Le	ead
lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
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
0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
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
0.02	0.094	0.02	0.094	0.001	0.003	2.45	10.75	4.13	18.10	0.03	0.14	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.28	0.00	0.00	0.00	0.00
					_										
0.00	0.02	0.00	0.02	0.00	0.00	0.05	0.21	0.04	0.18	0.00	0.01	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	117.72	16.76	0.00	0.00	0.00	0.00
								_							
		-	_			<u> </u>									
0.32	1.39	0.32	1.39	0.00	0.01	7.66	33.57	19.91	87.22	125.42	50.48	0.00	0.00	0.00	0.00

ble particulate matter emissions in particulate matter calculations for PM-10 and PM-2.5, but not for TSP (PM).

is the sum of the sulfur compounds hydrogen sulfide (H_2S), methyl mercaptan (CH_4S), dimethyl sulfide (C_2H_6S), and dimethyl disulfide ($C_2H_6S_2$).

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

sed Allowable Emissions (Potential to Emit) for each HAP from each regulated emission unit if the HAP > 0.0001 tpy. Each facility-wide Individual HAP Ps shall be the sum of all HAP sources. Use the HAP nomenclature as it appears in the Instructions. Emission Point numbering must be consistent 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 bol indicates that emissions of this pollutant are not expected or the pollutant is emitted in a quantity less than the threshold amounts described above, s necessary to address each HAP.

	2,2 - proethane	1,1,2-trich	loroethane	1,3-bu	tadiene	1,3-dichlo	горгорепе	acetal	lehyde	асто	olein	ben	zene	carbon tet	trachloride
ɔ/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
.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
.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
.0001	0.0001	< 0.0001	0.0001	0.0008	0.0035	<0.0001	0.0001	0.0034	0.0149	0.0032	0.0141	0.0019	0.0085	< 0.0001	0.0001
.0001	0.0001	< 0.0001	0.0001	0.0007	0.0032	<0.0001	0.0001	0.0031	0.0136	0.0029	0.0128	0.0018	0.0077	<0.0001	0.0001
.0001	<0.0001	<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
-															
.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
.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
.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
:							-								
	_														
0000	0.0003	0.0000	0.0002	0.0015	0.0068	0.0000	0.0001	0.0065	0.0285	0.0061	0.0269	0.5985	0.2279	0.0000	0.0002

\(\frac{\pi_2}{2013}\) Section B.1: Page 1 Printed 11/10/2022 5:19 PM

Martin 24-14 No. 1 Appplication Date: Nov. 2022

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

ed Allowable Emissions (Potential to Emit) for each HAP from each regulated emission unit if the HAP > 0.0001 tpy. Each facility-wide Individual HAP Ps shall be the sum of all HAP sources. Use the HAP nomenclature as it appears in the Instructions. Emission Point numbering must be consistent 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 ibol indicates that emissions of this pollutant are not expected or the pollutant is emitted in a quantity less than the threshold amounts described above. In necessary to address each HAP.

chlorol	oenzene	chlor	oform	ethylb	enzene	ethylene	dibromide	formal	dehyde	meti	nanol	methylen	e chloride	napht	halene
/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
0001	<0.0001	< 0.0001	<0.0001	0.0020	0.0088	<0.0001	<0.0001	< 0.0001	< 0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
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
0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	0.0250	0.1097	0.0037	0.0164	0.0001	0.0002	0.0001	0.0005
0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	0.0001	0.0228	0.0997	0.0034	0.0149	< 0.0001	0.0002	0.0001	0.0005
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
														<0.0001	<0.0001
														< 0.0001	< 0.0001
										i				<0.0001	<0.0001
0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
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
										l				< 0.0001	< 0.0001
0001	<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
					_										
)000	0.0001	0.0000	0.0001	0.0236	0.0122	0.0000	0.0002	0.0478	0.2096	0.0071	0.0313	0.0001	0.0004	0.0002	0.0010

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Martin 24-14 No. 1 Appplication Date: Nov. 2022

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

ed Allowable Emissions (Potential to Emit) for each HAP from each regulated emission unit if the HAP > 0.0001 tpy. Each facility-wide Individual HAP Ps shall be the sum of all HAP sources. Use the HAP nomenclature as it appears in the Instructions. Emission Point numbering must be consistent 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 bol indicates that emissions of this pollutant are not expected or the pollutant is emitted in a quantity less than the threshold amounts described above. In necessary to address each HAP.

PA	AH	sty	rene	tolu	iene	vinyl o	chloride	xy	ene	hex	ane	PC	OM		
/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr										
0001	< 0.0001	< 0.0001	< 0.0001	0.0276	0.1210	< 0.0001	< 0.0001	0.0158	0.0690	0.2708	1.1862	< 0.0001	< 0.0001		
0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001	0.0004	< 0.0001	< 0.0001		
0002	0.0008	< 0.0001	0.0001	0.0007	0.0030	< 0.0001	< 0.0001	0.0002	0.0010	< 0.0001	< 0.0001	< 0.0001	< 0.0001		
)002	0.0007	< 0.0001	< 0.0001	0.0006	0.0027	< 0.0001	< 0.0001	0.0002	0.0009	< 0.0001	< 0.0001	< 0.0001	< 0.0001		
0001	<0.0001	<0.0001	<0.0001	0.0002	0.0009	<0.0001	<0.0001	0.0001	0.0005	0.0030	0.0133	<0.0001	<0.0001		
0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0009	0.0039	< 0.0001	0.0001	2010 X 100 Tu	al Charlette
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		
0001	<0.0001	<0.0001	<0.0001	0.5593	0.0796	<0.0001	<0.0001	0.2946	0.0419	3.8273	0.5448	<0.0001	<0.0001		
													#90 William		
TOTAL STREET															
)003	0.0014	0.0000	0.0001	0.5884	0.2073	0.0000	0.0000	0.3109	0.1134	4.1022	1.7485	0.0000	0.0001		Walter C

Ford 8-8 No. 1 Appplication Date: Nov. 2022

Section B.4: Greenhouse Gas Emissions

ssion rates in SHORT TONS per year, as opposed to metric tons required by Part 98. Emission Point numbering must be consistent throughout the

emission points, should match any MDEQ ID's in the current permit.

on- ic) r	CO ₂ (biogenic) ² ton/yr	N₂O ton/yr	CH ₄ ton/yr	SF ₆ ton/yr	PFC/HFC ³ ton/yr			Total GHG Mass Basis ton/yr ⁵	Total CO2e
	1	298	25	22,800	footnote 4				
8	0	0.03	75.42	0	0		f i	18645.83	N/A
8	0	9.19	1885.49	0	0			N/A	20465.06
	0	0.00	0.00	0	0			25.59	N/A
	0	0.01	0.01	0	0			N/A	25.62
	0	0.00	0.01	0	0		ŀ	 624,24	N/A
	0	0.35	0.29	0	0			N/A	624.88
	0	0.00	0.01	0	0			567.49	N/A
	0	0.32	0.27	0	0			 N/A	568.07
	0	0.00	0.33	0	0			0.35	N/A
	0	0.00	8.18	0	0			N/A	8.21
	0	0	0	0	0			0.00	N/A
	0	0	0	0	0			N/A	0.00
	0	0	0	0	0			0.00	N/A
	0	0	0	0	0			N/A	0.00
	0	0	0	0	0			 0.00	N/A
	0	0	0	0	0			N/A	0.00
	0	0.00	0.00	0	0			255.46	N/A
	0	0.14	0.12	0 ·	0			N/A	255.71
	0	0	0	0	0		l [0.00	N/A
	0	0	0	0	0		!	N/A	0.00
	0	0	0	0	0			0.00	N/A
	0	0	0	0	0			N/A	0.00
	0	0	0.18	0	0			 0.21	N/A
	0	0	4.50	0	0			N/A	4.53
,	0	0.35	76,21	0.00	0.00			20110.76	27/4
						0.5	 	 20119.76	N/A
9	0	104.75	1905.29	0.00	0.00	0.5		 N/A	2205

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

dioxide emissions resulting from the combustion or decomposition of non-fossilized and biodegradable organic material originating from plants, animals, or

ecific HFC or PFC compound and use a separate column for each individual compound.

appropriate GWP for each HFC or PFC compound from Table A-1 in 40 CFR 98.

/2/2013

Section B.1: Page 2

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is basis is the ton per year greenhouse gas emission before adjustment with its GWP. Do not include biogenic CO2 in this total.

alent and is calculated by multiplying the TPY mass emissions of the greenhouse gas by its GWP. Do not include biogenic CO2e in this total.

Martin 24-14 No. 1 Appplication Date: June 2021

Section B.5: Stack Parameters and Exit Conditions

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

Rain Caps	Height Above Ground	Base Elevation	Exit Temp.	Inside Diameter or Dimensions	Velocity	Moisture by Volume	Geographic Position (degrees/minutes/seconds)		
(Yes or No)	(ft)	(ft)	(°F)	(ft)	(ft/sec)	(%)	Latitude	Longitude	
No	40	415	1800	0.50	100	TBD	31/51/7.848N	89/19/7.464W	
Yes	7	415	TBD	TBD	TBD	TBD	31/51/7.848N	89/19/7.464W	
yes	7	415	TBD	TBD	TBD	TBD	31/51/7.848N	89/19/7.464W	
N/A	N/A	415	N/A	N/A	N/A	N/A	31/51/7.848N	89/19/7.464W	
N/A	N/A	415	N/A	N/A	N/A	N/A	31/51/7.848N	89/19/7.464W	
N/A	N/A	415	N/A	N/A	N/A	N/A	31/51/7.848N	89/19/7.464W	
N/A	N/A	415	N/A	N/A	N/A	N/A	31/51/7.848N	89/19/7.464W	
TBD	TBD	415	TBD	TBD	TBD	TBD	31/51/7.848N	89/19/7.464W	
N/A	N/A	415	N/A	N/A	N/A	N/A	31/51/7.848N	89/19/7.464W	
N/A	N/A	415	N/A _	N/A	N/A	N/A	31/51/7.848N	89/19/7.464W	
N/A	N/A	415	N/A	N/A	N/A	N/A	31/51/7.848N	89/19/7.464W	

nould 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 1. **Emission Point Description** Emission Point Designation (Ref. No.): AA-006A A. В. Equipment Description: One (1) Heater Treater, with a 0.5 MMBTUH burner. C. Manufacturer: Custom D. Date of Manufacture and No.: 2019 E. Maximum Heat Input F. Nominal Heat (higher heating value): 0.5 MMBtu/hr Input Capacity: 0.5 MMBtu/hr G. Use: Line Heater Heater Treater П TEG Burner Space Heat Other (describe): **Process Heat** H. Heat Mechanism: 冈 Direct Indirect I. Burner Type (e.g., forced draft, natural draft, etc.): Forced Draft J. Additional Design Controls (e.g., FGR, etc.): N/A K. Status: \boxtimes Operating Proposed Under Construction 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 HEAT % SULFUR % ASH **MAXIMUM** MAXIMUM CONTENT HOURLY YEARLY **USAGE USAGE** Field Gas 1,000 BTU/CF < 0.001 < 0.001 490 4.3 MMCF 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 Bu ines	_	quipment –	Internal C	Combusti	on	Sect	tion OP	GP- D
1.			int Descriptio	n					
	Α.	Emission Po	oint Designation (Re	ef. No.): AA-0	02				· · · · · · ·
	В.	Equipment	Description (includi	ng serial number):	165 HP RIC	E for power of	oil pump		
	C.	Manufactur	er: <u>TBD</u>	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	ncy	☐ Emer	gency			
	I.	Displaceme	nt per cylinder:		s 🗆	10 to <30 Lite	ers	≥ 30 1	Liters
	J.	Engine Igni	tion Type:	Spark Ignit	ion	☐ Compre	ssion Igni	tion	
	K.	Engine Bur	* -	4-stroke	2-stroke		Rich Bur	rn 🗌	Lean Burn
	L.	Status:		Operating	Propose	ed 🗌	Under C	onstruction	
	M.		struction, reconstrue erces) or date of anti			n (for	Pre	- 2006	
2.		l Type							
			owing table, identify						
	FUEL TYPE HEAT % SULFUR % ASH MAXIM CONTENT HOURLY U					I	MAXIM YEARLY U	l l	
	Nat. 1020 BTU/Ft3 0.00004 0.0 1.20 M Gas/propane						CF	10,47	8
	L								

	Fuel Burning Equipment – Internal Combustion Engines Section OPGP- D									
1.			int Descriptio	on			•			
	Α.	Emission Pe	oint Designation (Re	ef. No.): AA-0	02a					
	B.	Equipment	Description (includi	ing serial number):	150 HP RIC	E for sales ga	is compre	essor		
	C.	Manufactur	er: TBD	 		Manufacture del No.:	Pre- 20	06		
	E.	Maximum I	Heat Input (higher h	eating value):	1.11	MMBtu/hr				
	F.	Rated Powe	er: 150	hp	112	kW				
	G.	Is the engin	e an EPA-certified o	engine?	No	Yes or No				
	H.	Use:	⊠ Non-emerger	ісу	☐ Emer	gency				
	I.	Displaceme	nt per cylinder:		· 🗆	10 to <30 Lite	ers	_ ≥30	Liters	
	J.	Engine Igni	tion Type:	Spark Ignit	ion	☐ Compre	ssion Ign	ition		
	K.	Engine Bur	• •	4-stroke	2-stroke	e 🛚	Rich Bu	ırn 🗌	Lean Burn	
	L.	Status:		Operating	□ Propose	ed 🗌	Under C	Construction		
	M.		struction, reconstruction, rces) or date of anti		n (for	Pre	e- 2006	-		
2.		l Type								
			wing table, identify	<u> </u>						
	FUI	EL TYPE	HEAT CONTENT	% SULFUR	% ASH	MAXIM HOURLY U	ISAGE	MAXIM YEARLY I	USAGE	
	Nat. 1020 BTU/Ft3 0.00004 0.0 Gas/propane 0.00004 0.0 0.0					1.09 M	CF	9,533 N	1CF	
					<u></u>	<u> </u>				

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE Flare **Section OPGP-F Equipment Description** Α. Emission Point Designation (Ref. No.): AA-001 B. Equipment Description (include the process(es) that the flare controls emissions from): The flare is utilized to combust produced gas, and to combust emissions from the heater treater and oil and water storage tanks. C. Manufacturer: Custom D. Model: Custom E. Status: Operating \boxtimes Proposed Under Construction F. Requesting a federally enforceable condition to route tank emissions to the flare. 2. **System Data** Efficiency: Α. % Controlling the following pollutant(s): Efficiency: 98 % Controlling the following pollutant(s): HAP Reason for different efficiency: В. Flare Data (if applicable): Steam-assisted 1. Flare type: Non-assisted Air-assisted Other: 2. Net heating value of combusted gas: Est. 1,000 Btu/scf 3. Design exit velocity: N/A ft/sec 4. System: Auto-ignitor Continuous Flame 5. Is the presence of a flare pilot flame monitored? ⊠ Yes No If yes, please describe the monitoring: thermocouple 6. Is the auto-ignitor system monitored? ⊠ Yes □ No 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 source. Th	is list only provides e	xamples of ho	w the table
imin. Code Pt. 2, R.1.4.B(2).	4/01/2021 (est.)	05/01/2021 (est.)	N/A
Subpart ZZZZ	4/01/2021 (est.)	05/01/2021 (est.)	N/A
lmin. Code Pt. 2, R.1.3.B.	4/01/2021 (est.)	05/01/2021 (est.)	N/A
lmin. Code Pt. 2, R.1.3.D(1)(a).	4/01/2021 (est.)	05/01/2021 (est.)	N/A
Subpart OOOOa Permit NOI, Section OPGP G, v. 2019.1	4/01/2021 (est.)	05/01/2021 (est.)	N/A

E OF INTENT FOR COVERAGE UNI	DER THE OIL PRODUCT	TON GENERAL PERMIT TO
UCT/OPERATE AIR EMISSIONS EQ	UIPMENT AT A SYNTH	ETIC MINOR SOURCE

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
0, Subpart OOOOa	4/01/2021 (est.)	05/01/2021 (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.
in. 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 of o	emission source. Thi	s list only provides examples of how the tal	ble should be completed.
1. Code Pt. 2, R.1.4.B(2).	H₂S	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.
lbpart ZZZZ, (§63.6590(a))	НАР	Applicability	Applicability Only
bpart ZZZZ, (§63.6603 & Table HAP		Change oil and filter every 1,440 hours of operation or annually, whichever comes first; b. Inspect spark plugs every	Monitoring engine hours of operation

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	Contiuous compliance and General Duty to operate and maintain in a manner consistent with safety and good air pollution control practies to minimize emissions	Process Knowledge
ıbpart ZZZZ, (§63.6640 (a) and	HAP	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	HAP	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>			

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE Tank Summary **Section OPGP-E Emission Point Description** Emission Point Designation (Ref. No.): AA-008 (Power Oil Tank No. 1) Product(s) Stored: Oil C. \boxtimes ☐ Under Construction Status: Operating Proposed Date of construction, reconstruction, or most recent modification (for existing sources) or date of anticipated construction: 2021 2. **Tank Data** Tank Specifications: A. 1. Design capacity 21,000 gallons True vapor pressure at storage temperature: 2. 11.55 psia @ ambient 3. Maximum true vapor pressure (as defined in 11.55 psia @ ambient §60.111b) Reid vapor pressure at storage temperature: 4. 11.55 psia @ ambient Density of product at storage temperature: 5. 7.2 lb/gal 6. Molecular weight of product vapor at storage temp. 48 lb/lbmol Tank Orientation: \boxtimes B. Vertical ☐ Horizontal C. Type of Tank: Fixed Roof External Floating Roof Internal Floating Roof Pressure Variable Vapor Space Other: Is the tank equipped with a Vapor Recovery System Yes \boxtimes 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 ☐ Mobile, AL Tupelo, MS New Orleans, LA Memphis, TN Baton Rouge, LA Is an E&P or similar report described in Condition 5.4(5) of the \boxtimes Yes No

General Permit included for this tank in the Notice of Intent?

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

								<u>PERMIT</u>	<u>L'</u>	
Ta	ınk	Sumn	nary							Section H
3.	Ho	rizonta	al Fixed Roo	of Tank						
	A. B. C. D. E. F.	Shell Le Shell D Working Maximu Is the ta	ength:		Yes Yes	feet feet gal gal/y		No No		41 t
		L		L	⊒ Aiun	ninum/Speculai				Aluminum/Diffuse
		☐ Gı	ay/Light		Gray	/Medium				Red/Primer
	H.	Shell Co	ondition:	☐ Goo	d		Poor	r		
4.	Ve	rtical I	ixed Roof	Tank					·	
	A.	 Sh M A W Tu M 	ions: nell Height: nell Diameter: aximum Liquid verage Liquid H orking Volume arnovers per yea aximum throug the tank heated	leight: : ar: hput:	Yes	25 12 24.8 18 21,000 159.1 3,340,554	feet feet feet feet gal gal/			
	B.		naracteristics: nell Color/Shade] White/White			Aluminum/Sp	ecula	ar		Aluminum/Diffuse
		\boxtimes	Gray/Light			Gray/Medium	1			Red/Primer
		2. Sh	nell Condition:		Good		Poor			
	C.					Aluminum/Sp Gray/Medium		nr		Aluminum/Diffuse Red/Primer
		2. Ro	oof Condition:	\boxtimes	Good			Poor		
			/pe:		Cone		\boxtimes	Dome		
		4. He	eight:	0.1	_ feet					

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

T_2	ınk	Summary	Section H
5.		ternal Floating Roof Tank	Section 11
	1111	tternar Floating Roof Fank	
	A.	Tank Characteristics: 1. Diameter:	□ Unknown Lining
		☐ White/White ☐ Aluminum/Specular ☐ Alumin	um/Diffuse
		☐ Gray/Light ☐ Gray/Medium ☐ Red/Pri	mer
		10. External Shell Condition: ☐ Good ☐ Poor 11. Roof Color/Shade: ☐ Aluminum/Specular ☐ Aluminum/Dif	fuse
		☐ Gray/Light ☐ Gray/Medium ☐ Red/Primer	
		12. Roof Condition: Good Poor	
	B.	Rim Seal System: 1. Primary Seal:	Vapor-mounted
		2. Secondary Seal:	☐ None
	C.	Deck Characteristics: 1. Deck Type:	
		2. Deck Fitting Category: Typical Detail	
6.	Ex	xternal Floating Roof Tank	
	A.	Tank Characteristics 1. Diameter: feet 2. Tank Volume: gal 3. Turnovers per year: 4. Maximum Throughput: gal/yr 5. Internal Shell Condition: Gunite Linin	g

FORM 5 MDEQ

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY APPLICATION FOR AIR POLLUTION CONTROL

				PER	MIT	
ank Sui	nmary					Section H
Extern	al Floating Roo	of Tank (con	tinued)			
A. Tan 6.	k Characteristics (co Paint Color/Shade:		uminum/Specul	ar [Aluminum	/Diffuse
	☐ Gray/Light	☐ Gı	ay/Medium		☐ Red/Prime	r
7.	Paint Condition:	☐ Ge	ood	☐ Po	oor	
B. Roo 1.	f Characteristics Roof Type:	Pontoor	1	□ D	ouble Deck	
2.	Roof Fitting Categ	ory:	□ Тур	pical	☐ Detail	
C. Tan 1.	k Construction and R Tank Construction			lded	☐ Rivete	ed
2.	Primary Seal: Mechanical S	Shoe [] Liquid-mou	nted	☐ Vapor	-mounted
3.	Secondary Seal None	☐ Shoe-mour	nted	Rim-mou	nted	Weather shield
Polluta	nt Emissions					
A. Fixe	d Roof Emissions:					
	utant ¹	Working Lo	oss (tons/yr)	Breathing I	Loss (tons/yr)	Total Emissions (tons/yr)*
VO				Total W&B 0.91		30.96
Hex	ane			0.1	L439	2.8191
Ben				0.0	355	0.6979
Ethy	lbenzene			0.0	0005	0.0102
Tolu	ene				0201	0.3890
Xyle	ene			0.0)118	0.2248
B. Floa	ting Roof Emissions	:	1			
Pollutant 1	Rim Seal Loss (tons/yr)	Withdrawal Loss (tons/yr)	Deck Fitting Loss (tons/yr)	Deck Seam Loss (tons/yr)	Landing Lo (tons/yr)	2012년 1일 대부 8 12일 - POSON (1922년 1921년 1922년

^{*} Total emissions in Table 7A are the sum of flash emissions and working and breathing emissions

^{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".

Tank Summary Section OP							
1.	En	nission Point Description					
	A.	Emission Point Designation (Ref. No.): AA-008 (Oil Storage Tank No. 2)					
	В.	Product(s) Stored: Oil					
	C.	Status:					
	D.	Date of construction, reconstruction, or most recent modification (for existing sources) or date of anticipated construction:					
2.	Tank 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 psia @ ambient °F 11.55 psia @ ambient °F 11.55 psia @ ambient °F 2. Ib/gal 3. Molecular weight of product vapor at storage temp. 48 lb/lbmol					
	B.	Tank Orientation: Vertical Horizontal					
	C.	Type of Tank:					
		☐ 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: Solution 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 **Tank Summary Section OPGP-E** Horizontal Fixed Roof Tank Shell Length: A. feet Shell Diameter: B. feet C. Working Volume: gal Maximum Throughput: gal/yr E. Is the tank heated? Yes No Is the tank underground? F. Yes No Shell Color/Shade: G. Aluminum/Specular Aluminum/Diffuse Gray/Light Gray/Medium Red/Primer Shell Condition: Poor Good **Vertical Fixed Roof Tank** Dimensions: Α. 1. Shell Height: 20 feet 2. Shell Diameter: 12 feet 3. Maximum Liquid Height: 19 feet Average Liquid Height: 4. ~10 feet Working Volume: 16,800 5. gal 6. Turnovers per year: 91.25 (est. for each oil storage tank) Maximum throughput: 7. MMgal/yr (for entire tank battery) 3.066 Is the tank heated? 8. Yes No Shell Characteristics: Shell Color/Shade: \boxtimes White/White Aluminum/Specular Aluminum/Diffuse Gray/Light Gray/Medium Red/Primer Shell Condition: \times 2. Good Poor Roof Characteristics: Roof Color/Shade: White/White \boxtimes Aluminum/Specular Aluminum/Diffuse Gray/Light Gray/Medium Red/Primer \boxtimes 2. **Roof Condition:** Good Poor

X

Dome

1

3.

Type:

Height:

Cone

feet

		\sim			~		
Tank Summary					Section OPGP-E		
5. Internal Floating Roof Tank							
	A.		Characteristics: Diameter: Tank Volume: Turnovers per year: Maximum Throughput: Number of Columns: Self-Supporting Roof? Effective Column Diameter: 9"x7" Built-up Column Internal Shell Condition: Light Rust External Shell Color/Shade: White/White		☐ Unknown Gunite Lining Aluminum/Diffuse Red/Primer		
	B.		External Shell Condition: Roof Color/Shade: White/White Gray/Light Roof Condition: Seal System:	Gray/Medium	num/Diffuse imer		
	C.	 1. 2. Deck 1. 		nical Shoe	□ Vapor-mounted □ None		
		2.	Deck Fitting Category:	☐ Typical ☐ Detail			
<u>6.</u>	Ext	erna	al Floating Roof Tank				
	Α.	Tank 1. 2. 3. 4.	Characteristics Diameter: Tank Volume: Turnovers per year: Maximum Throughput: Internal Shell Condition: Light Rust	feet gal gal/yr Dense Rust Guni	te Lining		

MDEQ NOTICE OF INTENT FOR COVERAGE UNDER THE OIL PRODUCTION GENERAL PERMIT TO CONSTRUCT/OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE Tank Summary **Section OPGP-E External Floating Roof Tank (continued)** A. Tank Characteristics (continued): Paint Color/Shade: ☐ White/White Aluminum/Specular Aluminum/Diffuse Gray/Light Gray/Medium Red/Primer Paint Condition: Good ☐ Poor B. Roof Characteristics Roof Type: Pontoon Double Deck 2. Roof Fitting Category: **Typical** Detail C. Tank Construction and Rim-Seal System: Tank Construction: ☐ Welded Riveted 2. Primary Seal: ☐ Mechanical Shoe Liquid-mounted Vapor-mounted 3. Secondary Seal None Shoe-mounted Rim-mounted Weather shield **Pollutant Emissions** Fixed Roof Emissions: Pollutant¹ Working Loss (tons/yr) Breathing Loss (tons/vr) Total Emissions (tons/yr) VOC/HAP No emissions occur from the tanks since gasses are routed to the flare. Floating Roof Emissions: Pollutant¹ Rim Seal Withdrawal **Deck Fitting** Deck Seam **Total Emissions** Landing Loss Loss Loss² Loss Loss (tons/yr) (tons/yr) (tons/yr) (tons/vr) (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

To	nlz	Summary Section OPGP-E								
		······································								
1.	En	nission Point Description								
	A. B.									
	C.	Status: Operating Proposed Under Construction								
	D.	Date of construction, reconstruction, or most recent modification (for existing sources) or date of anticipated construction:								
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: 11.55 psia @ ambient °F 11.55 psia @ ambient °F 11.55 psia @ ambient °F 7.2 lb/gal								
		6. Molecular weight of product vapor at storage temp. 48 lb/lbmol								
	B.	Tank Orientation:								
	C.	Type of Tank:								
		□ 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: Solution 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 Seneral 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. Shell Diameter: feet gal C. Working Volume: Maximum Throughput: gal/yr Is the tank heated? Yes No Is the tank underground? No Yes Shell Color/Shade: Aluminum/Diffuse Aluminum/Specular Gray/Light Gray/Medium Red/Primer **Shell Condition:** Good Poor **Vertical Fixed Roof Tank** Dimensions: 1. Shell Height: 20 feet 12 2. Shell Diameter: feet 19 3. Maximum Liquid Height: feet ~10 4. Average Liquid Height: feet Working Volume: 16,800 5. gal Turnovers per year: 91.25 (est. for each oil storage tank) 6. MMgal/yr (for entire tank battery) Maximum throughput: 3.066 7. Is the tank heated? Yes Shell Characteristics: В. Shell Color/Shade: \boxtimes White/White Aluminum/Specular Aluminum/Diffuse Red/Primer Gray/Medium Gray/Light 2. Shell Condition: XGood Poor Roof Characteristics: Roof Color/Shade: \boxtimes Aluminum/Specular Aluminum/Diffuse White/White Red/Primer Gray/Light Gray/Medium 2. Roof Condition: \times Good Poor \boxtimes 3. Cone Dome Type: 4. Height:

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

			MINOR SOURCE	
Ta	nk	Sun	nmary	Section OPGP-E
5.			ll Floating Roof Tank	
<u> </u>	A A A A A	VI 1114	in i touting itoot i will	
	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?	
		7.	Effective Column Diameter:	
		, -	☐ 9"x7" Built-up Column ☐ 8" Diameter Pipe	☐ Unknown
		8.	Internal Shell Condition:	
			☐ Light Rust ☐ Dense Rust ☐	Gunite Lining
		9.	External Shell Color/Shade:	2
			☐ White/White ☐ Aluminum/Specular ☐	Aluminum/Diffuse
			☐ Gray/Light ☐ Gray/Medium ☐	Red/Primer
		10.	External Shell Condition:	
		11.	Roof Color/Shade:	
			☐ White/White ☐ Aluminum/Specular ☐ Alumin	num/Diffuse
			☐ Gray/Light ☐ Gray/Medium ☐ Red/Pr	imer
		12.	Roof Condition: Good Poor	
	B.	Rim 1.	Seal System: Primary Seal: Mechanical Shoe Liquid-mounted	☐ Vapor-mounted
		۸.	11 mary ocar. — Mechanical once — Diquid-mounted	La vapor mounted
		2.	Secondary Seal:	☐ None
	C.	Deck	Characteristics:	
	C.	1.	Deck Type:	
		2.	Deck Fitting Category:	
6.	Ext	tern	al Floating Roof Tank	
	A.		Characteristics	
		1.	Diameter: feet	
		2.	Tank Volume: gal	
		3.	Turnovers per year:	
		4.	Maximum Throughput: gal/yr	
		5.	Internal Shell Condition:	
			☐ Light Rust ☐ Dense Rust ☐ Guni	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 Tank Summary **Section OPGP-E External Floating Roof Tank (continued)** A. Tank Characteristics (continued): Paint Color/Shade: White/White Aluminum/Specular ☐ Aluminum/Diffuse Gray/Light Gray/Medium Red/Primer Paint Condition: Good ☐ Poor 7. Roof Characteristics Roof Type: Pontoon Double Deck 2. Roof Fitting Category: ☐ Typical Detail Tank Construction and Rim-Seal System: Tank Construction: Welded Riveted Primary Seal: ☐ Mechanical Shoe Liquid-mounted Vapor-mounted 3. Secondary Seal ☐ None Shoe-mounted Rim-mounted Weather shield **Pollutant Emissions** Fixed Roof Emissions: Pollutant1 Working Loss (tons/yr) Breathing Loss (tons/yr) **Total Emissions** (tons/yr) VOC / HAP No emissions occur from the tanks since gasses are routed to the flare. Floating Roof Emissions: Pollutant¹ Rim Seal Withdrawal **Deck Fitting** Deck Seam Landing **Total Emissions** Loss² Loss Loss Loss Loss (tons/yr) (tons/yr) (tons/yr) (tons/yr) (tons/yr) (tons/vr) 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 (Oil Storage Tank No. 4) Emission Point Designation (Ref. No.): Product(s) Stored: Oil \boxtimes Under Construction Status: Proposed Operating D. Date of construction, reconstruction, or most recent modification (for existing sources) or date of anticipated construction: 2021 2. **Tank Data** Tank Specifications: 16.800 gallons 1. Design capacity True vapor pressure at storage temperature: 11.55 psia @ ambient 2. 3. Maximum true vapor pressure (as defined in 11.55 psia @ ambient §60.111b) 11.55 ambient 4. Reid vapor pressure at storage temperature: psia @ Density of product at storage temperature: 7.2 lb/gal 5. lb/ibmol Molecular weight of product vapor at storage temp. 48 6. Vertical Horizontal Tank Orientation: В. Type of Tank: Fixed Roof External Floating Roof Internal Floating Roof Variable Vapor Space Other: Pressure M Yes No D. Is the tank equipped with a Vapor Recovery System 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. Jackson, MS Meridian, MS Tupelo, MS Mobile, AL Memphis, TN Baton Rouge, LA New Orleans, LA Is an E&P or similar report described in Condition 5.4(5) of the \boxtimes Yes No

General Permit included for this tank in the Notice of Intent?

MDEO 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. Shell Diameter: feet Working Volume: gal C. Maximum Throughput: D. gal/yr Is the tank heated? E. Yes No No Is the tank underground? Yes Shell Color/Shade: Aluminum/Diffuse Aluminum/Specular Red/Primer Gray/Light Gray/Medium Poor Shell Condition: Good **Vertical Fixed Roof Tank** Dimensions: Shell Height: 20 feet 1. 12 feet 2. Shell Diameter: Maximum Liquid Height: 19 feet 3. Average Liquid Height: ~10 feet 4. 16,800 5. Working Volume: gal 6. Turnovers per year: 91.25 (est. for each oil storage tank) MMgal/yr (for entire tank battery) 7. Maximum throughput: 3.066 Is the tank heated? Yes No Shell Characteristics: B. Shell Color/Shade: \boxtimes Aluminum/Diffuse Aluminum/Specular White/White Gray/Medium Red/Primer Gray/Light \boxtimes 2. Shell Condition: Good Poor Roof Characteristics: Roof Color/Shade: \boxtimes Aluminum/Diffuse White/White Aluminum/Specular Gray/Light Gray/Medium Red/Primer **Roof Condition:** \boxtimes Good Poor 2. \times Dome 3. Type: Cone 4. Height: 1 feet

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

Ta	nk	Summ	ary		WINTOK SOURCE	Section OPGP-E
5.			loating Roof Ta	nk		
	A.	1. Dia 2. Tar 3. Tur 4. Ma 5. Nu 6. Sel 7. Eff □ 8. Inte	aracteristics: ameter: ak Volume: cnovers per year: ximum Throughput: mber of Columns: f-Supporting Roof? ective Column Diam 9"x7" Built-up Column Shell Condition Light Rust ternal Shell Color/Sh White/White	lumn :		☐ Unknown Gunite Lining Aluminum/Diffuse
		11. Ro	Gray/Light ternal Shell Condition of Color/Shade: White/White Gray/Light of Condition:	n:		Red/Primer r inum/Diffuse Primer
	В.	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	Floating Roof Ta	ank		
	A.	 Dia Tar Tu Ma 	aracteristics ameter: nk Volume: rnovers per year: aximum Throughput: ernal Shell Condition Light Rust	:	feet gal gal/yr Dense Rust Gu	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)** Tank Characteristics (continued): Paint Color/Shade: White/White Aluminum/Specular ☐ Aluminum/Diffuse Red/Primer Gray/Light Gray/Medium Poor Good Paint Condition: Roof Characteristics B. ☐ Double Deck Roof Type: Pontoon Typical Detail Roof Fitting Category: 2. C. Tank Construction and Rim-Seal System: Riveted Tank Construction: ☐ Welded Primary Seal: 2. ☐ Mechanical Shoe Liquid-mounted Vapor-mounted Secondary Seal П Rim-mounted Weather shield ☐ None Shoe-mounted **Pollutant Emissions** Fixed Roof Emissions: Pollutant1 Breathing Loss (tons/yr) **Total Emissions** 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: Total Emissions Pollutant¹ Deck Fitting Deck Seam Landing Rim Seal Withdrawal Loss² Loss Loss (tons/yr) 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** Emission Point Designation (Ref. No.): AA-008 (Water Storage Tank No. 1) Product(s) Stored: Produced Water 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** 2. Tank Specifications: A. 16,800 1. Design capacity gallons 2. True vapor pressure at storage temperature: 1.15 psia @ ambient Maximum true vapor pressure (as defined in 1.15 ambient 3. psia @ §60.111b) Reid vapor pressure at storage temperature: 1.15 ambient 4. psia @ Density of product at storage temperature: 7.2 lb/gal 5. Molecular weight of product vapor at storage temp. 48 lb/lbmol 6. Tank Orientation: Vertical Horizontal Type of Tank: Internal Floating Roof External Floating Roof Fixed Roof Variable Vapor Space Other: Pressure \times 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: ☐ Mobile, AL Jackson, MS Meridian, MS Tupelo, MS Baton Rouge, LA New Orleans, LA Memphis, TN Is an E&P or similar report described in Condition 5.4(5) of the \boxtimes Yes \square No 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 Tank Summary Section OPGP-E **Horizontal Fixed Roof Tank** A. Shell Length: feet B. Shell Diameter: feet C. Working Volume: gal Maximum Throughput: D. gal/yr E. Is the tank heated? Yes No Is the tank underground? Yes No G. Shell Color/Shade: Aluminum/Specular Aluminum/Diffuse Gray/Light Gray/Medium Red/Primer **Shell Condition:** Good ☐ Poor H. **Vertical Fixed Roof Tank** Dimensions: A. Shell Height: 1. 20 feet 2. Shell Diameter: 12 feet 3. Maximum Liquid Height: 19 feet ~10 4. Average Liquid Height: feet 5. Working Volume: 16,800 gal 6. Turnovers per year: 7. Maximum throughput: 15,330 gal/yr 8. Is the tank heated? Yes No Shell Characteristics: B. Shell Color/Shade: White/White \boxtimes Aluminum/Diffuse Aluminum/Specular Gray/Light Gray/Medium П Red/Primer \boxtimes 2. Shell Condition: Good Poor Roof Characteristics: Roof Color/Shade: Aluminum/Specular Aluminum/Diffuse White/White Gray/Light Gray/Medium Red/Primer \boxtimes Roof Condition: Good 2. Poor X 3. Cone Dome Type: 4. Height: 1

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 **Internal Floating Roof Tank** Tank Characteristics: Α. Diameter: feet 1. 2. Tank Volume: gal 3. Turnovers per year: gal/yr Maximum Throughput: 4. 5. Number of Columns: Yes No Self-Supporting Roof? 6. 7. Effective Column Diameter: 8" Diameter Pipe Unknown 9"x7" Built-up Column Internal Shell Condition: 8. Dense Rust **Gunite Lining** ☐ Light Rust 9. External Shell Color/Shade: Aluminum/Specular Aluminum/Diffuse White/White Red/Primer Gray/Light Gray/Medium ☐ Poor Good 10. External Shell Condition: Roof Color/Shade: Aluminum/Specular Aluminum/Diffuse ☐ White/White Red/Primer Gray/Medium Gray/Light Good Poor 12. Roof Condition: Rim Seal System: Liquid-mounted Vapor-mounted Primary Seal: Mechanical Shoe None Shoe-mounted Rim-mounted 2. Secondary Seal: Deck Characteristics: Welded Deck Type: **Bolted** 2. Deck Fitting Category: Typical Detail **External Floating Roof Tank** Tank Characteristics Α. Diameter: feet 1. 2. Tank Volume: 3. Turnovers per year: gal/yr 4. Maximum Throughput: Internal Shell Condition: 5.

Dense Rust

Gunite Lining

☐ Light Rust

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): Α. Paint Color/Shade: White/White Aluminum/Specular ☐ Aluminum/Diffuse Gray/Medium Red/Primer Gray/Light Poor Paint Condition: Good 7. Roof Characteristics Double Deck Roof Type: Pontoon Roof Fitting Category: Typical Detail 2. Tank Construction and Rim-Seal System: Riveted Tank Construction: Welded 2. Primary Seal: ☐ Mechanical Shoe Liquid-mounted Vapor-mounted 3. Secondary Seal ☐ None Shoe-mounted Rim-mounted Weather shield **Pollutant Emissions** Fixed Roof Emissions: Pollutant¹ Breathing Loss (tons/yr) **Total Emissions** Working Loss (tons/yr) (tons/yr) VOC / HAP No emissions occur from the tank since gasses are routed to the flare. B. Floating Roof Emissions: Rim Seal **Total Emissions** Pollutant¹ Withdrawal Deck Fitting Deck Seam Landing Loss² Loss Loss Loss Loss (tons/yr) (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".

ATTACHMENT A

Calculations for Venture Martin 24-14 No. 1 Tank Battery

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Site Information for Calculations

Site Name: Martin 24-14 No. 1 Tank Battery	
Potential Crude Production	109,500 bbl/yr
Potential Gas production	219,000 mcf/yr
Potential Produced Water	3,650 bbl/yr
Initial Crude Production	350 bbl/day (expected maximum daily production)
Initial Gas Production	750 mcf/day (expected maximum daily production)
Initial Water Production	10 bbl/day (expected maximum daily production)
Crude Gravity	49
Oil tank W&B Losses	1.31 SCF/stock tank bbl (estimated using E&P Tanks)
Oîl tank Flash Gas	73.74 SCF/stock tank bbl (estimated using E&P Tanks)
Water tank W&B Losses	0.0131 SCF/stock tank bbl (using 1% of oil tank emissions)
Water tankFlash Gas	0.7374 SCF/stock tank bbl (using 1% of oil tank emissions)
VRU recovery efficiency	0.00%
Flare destruction efficiency	98.00%

Emission Point Summary

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

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

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Proposed Annual Emissions, controlled

Emission				Ani Ani	iual Em	ssions,	tpy.				GH
Unit ID	Emission Unit	PM	PMIO	PM2.5	V@G:	Nox	@	S02	VOEII GIAPO	G02	
AA-001	Flare	0.29	0.29	0.29	33.08	10.75	49.01	0.00	1.5152	18570.38	7
AA-001a	Flare Pilot	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.0004	25.59	
AA-002	Power Oil Pump Engine	0.051	0.104	0.104	0.16	11.83	19.91	0.003	0.1735	624.23	
AA-002a	Compressor Engine	0.046	0.094	0.094	0.09	6.78	18.10	0.002	0.1577	567.48	\Box
AA-003	Fugitive emissions- equipment leaks	-	-	-	0.28	-	-	-	0.0159	0.03	
AA-004	High Pressure Separator		Gas	routed to	Flare						
AA-005	Low Pressure Separator		Gas	routed to	Flare						
AA-006	Heater Treater		Gas	routed to	Flare						
AA-006a	Heater Treater (burner)	0.00408	0.01632	0.01632	0.01181	0.21471	0.18035	0.00129	0.0041	255.45	Г
AA-007	Misc. Chemical Tanks (4)	-	-	-	0.02	-	-	-	0.0190	-	厂
AA-008	Oil and Water Tanks (4)		Gas	routed to	flare						
AA-009	Truck Loading				16.76				0.7498	0.05	厂
地位的原理	. Totals	0.40	0:51	0.51(1)	50:40	29.59	87.22	0.01	2.6357	20043.21	阿斯 . 7

Notes:

Storage tanks emissions are included in flare emissions.

11/10/2022

Potential Annual Emissions, uncontrolled

				<i>a</i> .≋Anı	rual Emi	ssions;	tpy &				GH
#Emission FUnitio	. ≘mi∶slon(Unit	PM								<u>@</u> 2	i Ci
AA-001	Facility gas emissions	-	-	-	1653.95	-	1	-	75.76	346.68	4749
AA-002	Power Oil Pump Engine	0.051	0.104	0.104	0.16	11.83	19.91	0.003	0.17	624.23	0.0
AA-002a	Compressor Engine	0.046	0.094	0.094	0.14	10.75	18.10	0.003	0.16	567.48	0.0
AA-003	Fugitive emissions- equipment leaks	-	-	-	0.28	-	_	-	0.02	0.03	0.3
AA-004	High Pressure Separator		Gas	routed to	Flare	_					<u> </u>
AA-005	Low Pressure Separator		Gas	routed to	Flare						
AA-006	Heater Treater		Gas	routed to	Flare				· · · · · · · · · · · · · · · · · · ·		
AA-006a	Heater Treater (burner)	0.00	0.02	0.02	0.01	0.21	0.18	0.00	0.0041	232.23	0.0
AA-007	Misc. Chemical Tanks	-	-	-	0.02	-	-	-	0.02	-	
AA-008	Oil and Water Storage Tanks		Gas	routed to	flare						
AA-009	Truck Loading				16.76				0.7498	0.05	0.2
	Totals	0.10	0.21	0:21	1671.32	22.79	38:19	0.01	76.88	1770.70	4750

Notes:

Storage tanks emissions are included in flare emissions, AA-001. $\label{eq:continuous}$

Facility Maximum Hourly Emissions, Controlled

					Emi ss ic	ns, lb/h	real and		MAXA	Lacut B	GH
amission Unitio	, sinDactainE.	PM	PM10	PM2/5	In a Call of the College of the Coll	XQX	图 200 200 200 200 200 200 200 200 200 20	S 02		© 02	
AA-001	Flare	0.07	0.07	0.07	7.55	2.45	11.19	0.00	0.42	4239.81	1
AA-001a	Flare Pilot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.84	l l
AA-002	Power Oil Pump Engine	0.01	0.02	0.02	0.04	2.70	4.55	0.00	0.04	142.52	
AA-002a	Compressor Engine	0.01	0.02	0.02	0.03	2.45	4.13	0.00	0.04	129.56	
AA-003	Fugitive emissions- equipment leaks	-	-		0.06	_	-		0.00	0.01	
AA-004	High Pressure Separator				GAS ROU	TED TO FL	ARE				
AA-005	Low Pressure Separator				GAS ROU	TED TO FL	ARE				
AA-006	Heater Treater				GAS ROU	TED TO FL	ARE				
AA-006a	Heater Treater (burner)	0.00	0.00	0.00	0.00	0.05	0.04	0.00	0.00	58.32	<u> </u>
AA-007	Misc. Chemical Tanks	-	-	-	0.00	-	-	-	0.00	-	<u> </u>
AA-008	Oil and Water Storage Tanks				GAS ROU	TED TO FL	ARE				
AA-009	Truck Loading	-	-	-	117.72	_		-	5.27	0.01	
Fuz Wilking	Totals	0.09	#012	0.12	125.41	7.66	19.91	0.002	5:78	4576.07	(%,1

Notes:

Storage tanks emissions are included in flare emissions.

 $\bar{\text{Truck}}$ loading hourly emissions are dictated by the capacity of the transfer pump

4.38 tpy = 1 PPH

Flash Gas Analysis and Conversions

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

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

Gas analysis generated by E&P Tanks software.

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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

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TANK W & B GAS COMPOSITION

Component	VOC and/or HAP?	Mol %	Wt %
Total S	None	0.000%	0.00000%
CO2	None	0.32%	0.25%
N2	None	0.00%	0.00%
Methane	None	4.76%	1.35%
Ethane	None	7.23%	3.86%
Propane	VOC	24.31%	19.03%
Isobutane	voc	23.60%	24.34%
Butane	VOC	14.17%	14.62%
Isopentane	VOC	9.38%	12.01%
Pentane	voc	5.77%	7.39%
Hexane	VOC	3.28%	5.02%
Heptanes+	VOC	4.52%	8.03%
Benzene	VOC and HAP	0.32%	0.44%
Toluene	VOC and HAP	0.27%	0.44%
e-Benzene	VOC and HAP	0.01%	0.02%
Xylenes	VOC and HAP	0.12%	0.23%
n-hexane		1.95%	2.98%
Total VOC		85.75%	91.56%
Total HAP		2.660%	4.10%

44.1	0.140414
28.01	0
16.04	0.762878
30.07	2.174783
44.1	10.72005
58.12	13.71649
58.12	8.235546
72.15	6.766083
72.15	4.163055
86.18	2.8286
100.21	4.526586
78.11	0.247531
92.14	0.245092
106.17	0.009449
106.16	0.129091
86.18	1.677235
	56.34289

0.749809

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

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

Tank Uncontrolled Emissions Summary

	Potential		Initial Production	
Total flash gas ,	8,077,222	SCF/yr	1.076	SCF/hr
Total flash gas ,	479.88	tpy	127.82	lb/hг
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:

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^{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>Poten</u>	<u>tial</u>
Flow to flare of tank fl	ash gas	=	479.88	tpy
Flow to flare of tank V			9.53	tpy
flow to flare from true	k loading	=	0.00	tpy
Total process gas to fla	-	=	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>Potentia</u>	l Emissions		<u>Potential Er</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>	<u>tpy</u>
	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
P	M10/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.
- 2. Mass balance calculations utilize flare input gas flow and a flare destruction efficiancy of 98% minimum.
- 3. Mass balance for sulfur assumes all sulfur converted to SO2 in flare.

ink Battery HAP emissions calculated using mass balance and 98% destruction efficiency

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

Gas Flow to Flare:

		<u>Potential</u>
Flow to flare of tank flash gas	=	127.82 lbs/hr
Flow to flare of tank W&B emissions		2.54 lbs/hr
flow to flare from truck loading	=	0.00 lbs/hr
Total process gas to flare	=	130.35 lbs/hr
Produced gas to flare	=	2155.80 lbs/hr
_	=	31.25 mcf/hr
Produced gas combustion heat	=	42.28 MMBtu/hr
process gas combustion heat	=	2.65 MMBtu/hr
flare gas combustion heat, total	=	44.93 MMBtu/hr

			Maximum Hourly Emissions		Potential Emissions
	<u>Pollutant</u>	Emission factor, lbs/MMBtu	<u>lb/hr</u>	<u>Pollutant</u>	<u>lb/hr</u>
	NOx	0.068	3.055	n-hexane	0.3322
Calculation	CO	0.37	16.625	benzene	0.0361
	PM	0.00745	0.335	e-benzene	0.0025
	VOC	mass balance	9.338	toluene	0.0334
	SO ₂	mass balance	0.000	xylenes	0.0190
	-			Total HAPs	0.4231

Notes:

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

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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 I</u>	<u>missions</u>
<u>Pollutant</u>	Emission factor, Ibs/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%.

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Calculation of Flare GHG Emissions

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

PROCESS GAS

	1,110 0000 01 11						
carbon	CO2 (from c	ombustion)	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 0.001235

0.052600

0.019200

98.00%

carbon	CO2 (from c	ombustion)	CO2 input	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			ļ		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)

Equipment Component Fugitive Emissions

Components	Counts	Emission Factor ¹	Emissions	Wt. Fraction	VOC Emi	ssions	voc%	HAP Em	issions	G
		scf/hr/component	lbs/hr	voc	lb/hr	tpy	HAP ³	lb/hr	tpy	CO
Valves:	37									
gas/vapor	24	0.027	0.044702609	0.18	0.008	0.04	0.68%	0.000	0.001	0.00
light oil ²	13	0.05	0.04484058	0.54	0.024	0.11	5.34%	0.002	0.010	0.00
heavy oil	0	0.0005	0	0.18	0.000	0.00	0.68%	0.000	0.000	
Pumps:			0	0.18			0.68%	0.000	0.000	
Light oil	0	0.01	0	0.73	0.000	0.00	1.66%	0.000	0.000	
heavy oil	0	0	0	0.18			0.68%	0.000	0.000	
Flanges:	46		0	0.18			0.68%	0.000	0.000	
gas/vapor		0	0	0.18	0.000	0.00	0.68%	0.000	0.000	
light oil	46	0.003	0.00952	0.73	0.007	0.03	1.66%	0.000	0.001	0.00
heavy oil	0	0.0009	0	0.18	0.000	0.00	0.68%	0.000	0.000	
Relief Valve:	 		0	0.18			0.68%	0.000	0.000	
gas/vapor	4	0.04	0.011037681	0.18	0.002	0.01	0.68%	0.000	0.000	0.0
Connectors:	101		0	0.18			0.68%	0.000	0.000	
gas/vapor	67	0.003	0.013866087	0.18	0.003	0.01	0.68%	0.000	0.000	0.00
light oil	34	0.007	0.016418551	0.73	0.012	0.05	1.66%	0.000	0.001	0.00
heavy oil	0	0.0003	0	0.18	0.000	0.02	0.68%	0.000	0.000	
Other	1	0.3	0.020695652	0.18	0.004	0.02	1.66%	0.000	0.002	0.00
				Totals	0.060	0.278		0.004	0.016	0.0

Notes:

1. Emission factors and equipment counts taken from 40 CFR 98, subpart W.

2. Light oil is defined as having API gravity greater than or equal to 20 degrees API.

3. Vapors emitted from gas service equipment assumed to be same as produced gas, vapor from liquid service equipment assumed to be the same as flash gas.

odenburgen and annual to		0				
nt assumed to be the s	ame as flash gas.		heater treater	1	8	
	lb/hr	tpy	header	0	0	
n-hexane	0.00303	0.01327	separator	2	12	
benzene	0.00027	0.00120	meters/piping	0	0	
ethyl benzene	0.00002	0.00009	compressor	1	12	
toluene	0.00021	0.00092	dehydrator	0	0	
xylene	0.00011	0.00047		total	37	

Equipment

wellhead

Count

Valves

1

Flange

5

ENGINE POTENTIAL EMISSIONS CALCULATIONS

T			Heat Input				En	nissions, tpy				GHG E
Engine No.	HP	mmBtu/hr	NOx	VOC	СО	SO2	TSP	PM10	PM2.5	CO2	CH4	
AA-002	165	1.22	11.83	0.16	19.91	0.00	0.05	0.10	0.10	624.23	1.18E-02	
AA-002a	150	1.11	10.75	0.14	18.10	0.00	0.05	0.09	0.09	567.48	1.07E-02	
		Total	22.58	0.30	38.01	0.01	0.10	0.20	0.20	1191.71	0.02	

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

ENGINE HAP EMISSIONS CALCULATIONS

	Natural Gas	AA-0		AA-0	
	Emission Factor,	HAP EMI	SSIONS	HAP EM	ISSIONS
HAP	lbs/mmBtu	lbs/hr	tpy	lbs/hr	tpy
1,1,2,2-Tetrachloroethane	2.53E-05	3.09E-05	1.35E-04	2.81E-05	1.23E-04
1,1,2-Trichloroethane	1.53E-05	1.87E-05	8.19E-05	1.70E-05	7.44E-05
1,3-Butadiene	6.63E-04	8.10E-04	3.55E-03	7.36E-04	3.23E-03
1,3-Dichloropropene	1.27E-05	1.55E-05	6.80E-05	1.41E-05	6.18E-05
Acetaldehyde	2.79E-03	3.41E-03	1.49E-02	3.10E-03	1.36E-02
Acrolein	2.63E-03	3.21E-03	1.41E-02	2.92E-03	1.28E-02
Benzene	1.58E-03	1.93E-03	8.46E-03	1.75E-03	7.69E-03
Carbon Tetrachloride	1.77E-05	2.16E-05	9.47E-05	1.97E-05	8.61E-05
Chlorobenzene	1.29E-05	1.58E-05	6.90E-05	1.43E-05	6.28E-05
Chloroform	1.37E-05	1.67E-05	7.33E-05	1.52E-05	6.67E-05
Ethylbenzene	2.48E-05	3.03E-05	1.33E-04	2.75E-05	1.21E-04
Ethylene Dibromide	2.13E-05	2.60E-05	1.14E-04	2.37E-05	1.04E-04
Formaldehyde	2.05E-02	2.50E-02	1.10E-01	2.28E-02	9.97E-02
Methanol	3.06E-03	3.74E-03	1.64E-02	3.40E-03	1.49E-02
Methylene Chloride	4.12E-05	5.03E-05	2.20E-04	4.58E-05	2.00E-04
Naphthalene	9.71E-05	1.19E-04	5.20E-04	1.08E-04	4.72E-04
PAH	1.41E-04	1.72E-04	7.55E-04	1.57E-04	6.86E-04
Styrene	1.19E-05	1.45E-05	6.37E-05	1.32E-05	5.79E-05
Toluene	5.58E-04	6.82E-04	2.99E-03	6.20E-04	2.71E-03
Vinyl Chloride	7.18E-06	8.77E-06	3.84E-05	7.98E-06	3.49E-05
Xylene	1.95E-04	2.38E-04	1.04E-03	2.17E-04	9.49E-04
Total		3.96E-02	1.73E-01	3.60E-02	1.58E-01

AA-002 heat input=

11/10/2022

1.22 mmBtu/hr

AA-002a heat input=

1.11 mmBtu/hr

annual operating hours=

8760

Emission factors from AP-42, Table 3.2-3

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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 (psia)	Mol. Wt. Of Vapors (lb/lb- mole)	Temp. of Liquid	Sales Volume (10³ gal/yr)	Loading Rate (gal/hr)	E	rolled Est missions Hydrocar (lb/hr)	bons (tpy)
Г	1.45	5	48.00	545	4,599	16,000	7.96	127.30	18.30

PRODUCED WATER

Calculation	"S"	True VP of Liquid	Mol. Wt. Of Vapors	Temp. of Liquid	Loaded Volume	Loading Rate	E	rolled Est missions Hydrocar	
Curculation		(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

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

Truck Loading Emissions Calculations, Maximum lbs/hr

 $L_L = 12.46 * (SPM)/T$

(from EPA AP-42 Section 5.2.2.1)

Where:

L_L = Loading loss, lbs per 1,000 gal of liquid loaded

S = Saturation factor

P = True vapor pressure of liquid, psia
M = Molecular weight of vapors, lb/lb-mole
T = Temperature of bulk liquid loaded, degrees R

CRUDE OIL

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

PRODUCED WATER

Calculation

on	EPA "S" Factor	True VP of Liquid	Mol. Wt. Of Vapors	Temp. of Liquid	Loaded Volume	Loading Rate	E	Incontrolled Estimat Emissions, Total Hydrocarbons	
		(psia)	(lb/lb- mole)	*(R)	(10 ³ gal/hr)		ել	(lb/hr)	
	1.45	0.05	48.00	545	16.0	16,000	0.08	1.27	

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

External Combustion Equipment Emissions Calculations

	Capacity	Emissions, tons/yr								
Source	MMBtu/hr	PM	PM10	Pm 2.5	NOx	CO	VOC	SO2	HAP	CO2
Heater Trea		0.004	0.016	0.016	0.215	0.180	0.012	0.001	0.004	255.45
Line Heate		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
Totals		0.004	0.016	0.016	0.215	0.180	0.012	0.001	0.004	255.45

Ap-42 natural gas	combustion
Emission Factors	lbs/MMBtu

LIIIISSIOII	ractors, ibs/ivitvibea	
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 Emission Fact CO2 CH4

N20

Natural Gas Combustion HAP Calculations

<u></u>	Natural Gas		Heater Treater HAP EMISSIONS		Flare Pilot HAP EMISSIONS		Line Heater HAP EMISSIONS	
HAP	Emission Factor, 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	0.00E+00	0.00E+00	
Dichlorobenzene	1.18E-06	5.88E-07	2.58E-06	5.88E-08	2.58E-07	0.00E+00	0.00E+00	
Formaldehyde	7.35E-05	3.68E-05	1.61E-04	3.68E-06	1.61E-05	0.00E+00	0.00E+00	
Hexane	1.76E-03	8.82E-04	3.86E-03	8.82E-05	3.86E-04	0.00E+00	0.00E+00	
Naphthalene	5.98E-07	2.99E-07	1.31E-06	2.99E-08	1.31E-07	0.00E+00	0.00E+00	
Polycyclic Organic Matter	2.38E-05	1.19E-05	5.21E-05	1.19E-06	5.21E-06	0.00E+00	0.00E+00	
Toluene	3.33E-06	1.67E-06	7.30E-06	1.67E-07	7.30E-07	0.00E+00	0.00E+00	
Total	3.302 00	9.35E-04	4.09E-03	9.35E-05	4.09E-04	0.00E+00	0.00E+00	

Burner Heat Input=

0.50 mmBtu/hr

Flare Pilot Heat Input=

0.05 mmBtu/hr

Line Heater Heat Input=

0.00 (No line heater at this facility)

annual operating hours=

8760

Emission factors from AP-42, Table 1.4-3

FLARE PILOT CALCULATIONS

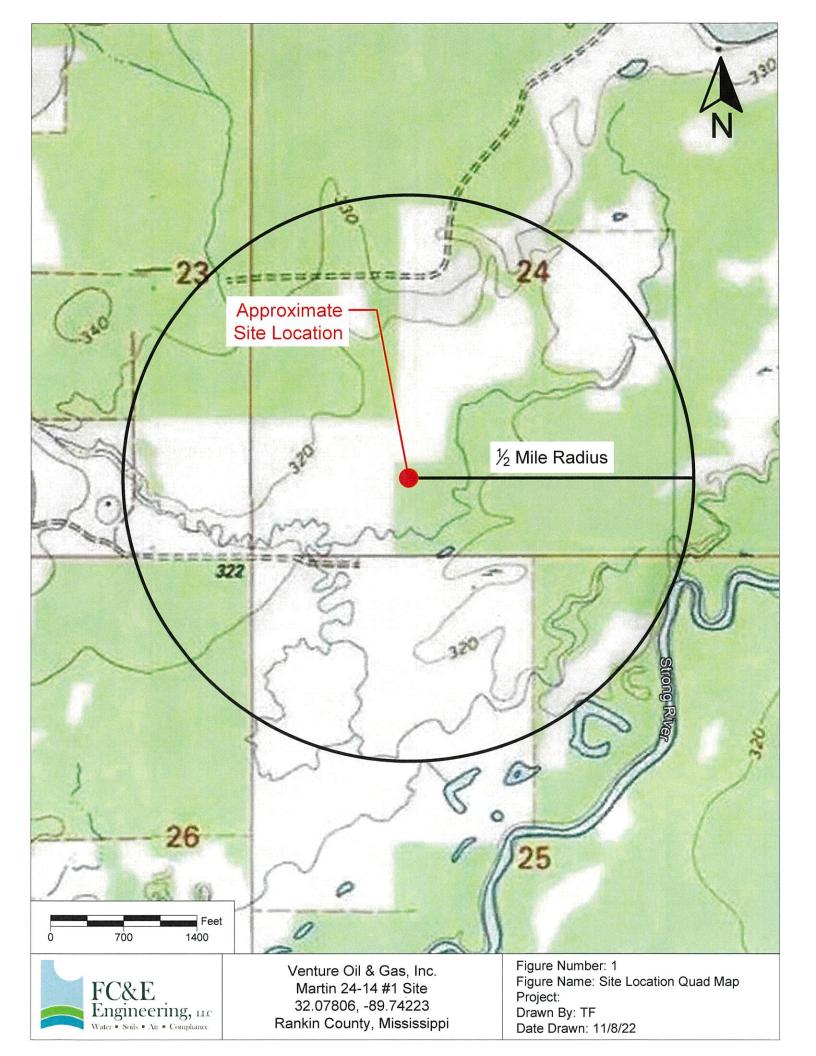
Emission	Combustion	Capacity	<u> </u>		Cri	iteria Emis	sions, tons/	yr		
Unit ID	Source	MMBTUH	PM	PM10	PM2.5	NOx	CO	VOC	SO2	HAP
AA-001a	Flare (Pilot)	0.05	0.000	0.002	0.002	0.021	0.018	0.001	0.000	0.000

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

Gas combustion

AP-42 Em	ission Factors, lbs/MMBtu	Emission Factors, kg/MMBtu		
TSP	0.001863	CO2	53.02	
PM10	0.007451	CH4	0.001	
PM2.5	0.007451	N2O	0.0001	
NOx	0.098039			
СО	0.082353			
VOC	0.005392			
SO2	0.000588			
HAPs	0.001851			

LIST OF FIGURES





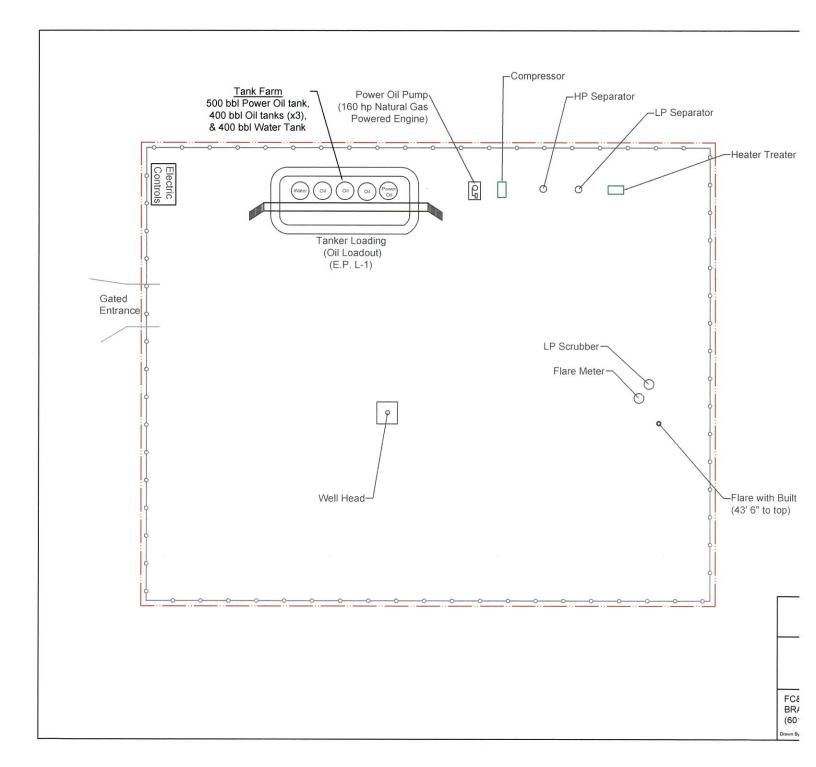


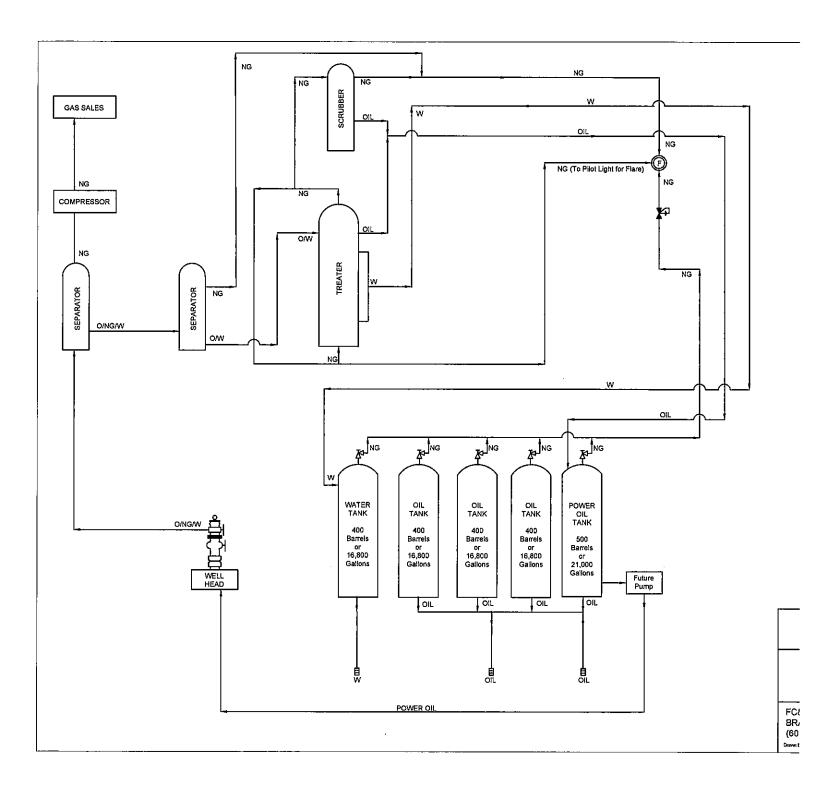
Venture Oil & Gas, Inc. Martin 24-14 #1 Site 32.07806, -89.74223 Rankin County, Mississippi Figure Number: 2

Figure Name: Site Location Aerial Map

Project:

Drawn By: TF Date Drawn: 11/8/22





APPENDIX B: BACKUP DOCUMENTATION

Emissions Report - Summary Format Tank Indentification and Physical Characteristics

Identification

User Identification:

Anti-Foam Tank

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

Description:

250-Gallon Anti-Foam Tank

Tank Dimensions

Shell Length (ft):
Diameter (ft):
Volume (gallons):
Turnovers:
Net Throughput(gal/yr):

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

Paint Characteristics

Shell Color/Shade:

Wnite/White

Good

Shell Condition

Breather Vent Settings

Vacuum Settings (psig):

-0.03

5.00

5.00

1.46

250.00

365.00

Pressure Settings (psig)

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	Da Tem	aily Liquid S perature (d Min.		Liquid Bulk Temp (deg F)		or Pressure Min.	(psla) Max.	Vapor Mol. Welght.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	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							

Emissions Report - Summary Format Tank Indentification and Physical Characteristics

Identification

User Identification:

Corrosion Inhibitor Tank

City: State: Company: Type of Tank:

Mississippi Venture Oil Horizontal Tank

Stringer

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(gal/yr):
 1,095.00

 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):

-0.03

Pressure Settings (psig)

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

Daily Liquid Surf. Temperature (deg F)				Liquid Bulk Temp Vapor Pressure (psia)		(psia)	Vapor Liquid Mol. 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 Breathing 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

Description:

250-Gallon Emulsion Breaker Tank

Tank Dimensions

Shell Length (ft): 5.00 5.00 Diameter (ft): Volume (gallons): 250.00 Turnovers: 2.92 Net Throughput(gal/yr): 730.00 N

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):

-0.03

Pressure Settings (psig)

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		Liquid Bulk Temp	Vapo	r Pressure	(psla)	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	Ali	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: Type of Tank: Description: Methanol Tank Stringer Mississippi Venture Oil Horizontal Tank

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):
 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

Methanol Tank - Horizontal Tank Stringer, Mississippi

			aily Liquid S		Liquid Bulk Temp	Vapo	r Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.	Basis for Vapor Pressure
Mixture/Component	Month	Avg.	Mln.	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		Total Emissions					
Methyl alcohol	0.97	17.15						

```
Project Setup Information
Entering Air Composition : No
                   : Venture Martin 24-14 No. 1
Well ID
                   : 2022.08.18
Date
*****************
* Data Input
***************
Separator Pressure : 45.00[psig]
Separator Temperature : 140.00[F]
Ambient Pressure : 14.70[psia]
Ambient Temperature : 140.00[F]
                   : 0.8930
C10+ SG
C10+ MW
                    : 277.00
-- Low Pressure Oil -----
  No. Component mol %
                        0.0000
       H2S
  1
                        0.0000
       02
  3
                        0.0400
       CO2
       N2
                        0.0000
  4
       C1
                        1.2100
       C2
  6
                        0.7600
  7
       C3
                        2.9200
      i-C4
  8
                        4.1500
       n-C4
                        3.0600
  q
       i-C5
n-C5
  10
                        3.9300
                       3.0900
  11
       C6
  12
                       4.9100
       C7
C8
  13
                       13.0800
                       14.6200
  14
       C9
                        7.6300
  15
      C10+
  16
                       31.1400
  17
       Benzene
                        0.6900
       Toluene
                       1.9400
  18
                       0.1900
  19
      E-Benzene
                        2.9800
  20
       Xylenes
  21
       n-C6
                        3.6600
       224Trimethylp
                       0.0000
Production Rate : 218[bbl/day]
Days of Annual Operation : 365 [days/year]
API Gravity : 47.0
Reid Vapor Pressure : 6.00[psia]
                : 0.000,
: 80.00[F]
Bulk Temperature
-- Tank and Shell Data -----
                   : 21.00[ft]
Diameter : 21.00[15]
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
Diameter
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]

Max Ambient Temperature : 76.30[F]
Total Solar Insolation : 1409.00[Btu/ft^2*day]

***	******	******	*****	******	******	*****	******	*****
*	Calculation R		*****	******	******	*****	******	*
	Emission Summary	,						
Ite		Uncontrolled						
		[ton/yr]	[lb/hr]					
	al HAPs	23.460	5.356					
		437.788	99.952					
		423.339	96.653					
VUC	s, C3+	407.954	93.140					
Unc	ontrolled Recove	ry Info.						
	Vapor	16.3600	[MSCFD]					
	HC Vapor		[MSCFD]					
	GOR	75.05	[SCF/bbl]					
	Emission Composi	tion						
	Component	Uncontrolled						
		[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 C3	15.385	3.513					
7 8	i-C4	68.917 92.659	15.734 21.155					
9	n-C4	57.728	13.180					
	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	0.896					
16	C10+	0.002	0.000					
17	Benzene	2.395	0.547					
18	Toluene	2.803	0.640					
19	E-Benzene	0.125	0.029					
20 21	Xylenes n-C6	1.752 16.388	0.400 3.742					
	n-co 224Trimethylp		0.000					
22	Total	439.045	100.239					
	Stream Data							
	Component ssions	MW	Th OII	Flash Oil	Sale Oil	Flash Gas	W&S GaS	Total
			mol %	mol %	mol %	mol %	mol %	mol %
1	H2S	34.80	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	02	32.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	CO2	44.01	0.0400	0.0037	0.0021	0.3632	0.3184	0.3624
4	N2	28.01	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	Cl	16.04	1.2100	0.0481	0.0134	11.5462	4.7561	11.4290
6	C2	30.07	0.7600	0.1170	0.0860	6.4800	7.2324	6.4930
7	C3	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 86.16	3.0900	2.7682	2.7574	5.9530	5.7777	5.9499
12 Pag	_C6 e _2	00.10	4.9100	5.0229	5.0308	3.9060 E&	3.2822 P TANK	3.8952
13	e 2 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	T		
Ellisville, MS 39437	Incorporator		
William Edward Carpenter			
112 Westminister Drive	Incorporator		
Hattiesburg, MS 39401	meorporator		
Jay Donald Fenton			
332 Luther Hill Rd	Director, President		
Ellisville, MS 39437	2 notici, i resident		
Neil Scrimpshire			

Director, Secretary, Vice President

9 Heritage Trail

Laurel, MS 39440