

GCP-Oil and Gas AQB ePermitting Portal Registration Form Section 1- (ePermitting Portal submittals)

<u>Portal submittals</u> - delete all pages before this page. <u>Hardcopy submittals</u> may delete this page.

☑ I understand that I must submit the hard copy check with the required Payment Form for all AQB ePermitting Portal submittals. The 30-day review period will not begin until the check is received. (Does not apply if you are converting from a GCP-1 or GCP-4.) Form available: www.env.nm.gov/air-quality/aqb-epermitting-portal/
☑ I will upload this form to submit via the Portal. I understand that certain pages may be deleted by following instructions on this form, to avoid repeating information I entered directly into the Portal or uploaded separately.
☑ Attach only the electronic copy of the permit with the Department response, do not mail a paper copy. (If box

Facility Name or Facility Type Change for Modifications

is not checked, a paper copy of the permit will be sent with your response letter.)

Fill out this section if requesting a change to the facility name or facility type that appears in the ePermitting Portal. These items cannot be updated through the Portal and will be corrected as part of the review of your permit. Check the appropriate box(es) and provide complete information in the table.

☒ Not applicable

□ 1.	Changing facility name. (Punctuation and special ch	aracte	rs not allowed. Use "No123" instead of #123)							
□ 2.	☐ 2. Changing facility type.									
1a	Current Facility Name:	1b	New Facility Name:							
2a	Current Facility Type:	2b	New Facility Type:							
	☐ Production Site		☐ Production Site							
	☐ Tank Battery		☐ Tank Battery							
	☐ Compressor Station		☐ Compressor Station							
	☐ Natural Gas Plant		☐ Natural Gas Plant							
	☐ Reinjection facility		☐ Reinjection facility							
	☐ Well head		☐ Well head							
	☐ Misc Oil and Gas		☐ Misc Oil and Gas							
	☐ Amine Plant		☐ Amine Plant							

☐ Energy Support Facility

☐ Energy Support Facility

☐ Other, please specify:

For Department use MEX New Mexico Environment Department Air Quality Bureau Permitting Section 525 Camino de los Marquez, Suite 1 Santa Fe, NM 87505-1816 Phone: (505) 476-4300 Fax: (505) 476-4375 www.env.nm.gov/air-quality/

Electronic Permitting Application

Use this application for NOI and GCP-Oil and Gas Permits. se fill out all sections so that they have check marks and attach all required documents for review. Coordination with AQB is c Use this application for: the initial application, modifications, revisions and when converting from another permit type. Plea set up a walk through.

Section 1 - Facility Information

	ion 1-A: Company Informa modified by Watkins, Kaden on 0'		at 13:07:25.					
1	Facility Name: Wexler Tank Ba	ttery					AI # (if known): 40920	U
a	SIC Code: 1311 - Crude petro NAICS Code: 21112 - Crude Petr Facility Type: 146 - Oil & Gas		-	Secondary Fac	ility Type: 272 - O&G-P	voduction Facility	▼ (I MIONE).	Reset Selecti
2	Company Name (Owns facility):	Stewar	d Energy II LLC			(Update) UF	DATED	Pl
a	Mailing Address: 777 Taylor St			Address 2: Suite 1050	City: Fort Worth	State: Texas	ZIP Code: 76102]
3	Billing Party: Steward Energy II	LLC				New Update Remove	UPDATED	
a	Mailing Address: 777 Taylor St			Address 2: Suite 1050	City: Fort Worth	State: Texas	ZIP Code: 76102	Phone: 214-297-0500
4	Consultant Company: Sphere 3	Enviror	nmental Inc			New Update (Remove EXISTII	NG
a	Mailing Address: 1501 Bill Owens Parkway			Address 2:	City:	State: Texas	ZIP Code: 75604	Phone: 903-297-4673
5	Consultant / Preparer Contact: Fir First Name: Kaden	M.I.:	ng By Email Address: Last Name: Watkins	Title:		Look Up (New) (Up	date Remove E	EXISTING F
a	Mailing Address: 1501 Bill Owens Parkway			Address 2:	City:	State: Texas	ZIP Code: 75604	
6	Plant Operator Company: Stewa	rd Ener	gy II LLC			Update UPDAT	ED	
a	Plant Operator Company Address: 777 Taylor St			Address 2: Suite 1050	City: Fort Worth	State: Texas	ZIP Code: 76102	Phone: 214-297-0500
b	Plant Operator Contact: Find Exis First Name: Nicholas		Email: Last Name: White	Title:		ok Up	UPDATED	F E
с	Mailing Address: 777 Taylor St			Address 2: Suite 1050	City: Fort Worth	State: Texas	ZIP Code: 76102]
7	Air Permit Contact: Find Exist	ing By E	Email Address:			Look Up New Update	Remove UPDA	ATED
a	First Name:	M.I.:	Last Name:	Title:	Analyst	▼	Phone: 214-297-	
b	Mailing Address: 777 Taylor St			Address 2: Suite 1050	City:	State:	Email: nick.white ZIP Code: 76102	e@stewardenergy

Section 1-C: Facility Input Capacity & Production Rate - Wexler Tank Battery Last modified by Watkins, Kaden on 07/24/24 at 13:09:50.

Enter the maximum hourly, daily, and annual throughput of oil, gas, natural gas liquids (NGL), and produced water.

LIII	ci the maximu	ii iiourry, darry, and aimuai	tinoughput of on, gas, nat	urar gas riquius (NGL), a	ind produced water.		
1	Oil						
a	Current:	Hourly:	bbl/h ▼	Daily:	bbl/d ▼	Annually:	bbl/y ▼
b	Proposed	Hourly: 19.75	bbl/h ▼	Daily: 474	bbl/d ▼	Annually: 173010	bbl/y ▼
2	Natural Ga	as					
a	Current	Hourly:	M SCF/h ▼	Daily:	M SCF/d ▼	Annually:	M SCF/y ▼
b	Proposed	Hourly: 20.25	M SCF/h ▼	Daily: 486	M SCF/d ▼	Annually: 177390	M SCF/y ▼
3	Natural Ga	as Liquids					
a	Current	Hourly: 0		Daily: 0	•	Annually: 0	▼
b	Proposed	Hourly: 0	•	Daily: 0	•	Annually: 0	
4	Produced '	Water					
a	Current	Hourly:	bbl/h ▼	Daily:	bbl/d ▼	Annually:	bbl/y ▼
b	Proposed	Hourly: 174.79	bbl/h ▼	Daily: 4195	bbl/d ▼	Annually: 1531175	bbl/y ▼

Section 1-D: Facility Location Information - Wexler Tank Battery Last modified by Watkins, Kaden on 07/24/24 at 13:30:01.

1	County: Lea v		Elevation (ft): 3806					
	UTM Zone:		Datum:					
2	○12 or ○13		◎ NAD 83 ○ WGS 84					
a	UTM E (in meters, to nearest 10 meters): 678,884		UTM N (in meters, to nearest 10 meters	ers): 3,677,618				
b	Latitude: 33.222737 dec deg. N		Longitude: -103.075884 dec	deg. W				
	Facility/Plant Address:	City:	State:	ZIP Code:	District:	Field Offic		
3	13.9 miles SE of Tatum	Tatum	New Mexico ▼	88267	004 - IV	Select		
	(If no facility street address, leave blank)							
4	The facility is 13.9 miles SE	(nearest	town).					
5	Detailed Driving Instructions from nearest NM town (attach a	road map if necessary):						
	From Tatum, NM go east on E Broadway St for 15 miles. Then	turn right on State Line Road	and go south for 2.9 miles. The go	<u> </u>				
6	Status of land at facility: Private	▼						
7	Select nearest Class I area: Class I - Carlsbad Caverns Nation	nal Park 🔻						
8	Shortest distance (in km) from facility boundary to the boundary	ry of the nearest Class I area (to the nearest 10 meters): 172.5 km					
9	Is this a portable stationary source as defined in 20.2.72.7.X N	MAC?						
9	○ Yes No							
Will this facility operate in conjunction with other air regulated parties on the same property?								
10	○ Yes No							
	If yes, what is the name and permit number (if known) of the o	ther facility?						

Section 1-E: Proposed Operating Schedule - Wexler Tank Battery Last modified by Watkins, Kaden on 07/24/24 at 10:36:55.

1	Facility maximum operating (hours/day): 24 days/week: 7 weeks/year: 52 hours/year: 8760
2	Facility's maximum daily operating schedule (if less than 24 hours/day)? Start Time: End Time:
3	Month and year of anticipated start of construction (mm/yyyy):
4	Month and year of anticipated construction completion (mm/yyyy):
5	Month and year of anticipated startup of new or modified facility (mm/yyyy):
6	Will this facility operate at this site for more than one year? Yes No

The 1-E.1 & 1-E.2 operating schedules may become conditions in the permit.

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Table 2-F: Startup, Shutdown, and Routine Maintenance (SSM) Emissions

☐ This table is intentionally left blank as all SSM emissions at this facility do not require an increase in Requested Allowables greater than those listed in Table 2-E.

All applications for facilities that have emissions during routine our predictable startup, shutdown or scheduled maintenance (SSM)², including NOI applications, must include in this table the Maximum Emissions during routine or predictable startup, shutdown and scheduled maintenance (20.2.7 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.D.2 NMAC). Provide emissions calculations for all SSM emissions reported in this table. Refer to the guidance "Startup, Shutdown, Maintenance Emissions in Permits" (www.env.nm.gov/air-quality/permitting-section-procedures-and-guidance/) for more detailed instructions. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41).

Unit No.	NOx		co		V	voc		Эх	PN	I10 ¹	PM	2.5 ¹	H ₂ S		Le	ead
Unit No.	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
FUG-1																
HR-1																
HT-1																
HT-2																
HT-3																
OLOAD-1																
OT-1																
OT-2																
OT-3																
PWLOAD-1																
PWT-1																
PWT-2																
PWT-3																
SSM-1	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-
FL-1A-HP																
FL-1A-LP																
FL-1A-LP-SSM	78.36	0.03	156.43	0.06	2.54	0.47	332.21	0.11	-	-	-	-	3.60	0.001	-	-
Totals	78.36	0.03	156.43	0.06	2.54	10.47	332.21	0.11	0.0	0.0	0.0	0.0	3.6	0.001	0.0	0.0

¹ Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.

 Comments (2000 character maximum)	

²For instance, if the short term steady-state Table 2-E emissions are 5 lb/hr and the SSM rate is 12 lb/hr, enter 7 lb/hr in the table below. If the annual steady-state Table 2-E emissions are 21.9 TPY, and the number of scheduled SSM events result in annual emissions of 31.9 TPY, enter 10.0 TPY in the table below.

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Table 2-A: Regulated Emission Sources

Unit Number ¹	Description	Manufacturer			Combustion Type	Rated Capacity ³	Permitted Capacity ³	Date ² of Manufacture or Reconstruction Date ² of Installation /Construction	3 TT *4 11	Source Classification Code (SCC)	Disposition	Applicable State & Federal Regulation(s) (i.3. 20.x.x, JJJJ,)
FL-1-LP	Flare 1 Low Pressure Tip		HTDR- 2			8.49 MM SCF/d	8.49 MM SCF/d		N/A FL-1-LP	3-10-001-60	To Be Removed	NA
FL-1-HP	Flare 1 High Pressure Tip	Messco	HTDR- 2	TBD		9.34 MM SCF/d	9.34 MM SCF/d		N/A FL-1-HP	3-10-001-60	To Be Removed	NA
FUG-1	Fugitives	N/A	N/A	N/A					FUG-1	3-10-888-11	To Be Revised	40 CFR 60 Subpart OOOOb
HR-1	Unpaved Haul Road	N/A	N/A	N/A					HR-1	3-10-888-11	To Be Revised	NA
HT-1	Heater Treater 1	TBD	TBD	TBD		0.50 MM BTU/h	0.50 MM BTU/h		VRU-S, FL-1A-LP- SSM HT-1	3-10-004-04	To Be Revised	NA
HT-2	Heater Treater 2	TBD	TBD	TBD		0.50 MM BTU/h	0.50 MM BTU/h		VRU-S, FL-1A-LP- SSM HT-2	3-10-004-04	To Be Revised	NA
НТ-3	Heater Treater 3	TBD	TBD	TBD		0.50 MM BTU/h	0.50 MM BTU/h		VRU-S, FL-1A-LP- SSM HT-3	3-10-004-04	To Be Revised	NA
OLOAD-1	Oil Truck Loading	N/A	N/A	N/A		726642 gal/y	726642 gal/y		FL-1A-LP OLOAD-1	4-06-001-42	To Be Revised	NA
OT-1	Oil Tank 1	TBD	TBD	TBD		500.00 bbl	500.00 bbl		FL-1A-LP OT-1	4-04-003-12	To Be Revised	NA
OT-2	Oil Tank 2	TBD	TBD	TBD		500.00 bbl	500.00 bbl		FL-1A-LP OT-2	4-04-003-12	To Be Revised	NA
OT-3	Oil Tank 3	TBD	TBD	TBD		500.00 bbl	500.00 bbl		FL-1A-LP OT-3	4-04-003-12	To Be Revised	NA
PWLOAD- 1	Produced Water Truck Loading	N/A	N/A	N/A		6430935 gal/y	6430935 gal/y		FL-1A-LP PWLOAD- 1	4-04-002-50	To Be Revised	NA
PWT-1	Produced Water Tank 1	TBD	TBD	TBD		500.00 bbl	500 bbl		FL-1A-LP PWT-1	4-04-003-15	To Be Revised	NA
PWT-2	Produced Water Tank 2	TBD	TBD	TBD		500.00 bbl	500.00 bbl		FL-1A-LP PWT-2	4-04-003-15	To Be Revised	NA
PWT-3	Produced Water Tank 3	TBD	TBD	TBD		500.00 bbl	500.00 bbl		FL-1A-LP PWT-3	4-04-003-15	To Be Revised	NA
SSM-1	Startup, Shutdown, Maintenance	N/A	N/A	N/A					SSM-1	3-10-888-11	To Be Revised	NA
FL-1A-HP	Dual pressure process flare: FL- 1A-HP	Messco	HTDR- 2	TBD		9.34 MM SCF/d	9.34 MM SCF/d		FL-1A-HP	3-10-001-60	New/Additional	NA
FL-1A-LP	Dual pressure process flare: FL- 1A-LP	Messco	HTDR- 2	TBD		9.34 MM SCF/d	9.34 MM SCF/d		FL-1A-LP	3-10-001-60	New/Additional	NA
FL-1A-LP- SSM	Dual pressure process flare: FL- 1A-LP-SSM		HTDR- 2	TBD		8.49 MM SCF/d	8.49 MM SCF/d		FL-1A-LP- SSM	3-10-001-60	New/Additional	NA

Section 2- (ePermitting Portal submittals)

Hardcopy submittals - delete this page as this table is in the required excel portion of the hardcopy forms.

Table 2-B: Exempted Equipment (20.2.72 NMAC)

All 20.2.72 NMAC applications must list Exempted Equipment in this table. If equipment listed on this table is exempt under 20.2.72.202.B.5, include emissions calculations and emissions totals for 202.B.5 "similar functions" units, operations, and activities in Section 5, Calculations. Unit & stack numbering must be consistent throughout the application package.

Unit	Source Description	Manufacturer	Model No	Max Capacity	List Specific 20.2.72.202 NMAC	Date of Manufacture /Reconstruction1	For Each Piece of Equ			
Number	Source Sescription	- Wandidetaiei	Serial No	Capacity Units	Exemption (e.g. 20.2.72.202.B.5)	Date of Installation /Construction	. J. Latin rece of Equipment, effect one			
			N/A	N/A		N/A	☐ Existing (unchanged)	☐ To be Removed		
N/A	N/A	N/A			N/A		☐ New/Additional	☐ Replacement Unit		
							☐ To Be Modified	☐ To be Replaced		
							☐ Existing (unchanged)	☐ To be Removed		
							☐ New/Additional	☐ Replacement Unit		
							☐ To Be Modified	☐ To be Replaced		
							☐ Existing (unchanged)	☐ To be Removed		
							☐ New/Additional	☐ Replacement Unit		
							☐ To Be Modified ☐ To be Replaced			
							☐ Existing (unchanged)	☐ To be Removed		
							☐ New/Additional	☐ Replacement Unit		
							☐ To Be Modified	☐ To be Replaced		
							☐ Existing (unchanged)	☐ To be Removed		
							☐ New/Additional	☐ Replacement Unit		
							☐ To Be Modified	☐ To be Replaced		
							☐ Existing (unchanged)	☐ To be Removed		
							☐ New/Additional	☐ Replacement Unit		
							☐ To Be Modified	☐ To be Replaced		
							☐ Existing (unchanged)	☐ To be Removed		
							☐ New/Additional	☐ Replacement Unit		
							☐ To Be Modified	☐ To be Replaced		
							☐ Existing (unchanged)	☐ To be Removed		
					1		☐ New/Additional	☐ Replacement Unit		
							☐ To Be Modified	☐ To be Replaced		
							☐ Existing (unchanged)	☐ To be Removed		
					1		☐ New/Additional	☐ Replacement Unit		
							☐ To Be Modified	☐ To be Replaced		

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Table 2C - Emissions Reduction Equipment

☐ This Table was intentionally left blank.

In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the c device regardless if the applicant takes credit for the reduction in emissions. Also include reductions from process equipment in this table. Entering process equipment in this table is for data entry pur only, the process vs control analysis will be used to determine process or control status for VRUs. Only list control equipment for TAPs if the TAPs maximum uncontrolled emissions rate is over its respet threshold as listed in 20.2.72 NMAC, Subpart V, Tables A and B.

Reduction Equipment Unit No.	Reduction Equipment Description	Date Installed (mm/dd/yyyy).	Reduced Pollutants	Reducing Emissions for Unit Numbers Efficiency (% Reduction by Weight) Method used to estimate reduction		estimate	Reduction Type
FL-1A-LP-SSM	Flare		Volatile Organic Compounds (VOC)	HT-1	98	Manufacturer Specification	SECONDAR'
FL-1A-LP-SSM	Flare		Hydrogen sulfide (NMAAQ)	HT-1	98	Manufacturer Specification	SECONDAR'
VRU-S	Vapor Recovery System		Volatile Organic Compounds (VOC)	HT-1	90	Engineering judgment	PRIMARY
VRU-S	Vapor Recovery System		Hydrogen sulfide (NMAAQ)	HT-1	90	Engineering judgment	PRIMARY
FL-1A-LP-SSM	Flare		Volatile Organic Compounds (VOC)	HT-2	98	Manufacturer Specification	SECONDAR'
FL-1A-LP-SSM	Flare		Hydrogen sulfide (NMAAQ)	HT-2	98	Manufacturer Specification	SECONDAR'
VRU-S	Vapor Recovery System		Volatile Organic Compounds (VOC)	HT-2	90	Engineering judgment	PRIMARY
VRU-S	Vapor Recovery System		Hydrogen sulfide (NMAAQ)	HT-2	90	Engineering judgment	PRIMARY
FL-1A-LP-SSM	Flare		Volatile Organic Compounds (VOC)	HT-3	98	Manufacturer Specification	SECONDAR'
VRU-S	Vapor Recovery System		Volatile Organic Compounds (VOC)	HT-3	90	Engineering judgment	PRIMARY
VRU-S	Vapor Recovery System		Hydrogen sulfide (NMAAQ)	HT-3	90	Engineering judgment	PRIMARY
FL-1A-LP-SSM	Flare		Hydrogen sulfide (NMAAQ)	HT-3	98	Manufacturer Specification	SECONDAR'
FL-1A-LP	Flare		Volatile Organic Compounds (VOC)	OLOAD-1	98	Manufacturer Specification	PRIMARY
FL-1A-LP	Flare		Hydrogen sulfide (NMAAQ)	OLOAD-1	98	Manufacturer Specification	PRIMARY
FL-1A-LP	Flare		Volatile Organic Compounds (VOC)	OT-1	98	Manufacturer Specification	PRIMARY
FL-1A-LP	Flare		Hydrogen sulfide (NMAAQ)	OT-1	98	Manufacturer Specification	PRIMARY
FL-1A-LP	Flare		Volatile Organic Compounds (VOC)	OT-2	98	Manufacturer Specification	PRIMARY
FL-1A-LP	Flare		Hydrogen sulfide (NMAAQ)	OT-2	98	Manufacturer Specification	PRIMARY
FL-1A-LP	Flare		Volatile Organic Compounds (VOC)	OT-3	98	Manufacturer Specification	PRIMARY
FL-1A-LP	Flare		Hydrogen sulfide (NMAAQ)	OT-3	98	Manufacturer Specification	PRIMARY
FL-1A-LP	Flare		Volatile Organic Compounds (VOC)	PWLOAD-1	98	Manufacturer Specification	PRIMARY
FL-1A-LP	Flare		Hydrogen sulfide (NMAAQ)	PWLOAD-1	98	Manufacturer Specification	PRIMARY
FL-1A-LP	Flare		Volatile Organic Compounds (VOC)	PWT-1	98	Manufacturer Specification	PRIMARY
FL-1A-LP	Flare		Hydrogen sulfide (NMAAQ)	PWT-1	98	Manufacturer Specification	PRIMARY
FL-1A-LP	Flare		Volatile Organic Compounds (VOC)	PWT-2	98	Manufacturer Specification	PRIMARY
FL-1A-LP	Flare		Hydrogen sulfide (NMAAQ)	PWT-2	98	Manufacturer Specification	PRIMARY
FL-1A-LP	Flare		Volatile Organic Compounds (VOC)	PWT-3	98	Manufacturer Specification	PRIMARY
FL-1A-LP	Flare		Hydrogen sulfide (NMAAQ)	PWT-3	98	Manufacturer Specification	PRIMARY

How to complete the table: In the drop down, select regulated sources from Table 2A where emissions are reduced and click "Add." Then add reduced pollutants and associated reduction devices for each. If a j has emissions reduced by more than one device please add a line for each device and label them as primary, secondary, tertiary. Click "Edit" to update reduced pollutants and devices for each regulated source.

Comments (4000 character maximum)

List each reduction device and all sources they serve, e.g. FL-1: Oil tanks 1-4, loading, VRU downtime. FL-2: compressor and sales downtime. For NOIs, indicate the enforceability behind each device or clarify if it is voluntary and no credit is being claimed for the reduction, e.g., FL-1: Oil tanks 1-8 (OOOOa). FL-1: Loading (voluntary, no emissions reduction credit claimed.)

VRU-S: HT 1-3
FL-1A-LP-SSM: VRU-S Downtime (HT 1-3)
FL-1A-LP: OT 1-3, PWT 1-3, OLOAD-1, PWLOAD-1
FL-1A-HP: Pineline downtime

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Table 2-D: Maximum Emissions (under normal operating conditions)

This Table was intentionally left blank because it would be identical to Table 2-E.

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41).

Unit No.	N	Ox	C	0	VC	OC	S	Ox	PM	110 ¹	PM2.5 ¹		H ₂ S		Lead	
Unit No.	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
FUG-1	1	-	-	-	2.7	11.81	-	-		-	-	-	0.03	0.11	-	-
HR-1	-	-	-	-	-	-	-	-	0.79	0.15	0.08	0.02	-	-	-	-
HT-1	0.063	0.28	0.05	0.23	0.003	0.01	0.49	2.15	0.005	0.02	0.005	0.02	0.05	0.2	-	-
HT-2	0.063	0.28	0.05	0.23	0.003	0.01	0.49	2.15	0.005	0.02	0.005	0.02	0.05	0.2	-	-
HT-3	0.063	0.28	0.05	0.23	0.003	0.01	0.49	2.15	0.005	0.02	0.005	0.02	0.05	0.2	-	-
OLOAD-1	-	-	-	-	106.88	2.98	-	-	-	-	-	-	0.06	0.28	-	-
OT-1	-	-	-	-	13.29	58.22	-	-	-	-	-	-	0.13	0.59	-	-
OT-2	-	-	-	-	13.29	58.22	-	-	-	-	-	-	0.13	0.59	-	-
OT-3	-	-	-	-	13.29	58.22	-	-	-	-	-	-	0.13	0.59	-	-
PWLOAD-1	-	-	-	-	0.76	0.13	-	-	-	-	-	-	2.98	13.06	-	-
PWT-1	-	-	-	-	1.13	4.97	-	-	-	-	-	-	0.46	1.99	-	-
PWT-2	-	-	-	-	1.13	4.97	-	-	-	-	-	-	0.46	1.99	-	-
PWT-3	-	-	-	-	1.13	4.97	-	-	-	-	-	-	0.46	1.99	-	-
SSM-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FL-1A-HP	0.01	0.06	0.03	0.13	0.04	0.01	0.06	0.26	-	-	-	-	0.0006	0.003	-	-
FL-1A-LP	0	0	0	0	0	0	0	0	-	-	-	-	0	0	-	-
FL-1A-LP-SSM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	0.2	0.9	0.18	0.82	153.65	204.53	1.53	6.71	0.81	0.21	0.1	0.08	4.99	21.79	0.0	0.0

¹Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.

Comments (2000 character maximum)	

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Table 2-E: Requested Allowable Emissions

Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41). Facility totals are a summation of all the emissions entered for equipment in this table plus total tpy SSM emissions from Table 2F.

GCP-O&G: Combustion emissions from malfunction events are not allowed under this permit.

NOI: Malfunction emissions are not allowed under a Notice of Intent.

Unit No.	NO	Ox	CC)	V	OC	SO	Ox	PM	110 ¹	PM2.5 ¹		H ₂ S		Lead	
Cint 140.	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
FUG-1	-	-	-	-	2.7	11.81	-	-	-	-	-	-	0.03	0.11	-	-
HR-1	-	-	-		-	-	-		0.79	0.15	0.08	0.02	-	-	-	-
HT-1	0.063	0.28	0.05	0.23	0.003	0.01	0.49	2.15	0.005	0.02	0.005	0.02	0.05	0.2	-	-
HT-2	0.063	0.28	0.05	0.23	0.003	0.01	0.49	2.15	0.005	0.02	0.005	0.02	0.05	0.2	-	-
HT-3	0.063	0.28	0.05	0.23	0.003	0.01	0.49	2.15	0.005	0.02	0.005	0.02	0.05	0.2	-	-
OLOAD-1	-	-	-	-	33.13	0.92	-	-	-	-	-	-	0.02	0.09	-	-
OT-1	-	-	-	-	0.13	0.58	-	-	-	-	-	-	0.0013	0.0059	-	-
OT-2	-	-	-	-	0.13	0.58	-	-	-	-	-	-	0.0013	0.0059	-	-
OT-3	-	-	-	-	0.13	0.58	-	-	-	-	-	-	0.0013	0.0059	-	-
PWLOAD-1	-	-	-	-	0.2	0.04	-	-	-	-		-	0.92	4.05		-
PWT-1	-	-	-	-	0.01	0.05	-	-	-	-	-	-	0.0046	0.02	-	-
PWT-2	-	-	-	-	0.01	0.05	-	-	-	-	-	-	0.0046	0.02	-	-
PWT-3	-	-	-	-	0.01	0.05	-	-	-	-	1	-	0.0046	0.02	1	-
SSM-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FL-1A-HP	70.82	20.88	141.38	41.69	187.52	55.13	277.11	81.71	-	-	-	-	3	0.88	-	-
FL-1A-LP	78.36	0.03	156.43	0.05	2.54	0.47	332.22	0.11	-	-	-	-	3.60	0.001	-	-
FL-1A-LP-SSM	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
SSM Totals	78.36	0.03	156.43	0.06	2.54	10.47	332.21	0.11	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0
Totals	227.73	21.78	454.39	42.49	229.06	80.76	943.01	88.38	0.81	0.21	0.1	0.08	11.34	5.81	0.0	0.0

¹Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.

Comments (2000 character maximum)

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Table 2-F: Startup, Shutdown, and Routine Maintenance (SSM) Emissions

This table is intentionally left blank as all SSM emissions at this facility do not require an increase in Requested Allowables greater than those listed in Table 2-E.

All applications for facilities that have emissions during routine our predictable startup, shutdown or scheduled maintenance (SSM)², including NOI applications, must include in this table the Maximum Emissions during routine or predictable startup, shutdown and scheduled maintenance (20.2.7 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.D.2 NMAC). Provide emissions calculations for all SSM emissions reported in this table. Refer to the guidance "Startup, Shutdown, Maintenance Emissions in Permits" (www.env.nm.gov/air-quality/permitting-section-procedures-and-guidance/) for more detailed instructions. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41).

Unit No.	NOx		co		V	OC	SC	Ox	PM10 ¹		PM2.5 ¹		H ₂ S		Lead	
Unit No.	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
FUG-1																
HR-1																
HT-1																
HT-2																
HT-3																
OLOAD-1																
OT-1																
OT-2																
OT-3																
PWLOAD-1																
PWT-1																
PWT-2																
PWT-3																
SSM-1	_	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-
FL-1A-HP																
FL-1A-LP																
FL-1A-LP-SSM	78.36	0.03	156.43	0.06	2.54	0.47	332.21	0.11	-	-	-	-	3.60	0.001	-	-
Totals	78.36	0.03	156.43	0.06	2.54	10.47	332.21	0.11	0.0	0.0	0.0	0.0	3.6	0.001	0.0	0.0

¹ Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source.

 Comments (2000 character maximum)	

²For instance, if the short term steady-state Table 2-E emissions are 5 lb/hr and the SSM rate is 12 lb/hr, enter 7 lb/hr in the table below. If the annual steady-state Table 2-E emissions are 21.9 TPY, and the number of scheduled SSM events result in annual emissions of 31.9 TPY, enter 10.0 TPY in the table below.

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Table 2-H: Stack Exit Conditions

Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.

Please enter the stack information for the original source, not the control or reduction equipment.

For equipment that doesn't have an actual stack or fugitive stack please just list it as having a default fugitive stack with a height of 10 ft. This field is required by our database.

Stack	Unit number	Orientation (H=Horizontal	Rain Caps	Height Above	Temp.	Flow	Rate	Moisture by	Velocity	Inside Diameter
Description	Cint number	V=Vertical)	(Yes or No)	Ground (ft)	(F)	(acfs)	(dscfs)	Volume (%)	(ft/sec)	(ft)
FUG-1	FUG-1	Fugitive	No	10						
HR-1	HR-1	Fugitive	No	10						
HT-1	HT-1	Vertical	No	30	300	5.66			16.04	0.67
HT-2	HT-2	Vertical	No	30	300	5.66			16.04	0.67
HT-3	HT-3	Vertical	No	30	300	5.66			16.04	0.67
OLOAD-1	OLOAD-1	Fugitive	No	10						
OT-1	OT-1	Fugitive	No	10						
OT-2	OT-2	Fugitive	No	10						
OT-3	OT-3	Fugitive	No	10						
PWLOAD-1	PWLOAD-1	Fugitive	No	10						
PWT-1	PWT-1	Fugitive	No	10						
PWT-2	PWT-2	Fugitive	No	10						
PWT-3	PWT-3	Fugitive	No	10						
SSM-1	SSM-1	Fugitive	No	10						
FL-1A-HP	FL-1A-HP	Vertical	No	45	1100	108.1			399	0.33
FL-1A-LP	FL-1A-LP	Vertical	No	45	1100	108.1			399	0.33
FL-1A-LP-SSM	FL-1A-LP-SSM	Vertical	No	45	1100	108.1			399	0.33

Comments (2000 character maximum)

Wexler Tank Battery

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Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs

By marking this table as intentionally left blank, you certify that the Total and individual HAPs for this facility are less than 1 ton per year.

Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.

GCPs: Report the potential emission rate for each HAP from each HAP emitting emission unit listed in Table 2A. For each emission unit, HAPs shall be expressed to at least 2 decimal points (e.g. 0.41 or 1.41). Emissions less than 0.0001 lb/hr or 0.0001 tpy and emission units that do not emit HAPs shall be omitted from the table. Each facility-wide Individual HAP total and the facility-wide Total HAPs is the sum of all HAP sources entered in the Table. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAA. Include tank-flashing emission estimates of HAP in this table.

NOIs: Report the individual and/or Total HAPs for each piece of equipment in Table 2A, only if the facility total for that pollutant is greater than or equal to 1 tpy.

Unit No.	Total	HAPs		zene AP		oenzene AP		xane AP	(Mo ben	uene; ethyl zene) AP	(to (X)	enes tal); ylol) AP														
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
FUG-1	0.26	1.13	0.03	0.14																						
HT-1				.0002				.0001		.0001																
HT-2				.0002				.0001		.0001																
HT-3				.0002				.0001		.0001																
OLOAD-1	0.9	0.03	0.39	0.01	0.04	0.001	0.32	0.01	0.13	0.004	0.02	.0004														
OT-1		0.02	0.002	0.007	.0002	.0007	0.001	0.006	.0005	0.002	.0001	.0003														
OT-2		0.02	0.002	0.007	.0002	.0007	0.001	0.006	.0005	0.002	.0001	.0003														
OT-3		0.02	0.002	0.007	.0002	.0007	0.001	0.006	.0005	0.002	.0001	.0003														
PWLOAD-1	.0064	.0011	.0028	.0005	.0003	.0001	.0023	.0004	.0009	.0002	.0001															
PWT-1	.0003	0.001	.0001	.0006		.0001	.0001	.0005		.0002																
PWT-2	.0003	0.001	.0001	.0006		.0001	.0001	.0005		.0002																
PWT-3	.0003	0.001	.0001	.0006		.0001	.0001	.0005		.0002																
SSM-1		0.27		0.12		0.01		0.1		0.04		0.005														
FL-1A-HP	5.096	1.498	2.194	0.645	0.233	0.069	1.841	0.541	0.744	0.219	0.084	0.025														
FL-1A-LP	0.063	0.103	0.027	0.045	0.003	0.005	0.023	0.037	0.009	0.015	0.001	0.002														
FL-1A-LP-SSM	0.006	0.002	0.002	0.001	.0002	.0001	0.002	.0009	0.001	.0003	.0001															
Totals	6.33	3.1	2.65	0.98	0.28	0.09	2.19	0.71	0.89	0.29	0.11	0.03														

NMED AQB ePermitting Portal - Fuel Usage

Steward Energy II LLC

Wexler Tank Battery

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Table 2-J: Fuel Usage

☐ This Table was intentionally left blank.

Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here.

Specify fuel characteristics and usage. This information should be for fuel used to operate the equipment (e.g. the pilot) not the amount of gas or fuel processed.

		Specify Units											
Unit No.	Fuel Type (No. 2 Diesel, Natural Gas, Coal,)	Lower Heating Value	Annual Usage (maximum)	% Sulfur	% Ash								
HT-1	Natural Gas	1318 BTU/SCF		3.32 MM SCF/y									
HT-2	Natural Gas	1318 BTU/SCF		3.32 MM SCF/y									
HT-3	Natural Gas	1318 BTU/SCF		3.32 MM SCF/y									
FL-1A-HP	Natural Gas	1318 BTU/SCF		0.71 MM SCF/y									

Comments (2000 character maximum)	
	_//

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Table 2-L: Tank Data

Data may not be provided for subject items (SIs) that are not complete. Please edit the SI in Table 2-A before providing information here. Include appropriate tank-flashing modeling input data. Note: 1.00 bbl = 10.159 M3 = 42.0 gal

Unit No.	Date	Materials Stored	Seal Type (refer to Table 2-	Roof Type	Capacity		Diameter Space	Vapor Space			Paint Condition	I I nrongabili i	Turn- overs
	Installed		LR)	(refer to Table 2-LR)	(bbl)	(M^3)	(M)	(M)		Shell	(from Table VI-C)	rom lable (gol/ym)	(per year)
OT-1		Crude Oil		Vertical - Fixed Roof	500.00 bbl		4.76					2422140	115.34
OT-2		Crude Oil		Vertical - Fixed Roof	500.00 bbl		4.76					2422140	115.34
OT-3		Crude Oil		Vertical - Fixed Roof	500.00 bbl		4.76					2422140	115.34
PWT-1		Produced Water		Vertical - Fixed Roof	500.00 bbl		4.76					21436450	1020.78
PWT-2		Produced Water		Vertical - Fixed Roof	500.00 bbl		4.76					21436450	1020.78
PWT-3		Produced Water		Vertical - Fixed Roof	500.00 bbl		4.76					21436450	1020.78

Comments (2000 character maximum)					
	П				

Section 3Registration Summary

Hardcopy and Portal Submittals - complete this section

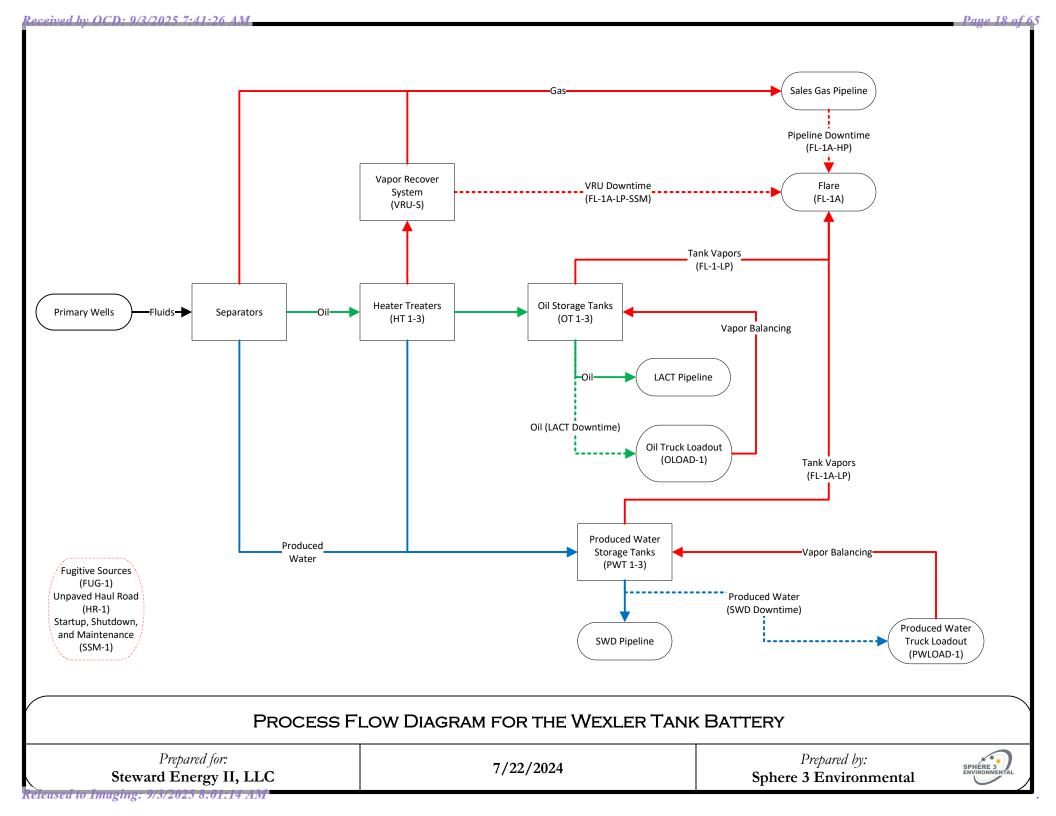
<u>Registration Summary:</u> This registration is being submitted to update the Wexler Tank Battery with revised production rates, new analyses, and additional equipment – a vapor recovery unit (VRU).

Written description of the routine operations of the facility: Full production well streams enter the Wexler Tank Battery and pass through inlet separation where liquids and gas are separated by mechanical processes. Natural gas from the separators is sent to a sales pipeline. During periods of pipeline downtime, sales gas is routed to the flare (FL-1-HP) for destruction. Oil from the separators is sent to the heater treaters (HT 1-5) for additional emulsion separation. Vapors from the heater treaters are collected by a vapor recovery unit (VRU-1) and sent to the sales gas pipeline. When the VRU is down, these vapors are routed to the flare (FL-1-LP-SSM). After the heater treaters, oil is sent to storage tanks (OT 1-3). Produced water from the separators and heater treaters is sent to storage tanks (PWT 1-3). Oil and produced water are primarily removed by a LACT unit and a saltwater disposal line, respectively. During pipeline downtime (each stream represented as 10% annually), liquids are hauled off site via truck (OLOAD-1; PWLOAD-1; HR-1). Working, breathing, and flash emissions from the oil and produced water tanks and truck loading vapors are routed to the flare (FL-1-LP) for destruction. GCP allowable default SSM emissions (SSM-1) and site fugitives (FUG-1) are also included in this authorization.

Ro	utine or predic	table emissions during	Startup, Shutdown and Maintenance (SSM):
	No SSM emissi	ons are expected from	routine operations.
\boxtimes	Applicant requ	ests up to 10 tpy of VO	C SSM emissions.
	☐ No oth	ner activities (e.g. VRU o	downtime, stranded gas etc.) are considered SSM activities.
	Applicant requ	ests site specific VOC S	SM and those emission calculations are included in Section 5 and entered in Table 2F
	Provide a	n overview:	
×	Applicant requ Table 2F.	ests site specific combu	ustion SSM and those emission calculations are included in Section 5 and entered in
du		<u>n overview</u> : During peri A-LP-SSM) for control c	ods of VRU system downtime, gas will be routed to the low-pressure side of the of emissions.
Ma	alfunction Emis	sions (M):	
×	No Malfunction	n emissions are request	ed for this permit.
<u>All</u>	owable Operat	ions: Check the approp	priate box below:
\boxtimes	Facility operate	s continuously (8760 h	ours per year)
un	its are subject t	egulated equipment wil o Condition A108.C of t ent Operating Less Tha	
	Table is blank b	ecause I completed th	is information in the ePermitting Portal for each piece of equipment.
	Unit #	Requested Annual	

N/A

N/A



Verification of Compliance with Stack Parameter Requirements:

www.env.nm.gov/air-quality/air-quality-oil-and-gas-gcp-application-forms/

Portal Submittals: Applications submitted via the ePermitting Portal are required to use the Oil and Gas Stack
Calculator.
<u>Hardcopy submittals</u> may voluntarily use the stack calculator.
Click "Print" in the stack calculator and attach the generated PDF results. If the stack calculator was completed and results attached, complete the information in this box and then go to Section 4. You may delete the items below this box until Section 4.
Check the box for each type of equipment at this facility & represented in the attached stack calculator results:
☐ Engine(s)
☐ Turbine(s)
☑ Flares(s)
☐ Enclosed Combustion Device (s)
☐ Reboiler(s)
☑ I attached the results from the current version of the Oil and Gas Stack Calculator from the AQB web page and the results indicate compliance with the stack parameters for all of my engines, turbines, flares, enclosed combustion devices, heaters or reboilers.
1. Does the flare gas contain 6% H ₂ S or less by volume (pre-combustion)?
☐ Yes (done with section 3)
 □ No. 2. Explain in detail how assist gas will be added to reduce the gas composition to 6%H₂S or less by volume:

GCP Oil & Gas Stack Calculator Program version: April 6, 2023

NOX Total emission rate

Group 2 NOX emission rate

0.189

Equivalent (for facility)

1103.78

Equivalent Diameter (for facility NOX)

SO2 total emission rate

Set Flare and TO NOX emission rate to 0. Only enter SO2 emission rate for Flares, ECDs, VCUs, and TOs.

Equipment Name	Equipment Type NOX Rate SO2 Rate (lb/hr) (lb/hr)	Height Dia (ft)	iameter Velocity (ft) (ft/s)	Temperature (deg. F)	Group Comments
FL-1a Flare (Combined)	Flare 0 1103.78 Actual		0 0 0	0	1
HT-1 Heater Treater 1	Heater 0.063 0 Actual		0.67 18 0 0	300	3 Small heater, no minimum stack parameters.
HT-2 Heater Treater 2	Heater 0.063 0 Actual		0.67 18 0 0	300	3 Small heater, no minimum stack parameters.
HT-3 Heater Treater 3	Heater 0.063 0 Actual		0.67 18 0 0	300	3 Small heater, no minimum stack parameters.

Section 5

Emissions Calculation Forms

<u>Hardcopy and Portal Submittals – complete this section</u>

The Department has developed the Air Emissions Calculation Tool (AECT), which is required to be used in the GCP-Oil and Gas Registration. If the AECT, for a piece of equipment is under development, provide alternate calculations. The AECT must be submitted as a "live" interactive PDF. **Do not include alternative calculations unless there is an issue being resolved with the AECT. This will delay review of the application.** The AECT and this Registration Form may be updated as needed.

<u>Tank Emissions Calculations</u>: Provide the method used to estimate tank-flashing emissions, the input and output summary from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis. If Pro-Max or Hysis is used, all relevant input parameters shall be reported, including separator pressure, gas throughput, and all other relevant parameters necessary for flashing calculation. The inputs must match the gas analyses information submitted. Inputs that don't match may be grounds for denial of the application submittal.

<u>SSM Calculations</u>: In this Section, provide emissions calculations for Startup, Shutdown, and Routine Maintenance (SSM) emissions listed in the Table 2, and the rational for why the others are reported as zero (or left blank).

<u>Control Devices:</u> Report all control devices and list each pollutant controlled by the control device. Indicate in this section if you chose to not take credit for the reduction in emission rates. Only uncontrolled emission rates can be considered to determine applicability unless the state or federal acts require the control. This information is necessary to determine if federally enforceable conditions are necessary for the control device, and if the control device produces its own regulated pollutants or increases emission rates of other pollutants.

<u>Calculation Details:</u> The AECT is required for all emission calculations. If the AECT is not functioning, alternative calculations may be submitted only for the portions of the AECT with issues being resolved. Utilize this section to explain in detail, on an equipment-by-equipment basis, why alternative calculations are necessary.

Explain here: A supplemental HAPs calculator is included to calculate HAP emissions not found in the AECT and populate Table 2I.

Equipment Forms Submitted in this Section (add additional rows as necessary):

Equipment Type	Quantity	Check Box to Indicate Units that	Enter Control Device Type and Pollutant Controlled
		are Controlled	
Engine			
Turbine			
Tanks	6	×	Flare (FL-1A-LP); VOC, H2S
Generator			
VRU	1	⊠	Flare (FL-1A-LP-SSM); VOC, H2S
VRT			
ULPS			
Glycol Dehydrator			
Flare	1		VRU-S Downtime (HT 1-3), Oil and Produced Water Tanks, Pipeline Downtime; VOC & H2S
Amine Unit			

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Cryogenic Unit			
Fugitive Emissions	1		
Heater	3	⊠	VRU-S, FL-1A-LP-SSM; VOC, H2S
Truck Loading	2	⊠	Vapor Balancing, FL-1A-LP; VOC & H2S
Enclosed Combustion	1		
Device (ECD)	<u> </u>		
Thermal Oxidizer (TO)			
Other	<u> </u>		
Other	L		
			nissions unit, control device, or gas combustion scenario. Please nit number(s) if the scenarios vary.
Vapor Recovery Tower, Ulti	ra Low-Pressu	re Separator, o	or Flash Tower Located Upstream of Storage Vessels: If the facility
	_	d upstream of	the storage vessels and is used to flash and capture flashing
emissions, check the approp	riate box.		
Unit number:	LVDUG		
☐ Vapor Recovery Tower a	-	ressor	
☐ ULPS and VRU Compress☐ Flash Tower and VRU Co			
i riasii Towei aliu vko co	ilipressor		
Vanor Recovery Unit (VRII)	located unstr	eam of Storage	e Vessels: Check the box below if the facility is using a VRU to
of NSPS OOOO, NSPS OOOO application. Unit number: VRU-S VRU capturing emission Vapor Recovery Unit (VRU) vessel emissions to limit the Unit number: VRU-S VRU controlling Storage 60.5411	a, or OOOOb. s prior to any attached to S PTE to below Vessel emissi	A process vs c storage vessel torage Vessels NSPS OOOO, f ons and the fac	and routing directly to the sales pipeline Check the box below if this facility is using a VRU to reduce storage NSPS OOOOa, or OOOOb applicability thresholds: Cility is subject to the requirements under NSPS OOOOa, 40 CFR
60.5411a			
□ VRU controlling Storage 60.5411b – <i>not contro</i>			cility is subject to the requirements under NSPS OOOOb, 40 CRR chresholds.
scenarios. Flares shall assur	ne a destruction	on efficiency o	below and check the boxes next to any appropriate facility operating f 95%, unless the facility is subject to requirements for flares under 40 is supported by a manufacturer specification sheet (MSS) for that unit.
A flare, vapor combustion u Unit number: FL-1A-LP-SSN		losed combust	ion device (ECD), thermal oxidizer (TO):
☐ Controls storage vessels☐ Provides a federally enformable CFR 60, Subpart OOOC	in accordance orceable contr), 0000a, or (rol for the stor	O, Subpart OOOO, OOOOa, or OOOOb. age vessels to limit the PTE to below applicability thresholds of 40
Controls the glycol dehyc	Irator		
☐ Controls the amine unit			
Controls truck loading			
			RU downtime, check one below:
☐ The emissions	during VRII do	wntime are re	presented as uncontrolled VOC emissions from the compressor

P	age	23	of	6

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device
☐ Controls the facility during plant turnaround
A flare, vapor combustion unit (VCU), enclosed combustion device (ECD), thermal oxidizer (TO): Unit number: FL-1A-LP Controls storage vessels in accordance with 40 CFR 60, Subpart OOOO, OOOOa, or OOOOb. Provides a federally enforceable control for the storage vessels to limit the PTE to below applicability thresholds of 40 CFR 60, Subpart OOOO, OOOOa, OOOOb. Controls the glycol dehydrator Controls the amine unit Controls truck loading Operates only during maintenance events, such as VRU downtime, check one below: The emissions during VRU downtime are represented as uncontrolled VOC emissions from the compressor The combustion emissions during VRU downtime are represented as controlled emissions from the combustion device
☐ Controls the facility during plant turnaround
Amine Unit: Provide the following information for each amine unit. Design Capacity in MMscf/day Rich Amine Flowrate in gal/min Lean Amine Flowrate in gal/min Mole Loading H ₂ S Sour Gas Input in MMscf/day Glycol Dehydration Unit(s): Provide the following information for each glycol dehydration unit:
Please include an extended gas analysis in Section 6 of this application.
Unit # Glycol Pump Circulation Rate
Unit # Glycol Pump Circulation Rate
Unit # Glycol Pump Circulation Rate Voluntary Monitoring in Accordance with §40 CFR 60.5416(a): Check the box(s) to implement a program that meets the requirements of 40 CFR 60.5416(a). This monitoring program will be conducted in lieu of the monitoring requirements established in the GCP-Oil and Gas for individual equipment. Ceasing to implement this alternative monitoring must be reported in an updated Registration Form to the Department. □ Condition A205.B Control Device Options, Requirements, and Inspections for Tanks □ Condition A206.B Truck Loading Control Device Inspection □ Condition A206.C Vapor Balancing During Truck Loading □ Condition A209.A Vapor Recovery Unit or Department-approved Equivalent
Unit # Glycol Pump Circulation Rate Voluntary Monitoring in Accordance with §40 CFR 60.5416(a): Check the box(s) to implement a program that meets the requirements of 40 CFR 60.5416(a). This monitoring program will be conducted in lieu of the monitoring requirements established in the GCP-Oil and Gas for individual equipment. Ceasing to implement this alternative monitoring must be reported in an updated Registration Form to the Department. Condition A205.B Control Device Options, Requirements, and Inspections for Tanks Condition A206.B Truck Loading Control Device Inspection Condition A206.C Vapor Balancing During Truck Loading Condition A209.A Vapor Recovery Unit or Department-approved Equivalent Condition A210.B Amine Unit Control Device Inspection



AIR EMISSIONS CALCULATION TOOL

Instructions for Completing the Equipment Calculation Forms

- 1. Click the **Start Button** below to reset the form to begin data entry.
- 2. The *Air Emissions Calculation Tool* initially loads with the **Core Data Information Form.** Once all information is entered on this form, the necessary equipment calculation pages will be created based on the information entered on the Core Data Information Form. The customized *Air Emissions Calculation Tool* should now be saved to your computer before entering any other information on the equipment calculation pages. **Warning**, every time you click on the **Start Button b**elow, the *Air Emissions Calculation Tool* will reset and all data entered will be lost.
- Green/Blue colored information boxes require users to enter the required information for the subject facility. Default values may be changed if not appropriate for the facility.
- 4. Yellow colored boxes represent calculated values based on user information entered and may not be changed.
- Yellow boxes with green/blue cross-hatching represent calculated values based on user information entered, however users may input data in these boxes, if necessary.





Core Data Information

Mandatory - All appropriate Data Must Be Entered For All Boxes Below. This Data Will Automatically Create All Required Equipment Forms And Populate This Data In All Emissions Calculation Forms.

Date Field	Permit/NOI/NPR Number 9888
Company Name: Steward Energy II, LLC	Select Application Type GCP-O&G
Facility Name: Wexler Tank Battery	Al# if Known 40920
Max. Facility Gas Production 486 (Mscf/d) 20.25 (Mscf/h)	Elevation (ft.) 3,806
Max. Facility Oil Production 474 (BOPD) 19.75 (BOPH)	Sour Gas Streams at This Site? YES
Max. Facility Produced Water 4,195 (BWPD) 174.8 (BWPH)	Jour Gas Streams at This Site: ILS

Enter The Quantity Of All Air Emissions Sources Located At The Facility (Leave Blank For Each Equipment Type That Is Not Present)

Equipment	Quantity	Equipment	Quantity
Amine Unit(s)		Compressor Engine (s)	
Dehydrator(s)		Enclosed Combustion Device(s) (ECD)	
Equipment Fugitives	✓	Flare(s)	1
Flash Tower/Ultra-Low Pressure Separator(s)^		Generator Engine (s)	
Gunbarrel Separator(s)/Tank(s)		Heater(s), Heater Treaters	3
Number of Paved Haul Roads Segments		Number of Unpaved Haul Road Segments	1
Low Pressure Compressor(s)* & Compressor(s)*		Oil/Condensate Storage Tank(s)	3
Oil/Condensate Truck Loading	✓	Produced Water Storage Tank(s)	3
Produced Water Truck Loading	✓	Pumpjack Engine(s)	
Reboilers(s) (Amine Units)		Placeholder for Future Use	
Reboilers(s) (Glycol, others)		Startup, Shutdown & Maintenance and Malfunction	✓
Skim Oil or Slop Oil Tank(s)		Thermal Oxidizer(s) (TO)	
Vapor Combustion Device(s) (VCU)		Vapor Recovery Unit(s) (VRU)^	1

Click Here to Generate Required Forms & Save to Your Computer

Complete all required forms that follow, for the equipment at the subject facility, based on the selections made above. Items with an * indicate an air emissions calculation form currently not required at this time and those with ^ indicate forms under construction at this time.

Page 3 of 25

New Mexico Environment Department Air Quality Bureau Emissions Calculation Forms

Steward Energy II, LLC Company Name: Facility Name:

Wexler Tank Battery

40920 Permit Number:9888 AI# if Known:

Elevation (ft.): 3,806

Heaters, Heated Separators & Heater Treaters (Only for units rated <100 MMBTU/Hr)

SO₂ emissions based on AP-42 EF and assumes 100% conversion of fuel grains/1000000 scf. Change default value of 2000 as needed based on sulfur to SO2 and assumes sulfur content in natural gas of 2,000

2,590,493

Enter the Sulfur Content of Gas or use default value (grains/10⁶ scf). gas analysis submitted with application.

Enter appropriate information in green boxes below changing default values as appropriate and adding additional rows for each heater unit.

Enter the Site Fuel Heat Value of Gas or use default value (Btu/scf).

1,318.4

sions rioni An neaters, neater separators & neater meaters	NO _x CO VOC SO ₂ PM/PM ₁₀ /PM _{2.5}	pph tpy pph tpy pph tpy pph tpy pph tpy	0.063 0.276 0.053 0.232 0.003 0.013 0.49 2.15 0.005 0.005
	,oc	tpy	0.013
	>	ydd	0.003
•	0:	tpy	0.232
,	0	ydd	0.053
Emissions From All Hec	0 _x	tpy	0.276
	N	ydd	690.0
	Heat Input	MMBtu/hr	0.5
	Unit ID		HT-1
	Add/Remove Rows		+

0.022

0.005

2.15

0.49

0.013

0.003

0.232

0.053

0.276

0.063

0.5

HT-2

0.022

0.005

0.49

0.013

0.003

0.232

0.053

0.276

0.063

0.5

HT-3

0.066

0.015

6.45

1.47

0.039

0.009

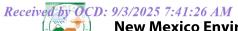
969.0

0.159

0.828

0.189

Totals



New Mexico Environment Department Air Quality Bureau Emissions Calculation Forms

Calculation Tool for Heaters, Heated Separators & Heater Treater Emissions (Uncontrolled) for Oil & Gas Production Sites (Only for units rated <100 MMBTU/Hr)

All emission factors based on AP-42, Table 1.4-1, Table 1.4-2 and Table 1.4-3 (July 1998) https://www3.epa.gov/ttn/chief/ap42/ch01/final/c01s04.pdf

Emission factors for natural gas combustion in boilers and furnaces are presented in AP42, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4. The Tables present emission factors on a volume basis (lb/10⁶ scf). To convert to an energy basis (lb/MMBtu), divide by a heating value of 1,020 MMBtu/10⁶ scf. The emission factors may be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this average heating value.

NOx Sample Calculation

pph = AP 42 NOx Emission Factor (EF) * site fuel heat value Btu/scf/1020 Btu/scf * Maximum Heat Input (MMBtu/hr) * 1/site fuel heat Value Btu/scf * 1000000/1Btu/MMBtu

= 100 lb/1000000 scf * 2000 Btu/scf/1020 Btu/scf * 0.5 MMBtu/hr * 1/2000 Btu/scf * 1000000/1Btu/MMBtu

=0.096 lb/hr

tpy = AP 42 NOx Emission Factor (EF) * site fuel heat value Btu/scf/1020 Btu/scf * Maximum Heat Input (MMBtu/hr) * 1/site fuel heat value Btu/scf * 1000000/1 Btu/MMBtu * 8760 hrs/yr * 1ton/2000 lbs

= 100 lb/1000000 scf * 2000 Btu/scf/1020 Btu/scf * 0.5 MMBtu/hr * 1/2000 Btu/scf * 1000000/1 Btu/MMBtu * 8760 hrs/yr * 1ton/2000lbs

= 0.42 tpy

 SO_2 emissions based on 100% conversion of fuel sulfur to SO_2 and assumes sulfur content in natural gas of 2,000 grains/ 10^6 scf. The SO_2 emission factor is converted to other natural gas sulfur contents by multiplying the SO_2 emission factor by the ratio of the site-specific sulfur content (grains/ 10^6 scf) to 2,000 grains/ 10^6 scf.

Technical Disclaimer

This document is intended to help you accurately determine heaters, heated separators & heater treaters emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how these combustion units work and how they generate emissions, how they are monitored or tested, and what data are available for emissions determination, may change over time as the AQB continue scientific studies and as new information becomes available. The AQB welcome any data, information, or feedback that may improve our understanding of heaters, heated separators & heater treaters emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

Company Name: Steward Energy II, LLC **Facility Name:** Wexler Tank Battery

AI# if Known:

Permit Number: GCP-O&G-9888

40920 Elevation (ft.): 3,806

Vapor Recovery Unit Air Emissions Calculations Form Under Development

Please submit all required calculations and supporting documentation for all vapor recovery unit emissions.

Company Name: Steward Energy II, LLC
Facility Name: Wexler Tank Battery

Steward Energy II, LLCAl# if Known:40920Wexler Tank BatteryElevation (ft.):3,806

Permit Number: GCP-O&G-9888

Vapor Recovery Unit (VRU) Process vs Control Determination

Please complete the Process vs. Control determination below for the VRT/ULPS, which addresses the three criteria referenced in the EPA Nov. 27, 1995 Process Guidance memo and enter appropriate Information in all green boxes.

1. <i>Is</i>	the primary purpose of the equipmen	t to control ai	r pollution? (Check appropriate box)					
	No, the primary purpose of the VRU equipment is to recover flash gas vapors and route them into an available gas sales line.							
	Yes, the primary purpose of the VRULPS equipment is to control air pollution.							
	Where the equipment is recovering process of the equipment? (Check approp		he cost savings from the product recovery	compare to				
	Yes, the benefit-cost analysis below demonstrates a positive return on investment. The benefit-cost analysis of the VRU equipment compared to the product recovered is shown below:							
	No, the benefit- cost analysis below de	monstrates a r	negative return on investment.					
٧	VRU-1 Benefit-Cost Analysis*							
Ca	apital Cost of VRT/ULPS (\$)		Oil Production (BOPD)	474				
VI	RT/ULPS/LPC/VRU Rental Costs (\$/mo)	\$0.00	VRT/ULPS Vapor Production (Mcf/d)					
Ca	apital Cost of LPC/VRU (\$)	NA	Heating Value of Vapors (Btu/scf)					
Aı	nnual Maintenance & Service Costs (\$/yr)		Natural Gas Price (\$/MMBtu)					
Aı	nnual Electricity or Fuel Costs (\$/yr)		VRT/ULPS/LPC/VRU Life Expectancy (Yrs)	5				
VI	RT/ULPS/LPC/VRU Lifetime Costs (\$)	\$0.00	Lifetime VRT/ULPS/LPC/VRU Profit (Revenues-Costs) (\$/yr)	\$0.00				
Aı	nnual VRT/ULPS/LPC/VRU Revenue (\$/yr)	\$0.00	Payback Period (Yrs)					
VI	RT/ULPS/LPC/VRU Lifetime Revenue (\$)	\$0.00	Lifetime Benefit-Cost Ratio					
3. V			ulations are in place? (Check appropriate					
	Yes, the VRU equipment would still be benefits of product recovery.	installed rega	rdless of air quality regulations, due to the	significant cost				
	No, the VRU equipment would not be i	nstalled if ther	e were no air quality regulations in place.					
Vote	s:							

Footnote: All estimates based on current dollars unless specified otherwise; Tank vapor estimates based on flash calculation method noted in Tanks form based on oil throughput noted in p2 of AECT (this can be changed by user); Gas price based on EIA Natural Gas Weekly Update. * The time value of money is not taken into account.

Date:

Facility Name:

Company Name: Steward Energy II, LLC Wexler Tank Battery

Permit Number: GCP-O&G-9888

Al# if Known: 40920 Elevation (ft.): 3,806

Vertical Fixed Roof (VFR) Oil/Condensate VOC Flash Emissions Calculations Form **Select Tanks Flash Emission Calculation Method**

GOR	E & P Tanks	ProMax
Vasquez-Beggs	HYSYS	VMGSim

ProMax Oil Tanks Emission Calculations

Please attach the ProMAX printout with all input data provided along with the calculated emissions. Enter the uncontrolled VOC emissions below. If the tank vapors are routed to a flare, enclosed combustion device, vapor combustion unit, vapor recovery unit or thermal oxidizer select the appropriate VOC destruction method below along with selected VOC destruction efficiency supported by manufacturer specifications submitted with the application.

Tanks VOC Control Method							
Capture Efficiency	99 Represent Uncaptured/Uncollected VOC's at		YES				
VOC Control Method ¹	Flare (FL)	Flare (FL) Represent VRU/ULPC Downtime Emissions at Tan					
VOC Destruction Efficiency ²	98 Represent VOC Controlled Emissions at Tanks*		NO				
Notes							

Total VOC Flash Emissions From Oil/Condensate Storage Tanks Calculated with ProMax									
Add/Remove Rows	Tank ID	VOC Uncontrolled Emissions		VOC Emissions after Control		VOC Emissions at the Tanks			
Up To 10 Units		pph	tpy	pph*	tpy*	pph	tpy		
+	OT-1	10.79	47.27	0.22	0.95	0.11	0.47		
+	OT-2	10.79	47.27	0.22	0.95	0.11	0.47		
+	OT-3	10.79	47.27	0.22	0.95	0.11	0.47		
	Totals	32.37	141.81	0.66	2.85	0.33	1.41		

New Mexico Environment Department Air Quality Bureau Emissions Calculation Forms

Calculation Tool for Tanks Flashing & Working & Standing Emissions for Oil & Gas Production Sites

All flash emissions based on flash calculation methodology selected;

- 1) The appropriate ECD, flare, TO, VCU or VRU form must also be completed.
- 2) Manufacturer documentation required to support % control selected. If using a VRU/LPC, calculations assume VRU/ULPC with a 100% control efficiency, but with 5% downtime;
- 3) Information included in calculation tool must be based on representative oil and gas analysis which must be submitted with application;
- 4) GOR and Vasquez-Beggs sample calculations outlined below; E & P Tanks, ProMax, HYSYS & VMG Sim flash emissions require submittal of computer simulation model emissions calculations print-outs;
- 5) Working & Standing emissions based on AP-42 Chpt. 7, tanks 4.09d computer simulation or ProMax, or VMG computer simulation models.

Sample Calculations

GOR Methodology

VOC pph = GOR (scf/bbl) * Facility Oil Throughput (BOPD) * 1/24 (Hours/Day * 1/Universal Gas Constant 385 scf/lb-

mole @ 70^OF, 1 atm) * Molecular Weight of Tank Vapors (lb/lb-mol)

= 40 (scf/bbl) * 1000 (BOPD)*1/24 (hrs/day) *1/385 scf/lb-mol * 50 lb/lb-mol

= 216.45 lbs/hr

VOC tpy = GOR (scf/bbl) * Facility Oil Throughput (BOPD) * 1/24 (Hours/Day * 1/Universal Gas Constant 385 scf/lb-

mole @ 70⁰F, 1 atm) * Molecular Weight of Tank Vapors (lb/lb-mol) * 8760 hr/yr * 1/2000 lbs/ton

= 40 (scf/bbl) * 1000 (BOPD)*1/24 (hrs/day) *1/385 scf/lb-mol * 50 lb/lb-mol * 8760 hr/yr * 1/2000 lbs/ton

= 948.05 tpy

Vasquez-Beggs Methodology

	vasqu	iez-peg	go ivietiit	dology						
INPUTS				Constraints			Constants			
API Gravity		API	16	<api></api>	58	⁰ API			⁰ API Gr	avity
Separator Pressure (psig)		Р	50	<p+patm></p+patm>	5250	psia	⁰ APTI	<30	≥30	Given ⁰ API
Separator Temp. (⁰ F)		Ti	70	<ti></ti>	295	0F	C1	0.0362	0.0178	
Separator Gas Gravity at Initial Condition		SGi	0.56	<sgi></sgi>	1.18	MW/28.97	C2	1.0937	1.187	
Barrels of Oil/Day (BOPD)	158	Q	None	<q></q>	None	BOPD	C3	25.724	23.931	
Tank Gas MW		MW	18	<mw></mw>	125	lb/lb-mole				
VOC Fraction of Tank Gas		VOC	0.5	<voc></voc>	1.00	Fraction				

2070

scf/bbl

SGx = Dissolved gas gravity at Separator pressure = SGi [1.0+0.00005912*API*Ti*Log(Pi/114.7)]

<Rs>

 $Rs = (C1 * SGx * Pi^C2) \exp((C3 * API) / (Ti + 460))$ for P + Patm

Patm

20

THC = Rs * Q * MW * 1/385 scf/lb-mole * 365 D/Yr * 1 ton/2000 lbs

VOC = THC * Frac. of C3+ in the Stock Tank Vapor

Technical Disclaimer

Atmospheric Pressure (psia)

This document is intended to help you accurately determine oil/condensate storage tank flash, working and standing emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how these units work and how they generate emissions, how they are monitored or tested, and what data are available for emissions determination, may change over time as the AQB continue scientific studies and as new information becomes available. The AQB welcome any data, information, or feedback that may improve our understanding of oil/condensate storage tank flash, working and standing emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

Date:

Facility Name:

Company Name: Steward Energy II, LLC Wexler Tank Battery

Permit Number: GCP-O&G-9888

Al# if Known: 40920 Elevation (ft.): 3,806

Vertical Fixed Roof (VFR) Oil/Condensate VOC Working & Standing Emissions Calculations Form

Select Tanks W & S Emission Calculation Method

AP-42 Chpt. 7 EPA Tanks 4.09d **ProMax E & P Tanks**

ProMax Oil Tanks W & S Emission Calculations

Please attach the ProMAX printout with all input data provided along with the calculated emissions. Enter the uncontrolled VOC emissions below. If the tank vapors are routed to a flare, enclosed combustion device, vapor combustion unit, vapor recovery unit or thermal oxidizer select the appropriate VOC destruction method below along with selected VOC destruction efficiency supported by manufacturer specifications submitted with the application.

Capture Efficiency	99	Represent Uncaptured and/or Controlled VOC's at Tanks	YES
VOC Control Method	F l are (FL)	Represent VRU/ULPC Downtime Emissions at Tanks	NA
VOC Destruction Efficiency	98	Represent VOC Controlled Emissions at Tanks*	NO

Total VOC W & S Emissions From Oil/Condensate Storage Tanks Calculated with ProMax								
Add/Remove Rows	Tank ID	VOC Uncontrolled Emissions		VOC Emissions after Control		VOC Emissions at the Tanks		
Up To 10 Units		pph	tpy	pph*	tpy*	pph	tpy	
+	OT-1	2.5	10.94	0.05	0.22	0.03	0.11	
+	OT-2	2.5	10.94	0.05	0.22	0.03	0.11	
+	OT-3	2.5	10.94	0.05	0.22	0.03	0.11	
	Totals	7.5	32.82	0.15	0.66	0.09	0.33	

Company Name: Steward Energy II, LLC **Facility Name:** Wexler Tank Battery

Permit Number: GCP-O&G-9888

AI# if Known: 40920 **Elevation (ft.):** 3,806

Emissions From Loading Petroleum Liquid

Select Appropriate AP-42 Petroleum Liquid Loading Methodology & Enter appropriate information in the green boxes below changing default values as appropriate.

> **Emission Unit ID:** OLOAD-1 Facility Oil Throughput Max. Hourly Loading 8,000 726,642 Rate (gal/hr)

> Select Appropriate AP-42 Petroleum Liquid Loading Methodology Below*

S - Saturation Factor (From AP-42 Table 5.2-1)	1.0	M - Molecular Weight of Vapors (lb/lb-mole)	68

(gal/yr)

AP-42, 5.2-4 Equation 1

Pannual - Avg. Annual Phourly - Max Hourly 5.13 8.83 True Vapor Pressure of True Vapor Pressure of Liquid Loaded (psia) Liquid Loaded (psia)

T_{annual} - Average 70 Annua**l** Temperature ^OF of Bulk Liquid Loaded

T_{hourly} - Maximum 100 Hourly Temperature ^OF of Bulk Liquid Loaded

Select Emission Source - From AP-42 Table 5.2-5 Submerged Loading Dedicated Normal Service Submerged Loading Vapor Balance Service Splash Loading Dedicated Normal Service Splash Loading Vapor Balance Service

AP-42, Table 5.2-5

Truck Loading VOC Control Method						
Capture Efficiency 69 Represent Uncaptured/Uncollected VOC's at Loading Rack		YES				
VOC Control Method ¹ Flare (FL)		Represent VRU/ULPC Downtime Emissions at Loading Rack	NA			
VOC Destruction Efficiency ² 98		Represent VOC Controlled Emissions at Loading Rack	NO			

Notes Oil truck loading occurs 10% of the year. 7,266,420 gal/year * 10% = 726,642 gal/year

Total VOC Emissions From Loading Petroleum Liquids						
Pollutant	VOC Uncontrolled Emissions		VOC Emissions after Control		VOC Emissions at the Loading Rack	
	pph*	tpy*	pph*	tpy*	pph*	tpy*
VOC	106.88	2.98	34.61	0.99	33.13	0.92

Footnote: * All emission factors based on AP-42, 5.2-4 Equation 1 or AP-42 Table 5.2-5 (July 2008); See next page for calculation notes. You may elect to represent the controlled emissions at the loading rack or at the control device or tanks by selecting the appropriate drop-down options under Truck Loading VOC Control Method.

New Mexico Environment Department Air Quality Bureau Emissions Calculation Forms

Calculation Tool for Emissions From Loading Petroleum Liquid

Emissions based on AP-42, 5.2-4 Equation 1 (July 2008) or AP-42, Table 5.2-5

https://www3.epa.gov/ttn/chief/ap42/ch05/final/c05s02.pdf

AP-42 5.2-4 Equation 1

Emissions from loading petroleum liquid can be estimated (with a probable error of ± 30 percent)⁴ using the following expression: Equation 1 $L_1 = 12.46 * SPM/T$

where:

 $L_L = loading loss$, pounds per 1000 gallons (lb/10 3 gal) of liquid loaded;

S = a saturation factor (see Table 5.2-1 reproduced below))

P = true vapor pressure of liquid loaded, pounds per square inch absolute (psia) (see Section 7.1, "Organic Liquid Storage Tanks")

M = molecular weight of vapors, pounds per pound-mole (lb/lb-mole) (see Section 7.1, "Organic Liquid Storage Tanks")

T = temperature of bulk liquid loaded, °R (°F + 460)

VOC pph = (12.46*0.6*7.0 (psia)*50 (lb/lb-mole)/550°R)/1000 (gal) * 8400 (gal/hr)

 $= 39.96 \, lb/hr$

VOC tpy = (12.46*0.6*4.5 (psia)*50 (lb/lb-mole)/525°R)/1000*1533000 (gal/yr)*1/2000 (ton/lbs)

= 2.46 tpy

Cargo Carrier	Mode of Operation	S Factor	
ank trucks and rail tank cars	Submerged loading of a clean cargo tank	0.5	
	Submerged loading: dedicated normal service	0.6	
	Submerged loading: dedicated vapor balance service	1.0	
	Splash loading of a clean cargo tank	1.45	
	Splash loading: dedicated normal service	1.45	
	Splash loading: dedicated vapor balance service	1.0	
Narine vesse l s ^a	Submerged loading: ships	0.2	
	Submerged loading: barges	0.5	

AP-42 Table 5.2-5

VOC pph = (2lb/1000 (gal) * ((100-15)/100) * 8400 (gal/hr) = 16.8 pph

VOC tpy = (2lb/1000 (gal) * ((100-15)/100) * 100 (BOPD) * 42 (gal/bbl) * 365 (days/yr) * 1/2000 (ton/lb) = 1.53 tpy

Table 5.2-5 TOTAL UNCONTROLLED ORGANIC EMISSION FACTORS FOR PETROLEUM LIQUID RAIL TANK CARS AND TANK TRUCKS					
Emission Source Mode of Operation Crude Oil (lb/1000 gal transferred) ^b					
Loading Operations ^c					
	Submerged loading: dedicated normal service	2			
	Submerged loading: dedicated vapor balance service	3			
	Splash loading: dedicated normal service	5			
	Splash loading: dedicated vapor balance service	3			

a Reference 2.VOC factors for crude oil can be assumed to be 15% lower than the total organic factors, to account for the methane and ethane content of crude oil evaporative emissions. All other products should be assumed to have VOC factors equal to total organics; b The example crude oil has an RVP of 34 kPa (5 psia); c Loading emission factors are calculated using Equation 1 for a dispensed product temperature of 16°C (60°F). In the absence of specific inputs for Equations 1, the typical evaporative emission factors presented in Tables 5.2-5 should be used. It should be noted that, although the crude oil used to calculate the emission values presented in this tables has an RVP of 5, the RVP of crude oils can range from less than 1 up to 10. In areas where loading and transportation sources are major factors affecting air quality, it is advisable to obtain the necessary parameters and to calculate emission estimates using Equations 1.

- 1) The appropriate ECD, flare, TO, VCU or VRU form must also be completed.
- 2) Manufacturer documentation required to support % control selected. If using a VRU/LPC, calculations assume VRU/ULPC with a 100% control efficiency, but with 5% downtime;
- 3) Information included in calculation tool must be based on representative oil and gas analysis which must be submitted with application;
- ^) Vapor balancing emissions to tanks must be represented at the tanks;

Technical Disclaimer

This document is intended to help you accurately determine truck loading petroleum emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how truck loading operations work and how it generates emissions, how it is monitored or tested, and what data are available for emissions determination, may change over time as the AQB continue scientific studies and as new information becomes available. The AQB welcome any data, information, or feedback that may improve our understanding of truck loading petroleum emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

Date:
Company Name: Steward Energy II, LLC
Facility Name: Wexler Tank Battery

Permit Number: GCP-O&G-9888
Al# if Known: 40920
Elevation (ft.): 3,806

Startup, Shutdown & Maintenance and Malfunction

No SSM emissions are expected from routine operations.

Request up to 10 tpy of VOC SSM emissions.

- Request site specific VOC & H2S SSM and enter information below.
- Request site specific VOC & H2S SSM plus 10 tpy VOC and enter information below.
- Request site specific combustion SSM and those emissions are included in Section 4 (attach calculations.)
- Request 10 tpy VOC Malfunction emissions for GCP-O&G, GCP-6 or NSR permitting actions only.

	Blowdowns			Engine Startups		
Unit Numbers						
Quantity of Like-kind Blowdown Units or Engines	1					
Total Volume of Each Blowdown or Engine Startup Vent (acf)						
Duration of Event (Minutes)						
Maximum Blowdowns or Startups/hr	1					
Frequency of Blowdowns or Engine Startups (Events/yr)						
Total Actual Volume of Gas Vented (acf/yr)	0	\otimes				
Pressure of Gas Inside Unit Before Venting (psig)						
Final Pressure (psia)	14.7					
Gas Temperature Prior to Venting (°F)						
Vented Gas Molecular Weight (lb/lb-mol						
Vented Gas VOC wt %						
Vented Total HAP wt %						
Vented Gas Benzene wt %						
Vented Gas H ₂ S wt %						

Startup, Shutdown and Maintenance Emissions (SSM) and Malfunction Emissions								
SSM	voc		Total HAP		Benzene		H ₂ S	
	PPH	TPY	PPH	TPY	PPH	TPY	PPH	TPY
SSM Blowdowns								
SSM Startups								
SSM Other (Attach Calculations)								
SSM Totals		10						
Malfunction Total								

Notes			

New Mexico Environment Department Air Quality Bureau Emissions Calculation Forms

Planned SSM Emissions

The venting emissions calculations herein should only be used when only gas (no liquids) is present in the unit. The calculation of the vented gas is based on the volume of the unit and assumes the unit is saturated with vapor at the pressure and temperature of the unit before venting occurs. If liquids are also present in the gas, please enter the calculated amounts in the SSM Other row only and submit separate calculations, since the calculations on this form do not account for the evaporation of liquids that may be present in the unit.

Calculations are based on the Ideal gas law: P(V) = n(R)(T)

VOC result = (((Pressure of Gas Inside the Unit Before Venting) * (Actual Volume of the Vented Unit)) / (Frequency of events) * (Molecular Weight) * VOC wt%)/(Ideal Gas Constant) * (Temperature of Gas Inside the Unit Before Venting)

Where the Ideal Gas Constant = 10.73159 (ft³*psia)/R*lb-mol

For SSM combustion emissions, attach separate calculations.

Date:

Company Name: Steward Energy II, LLC Facility Name: Wexler Tank Battery

Permit Number: GCP-O&G-9888

Al# if Known: 40920 Elevation (ft.): 3,806

Vertical Fixed Roof (VFR) Produced Water VOC Flash Emissions Calculations Form **Select Tanks Flash Emission Calculation Method**

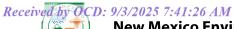
GWR	E & P Tanks	ProMax
Vasquez-Beggs	HYSIS	VMGSim

ProMax Produced Water Tanks Emission Calculations

Please attach the ProMAX printout with all input data provided along with the calculated emissions. Enter the uncontrolled VOC emissions below. If the tank vapors are routed to a flare, enclosed combustion device, vapor combustion unit, vapor recovery unit or thermal oxidizer select the appropriate VOC destruction method below along with selected VOC destruction efficiency supported by manufacturer specifications submitted with the application.

Tanks VOC Control Method							
Select % Oil in Water	1	VOC Uncontrolled emissions entered include percentage.	les this				
Capture Efficiency	99	Represent Uncaptured and/or Controlled VOC's at Tanks	YES				
VOC Control Method	Flare (FL)	Represent VRU/ULPC Downtime Emissions at Tanks	NA				
VOC Destruction Efficiency	98	Represent VOC Controlled Emissions at Tanks*	NO				
Notes							

Total V	Total VOC Emissions From Produced Water Storage Tanks Calculated with ProMax									
Add/Remove Rows	Tank ID	VOC Uncontro	olled Emissions	VOC Emission	s after Control	VOC Emissions at the Tanks				
Up To 10 Units		pph	tpy	pph*	pph* tpy*		tpy			
+	PWT- 1	0.76	3.32	0.02	0.07	0.01	0.03			
+	PWT- 2	0.76	3.32	0.02	0.07	0.01	0.03			
+	PWT- 3	0.76	3.32	0.02	0.07	0.01	0.03			
	Totals	2.28	9.96	0.06	0.21	0.03	0.09			



Calculation Tool for Tanks Flashing & Working & Standing Emissions for Oil & Gas Production Sites All flash emissions based on flash calculation methodology selected;

- 1) The appropriate ECD, flare, TO, VCU or VRU form must also be completed.
- 2) Manufacturer documentation required to support % control selected. Assumes VRU/ULPC with a 100% control efficieny, but with 5% downtime;
- 3) Information included in calculation tool must be based on representative oil and gas analysis which must be submitted with application;
- 4) GOR and Vasquez-Beggs sample calculations outlined below; E & P Tanks, ProMax, HYSYS & VMG Sim flash emissions require submittal of computer simulation model emissions calculations print-outs;
- 5) Working & Standing emissions based on AP-42 Chpt. 7, tanks 4.09d computer simulation or ProMax, or VMG computer simulation models.

Sample Calculations

GWR Methodology

VOC pph

- = GWR (scf/bbl) * Facility Water Throughput (BOPD) * 1/24 (Hours/Day * 1/Universal Gas Constant 385 scf/lb-mole @ 70°F, 1 atm) * Molecular Weight of Tank Vapors (lb/lb-mol) * Percent Oil in Water
- = 40 (scf/bbl) * 1000 (BOPD)*1/24 (hrs/day) *1/385 scf/lb-mol * 50 lb/lb-mol * 1/100
- = 2.16 lbs/hr

VOC tpy

- = GWR (scf/bbl) * Facility Water Throughput (BOPD) * 1/24 (Hours/Day * 1/Universal Gas Constant 385 scf/lbmole @ 70°F, 1 atm) * Molecular Weight of Tank Vapors (lb/lb-mol) * 8760 hr/yr * 1/2000 lbs/ton * Percent Oil in Water
- = 40 (scf/bbl) * 1000 (BOPD)*1/24 (hrs/day) *1/385 scf/lb-mol * 50 lb/lb-mol * 8760 hr/yr * 1/2000 lbs/ton * 1/100 = 9.48 tpy

Vasquez-Beggs Methodology

INPUTS	INPUTS				traints		Constants			
API Gravity		API	16	<api></api>	58	⁰ API			⁰ API Gr	avity
Separator Pressure (psig)		Р	50	<p+patm></p+patm>	5250	psia	⁰ APTI	<30	≥30	Given ⁰ API
Separator Temp. (⁰ F)		Ti	70	<ti></ti>	295	0F	C1	0.0362	0.0178	
Separator Gas Gravity at Initial Condition		SGi	0.56	<sgi></sgi>	1.18	MW/28.97	C2	1.0937	1.187	
Barrels of Water/Day (BOPD)	<mark>1,398.33</mark>	Q	None	<q></q>	None	BOPD	С3	25.724	23.931	
Tank Gas MW		MW	18	<mw></mw>	125	lb/lb-mole				
VOC Fraction of Tank Gas		VOC	0.5	<voc></voc>	1.00	Fraction				

2070

scf/bbl

SGx = Dissolved gas gravity at Separator pressure = SGi [1.0+0.00005912*API*Ti*Log(Pi/114.7)]

<Rs>

 $Rs = (C1 * SGx * Pi^C2) exp ((C3 * API) / (Ti + 460)) for P + Patm$

Patm

20

THC = Rs * Q * MW * 1/385 scf/lb-mole * 365 D/Yr * 1 ton/2000 lbs

VOC = THC * Frac. of C3+ in the Stock Tank Vapor

Technical Disclaimer

Atmospheric Pressure (psia)

This document is intended to help you accurately determine produced water storage tank flash, working and standing emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how these units work and how they generate emissions, how they are monitored or tested, and what data are available for emissions determination, may change over time as the AQB continue scientific studies and as new information becomes available. The AQB welcome any data, information, or feedback that may improve our understanding of produced water storage tank flash, working and standing emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

Date:

Facility Name:

Company Name: Steward Energy II, LLC Wexler Tank Battery

Permit Number: GCP-O&G-9888

Al# if Known: 40920 Elevation (ft.): 3,806

Vertical Fixed Roof (VFR) Water Tanks VOC Working & Standing Emissions Calculations Form

Select Tanks W & S Emission Calculation Method

AP-42 Chpt. 7

EPA Tanks 4.09d

ProMax

E & P Tanks

ProMax Produced Water Tanks W & S Emission Calculations

(Assumes W & S emissions are 1% of the emissions calculated based on oil properties and entered as uncontrolled emissions)

Please attach the ProMAX printout with all input data provided along with the calculated emissions. Enter the uncontrolled VOC emissions below. If the tank vapors are routed to a flare, enclosed combustion device, vapor combustion unit, vapor recovery unit or thermal oxidizer select the appropriate VOC destruction method below along with selected VOC destruction efficiency supported by manufacturer specifications submitted with the application.

Tanks VOC Control Method								
Capture Efficiency	99	Represent Uncaptured and/or Controlled VOC's at Tanks	YES					
VOC Control Method	Flare (FL)	Represent VRU/ULPC Downtime Emissions at Tanks	NA					
VOC Destruction Efficiency	98	Represent VOC Controlled Emissions at Tanks*	NO					
Notes								

Total VOC W & S Emissions From Produced Water Storage Tanks Calculated with ProMax									
Add/Remove Rows	Tank ID	VOC Uncontro	olled Emissions	VOC Emission	s after Control	VOC Emissions at the Tanks			
Up To 10 Units		pph	tpy	pph*	tpy*	pph	tpy		
+	PWTK-1	0.38	1.65	0.01	0.03	0	0.02		
+	PWTK-2	0.38	1.65	0.01	0.03	0	0.02		
+	PWTK-3	0.38	1.65	0.01	0.03	0	0.02		
	Totals	1.14	4.95	0.03	0.09	0	0.06		

Date:

Company Name: Steward Energy II, LLC **Facility Name:**

Wexler Tank Battery

Permit Number: GCP-O&G-9888

AI# if Known: 40920 Elevation (ft.): 3,806

Emissions From Loading Produced Water Liquids

Select Appropriate AP-42 Petroleum Liquid Loading Methodology & Enter appropriate information in the green boxes below changing default values as appropriate.

Emission Unit ID: PWLOAD-1 Facility Produced Water Max. Hourly Loading 6,430,935 12,000 % Oil in Water Throughput (gal/yr) Rate (gal/hr) Select Appropriate AP-42 Petroleum Liquid Loading Methodology Below* AP-42, 5.2-4 Equation 1 AP-42, Table 5.2-5 Select Emission Source - From AP-42 Table 5.2-5 M - Molecular Weight of S - Saturation Factor 1.0 50 Vapors (Ib/Ib-mole) (From AP-42 Table 5.2-1) Submerged Loading Dedicated Normal Service Submerged Loading Vapor Balance Service Pannual - Avg. Annual Phourly - Max Hourly Splash Loading Dedicated Normal Service 3.4 5.7 True Vapor Pressure of True Vapor Pressure of Liquid Loaded (psia) Liquid Loaded (psia) Splash Loading Vapor Balance Service Thourly - Maximum Tannual - Average 70 100 Annual Temperature ^OF Hourly Temperature ^OF of Bulk Liquid Loaded of Bulk Liquid Loaded Notes: Produced water truck loading occurs 10% of the year. 64,309,350 gal/year * 10% = 6,430,935 gal/year

Total VOC Emissions From Loading Produced Water Liquids								
Based On % Oil in Water Selected Above								
Pollutant	Pollutant Uncontrolled Emissions Uncontrolled Emission (pph) (tpy)							
VOC	0.76	0.13						

Calculation Tool for Emissions From Loading Produced Water Liquids

Emissions based on AP-42, 5.2-4 Equation 1 (July 2008) or AP-42, Table 5.2-5

https://www3.epa.gov/ttn/chief/ap42/ch05/final/c05s02.pdf

AP-42 5.2-4 Equation 1

Emissions from loading produced water liquids can be estimated (with a probable error of ± 30 percent)⁴ using the following expression: Equation 1 $L_{\rm L} = 12.46 * {\rm SPM/T}$

where:

 $L_L = loading loss$, pounds per 1000 gallons (lb/ 10^3 gal) of liquid loaded (assumes 1% oil in water)

S = a saturation factor (see Table 5.2-1 reproduced below))

P = true vapor pressure of liquid loaded, pounds per square inch absolute (psia) (see Section 7.1, "Organic Liquid Storage Tanks")

M = molecular weight of vapors, pounds per pound-mole (lb/lb-mole) (see Section 7.1, "Organic Liquid Storage Tanks")

T = temperature of bulk liquid loaded, °R (°F + 460)

VOC pph = $(12.46*0.6*7.0 \text{ (psia)}*50 \text{ (lb/lb-mole)}/550^{\circ}\text{R})/1000 \text{ (gal)}*8400 \text{ (gal/hr)}*0.01 \text{ (1% oil in water)}$

= 39.96 lb/hr

VOC tpy = (12.46*0.6*4.5 (psia)*50 (lb/lb-mole)/525°R)/1000*1533000 (gal/hr)*1/2000 (ton/lbs)*0.01 (1% oil in water)

= 2.46 tpy

Cargo Carrier	Mode of Operation	S Factor
ank trucks and rail tank cars	Submerged loading of a clean cargo tank	0.5
	Submerged loading: dedicated normal service	0.6
	Submerged loading: dedicated vapor balance service	1.0
	Splash loading of a clean cargo tank	1.45
	Splash loading: dedicated normal service	1.45
	Splash loading: dedicated vapor balance service	1.0
Marine vesse l s ^a	Submerged loading: ships	0.2
	Submerged loading: barges	0.5

AP-42 Table 5.2-5 (assumes 1% oil in water)

VOC pph= (2lb/1000 (gal) * ((100-15)/100) * 8400 (gal/hr) * 0.01 (1% oil in water) = 0.168 pph

VOC tpy = (2lb/1000 (gal) * ((100-15)/100) * 100 (BOPD) * 42 (gal/bbl) * 365 (days/yr) * 1/2000 (ton/lb) * 0.01 (1% oil in water) = 0.0153 tpy

Table 5.2-5 TOTAL UNCONTROLLED ORGANIC EMISSION FACTORS FOR PETROLEUM LIQUID RAIL TANK CARS AND TANK TRUCKS								
Emission Source Mode of Operation Crude Oil (lb/1000 gal transferred) ^b								
Loading Operations ^c								
	Submerged loading: dedicated normal service	2						
	Submerged loading: dedicated vapor balance service	3						
	Splash loading: dedicated normal service	5						
	Splash loading: dedicated vapor balance service	3						

a Reference 2.VOC factors for crude oil can be assumed to be 15% lower than the total organic factors, to account for the methane and ethane content of crude oil evaporative emissions. All other products should be assumed to have VOC factors equal to total organics; b The example crude oil has an RVP of 34 kPa (5 psia); c Loading emission factors are calculated using Equation 1 for a dispensed product temperature of 16°C (60°P). In the absence of specific inputs for Equations 1, the typical evaporative emission factors presented in Tables 5.2-5 should be used. It should be noted that, although the crude oil used to calculate the emission values presented in this tables has an RVP of 5, the RVP of crude oils can range from less than 1 up to 10. In areas where loading and transportation sources are major factors affecting air quality, it is advisable to obtain the necessary parameters and to calculate emission estimates using Equations 1.

Technical Disclaime

This document is intended to help you accurately determine truck loading produced water emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how truck loading operations work and how it generates emissions, how it is monitored or tested, and what data are available for emissions determination, may change over time as the AQB continue scientific studies and as new information becomes available. The AQB welcome any data, information, or feedback that may improve our understanding of truck loading produced water emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

Date: Permit Number: GCP-O&G-9888

Company Name:Steward Energy II, LLCAl# if Known:40920Facility Name:Wexler Tank BatteryElevation (ft.):3,806

Flare

	Enter information in green boxes below changing default values as appropriate.								
		Gas Stream	Gas Stream	Gas Stream		Gas Stream	Gas Stream	Gas Stream	
		1	2	3		1	2	3	
Emission U	Jnit I D	FL-1-HP	FL-1-LP-SSA	FL-1-LP	Hourly Gas Routed to Flare (MMBtu/hr)	513.081728	567.79903	725.1875	
Hourly Gas Strea (Mscf/h		389.17	389.17	353.75	Annual Gas Routed to Flare (MMBtu/yr)	301,689.472	379.34	18,224.5	
Annual Gas Stre (MMscf/		228.83	0.26	8.89	Pilot Gas Routed to Flare (MMBtu/hr)	0.10679	0	0	
Max. Heat Value of	f Gas (Btu/scf)	1,318.4	1,459	2,050	Gas MW (lb/lbmol)	27.13	31.09	40.31	
Field Gas Mol Fra H2S/lb-r	•	0.437	0.524	0.858	Gas Pressure (psia)	14.7	14.7	14.7	
Field Gas Sulfu (S grains/1		258.81	310.6	508.19	Gas Temperature (°F)	70	70	70	
Pilot Gas to Flar	e (Mscf/hr)	0.081			Field Gas H2S Wt.% to Flare (%)	0.549	0.575	0.704	
Max. Heat Value P scf)	Pilot Gas (Btu/	1,318.4			Flare Control Efficiency	98	98	98	
Pilot Gas Sulfu (S grains/1		258.81			Total VOC wt.% to Flare (%) ¹	31.99	42.1	67.08	
Source of Flare Em	nission Factors	TCEQ Air or	TCEQ Air or	TCEQ Air or	Safety Factor Applied to Total Emissions (%)				
Use Highest NOx 8	& CO Emission	NO	NO	NO					

	Total Emissions to Flare														
Pollutant		NOx			CO			VOC			SO2			H2S	
Gas Streams to Flare	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Uncontrolled (pph)	0	0	0	0	0	0	9,373.77	126.91	116.59	0	0	0	<mark>149.8176</mark>	179.8164	259.4676
Uncontrolled (tpy)	0	0	0	0	0	0	2,755.89	23.38	189.81	0	0	0	44.046	0.0601	3.2603
Field Gas (pph)	70.8053	78.3563	100.0759	141.354	156.4286	199.7892	187.48	2.54	2.33	277.0551	332.2125	<mark>494.4576</mark>	2.9964	3.5963	5.1894
Field Gas (tpy)	20.8166	0.0262	1.2575	41.5577	0.0523	2.5104	55.12	0.47	3.8	81.4535	0.111	6.213	0.8809	0.0012	0.0652
Pilot Gas (pph)	0.0147			0.0294			0.04	0	0	0.0587	0	0	0.0006	0	0
Pilot Gas (tpy)	0.0645			0.1289			0.01	0	0	0.2571	0	0	0.0026	0	0
Subtotal Flare (pph)	70.82	78.3563	100.0759	141.3834	<mark>156.4286</mark>	199.7892	187.52	2.54	2.33	<mark>277.1138</mark>	332.2125	<mark>494.4576</mark>	2.997	3.5963	5.1894
Subtotal Flare (tpy)	20.8811	0.0262	1.2575	41.6866	0.0523	2.5104	55.13	0.47	3.8	81.7106	0.111	6.213	0.8835	0.0012	0.0652
Total Flare (pph)		249.25			497.6			192.39		1,	,103.783	39		11.7827	
Total Flare (tpy)		22.16			44.25			59.4			88.0346	_		0.9499	

See reverse side for calculation notes.

Factors From AP-42 or TCEQ

NO

NO

NO

¹⁾ Based on representative gas analysis which must be submitted with application; 2) Assumes pilot gas has a negligible amount of VOC & 0.25 grains H2S/100scf; *) Emission factors for NOx, CO & VOC based on AP-42, Table 13.5-1, (Dec. 2015) or TCEQ RG-360A/11 (February 2012); #) Assumes H₂S is converted to SO₂ at selected control efficiency; SO2 emissions based on mass balance;

⁺⁾ Assumes $\mathsf{H}_2\mathsf{S}$ Destruction Efficiency equals flare destruction efficiency;



Calculation Tool for Flare Emissions for Oil & Gas Production Sites

All emission factors based on AP-42, Emission factors for NOx, CO & VOC, Table 13.5-1, (December 2016); https://www3.epa.gov/ttn/chief/ap42/ch13/final/C13S05_12-13-16.pdf or https://www.tceq.texas.gov/assets/public/comm_exec/pubs/rg/rg360/rg36011/rg-360a.pdf

- 1) Information included in calculation tool must be based on representative gas analysis which must be submitted with application;
- 2) Assumes pilot gas used has a negligible amount of VOC's and 0.25 grains H2S/100 scf;
- 3) SO₂ calculations assumes H₂S is converted to SO₂ at selected control efficiency; SO₂ emissions based on mass balance;
- 4) H₂S calculations assume H₂S Destruction Efficiency equals flare destruction efficiency;

Sample Calculations

NOx pph

- = hourly gas routed to flare (MMBtu/hr) * NOx Emission factor (lbs/MMBtu)
- = 1(MMBtu/hr) * 0.068 (lbs/MMBtu)
- = 0.068 lbs/hr

NOx tpy = annual gas routed to flare (MMBtu/yr) * NOx Emission factor (lbs/MMBtu) * 1/lbs/ton)

- = 1000 (MMBtu/yr) * 0.068 (lb/MMBtu) * 1/2000 (lbs/ton)
- = 0.034 tpy

SO₂ pph= Hourly Gas Stream to flare (MMScf/hr) * 1000000/1 (scf/MMScf) * Field Gas mol Fraction of H₂S (mol H₂S/lb

- -mol)/100 * 1/Universal Gas Constant 385 scf/lb-mole @ 60° F, 1 atm * Conversion Rate of H₂S to SO₂ lb-mol SO₂/lb-mol H₂S * Molecular Weight of Sulfur Dioxide (64 lb SO₂/lb-mol SO₂)
- = 1 MMScf/hr * 1000000/1 (Scf/MMScf) * 0.1 mol H₂S* 1/385 scf/lb-mole * 0.95 lb-mol SO₂/lb-mol H₂S * 64 lb/lb-mol

Residual

H₂S pph= Hourly Gas Stream to flare (MMScf/hr) * 1000000/1 (scf/MMScf) * Field Gas mol Fraction of H₂S (mol H₂S/

lb-mol)/100 * 1/Universal Gas Constant 385 scf/lb-mole @ 60^OF, 1 atm * (100-(Flare Control Efficiency))/100) * Molecular Weight of Hydrogen Sulfide (34 lb H₂S/lb-mol H₂S)

= 1 MMScf/hr * 1000000/1 (Scf/MMScf) * 0.1 mol H₂S* 1/385 scf/lb-mole * (100-95%/100) * 34 lb/lb-mol

Flare	Flare, Vapor Combustion Devices & Enclosed Combustion Devices Emission Factors									
Contaminant	Assist Type	Waste Gas Stream Heat Value (Btu/scf)	AP-42 Emission Factor (lb/MMBtu)	TCEQ Emission Factor (lb/MMBtu)						
NOx	Steam	≥1000	0.068	0.0485						
	Steam	<1000	0.068	0.068						
	Air or Unassisted	≥1000	0.068	0.138						
	Air or Unassisted	<1000	0.068	0.0641						
СО	Steam	≥1000	0.31	0.3503						
	Steam	<1000	0.31	0.3465						
	Air or Unassisted	≥1000	0.31	0.2755						
	Air or Unassisted	<1000	0.31	0.5496						
VOC	Air & Steam Assist	≥300	0.66							

Technical Disclaimer

This document is intended to help you accurately determine flares, enclosed combustion devices and vapor combustion units emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how these combustion units work and how they generate emissions, how they are monitored or tested, and what data are available for emissions determination, may change over time as the AQB continue scientific studies and as new information becomes available. The AQB welcome any data, information, or feedback that may improve our understanding of flares, enclosed combustion devices and vapor combustion units emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

Date: Permit Number: GCP-O&G-9888

Company Name:Steward Energy II, LLCAl# if Known:40920Facility Name:Wexler Tank BatteryElevation (ft.):3,806

Emission Unit ID: FUG-1 Fill all green/blue boxes changing default values as appropriate.

Emission	Unit	ID:	FUG-1	Fill	all gre	en/bl	ue bo	oxes c	han	ging	de	tault '	values	as a	ppro	pria	ite.			
Fugitive	e Vola	tile C	Organio	Con	npound	ls (VO	C), To	tal H	APs (H	HAP)	, Be	nzene	(CH6) 8	k Hy	drog	en S	ulfide	(H ₂ S)	Emiss	ions
							Unc	ontrol	led To	tal				Controlled Total						
					VC		Total		CH			H ₂ S	VC			al HA		CH ₆		I ₂ S
			%CH ₆			TPY	PPH		PPH	TPY	PP			TPY	PPH	I TP	Y PP	H TP		TPY
	32.22%			0.549				_		<mark>0.059</mark>	0.01	0.07	_	0	0	0	0	0	0.016	0.07
Heavy Oil			+	0.549	_			0 (0	0	0	0	0	0	0	0	0	0	0
Light Oil			1.086	0.549						0.074	-			0	0	0	0	0	0.009	
Water/Oil			1.086	0.549						0.009	_	_		0	0	0	0	0	0.001	0.004
	10	otals			2.7					0.142				0	0	0	0	0	0.026	
												ssions		_			1	1	H ₆ Emis	
Equipmen	t Serv	ice ^a	EF ^k		No. of	VOC	VOC			- 1	H ₆	CH ₆	Contro			VOC	HAP	HAP	CH ₆	CH ₆
Type					Sources	PPH	TPY	PPH			PH	TPY	Efficienc	-		TPY	PPH	TPY	PPH	TPY
Valves	Ga		0.00992		128	0.4091		0.023	0.10	_		0.0263	0%		0	0	0	0	0	0
		<u> </u>	0.00001		0	0	0	0	0	0		0	0%		0	0	0	0	0	0
			0.00551		153	0.8416	3.6862		_			0.0403	0%		0	0	0	0	0	0
	Wate	r/Oil	0.00021	605	86	0.0185	0.081					0.0009	0%		0	0	0	0	0	0
Subtotals						1.2692	5.559 ⁻	1 0.123	4 0.54	04 0.0)154	0.0675			0	0	0	0	0	0
Pump Seal	s Ga	as	0.00529	104	0	0	0	0	0	0		0	0%		0	0	0	0		0
	Heav	y Oil	0.02865	98	0	0	0	0	0	0		0	0%		0	0	0	0	0	0
	Ligh	t Oil	0.02865	98	2	0.0572	0.250	0.006	7 0.02	93 0.0	0006	0.0026	0%		0	0	0	0	0	0
	Wate	r/Oil	0.00005	291	3	0.0002	0.0009	9 0	0	0		0	0%		0	0	0	0	0	0
Subtotals						0.0574	0.2514	<mark>4</mark> 0.006	7 0.02	93 0.0	0006	0.0026			0	0	0	0	0	0
Connector	s Ga	as	0.00044	092	374	0.0531	0.2326	0.003	0.01	31 0.0	8000	0.0035	0%		0	0	0	0	0	0
	Heav	y Oil	0.00001	653	12	0.0002	0.0009	9 0	0	0		0	0%		0	0	0	0	0	0
	Ligh	t Oil	0.00046	297	346	0.1599	0.7004	<mark>4</mark> 0.018	7 0.08	19 0.0	0017	0.0074	0%		0	0	0	0	0	0
	Wate	r/Oil	0.00024	251	237	0.0574	0.2514	<mark>4</mark> 0.006	7 0.02	93 0.0	0006	0.0026	0%		0	0	0	0	0	0
Subtotals						0.2706	1.185	0.028	4 0.12	43 0.0	0031	0.0135			0	0	0	0	0	0
Flanges	Ga	as	0.00085	979	249	0.069	0.3022	0.003	9 0.01	71 0.0	001	0.0044	0%		0	0	0	0	0	0
	Heav	y Oil	0.00000	086	8	0	0	0	0	0		0	0%		0	0	0	0	0	0
	Ligh	t Oil	0.00024	251	230	0.0557	0.244	0.006	5 0.02	85 0.0	0003	0.0013	0%		0	0	0	0	0	0
	Wate	r/Oil	0.00000	639	158	0.001	0.0044	4 0.000	0.00	04 0		0	0%		0	0	0	0	0	0
Subtotals	•					0.1257	0.550	0.010	5 0.04	6 0.0	0013	0.0057			0	0	0	0	0	0
Open Ends	s Ga	as	0.00440	92	25	0.0355	0.155	0.002	0.00	88 0.0	0005	0.0022	0%		0	0	0	0	0	0
	Heav	y Oil	0.00030	864	0	0	0	0	0	0		0	0%		0	0	0	0	0	0
	Ligh	t Oil	0.00308	644	19	0.0585	0.2562	0.006	3 0.02	98 0.0	0006	0.0026	0%		0	0	0	0	0	0
	Wate	r/Oil	0.00055	115	3	0.0017	0.0074	4 0.000	2 0.00	09 0		0	0%		0	0	0	0	0	0
Subtotals	1	1				0.0957	0.419	0.009	0.03	95 0.0	0011	0.0048			0	0	0	0	0	0
Other ^c	Ga	as	0.01940	048	55	0.3438	1.5058	0.019	3 0.08	45 0.0	0051	0.0223	0%		0	0	0	0	0	0
	Heav	y Oil	0.00007	055	0	0	0	0	0	0		0	0%		0	0	0	0	0	0
	Ligh	t Oil	0.01653	45	25	0.4125	1.8068	0.048	2 0.21	11 0.0	0045	0.0197	0%		0	0	0	0	0	0
	Wate	r/Oil	0.03086	44	4			0.014					0%		0	0	0	0	0	0
Subtotals								0.081							0	0	0	0	0	0
													L				l	1	1	

Based on: 1995 Protocol for Equipment Leak Emission Estimates, Table 2.4 Version Date: 6/23/16; See next page for calculation notes.



Calculation Tool for Fugitive Emissions Oil & Gas Production Protocol for Equipment Leak Emission Estimates (EPA-453/R-95-017), Table 2-4; available at the EPA Web site at https://www3.epa.gov/ttn/chief/efdocs/equiplks.pdf

- a) Service categories are defined as follows:
 - 1) Gas/vapor material in a gaseous state at operating conditions;
 - 2) Light liquid material in a liquid state in which the sum of the concentration of individual constituents with a vapor pressure over 0.3 kilopascals (kPa) at 200C is greater than or equal to 20 weight percent;
 - 3) Heavy liquid not in gas/vapor service or light liquid service.
 - 4) Water/Oil emission factors apply to water streams in oil service with a water content greater than 50%, from the point of origin to the point where the water content reaches 99%. For water streams with a water content greater than 99%, the emission rate is considered negligible.
- b) These factors are for total organic compound emission rates (including non-VOC's such as methane and ethane) and apply to light crude, heavy crude, gas plant, gas production, and off shore facilities. "NA" indicates that not enough data were available to develop the indicated emission factor.
- c) The "other" equipment type was derived from compressors, diaphragms, drains, dump arms, hatches, instruments, meters, pressure relief valves, polished rods, relief valves, and vents. This "other" equipment type should be applied for any equipment type other than connectors, flanges, open-ended lines, pumps, or valves.
- d) Note that the average factors generally determine total hydrocarbon emissions. Therefore, you may need to multiply the calculated emission rates by the stream's weight percentage of VOC compounds to determine total VOC emissions. Please attach a copy of the appropriate gas and oil analysis with the stream's weight percentage of VOC compounds identified.

VOC Sample Calculation

For 10 Valves in Gas Service with a gas stream weight percentage of 25% VOC

Emission Factor (EF) lb/hr=0.0045 kg/hr * 2.2046 lbs/kg

Gas Valves Uncontrolled Emissions

pph EF (Valves in Gas Service) * Number of Valves in Gas Service & VOC wt% 0.0099207 |b/hr * 10 valves = 0.099207 |b/hr * 25%/100

tpy EF (Valves in Gas Service) * Number of Valves in Gas Service * 8760 hrs/yr * 1ton/2000 lbs 0.0099207 lb/hr * 10 valves * 8760 hrs/yr * 1/2000 ton/lbs = 0.4345 tons/yr * 25%/100

Total Uncontrolled Fugitive Emissions for all Service types in Gas Service

pph (Uncontrolled pph Emissions for Valves + Pump Seals + Connectors + Flanges + Open Ends + Other) * VOC wt%/100 tpy (Uncontrolled tpy Emissions for Valves + Pump Seals + Connectors + Flanges + Open Ends + Other) * VOC wt%/100

Technical Disclaimer

This document is intended to help you accurately determine equipment leak fugitive emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how piping components work and how they generate emissions, how they are monitored or tested, and what data are available for emissions determination, may change over time as we continue our scientific studies and as new information becomes available. We welcome any data, information, or feedback that may improve our understanding of equipment leak fugitive emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

Company Name: Steward Energy II, LLC **Facility Name:** Wexler Tank Battery

Permit Number: GCP-O&G-9888 AI# if Known:

40920 Elevation (ft.): 3,806

Unpaved Haul Roads

Enter Information in all green boxes.

Haul Road	Fugitive Emissi	on Unit ID:	HR-1	
% Silt	4.8	(Only enter roun	nce-Round-trip in Milo d-trip distance within	
Mean Vehicle Weight (tons)	26.5	facility boundari	es)	
Rain Days	70	Number of Haul I	Road Round-trips/hou	ır3
	_	Number of Haul I	Road Round-trips/yr	1,373
User % Control	0	Vehicle Miles Tra	veled/hr (VMT/hr)	0.45
		Vehicle Miles Tra	veled/yr (VMT/yr)	205.95

	Hourly lbs/VMT			Annually lbs/VMT	
TSP	PM10	PM2.5	TSP	PM10	PM2.5
6.88	1.75	0.18	5.56	1.41	0.15

		TSP/PM1	0/PM2.5 Emissi	on Rates		
Control	T:	SP	PN	110	PM	2.5
	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
Continuous	3.1	10.96	0.79	2.78	0.08	0.3
0% Control	3.1	0.57	0.79	0.15	0.08	0.02
User % Control	3.1	0.57	0.79	0.15	0.08	0.02

NMED-AQB Unpaved Haul Road Calculation Tool

All emission factors based on AP-42, AP-42 13.2.2-4; November 2006

https://www3.epa.gov/ttn/chief/ap42/ch13/final/c13s0202.pdf

Emissions from vehicles traveling on unpaved surfaces at industrial sites (based on 8760 Hours/year) can be estimated using the following expression:

AP-42 13.2.2-4; Equation 1a: $E = k (s/12)^a (W/3)^b$

where k, a, b, c and d are empirical constants (Reference 6) given below and

E = size-specific emission factor (lb/VMT)

s = surface material silt content (%)

W = mean vehicle weight (tons)

M = surface material moisture content (%)

Table 13.2.2-2	Table 13.2.2-2. CONSTANTS FOR EQUATION 1a					
Constant	Industr	rial Roads (Equa	ation 1a)			
	PM-2.5	PM-10	PM-30*			
k (lb/VMT)	0.15	1.5	4.9			
a	0.9	0.9	0.7			
b	0.45	0.45	0.45			
Quality Rating	В	В	В			
*Assumed equivalent	t to total suspe	nded particulate	matter (TSP)			

This document is intended to help you accurately determine unpaved haul road emissions. It does not supersede or replace any state or federal law, rule, or regulation. This guidance reflects the current understanding of how unpaved haul roads work and how they generate emissions, how they are monitored or tested, and what data are available for emissions determination, may change over time as we continue our scientific studies and as new information becomes available. We welcome any data, information, or feedback that may improve our understanding of unpaved haul road emissions and thereby further improve determinations within the emissions inventory. The calculation methods represented are intended as an emissions calculation aid; alternate calculation methods may be equally acceptable if they are based upon, and adequately demonstrate, sound engineering assumptions or data. If you have a question regarding the acceptability of a given emissions determination method, contact the Permitting Section at 505-476-4300.

Technical Disclaimer

E P	
	THE

				_	otal Requ	lested En	Total Requested Emissions For		ulated Fa	All Regulated Facility Equipment (GCP-O&G Request)	pment (G	iCP-0&G	Rednest)					
Emission	NOX	×	Ů	0)) 	VOC	Š	SOx		TSP	PM	PM10	PM2.5	2.5	Ή	H ₂ S	Total HAP	HAP
Unit	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
Engines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
Heaters	0.19	0.83	0.16	0.7	0.01	0.04	1.47	6.45	0.02	0.07	0.02	0.07	0.02	0.07	-	-		
Oil Tanks Flash	1	1	1	1	0.33	1.41	I	1	1	1	I	I	I	1				
Oil Tanks W & S	ı	ı	1	1	0.09	0.33	1	1	1	1	1	1	1	1				
Water Tks Flash	1	1	ı	1	0.03	60:0	ı	1	1	1	1	ı	1	1				
Water Tks W & S	ı	ı	1	1	0	90:0	ı	ı	1	ı	1	ı	1	1				
Skim or Slop Tank	ı	ı	ı	ı			ı	ı	1	ı	ı	ı	ı	1				
	1	1	1	1			1	1	1	1	1	1	1	1				
	0	0	0	0	0	0	0	0										
	0	0	0	0	0	0	0	0										
	0	0	0	0	0	0	0	0										
Flares	249.25	22.16	497.6	44.25	192.39	59.4	1,103.78	88.03										
Fugitives	-	-	-	-	2.7	11.81									0.03	0.11	0.26	1.13
SSM						10												
Malf.	1	1	1	1	-		1	-	1	-	-	-	-	1	-	-	1	1
Unpaved Haul Rds.	1	-	1	1	-	-	ı	1	3.1	0.57	0.79	0.15	0.08	0.02	1	-	1	1
Paved Haul Rds.	1	-	-	1	-	-	1	1	0	0	0	0	0	0	-	-	0	0
Oil Load	1	1	1	1	33.13	0.92	1	1	1	1	-	-	-	1				
Water Loading	1	-	1	1	92'0	0.13	1	1	1	1	-	1	-	1				
Amine Unt	1	1	1	1	0	0	-	1	ı	ı	1	-	-	1	0	0	0	0
Amine Reb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1		
Dehy Unit	1	1	1	1			1	1	ı	ı	-	-	-	1				
Dehy Reb.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-		Pag
Totals	249.44	22.99	497.76	44.95	229.44	84.19	1,105.2	94.48	3.12	0.64	0.81	0.22	0.1	0.00	0.03	0.11	0.26	1.13

Company Name: Site Name: Stweard Energy II, LLC
Wexler Tank Battery

Date:

7/23/2024

Emission Estimations for HAPS

Emission Source	VOCs (lb/hr)	VOCs (tpy)
HT-1	0.00	0.01
HT Remainder	0.01	0.03
OT	0.13	0.58
OT Remainder	0.27	1.16
GBT		
GBT Remainder		
PWT	0.01	0.05
PWT Remainder	0.02	0.10
OLOAD-1	33.13	0.92
PWLOAD-1	0.24	0.04
M	0.00	0.00
FL-1A-LP-SSM	0.20	0.09
FL-1A-HP	187.51	55.13
SSM-1	0.00	10.00
FUG-1		
HR-1	0.00	0.00
VRT Gas	0.00	0.00
FL-1A-LP	2.33	3.80
0	0.00	0.00
0	0.00	0.00
0	0.00	0.00
0	0.00	0.00
0	0.00	0.00
ENG-1	0.00	0.00
ENG-2	0.00	0.00
ENG-3	0.00	0.00
ENG-4	0.00	0.00
ENG-5	0.00	0.00

Number	Component	W&B Gas wt %	W&B fraction	Normalized W&B Fraction
1	H2S	0.704172671	0.007041727	
2	02	0	0	
3	CO2	4.786327318	0.047863273	
4	N2	0.015872618	0.000158726	
5	C1	1.485814692	0.014858147	
6	C2	25.13155173	0.251315517	
7	C3	36.47662338	0.364766234	0.543812329
8	i-C4	6.309927584	0.063099276	0.094071657
9	n-C4	13.3509935	0.133509935	0.199043502
10	i-C5	3.518641741	0.035186417	0.052457727
11	n-C5	3.2095308	0.032095308	0.047849342
12	C6	0.889592989	0.00889593	0.013262511
13	Benzene	0.784763866	0.007847639	0.011699665
14	Toluene	0.266247227	0.002662472	0.003969351
15	E-Benzene	0.083313496	0.000833135	0.001242081
16	Xylenes	0.029855432	0.000298554	0.0004451
17	n-C6	0.65857705	0.00658577	0.009818407
18	224Trimethylp	0	0	0
19	C7	1.104356142	0.011043561	0.016464311
20	C8	0.319598932	0.003195989	0.004764746
21	C9	0.073694052	0.000736941	0.001098669
22	C10+	4.03288E-05	4.03288E-07	6.01242E-07
23	Pseudo Comp5		0	0

0.670757565

Hazardous Air Pollutants - Determination of Major Source

Pollutant	Total (tpy)
Benzene	0.84
Total Benzene	0.98
Toluene	0.29
E-Benzene	0.09
Xylenes	0.03
n-Hexane	0.71
224Trimethylp	0.00
FUG-1 Benzene	0.14

0.98
2.10

Major Source of HAPs?		NO
FUG-1	1.13	
Formaldehyde	0.00	
Total:	3.08	

Pollutant	Total (lb/hr)	Largest	HAP (lb/hr)	2.65
Benzene	2.62	Total F	IAPs (lb/hr)	6.12
Total Benzene	2.65			
Toluene	0.89			
E-Benzene	0.28			
Xylenes	0.10	FUG-1	0.26	
n-Hexane	2.20			
224Trimethylp	0.00	Formaldehyde	0.00	
FUG-1 Benzene	0.03	Total:	6.34	

Hazardous Air Pollutants - Emission Source:

HT₋1

Pollutant	lb/hr
H2S	0.00
Propane	0.00
Butanes	0.00
Pentanes	0.00
Hexanes	0.00
Benzene	0.0000
Toluene	0.0000
E-Benzene	0.0000
Xylenes	0.0000
n-Hexane	0.0000
224Trimethylp	0.0000
Psuedo Comp1	0.00
Psuedo Comp2	0.00
Psuedo Comp3	0.00
Psuedo Comp4	0.00
Psuedo Comp5	0.00
Total VOCS	0.00

Max HAPs
lb/hr
0.00

Pollutant	tpy
H2S	0.00
Propane	0.01
Butanes	0.00
Pentanes	0.00
Hexanes	0.00
Benzene	0.0002
Toluene	0.0001
E-Benzene	0.0000
Xylenes	0.0000
n-Hexane	0.0001
224Trimethylp	0.0000
Psuedo Comp1	0.00
Psuedo Comp2	0.00
Psuedo Comp3	0.00
Psuedo Comp4	0.00
Psuedo Comp5	0.00
Total VOCS	0.01

Total HAPs	Max HAPS
tpy	tpy
0.00	0.00

Hazardous Air Pollutants - Emission Source:

HT Remainder

Pollutant	lb/hr
H2S	0.00
Propane	0.00
Butanes	0.00
Pentanes	0.00
Hexanes	0.00
Benzene	0.0001
Toluene	0.0000
E-Benzene	0.0000
Xylenes	0.0000
n-Hexane	0.0001
224Trimethylp	0.0000
Psuedo Comp1	0.00
Psuedo Comp2	0.00
Psuedo Comp3	0.00
Psuedo Comp4	0.00
Psuedo Comp5	0.00
Total VOCS	0.01

Total HAPS	Max HAPs
lb/hr	lb/hr
0.00	0.00

tpy 0.00 0.01 0.01 0.00 0.00 0.000
0.01 0.01 0.00 0.00
0.01 0.00 0.00
0.00
0.00
0.0003
0.0001
0.0000
0.0000
0.0003
0.0000
0.00
0.00
0.00
0.00
0.00
0.03

Total HAPs	Max HAPS
tpy	tpy
0.00	0.00

Hazardous Air Pollutants - Emission Source:

от

Pollutant	lb/hr
H2S	0.00
Propane	0.07
Butanes	0.04
Pentanes	0.01
Hexanes	0.00
Benzene	0.0016
Toluene	0.0005
E-Benzene	0.0002
Xylenes	0.0001
n-Hexane	0.0013
224Trimethylp	0.0000
Psuedo Comp1	0.00
Psuedo Comp2	0.00
Psuedo Comp3	0.00
Psuedo Comp4	0.00
Psuedo Comp5	0.00
Total VOCS	0.13

Max HAPs
lb/hr
0.00

Pollutant	tpy	
H2S	0.00	
Propane	0.32	
Butanes	0.17	
Pentanes	0.06	
Hexanes	0.01	
Benzene	0.0068	
Toluene	0.0023	
E-Benzene	0.0007	
Xylenes	0.0003	
n-Hexane	0.0057	
224Trimethylp	0.0000	
Psuedo Comp1	0.01	
Psuedo Comp2	0.00	
Psuedo Comp3	0.00	
Psuedo Comp4	0.00	
Psuedo Comp5	0.00	
Total VOCS	0.58	

Total HAPs	Max HAPS	
tpy	tpy	
0.02	0.01	

Hazardous Air Pollutants - Emission Source:

OT Remainder

Pollutant	lb/hr	
H2S	0.00	
Propane	0.14	
Butanes	0.08	
Pentanes	0.03	
Hexanes	0.00	
Benzene	0.0031	
Toluene	0.0011	
E-Benzene	0.0003	
Xylenes	0.0001	
n-Hexane	0.0026	
224Trimethylp	0.0000	
Psuedo Comp1	0.00	
Psuedo Comp2	0.00	
Psuedo Comp3	0.00	
Psuedo Comp4	0.00	
Psuedo Comp5	0.00	
Total VOCS	0.27	

Total HAPS	Max HAPs
lb/hr	lb/hr
0.01	0.00

Pollutant	tpy	
H2S	0.01	
Propane	0.63	
Butanes	0.34	
Pentanes	0.12	
Hexanes	0.02	
Benzene	0.0136	
Toluene	0.0046	
E-Benzene	0.0014	
Xylenes	0.0005	
n-Hexane	0.0114	
224Trimethylp	0.0000	
Psuedo Comp1	0.02	
Psuedo Comp2	0.01	
Psuedo Comp3	0.00	
Psuedo Comp4	0.00	
Psuedo Comp5	0.00	
Total VOCS	1.16	

Total HAPs	Max HAPS
tpy	tpy
0.03	0.01

Hazardous Air Pollutants - Emission Source:

PWT

Pollutant	lb/hr
H2S	0.00
Propane	0.01
Butanes	0.00
Pentanes	0.00
Hexanes	0.00
Benzene	0.0001
Toluene	0.0000
E-Benzene	0.0000
Xylenes	0.0000
n-Hexane	0.0001
224Trimethylp	0.0000
Psuedo Comp1	0.00
Psuedo Comp2	0.00
Psuedo Comp3	0.00
Psuedo Comp4	0.00
Psuedo Comp5	0.00
Total VOCS	0.01

Total HAPS	Max HAPs
lb/hr	lb/hr
0.0003	0.00

Pollutant	tpy	
H2S	0.00	
Propane	0.03	
Butanes	0.01	
Pentanes	0.00	
Hexanes	0.00	
Benzene	0.0006	
Toluene	0.0002	
E-Benzene	0.0001	
Xylenes	0.0000	
n-Hexane	0.0005	
224Trimethylp	0.0000	
Psuedo Comp1	0.00	
Psuedo Comp2	0.00	
Psuedo Comp3	0.00	
Psuedo Comp4	0.00	
Psuedo Comp5	0.00	
Total VOCS	0.05	

Total HAPs	Max HAPS
tpy	tpy
0.0014	0.00

Hazardous Air Pollutants - Emission Source:

D\A/T	Rema	indor

Pollutant	lb/hr
H2S	0.00
Propane	0.01
Butanes	0.01
Pentanes	0.00
Hexanes	0.00
Benzene	0.0003
Toluene	0.0001
E-Benzene	0.0000
Xylenes	0.0000
n-Hexane	0.0002
224Trimethylp	0.0000
Psuedo Comp1	0.00
Psuedo Comp2	0.00
Psuedo Comp3	0.00
Psuedo Comp4	0.00
Psuedo Comp5	0.00
Total VOCS	0.02

Total HAPS lb/hr	Max HAPs lb/hr
0.0006	0.00
0.0006	0.00

Pollutant	tpy
H2S	0.00
Propane	0.05
Butanes	0.03
Pentanes	0.01
Hexanes	0.00
Benzene	0.0012
Toluene	0.0004
E-Benzene	0.0001
Xylenes	0.0000
n-Hexane	0.0010
224Trimethylp	0.0000
Psuedo Comp1	0.00
Psuedo Comp2	0.00
Psuedo Comp3	0.00
Psuedo Comp4	0.00
Psuedo Comp5	0.00
Total VOCS	0.10

Total HAPs	Max HAPS
tpy	tpy
0.0027	0.00

Hazardous Air Pollutants - Emission Source:

OLOAD-1

Pollutant	lb/hr
H2S	0.23
Propane	18.02
Butanes	9.71
Pentanes	3.32
Hexanes	0.44
Benzene	0.3876
Toluene	0.1315
E-Benzene	0.0412
Xylenes	0.0147
n-Hexane	0.3253
224Trimethylp	0.0000
Psuedo Comp1	0.55
Psuedo Comp2	0.16
Psuedo Comp3	0.04
Psuedo Comp4	0.00
Psuedo Comp5	0.00
Total VOCS	33.13

Total HAPS	Max HAPs
lb/hr	lb/hr
0.9004	0.39

Pollutant	tpy
H2S	0.01
Propane	0.50
Butanes	0.27
Pentanes	0.09
Hexanes	0.01
Benzene	0.0108
Toluene	0.0037
E-Benzene	0.0011
Xylenes	0.0004
n-Hexane	0.0091
224Trimethylp	0.0000
Psuedo Comp1	0.02
Psuedo Comp2	0.00
Psuedo Comp3	0.00
Psuedo Comp4	0.00
Psuedo Comp5	0.00
Total VOCS	0.92

Total HAPs	Max HAPS
tpy	tpy
0.0251	0.01

Hazardous Air Pollutants - Emission Source:

PWLOAD-1

Pollutant	lb/hr
H2S	0.00
Propane	0.13
Butanes	0.07
Pentanes	0.02
Hexanes	0.00
Benzene	0.0028
Toluene	0.0009
E-Benzene	0.0003
Xylenes	0.0001
n-Hexane	0.0023
224Trimethylp	0.0000
Psuedo Comp1	0.00
Psuedo Comp2	0.00
Psuedo Comp3	0.00
Psuedo Comp4	0.00
Psuedo Comp5	0.00
Total VOCS	0.24

Total HAPS lb/hr	Max HAPs lb/hr
0.0064	0.00

Pollutant	tpy
H2S	0.00
Propane	0.02
Butanes	0.01
Pentanes	0.00
Hexanes	0.00
Benzene	0.0005
Toluene	0.0002
E-Benzene	0.0001
Xylenes	0.0000
n-Hexane	0.0004
224Trimethylp	0.0000
Psuedo Comp1	0.00
Psuedo Comp2	0.00
Psuedo Comp3	0.00
Psuedo Comp4	0.00
Psuedo Comp5	0.00
Total VOCS	0.04

Total HAPs	Max HAPS
tpy	tpy
0.0011	0.00

Hazardous Air Pollutants - Emission Source:

FL-1A-LP-SSM

Pollutant	lb/hr	
H2S	0.00	
Propane	0.11	
Butanes	0.06	
Pentanes	0.02	
Hexanes	0.00	
Benzene	0.0024	
Toluene	0.0008	
E-Benzene	0.0002	
Xylenes	0.0001	
n-Hexane	0.0020	
224Trimethylp	0.0000	
Psuedo Comp1	0.00	
Psuedo Comp2	0.00	
Psuedo Comp3	0.00	
Psuedo Comp4	0.00	
Psuedo Comp5	0.00	
Total VOCS	0.20	

Total HAPS	Max HAPs
lb/hr	lb/hr
0.0055	0.00

Pollutant	tpy
H2S	0.00
Propane	0.05
Butanes	0.03
Pentanes	0.01
Hexanes	0.00
Benzene	0.0010
Toluene	0.0003
E-Benzene	0.0001
Xylenes	0.0000
n-Hexane	0.0009
224Trimethylp	0.0000
Psuedo Comp1	0.00
Psuedo Comp2	0.00
Psuedo Comp3	0.00
Psuedo Comp4	0.00
Psuedo Comp5	0.00
Total VOCS	0.09

Total HAPs	Max HAPS
tpy	tpy
0.0024	0.00

Hazardous Air Pollutants - Emission Source:

Pollutant	lb/hr	
H2S	1.32	
Propane	101.97	
Butanes	54.96	
Pentanes	18.81	
Hexanes	2.49	
Benzene	2.1939	
Toluene	0.7443	
E-Benzene	0.2329	
Xylenes	0.0835	
n-Hexane	1.8411	
224Trimethylp	0.0000	
Psuedo Comp1	3.09	
Psuedo Comp2	0.89	
Psuedo Comp3	0.21	
Psuedo Comp4	0.00	
Psuedo Comp5	0.00	
Total VOCS	187.51	

Total HAPS	Max HAPs
lb/hr	lb/hr
5.0956	2.19

Pollutant	tpy
H2S	0.39
Propane	29.98
Butanes	16.16
Pentanes	5.53
Hexanes	0.73
Benzene	0.6450
Toluene	0.2188
E-Benzene	0.0685
Xylenes	0.0245
n-Hexane	0.5413
224Trimethylp	0.0000
Psuedo Comp1	0.91
Psuedo Comp2	0.26
Psuedo Comp3	0.06
Psuedo Comp4	0.00
Psuedo Comp5	0.00
Total VOCS	55.13

Total HAPs	Max HAPS
tpy	tpy
1.4981	0.64

Hazardous Air Pollutants - Emission Source:

SSM-1

Pollutant	lb/hr
H2S	0.00
Propane	0.00
Butanes	0.00
Pentanes	0.00
Hexanes	0.00
Benzene	0.0000
Toluene	0.0000
E-Benzene	0.0000
Xylenes	0.0000
n-Hexane	0.0000
224Trimethylp	0.0000
Psuedo Comp1	0.00
Psuedo Comp2	0.00
Psuedo Comp3	0.00
Psuedo Comp4	0.00
Psuedo Comp5	0.00
Total VOCS	0.00

Total HAPS	Max HAPs
lb/hr	lb/hr
0.0000	0.00

tpy
0.07
5.44
2.93
1.00
0.13
0.1170
0.0397
0.0124
0.0045
0.0982
0.0000
0.16
0.05
0.01
0.00
0.00
10.00

Max HAPS
tpy
0.12

Hazardous Air Pollutants - Emission Source:

FL-1A-LF

Pollutant	lb/hr
H2S	0.02
Propane	1.27
Butanes	0.68
Pentanes	0.23
Hexanes	0.03
Benzene	0.0273
Toluene	0.0092
E-Benzene	0.0029
Xylenes	0.0010
n-Hexane	0.0229
224Trimethylp	0.0000
Psuedo Comp1	0.04
Psuedo Comp2	0.01
Psuedo Comp3	0.00
Psuedo Comp4	0.00
Psuedo Comp5	0.00
Total VOCS	2.33
·	·

Total HAPS	Max HAPs
lb/hr	lb/hr
0.0633	0.03

Pollutant	tpy
H2S	0.03
Propane	2.07
Butanes	1.11
Pentanes	0.38
Hexanes	0.05
Benzene	0.0445
Toluene	0.0151
E-Benzene	0.0047
Xylenes	0.0017
n-Hexane	0.0373
224Trimethylp	0.0000
Psuedo Comp1	0.06
Psuedo Comp2	0.02
Psuedo Comp3	0.00
Psuedo Comp4	0.00
Psuedo Comp5	0.00
Total VOCS	3.80

Total HAPs	Max HAPS
tpy	tpy
0.1033	0.04

Section 6

Information Used to Determine Emissions

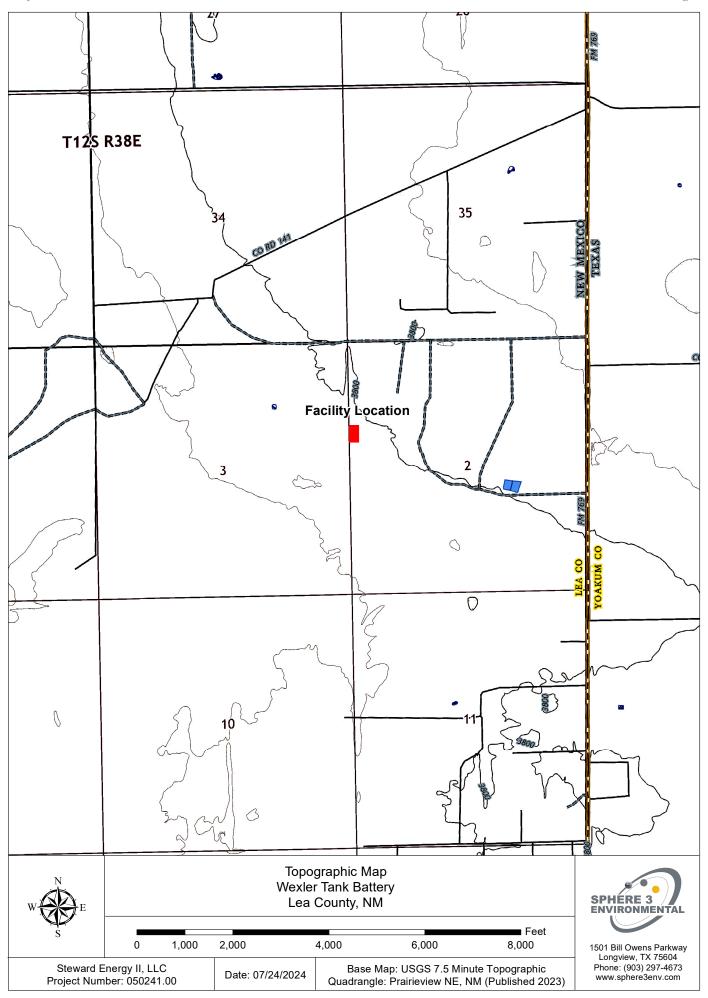
Hardcopy and Portal Submittals - complete this section

Check the box for each type of information submitted. This documentation is required, if applicable to the facility.

Failure to include applicable supporting documentation may result in application denial.

	Specifications for control equipment, including control efficiency specifications and sufficient engineering data for verification
of	control equipment operation, including design drawings, test reports, and design parameters that affect normal operation.
	☐ Engine or Generator Manufacturer specifications
	\square Catalyst Manufacturer specifications (If a catalyst is being utilized to reduce emissions, the catalyst manufacturer emission
	factors must be used in all emission calculations. A 25% safety factor may be applied to each pollutant.
	□ NSPS JJJJ emission factors may not be utilized in lieu of catalyst manufacture specifications when a catalyst is installed, and
	the catalysts manufacturer achieves higher control efficiency.
	☑ Flare Manufacturer specifications
	☑ Oil/Liquid Analysis: This data is required to match the inputs in all applicable emission calculations. For facilities that have not been constructed and a representative analysis is used it cannot be older than 1 year. For existing facilities, the gas analyses required by Condition A201.A (must be 1 year old or less).
	☐ Gas Analysis (must be 1 year old or less) This data is required to match the inputs in all applicable emission calculations.
	☑ Extended Gas Analysis (must be 1 year old or less) This data is required to match the inputs in all applicable emission calculations.
	☐ If requesting to use a representative gas sample, include a discussion of why the sample is representative for this facility and an explanation of how it is representative (e.g., same reservoir, same similar API gravity, similar composition).
	If test data are used, to support emissions calculations or to establish allowable emission limits, include a copy of the
	complete test report. If the test data are for an emissions unit other than the one being permitted, the emission units must be identical. Test data may not be used if any difference in operating conditions of the unit being permitted and the unit represented in the test report significantly effect emission rates.
\neg	Fuel specifications sheet.
	If computer models are used to estimate emissions, include an input summary and a detailed report, and a disk containing the input file used to run the model.
	For tank-flashing emissions, include a discussion of the method used to estimate tank-flashing emissions, accuracy of the model, the input and output summary from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis.

Representative Gas Analysis Justification:



Section 8A

Applicable State & Federal Regulations

<u>Hardcopy and Portal Submittals – complete this section</u>

Provide a discussion demonstrating compliance with each applicable state & federal regulation. All input cells should be filled in, even if the response is 'No' or 'N/A'.

In the "Justification" column, identify the criteria that are critical to the applicability determination, numbering each. For each unit listed in the "Applies to Unit No(s)" column, after each listed unit, include the lowest level citation of the applicable regulation. For each unit, list the information necessary to verify the applicability of the regulation, including date of manufacture, date of construction, size (hp), and combustion type. Doing so will provide the applicability criteria for each unit.

Applicable State Regulations:

State Regulation Citation	Title	Federally Enforceable	Overview of Regulation		Unit(s) or Facility	Applies? (Yes or No)	Justification: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 m³, 3. VOL)
20.2.1 NMAC	General Provisions	Yes	General Provisions apply to Notice of Intent, Construction, and Title V permit applications.		Facility	Yes	20.2.1.5 specifies the effective date for permanent compliance with statewide air quality regulations is September 27, 1995
20.2.3 NMAC	Ambient Air Quality Standards NMAAQS	Yes	20.2.3 NMAC is a State Implementation Plan (SIP) approved regulation that limits the maximum allowable concentration of Sulfur Compounds, Carbon Monoxide, and Nitrogen Dioxide.		Facility	Yes	The facility has individual emission units to which the NMAAQS apply.
20.2.7 NMAC	Excess Emissions	Yes	If your entire facility or individual pieces of equipment are subject to emissions limits in a permit or numerical emissions standards in a federal or state regulation, this applies.		Facility	Yes	The facility has individual pieces of equipment that have emission limits, therefore, this rule applies
20.2.38 NMAC	Hydrocarbo n Storage Facility	No	Use the regulation link then cut & paste applicable sections. 20.2.38 NMAC does not establish practically enforceable limits that can be used for PTE or PER calculations.		N/A	No	This facility stores less than 65,000 gallons of hydrocarbon so this rule is not applicable.
20.2.50 NMAC	Oil and Gas Sector – Ozone Precursor Pollutants	No	This regulation establishes emission standards for volatile organic compounds (VOC) and oxides of nitrogen (NO _x) for oil and gas production, processing, compression, and transmission sources.	Check the box for the subparts that are applicable: 113 – Engines and Turbines 114 – Compressor Seals 115 – Control Devices and Closed Vent Systems 116 – Equipment Leaks and Fugitive Emissions 117 – Natural Gas Well Liquid Unloading 118 – Glycol Dehydrators 119 – Heaters 120 – Hydrocarbon Liquid Transfers 121 – Pig Launching and Receiving 122 – Pneumatic Controllers and Pumps 123 – Storage Vessels 124 – Well Workovers 125 – Small Business Facilities 126 – Produced Water Management Unit		this site will be installed, operated, and maintained consistent with manufacturing specifications and good engineering practices as stated in this subpart. 116 - Fugitive components at this tank battery will meet the monitoring, repair, recordkeeping, and reporting requirements consistent with the emissions standards stated in this subpart. 123 - This subpart applies as the storage tanks at this	

attery December 2024 R.3

	<u> </u>			•			
State Regulation Citation	Title	Federally Enforceable	Overview o	of Regulation	Unit(s) or Facility	Applies? (Yes or No)	Justification: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 m³, 3. VOL)
				☐ 127 – Flowback Vesse Operations	ls and Prepr	oduction	battery exceed a PTE of 3 tpy VOC without control. All measurement, monitoring, recordkeeping, and reporting criteria will be met.
20.2.61.109 NMAC	Smoke & Visible Emissions	No	Engines and heaters a Combustion Equipme subject to this regulat	nt. Specify units	HT 1-3, FL-1A- HP, FL- 1A-LP- SSM FL-1A-LP	Yes	Listed Units are stationary combustion units.
20.2.73 NMAC	NOI & Emissions Inventory Require- ments	Yes	NOI: 20.2.73.200 NM/facilities emitting over regulated air contamin facilities are also subject This GCP-O&G registra purpose of meeting 20 notification requirement Emissions Inventory: 2 applies to facilities register.	r 10 TPY of any nate. Thus, permitted ect to this rule. ation also serves the 0.2.73 NMAC ents.	Facility	Yes – applies to all GCP- O&G registrants.	Under 20.2.73.300.B(4) NMAC, NMED will periodically request emissions inventory reporting from minor source (expected each third year starting in 2020.) Under 20.2.73.300.B(1) NMAC, if fugitives result in PTE >100 tpy VOC, annual reporting is required.
20.2.77 NMAC	New Source Performanc e	Yes	This is a stationary sor the requirements of 4 amended on the date	•	FUG-1	Yes	Subpart OOOOb for oil storage tanks and fugitives
20.2.78 NMAC	Emission Standards for HAPS	Yes	This facility emits haze which are subject to t CFR Part 61, as amend certification.	he requirements of 40	N/A	No	There are no source operations at this facility that are subject to 40 CFR Part 61 NESHAP standards.
20.2.82 NMAC	MACT Standards for source categories of HAPS	Yes	This regulation applies hazardous air pollutar to the requirements of amended on the date	of 40 CFR Part 63, as	N/A	No	There are no source operations at this facility that are subject to 40 CFR Subpart 63.

Applicable Federal Regulations (This is not an exhaustive list; add applicable regulations such as NSPS GG and KKKK):

Federal Regulation Citation	Title	Overview of Regulation	Units(s) or Facility	Applies? (Yes or No)	Justification: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 m3, 3. VOL)
40 CFR 50	National Primary and Secondary Ambient Air Quality Standards (NAAQS)	Applicable requirement per GCP-O&G Condition A103. Any national ambient air quality standard.	Facility	Yes	The facility has individual emission units to which the NAAQS applies.
40 CFR 60, Subpart A	General Provisions	Applies if any other NSPS subpart applies.	OT 1-3, FUG-1	Yes	Applies because this facility has units subject to NSPS Subpart OOOOa.
40 CFR 60, Subpart OOOO Subpart OOOO Subpart OOOO Subpart Crude Oil and Natural Gas Production, Transmission and		If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375); centrifugal compressors (60.5380);	N/A	No	This regulation does not apply because the facilities were constructed after September 18, 2015.

Wexler Tank Battery

December 2024 R.3

	0, ,	•			
Federal Regulation Citation	Title	Overview of Regulation	Units(s) or Facility	Applies? (Yes or No)	Justification: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 m3, 3. VOL)
	Distribution for which Construction, Modification or Reconstruction Commenced After August 23, 2011, and on or before September 18, 2015	reciprocating compressors (60.5385): controllers (60.5390); storage vessels (60.5395); equipment leaks (60.5400); sweetening units (60.5405). If standards apply, list the unit number(s) and regulatory citation of the standard that applies to that unit (e.g. Centrifugal Compressors 1a-3a are subject to the standards at 60.5380(a)(1) and (2) since we use a control device to reduce			
40 CFR 60, Subpart OOOOa	Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015	emissions) If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375a); centrifugal compressors (60.5380a); reciprocating compressors (60.5385a): controllers (60.5390a); storage vessels (60.5395a); fugitive emissions at well sites and compressor stations (60.5397a); equipment leaks at gas plants (60.5400a); sweetening units (60.5405a).	N/A	No	This regulation does not apply because the facilities were modified after December 6, 2022.
40 CFR 60, Subpart OOOOb	Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After December 6, 2022	If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375b); centrifugal compressors (60.5380b); reciprocating compressors (60.5385b): controllers (60.5390b); storage vessels (60.5395b); fugitive emissions at well sites and compressor stations (60.5397b); equipment leaks at gas plants (60.5400b); sweetening units (60.5405b).	FUG-1	Yes	This regulation applies because "affected" facilities were modified after December 6, 2022. The storage vessels are not subject due to practically enforceable limits. Fugitive emissions at the facility are subject to the standards in §60.5397b.
40 CFR 60, Subpart IIII	Standards of performance for Stationary Compression Ignition Internal Combustion Engines	See 40 CFR 60.4200(a) 1 through 4 to determine applicable category and state engine size, fuel type, and date of manufacture.	N/A	No	There are no compression ignition IC engines at this facility.
40 CFR 60, Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	See 40 CFR 60.4230(a), 1 through 5 to determine applicable category and state engine size, fuel type, and date of manufacture.	N/A	No	There are no spark ignition IC engines at this facility.
40 CFR 63, Subpart A	General Provisions	Applies if any other subpart applies.	N/A	No	There are no source operations at this facility that are subject to 40 CFR Subpart 63.
40 CFR 63, Subpart HH	NESHAP for Glycol Dehydrators	See 40 CFR 63, Subpart HH	N/A	No	There are no glycol dehydrators at this facility.
40 CFR 63, Subpart ZZZZ	NESHAP for Stationary Reciprocating Internal Combustion Engines (RICE MACT)	Facilities are subject to this subpart if they own or operate a stationary RICE, except if the stationary RICE is being tested at a stationary RICE test cell/stand.	N/A	No	There are no reciprocating internal combustion engines at this facility.

Section 8B Compliance Test History and Disclosure Form

<u>Hardcopy and Portal Submittals – complete this section</u>

To evaluate the requirement for compliance tests, you must submit a compliance test history. The table below provides an example.

Compliance Test History Table

Unit No.	Test Description	Test Date
N/A	N/A	N/A

Air Permit Application Compliance History Disclosure Form

Pursuant to Subsection 74-2-7(S) of the New Mexico Air Quality Control Act ("AQCA"), NMSA §§ 74-2-1 to -17, the New Mexico Environment Department ("Department") may deny any permit application or revoke any permit issued pursuant to the AQCA if, within ten years immediately preceding the date of submission of the permit application, the applicant met any one of the criteria outlined below. In order for the Department to deem an air permit application administratively complete or issue an air permit for those permits without an administrative completeness determination process, the applicant must complete this Compliance History Disclosure Form as specified in Subsection 74-2-7(P). An existing permit holder (permit issued prior to June 18, 2021) shall provide this Compliance History Disclosure Form to the Department upon request.

Permittee/Applicant Company Name			Expected Application Submittal	Date	
Stewa	Steward Energy II, LLC 12/20/24		12/20/24		
Permi	Permittee/Company Contact Phone Email				
Nick White 214-297-0500 Nick.white@stewardenergy.com					
Withi	n the 10 years preceding the expected			pplicant:	
1	Knowingly misrepresented a material	fact in an application for a	permit?	☐ Yes X No	
2	Refused to disclose information requi Act?	red by the provisions of the	e New Mexico Air Quality Control	☐ Yes X No	
3	Been convicted of a felony related to States?	environmental crime in an	y court of any state or the United	☐ Yes X No	
4	Been convicted of a crime defined by trade, price fixing, bribery, or fraud in			☐ Yes X No	
Constructed or operated any facility for which a permit was sought, including the current facility, without the required air quality permit(s) under 20.2.70 NMAC, 20.2.72 NMAC, 20.2.74 NMAC, 20.2.79 NMAC, or 20.2.84 NMAC?					
5b	If "No" to question 5a, go to question 6. If "Yes" to question 5a, state whether each facility that was constructed or operated without the required air quality permit met at least one of the following exceptions: a. The unpermitted facility was discovered after acquisition during a timely environmental audit that was authorized by the Department; or b. The operator of the facility estimated that the facility's emissions would not require an air permit, and the operator applied for an air permit within 30 calendar days of discovering that an air permit was required for the facility.				
6	Had any permit revoked or permanently suspended for cause under the environmental laws of any state or the United States?				
7	For each "yes" answer, please provide received a post-inspection notification construction of ten facilities that had	n from NMED AQB regardir	ng failure to obtain a permit prior t		

Calculations for the total Mcf flared
End Meter Volume – the Begin Meter Volume.

***Composition for the gas has been entered into the question portion of the C-129. If further back up is needed please let us know and will provide requested data.

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

DEFINITIONS

Action 502141

DEFINITIONS

Operator:	OGRID:
BURK ROYALTY CO., LTD.	3053
P.O. Box 94903	Action Number:
Wichita Falls, TX 76308	502141
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:

- this application's operator, hereinafter "this operator";
- venting and/or flaring, hereinafter "vent or flare";
- any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";
- the statements in (and/or attached to) this, hereinafter "the statements in this";
- and the past tense will be used in lieu of mixed past/present tense questions and statements.

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Action 502141

QUESTIONS				
Operator:		OGRID:		
BURK ROYALTY CO., LTD. P.O. Box 94903		3053 Action Number:		
Wichita Falls, TX 76308		502141		
		Action Type: [C-129] Venting and/or Flaring (C-129)		
QUESTIONS		[O 120] Forming units Finding (O 120)		
Prerequisites				
Any messages presented in this section, will prevent submission of this application. Please resolve t	hese issues before continuina wit	h the rest of the questions		
		in the real of the questions.		
Incident Well	Unavailable.			
Incident Facility	[fAPP2305752280] WEXLER	R FEE TANK BATTERY		
Determination of Reporting Requirements				
Answer all questions that apply. The Reason(s) statements are calculated based on your answers an	d may provide addional guidance.			
Was this vent or flare caused by an emergency or malfunction	Yes			
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	Yes			
Is this considered a submission for a vent or flare event	Yes, minor venting and/or	flaring of natural gas.		
An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during vi	enting and/or flaring that is or may	he a major or minor release under 19 15 29 7 NMAC		
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes	so a major or minor release union recreation recreation.		
Did this vent or flare result in the release of ANY liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	No			
Was the vent or flare within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No			
Equipment Involved				
Primary Equipment Involved	Not answered.			
Additional details for Equipment Involved. Please specify	Not answered.			
Description Common Windows I Ameliania of Mantal and Elevat National Com				
Representative Compositional Analysis of Vented or Flared Natural Gas Please provide the mole percent for the percentage questions in this group.				
Methane (CH4) percentage	55			
Nitrogen (N2) percentage, if greater than one percent	6			
Hydrogen Sulfide (H2S) PPM, rounded up	4,374			
Carbon Dioxide (C02) percentage, if greater than one percent	7			
Oxygen (02) percentage, if greater than one percent	0			
If you are venting and/or flaring because of Pipeline Specification, please provide the required speci				
Methane (CH4) percentage quality requirement	Not answered.			
Nitrogen (N2) percentage quality requirement	Not answered.			
Hydrogen Sufide (H2S) PPM quality requirement	Not answered.			
Carbon Dioxide (C02) percentage quality requirement	Not answered.			

Not answered.

Oxygen (02) percentage quality requirement

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 2

Action 502141

QUESTI	ONS (continued)
Operator:	OGRID:
BURK ROYALTY CO., LTD. P.O. Box 94903	3053 Action Number:
Wichita Falls, TX 76308	502141
	Action Type: [C-129] Venting and/or Flaring (C-129)
QUESTIONS	
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	08/31/2025
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	15
Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Power Failure Gas Plant Natural Gas Flared Released: 124 Mcf Recovered: 0 Mcf Lost: 124 Mcf.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.
Is this a gas only submission (i.e. only significant Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.
Venting or Flaring Resulting from Downstream Activity	
Was this vent or flare a result of downstream activity	Yes
Was notification of downstream activity received by this operator	No
Downstream OGRID that should have notified this operator	[712133] STAKEHOLDER MIDSTREAM LLC
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.
Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	True
Please explain reason for why this event was beyond this operator's control	Stakeholder Midstream Campo Viejo experienced a total power outage resulting in both plants to be down.
Steps taken to limit the duration and magnitude of vent or flare	Stakeholder Midstream Campo Viejo experienced a total power outage resulting in both plants to be down.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Stakeholder Midstream Campo Viejo experienced a total power outage resulting in both plants to be down.

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ACKNOWLEDGMENTS

Action 502141

ACKNOWLEDGMENTS

ı	Operator:	OGRID:
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ı	P.O. Box 94903	Action Number:
ı	Wichita Falls, TX 76308	502141
ı		Action Type:
ı		[C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

V	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
V	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
V	I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
V	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
V	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

Action 502141

CONDITIONS

Operator:	OGRID:
BURK ROYALTY CO., LTD.	3053
P.O. Box 94903	Action Number:
Wichita Falls, TX 76308	502141
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By		Condition Date
nwhite01	e01 If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	