

FESCO, Ltd.
1100 Fesco Ave. - Alice, Texas 78332

For: Ameredev Operating, LLC
2901 Via Fortuna
Austin, Texas 78746

Sample: Nandina CTB

Sales Meter Run
Spot Gas Sample @ 78 psig & 96°F

Date Sampled: 06/03/2023

Job Number: 232371.005

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286

Un-Normalized			
COMPONENT	Mol%	MOL%	GPM
Hydrogen Sulfide*	-----	0.160	
Oxygen	0.001	0.001	
Nitrogen	1.194	1.215	
Carbon Dioxide	0.819	0.834	
Methane	75.340	76.658	
Ethane	10.180	10.358	2.836
Propane	5.697	5.797	1.635
Isobutane	0.927	0.943	0.316
n-Butane	2.006	2.041	0.659
2-2 Dimethylpropane	0.008	0.008	0.003
Isopentane	0.571	0.581	0.218
n-Pentane	0.498	0.506	0.188
Hexanes	0.397	0.411	0.173
Heptanes Plus	<u>0.483</u>	<u>0.487</u>	<u>0.198</u>
Totals	98.121	100.000	6.226

Computed Real Characteristics Of Heptanes Plus:

Specific Gravity ----- 3.303 (Air=1)
Molecular Weight ----- 95.30
Gross Heating Value ----- 5111 BTU/CF

Computed Real Characteristics Of Total Sample:

Specific Gravity ----- 0.765 (Air=1)
Compressibility (Z) ----- 0.9960
Molecular Weight ----- 22.07
Gross Heating Value
Dry Basis ----- 1324 BTU/CF
Saturated Basis ----- 1301 BTU/CF

*Hydrogen Sulfide tested on location by: Stain Tube Method (GPA 2377)
Results: 100.6 Gr/100 CF, 1600 PPMV or 0.160 Mol %

Base Conditions: 15.025 PSI & 60 Deg F

Sampled By: (16) D. Field
Analyst: LG
Processor: HB
Cylinder ID: T 6184

Certified: FESCO, Ltd. - Alice, Texas

Conan Pierce 361-661-7015

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286
TOTAL REPORT

COMPONENT	MOL %	GPM	WT %
Hydrogen Sulfide*	0.160		0.247
Oxygen	0.001		0.001
Nitrogen	1.215		1.542
Carbon Dioxide	0.834		1.663
Methane	76.658		55.714
Ethane	10.358	2.836	14.110
Propane	5.797	1.635	11.580
Isobutane	0.943	0.316	2.483
n-Butane	2.041	0.659	5.374
2,2 Dimethylpropane	0.008	0.003	0.026
Isopentane	0.581	0.218	1.899
n-Pentane	0.506	0.188	1.654
2,2 Dimethylbutane	0.007	0.003	0.027
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.046	0.019	0.180
2 Methylpentane	0.130	0.055	0.508
3 Methylpentane	0.081	0.034	0.316
n-Hexane	0.147	0.062	0.574
Methylcyclopentane	0.068	0.025	0.259
Benzene	0.052	0.015	0.184
Cyclohexane	0.069	0.024	0.263
2-Methylhexane	0.018	0.009	0.082
3-Methylhexane	0.022	0.010	0.100
2,2,4 Trimethylpentane	0.012	0.006	0.062
Other C7's	0.043	0.019	0.193
n-Heptane	0.036	0.017	0.163
Methylcyclohexane	0.049	0.020	0.218
Toluene	0.036	0.012	0.150
Other C8's	0.040	0.019	0.200
n-Octane	0.011	0.006	0.057
Ethylbenzene	0.003	0.001	0.014
M & P Xylenes	0.006	0.002	0.029
O-Xylene	0.002	0.001	0.010
Other C9's	0.013	0.007	0.074
n-Nonane	0.002	0.001	0.012
Other C10's	0.004	0.002	0.026
n-Decane	0.001	0.001	0.006
Undecanes (11)	<u>0.000</u>	<u>0.000</u>	<u>0.000</u>
Totals	100.000	6.226	100.000

Computed Real Characteristics of Total Sample

Specific Gravity ----- 0.765 (Air=1)
 Compressibility (Z) ----- 0.9960
 Molecular Weight ----- 22.07

Gross Heating Value

Dry Basis ----- 1324 BTU/CF
 Saturated Basis ----- 1301 BTU/CF

Sample Date: 06/03/2023

Ambient Air Temp: 79 °F

Sample Time: 12:35

Heating Method Utilized: Yes

Analysis Date: 06/10/2023

Sampling Method: Fill & Empty

Analysis Time: 05:44

Device: (GC) S15

Sample Pressure: 78 psig

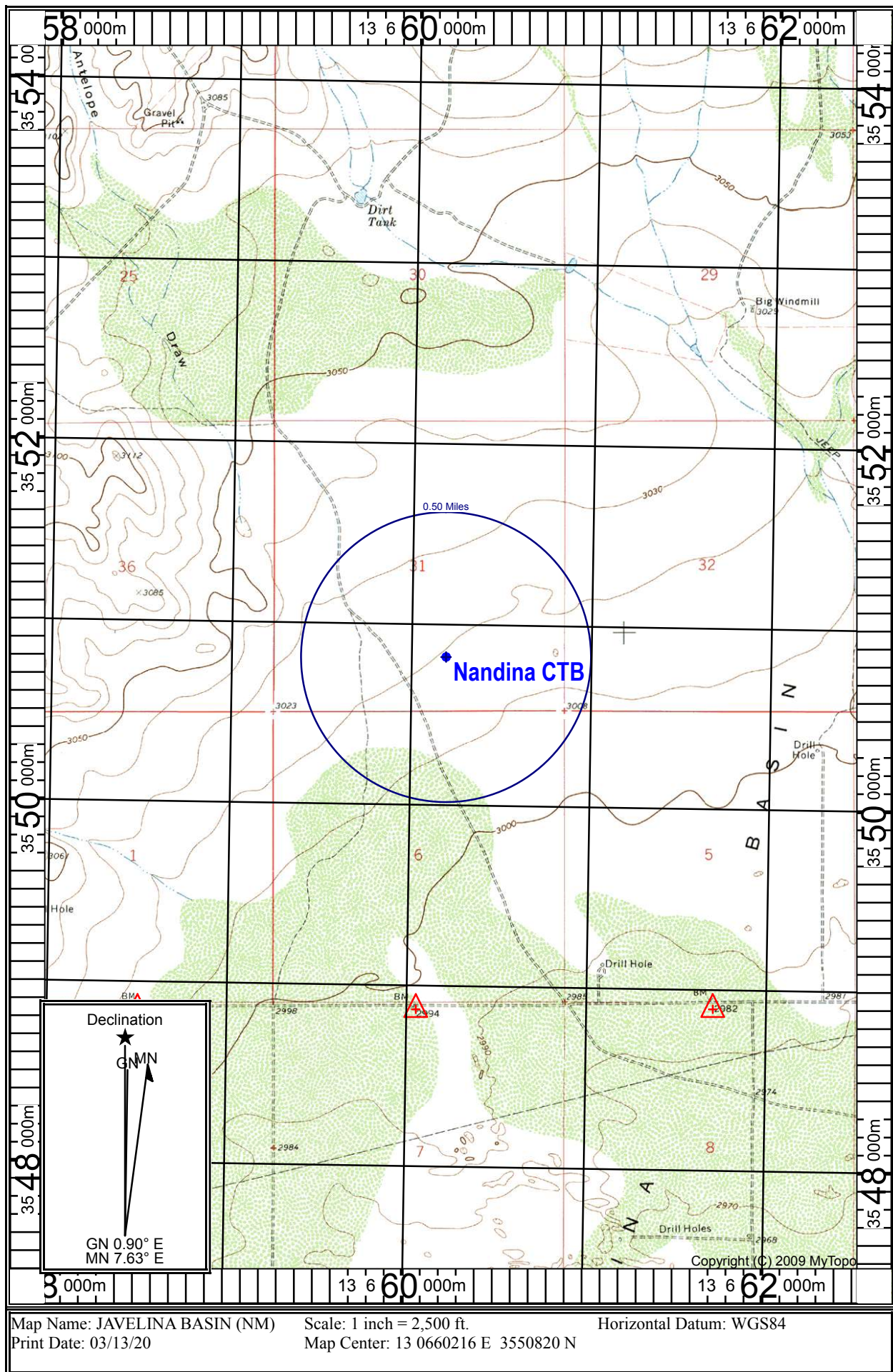
Make & Model: Shimadzu GC 2014

Sample Temp: 96 °F

Last Verification Date: 06/08/2023

Sampling Flow Rate: 3567 MCF/D

Received by OCD: 4/25/2024 4:01:11 PM											Page 3 of 9
Date Flaring Occurred	Location	Flare Source Equipment	Gas Volume (MCF)	Gas Volume reported under 15.025 psi (MCF)	Flared or Vented	Start Time of the flare event	End Time of the flare event	Flare Duration (hr)	C129 Filing Reason		
4/7/2024	Red Bud	HP Flare - VRU Discharge	349.88	343.02	Flared	12:11 AM	6:44 PM	14.51	Flared more than 8 HRs	Tanks have high O2 so they are being purged through the facility flare system	
4/8/2024	Amen Corner	LP Flare Estimation Sheet - Tank Pressure, Valve Status	272.74	267.39	Flared	12:00 AM	3:04 PM	11.92	Flared more than 8 HRs	Sales/Flare blowers were faulting constantly because of high discharge pressure	
4/8/2024	Nan 1.5N	HP Flare	75.84	74.36	Flared	3:15 AM	9:13 PM	0.08	Oxygen	Pinion was having O2/Compressor issues, causing the pipeline to pressure up	
4/8/2024	Nandina	HP Flare - VRU Discharge	299.41	293.54	Flared	4:59 AM	11:53 PM	18.89	Flared more than 8 HRs	Tanks lost pressure yesterday and have had O2 in them. Turning off sales blowers	
4/8/2024	Red Bud	HP Flare - VRU Discharge	56.81	55.70	Flared	12:26 PM	2:15 PM	1.83	Oxygen	Facility was sent manually to flare due to Gila getting O2.	
4/9/2024	Firethorn	Contact Tower	295.80	290.00	Flared	12:03 PM	5:41 PM	3.79	Maintenance	Tank PTs were being serviced so turned off blowers causing tank pressure to drop	
4/9/2024	Nandina	HP Flare - VRU Discharge	243.31	238.54	Flared	12:00 AM	3:33 PM	15.52	Flared more than 8 HRs	Sales blowers were running till midday, before they were switched off because of O2	
4/10/2024	Amen Corner	HP Flare - VRU Discharge	81.24	79.64	Flared	8:00 AM	12:27 PM	4.47	Oxygen	A sales scrubber that was isolated was opened up and sent gas to WH. Caused O2 to get in	
4/10/2024	Amen Corner	LP Flare Estimation Sheet - Tank Pressure, Valve Status	67.84	66.51	Flared	12:03 AM	11:59 PM	5.10	Insufficient Availability	VRT was overpressuring and blowers were going down on high discharge pressure	
4/10/2024	Nan 1.5N	HP Flare	126.73	124.25	Flared	8:10 AM	7:46 PM	0.07	Oxygen	Pinion was having O2/Compressor issues, causing the pipeline to pressure up	
4/10/2024	Nandina	LP Flare Estimation Sheet - Tank Pressure, Valve Status	71.60	70.20	Flared	12:39 AM	11:44 PM	7.69	Oxygen	Sales blowers were turned off so tanks were being purged through the facility flare system	
4/10/2024	Pinestraw	LP Flare Estimation Sheet - Tank Pressure, Valve Status	84.55	82.89	Flared	4:06 AM	11:46 PM	9.06	Flared more than 8 HRs	Sales blowers faulted on VFD several times and tanks were pressured up	
4/11/2024	Amen Corner	LP Flare Estimation Sheet - Tank Pressure, Valve Status	97.37	95.46	Flared	12:00 AM	12:37 PM	7.05	Insufficient Availability	VRT was overpressuring and blowers were going down on high discharge pressure	
4/11/2024	Nan 1.5N	HP Flare	248.00	243.14	Flared	12:16 PM	9:27 PM	0.28	Insufficient Availability	Pinion was having issues and shut in causing pipeline to pressure up and tanks to get O2	
4/11/2024	Nandina	HP Flare - VRU Discharge	53.75	52.70	Flared	5:54 PM	11:50 PM	5.07	Oxygen	Tanks randomly got O2 again causing facility to go to flare. Looking into pinion	
4/11/2024	Nandina	LP Flare Estimation Sheet - Tank Pressure, Valve Status	71.19	69.80	Flared	1:09 AM	11:59 PM	5.89	Oxygen	Sales blowers were off for most of the day to allow O2 to purge from the tanks	
4/11/2024	Pinestraw	LP Flare Estimation Sheet - Tank Pressure, Valve Status	149.58	146.64	Flared	12:01 AM	11:43 PM	12.96	Flared more than 8 HRs	The West blower wafer check valve is bad, causing the blower to fault. VRT was overpressuring	
4/11/2024	Red Bud	HP Flare - VRU Discharge	54.94	53.86	Flared	6:30 PM	11:54 PM	1.92	Oxygen	Random O2 spike happened quickly and caused VRU discharge to go to flare	
4/12/2024	Nandina	HP Flare - VRU Discharge	196.94	193.08	Flared	12:00 AM	8:00 PM	15.86	Flared more than 8 HRs	Tanks were getting O2 spikes throughout the day, causing O2 mitigation to be needed	
4/12/2024	Pinestraw	LP Flare Estimation Sheet - Tank Pressure, Valve Status	131.23	128.66	Flared	12:01 AM	11:35 PM	10.91	Flared more than 8 HRs	Sales blowers were switched off/faulted for the first half of the day, causing O2 to get in	
4/13/2024	Nandina	LP Flare Estimation Sheet - Tank Pressure, Valve Status	172.21	168.83	Flared	12:00 AM	11:57 PM	17.53	Flared more than 8 HRs	Flare blower was purging the O2 from the tanks, causing the flared amount to increase	
4/14/2024	Nandina	LP Flare Estimation Sheet - Tank Pressure, Valve Status	50.53	49.54	Flared	12:10 AM	2:55 PM	6.85	Oxygen	Flare blower was purging the O2 from the tanks. Sales blowers were brought back online	
4/15/2024	Nan 1.5N	HP Flare	60.51	59.32	Flared	9:33 AM	11:03 PM	0.13			
4/15/2024	Nandina	HP Flare - VRU Discharge	57.82	56.69	Flared	12:00 AM	5:08 PM	4.85	Oxygen	One of the tank PTs had a pressure drop, where it went down all the way to 0.5 psi	
4/15/2024	Pinestraw	HP Flare - VRU Discharge	99.62	97.67	Flared	5:31 AM	5:07 PM	11.21	Flared more than 8 HRs	Tanks lost blanketing supply so they lost pressure and got O2 in the tanks	
4/15/2024	Red Bud	HP Flare - VRU Discharge	78.75	77.21	Flared	5:06 PM	11:55 PM	4.07	Oxygen	CR pulled/pushed into the oil tanks with a VAC truck causing O2 to get in	
4/16/2024	Nandina	HP Flare - VRU Discharge	61.19	59.99	Flared	9:11 AM	6:32 PM	4.25	Oxygen	One of the tank PTs had a pressure drop, where it went down all the way to 0.5 psi	
4/16/2024	Nandina	LP Flare Estimation Sheet - Tank Pressure, Valve Status	59.77	58.60	Flared	9:40 PM	11:49 PM	2.68	Insufficient Availability	Blowers went down on permissive due to one tank's pressure dropping below 2 oz	
4/16/2024	Pinestraw	LP Flare Estimation Sheet - Tank Pressure, Valve Status	97.43	95.52	Flared	12:41 AM	11:58 PM	8.64	Flared more than 8 HRs	Blowers are switched off due to blanketing solenoid not functioning. WH was overpressuring	
4/16/2024	Red Bud	HP Flare - VRU Discharge	59.25	58.09	Flared	12:00 AM	4:49 PM	2.02	Oxygen	Residual O2 in the tanks caused by the VAC truck pushing the day before	
4/17/2024	Nan 1.5N	HP Flare	72.64	71.22	Flared	6:35 PM	6:54 PM	0.20			
4/17/2024	Nandina	HP Flare - VRU Discharge	100.99	99.01	Flared	7:27 AM	11:57 PM	6.97	Oxygen	Tanks had residual O2 in them from one of them going into a vacuum so they had to flare	
4/17/2024	Pinestraw	LP Flare Estimation Sheet - Tank Pressure, Valve Status	162.86	159.67	Flared	12:31 AM	11:58 PM	15.84	Flared more than 8 HRs	Blowers are switched off due to blanketing solenoid not functioning. WH was overpressuring	
4/17/2024	Nandina	HP Flare - VRU Discharge	133.01	130.40	Flared	9:10 AM	9:30 PM	3.00	Oxygen	Tanks got O2 because isolated tank hatch was closed by someone, causing O2 to get in	
4/18/2024	Amen Corner	HP Flare - VRU Discharge	89.40	87.65	Flared	10:58 AM	6:00 PM	6.07	Oxygen	Tank pressure did not go below 2 oz but they got O2. Operator had work to do	



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State of New Mexico
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Oil Conservation Division
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DEFINITIONS

Action 337799

DEFINITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 337799
	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.
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QUESTIONS

Action 337799

QUESTIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 337799
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Prerequisites <i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Well	Unavailable.
Incident Facility	[fAPP2203856979] NANDINA

Determination of Reporting Requirements <i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
Was this vent or flare caused by an emergency or malfunction	No
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.
<i>An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.</i>	
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes
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.

Representative Compositional Analysis of Vented or Flared Natural Gas <i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	77
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	1
Oxygen (02) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
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.
Oxygen (02) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 337799

QUESTIONS (continued)

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 337799
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/09/2024
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	03:33 PM
Cumulative hours during this event	16

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Commissioning to Purge Tank (Any) Natural Gas Flared Released: 239 Mcf Recovered: 0 Mcf Lost: 239 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	No
Was notification of downstream activity received by this operator	Not answered.
Downstream OGRID that should have notified this operator	Not answered.
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	Sales blowers were running till midday, before they were switched off because tanks had O2 in them.
Steps taken to limit the duration and magnitude of vent or flare	We choked back the wells to limit production.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	We are working on optimizing both our operation and our modification design.

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ACKNOWLEDGMENTS

Action 337799

ACKNOWLEDGMENTS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 337799
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☒	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.
☒	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.
☒	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.
☒	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.
☒	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 337799

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 337799
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
cscayu	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.	4/25/2024