

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

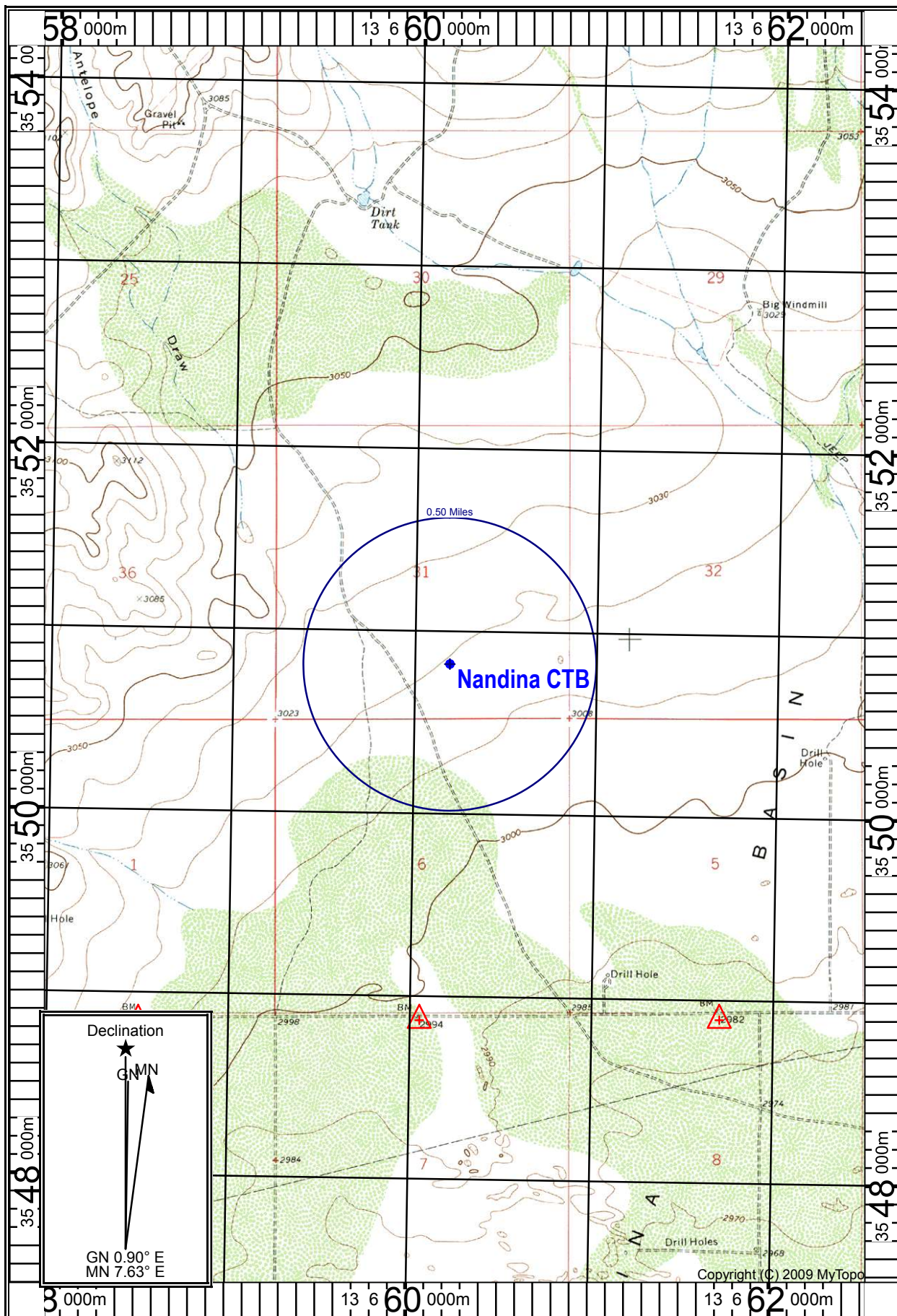
**Last Verification Date:** 06/08/2023

**Sampling Flow Rate:** 3567 MCF/D

4/3/2024	Nandina	HP Flare - VRU Discharge	488.25	Flared	12:00 AM	11:59 PM	18.82	Flared more than 8 HRs	Changed flare amount from 1010 MCF to 488 MCF because the tag was i
4/3/2024	Red Bud	HP Flare - VRU Discharge	229.19	Flared	12:00 AM	11:24 PM	22.51	Flared more than 8 HRs	Tanks have high O2 so they are being purged through the facility flare s
4/4/2024	Nan 1.5N	HP Flare	144.38	Flared	12:02 AM	8:42 PM	0.25	Insufficient Availability	Midstream Company is not able to keep up with our gas so line pressur
4/4/2024	Nandina	HP Flare - VRU Discharge	401.79	Flared	12:01 AM	11:18 PM	15.52	Flared more than 8 HRs	Changed flare amount from 1000 MCF to 401 MCF because the tag was i
4/4/2024	Red Bud	HP Flare - VRU Discharge	245.43	Flared	12:00 AM	11:54 PM	23.24	Flared more than 8 HRs	Tanks have high O2 so they are being purged through the facility flare s
4/5/2024	Red Bud	HP Flare - VRU Discharge	353.81	Flared	12:00 AM	11:55 PM	23.08	Flared more than 8 HRs	Tanks have high O2 so they are being purged through the facility flare s
4/6/2024	Amen Corner	HP Flare	205.00	Flared	2:50 AM	11:13 PM	1.08	Insufficient Availability	Line pressure got to 119+ PSI at one point, causing gas to go to HP Flare
4/6/2024	Amen Corner	LP Flare Estimation Sheet - Tank Pressure, Valve Status	95.70	Flared	1:58 AM	11:40 PM	6.54	Malfunction	Sales/Flare blowers faulting were faulting on high discharge pressure/te
4/6/2024	Nan 1.5N	HP Flare	528.60	Flared	4:06 AM	11:21 PM	0.85	Malfunction	Pinion was going down a lot, so line pressure was getting high and gas b
4/6/2024	Red Bud	HP Flare - VRU Discharge	498.66	Flared	12:00 AM	11:37 PM	22.76	Flared more than 8 HRs	Tanks have high O2 so they are being purged through the facility flare s
4/7/2024	Amen Corner	HP Flare	57.31	Flared	12:15 AM	9:53 PM	0.51	Oxygen	Pinion was having O2/Compressor issues causing line pressure to get h
4/7/2024	Amen Corner	LP Flare Estimation Sheet - Tank Pressure, Valve Status	191.82	Flared	1:58 AM	11:59 PM	10.40	Flared more than 8 HRs	Sales/Flare blowers were faulting constantly because of high discharge
4/7/2024	Firethorn	Contact Tower	54.78	Flared	2:52 AM	9:34 AM	0.68	Insufficient Availability	Blowers were faulting on high discharge because the VRUs were down,
4/7/2024	Nan 1.5N	HP Flare	66.68	Flared	3:19 AM	3:30 PM	0.21	Oxygen	Pinion was having O2/Compressor issues, causing the pipeline to press
4/7/2024	Nandina	HP Flare	236.63	Flared	8:07 AM	10:04 AM	2.00	Oxygen	Pinion was having O2/Compressor issues causing line pressure to get h
4/7/2024	Nandina	HP Flare - VRU Discharge	96.61	Flared	3:55 AM	6:40 PM	10.87	Flared more than 8 HRs	Tanks had a pressure drop and went down close to zero, causing them t
4/7/2024	Red Bud	HP Flare - VRU Discharge	349.88	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 s
4/8/2024	Amen Corner	LP Flare Estimation Sheet - Tank Pressure, Valve Status	272.74	Flared	12:00 AM	3:04 PM	11.92	Flared more than 8 HRs	Sales/Flare blowers were faulting constantly because of high discharge
4/8/2024	Nan 1.5N	HP Flare	75.84	Flared	3:15 AM	9:13 PM	0.08	Oxygen	Pinion was having O2/Compressor issues, causing the pipeline to press
4/8/2024	Nandina	HP Flare - VRU Discharge	299.41	Flared	4:59 AM	11:53 PM	18.89	Flared more than 8 HRs	Tanks lost pressure yeseterday and have had O2 in them. Turning off sa
4/8/2024	Red Bud	HP Flare - VRU Discharge	56.81	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	Flared	12:03 PM	5:41 PM	3.79	Maintenance	Tank PTs were being serviced so turned off blowers causing tank pressu
4/9/2024	Nandina	HP Flare - VRU Discharge	243.31	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

Received by OCD: 4/18/2024 2:10:53 PM

Released to Imaging: 4/18/2024 2:19:47 PM



Map Name: JAVELINA BASIN (NM) Scale: 1 inch = 2,500 ft. Horizontal Datum: WGS84  
 Print Date: 03/13/20 Map Center: 13 0660216 E 3550820 N

**District I**  
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**District II**  
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**District III**  
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 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
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 Phone:(505) 476-3470 Fax:(505) 476-3462

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

DEFINITIONS

Action 335112

**DEFINITIONS**

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 335112
	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 335112

**QUESTIONS**

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224 Action Number: 335112 Action Type: [C-129] Venting and/or Flaring (C-129)
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**QUESTIONS**

<b>Prerequisites</b>	
<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

<b>Determination of Reporting Requirements</b>	
<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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

<b>Equipment Involved</b>	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
<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 (CO2) percentage, if greater than one percent	1
Oxygen (O2) 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 Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 335112

**QUESTIONS (continued)**

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 335112
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/04/2024
Time vent or flare was discovered or commenced	12:01 AM
Time vent or flare was terminated	11:18 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: 402 Mcf   Recovered: 0 Mcf   Lost: 402 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	Facility got a random O2 spike.
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 have a designated personnel just to deal with oxygen issue now, hoping to minimize any flare resulting from oxygen spike.





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ACKNOWLEDGMENTS  
 Action 335112

**ACKNOWLEDGMENTS**

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 335112
	Action Type: [C-129] Venting and/or Flaring (C-129)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	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 <b>complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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 335112

**CONDITIONS**

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 335112
	Action Type: [C-129] Venting and/or Flaring (C-129)

**CONDITIONS**

Created By	Condition	Condition Date
cescayu	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.	4/18/2024