

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

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

**Sample:** Red Bud CTB

Sales Meter Run  
Spot Gas Sample @ 58 psig & 105°F

Date Sampled: 06/03/2023

Job Number: 232371.021

**CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286**

Un-Normalized			
COMPONENT	Mol%	MOL%	GPM
Hydrogen Sulfide*	-----	0.750	
Oxygen	0.002	0.002	
Nitrogen	1.073	1.082	
Carbon Dioxide	1.284	1.294	
Methane	71.998	72.593	
Ethane	10.867	10.956	3.002
Propane	6.678	6.732	1.900
Isobutane	1.184	1.194	0.400
n-Butane	2.613	2.634	0.851
2-2 Dimethylpropane	0.013	0.013	0.005
Isopentane	0.820	0.827	0.310
n-Pentane	0.700	0.706	0.262
Hexanes	0.540	0.575	0.243
Heptanes Plus	<u>0.669</u>	<u>0.642</u>	<u>0.261</u>
Totals	98.441	100.000	7.234

**Computed Real Characteristics Of Heptanes Plus:**

Specific Gravity ----- 3.314 (Air=1)  
Molecular Weight ----- 95.55  
Gross Heating Value ----- 5126 BTU/CF

**Computed Real Characteristics Of Total Sample:**

Specific Gravity ----- 0.815 (Air=1)  
Compressibility (Z) ----- 0.9954  
Molecular Weight ----- 23.49  
Gross Heating Value  
Dry Basis ----- 1384 BTU/CF  
Saturated Basis ----- 1361 BTU/CF

\*Hydrogen Sulfide tested on location by: Stain Tube Method (GPA 2377)  
Results: 471.7 Gr/100 CF, 7500 PPMV or 0.750 Mol %

Base Conditions: 15.025 PSI & 60 Deg F

Sampled By: (16) D. Field  
Analyst: JS  
Processor: HB  
Cylinder ID: T 6112

Certified: FESCO, Ltd. - Alice, Texas

Conan Pierce 361-661-7015

# CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286

## TOTAL REPORT

COMPONENT	MOL %	GPM	WT %
Hydrogen Sulfide*	0.750		1.088
Oxygen	0.002		0.003
Nitrogen	1.082		1.291
Carbon Dioxide	1.294		2.425
Methane	72.593		49.584
Ethane	10.956	3.002	14.027
Propane	6.732	1.900	12.639
Isobutane	1.194	0.400	2.955
n-Butane	2.634	0.851	6.518
2,2 Dimethylpropane	0.013	0.005	0.040
Isopentane	0.827	0.310	2.540
n-Pentane	0.706	0.262	2.169
2,2 Dimethylbutane	0.011	0.005	0.040
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.060	0.025	0.220
2 Methylpentane	0.179	0.076	0.657
3 Methylpentane	0.116	0.048	0.426
n-Hexane	0.209	0.088	0.767
Methylcyclopentane	0.083	0.030	0.297
Benzene	0.058	0.017	0.193
Cyclohexane	0.098	0.034	0.351
2-Methylhexane	0.027	0.013	0.115
3-Methylhexane	0.030	0.014	0.128
2,2,4 Trimethylpentane	0.013	0.007	0.063
Other C7's	0.049	0.022	0.207
n-Heptane	0.049	0.023	0.209
Methylcyclohexane	0.074	0.030	0.309
Toluene	0.052	0.018	0.204
Other C8's	0.050	0.024	0.235
n-Octane	0.014	0.007	0.068
Ethylbenzene	0.004	0.002	0.018
M & P Xylenes	0.011	0.004	0.050
O-Xylene	0.003	0.001	0.014
Other C9's	0.017	0.009	0.091
n-Nonane	0.003	0.002	0.016
Other C10's	0.005	0.003	0.030
n-Decane	0.001	0.001	0.006
Undecanes (11)	<u>0.001</u>	<u>0.001</u>	<u>0.007</u>
Totals	100.000	7.234	100.000

### Computed Real Characteristics of Total Sample

Specific Gravity ----- 0.815 (Air=1)  
 Compressibility (Z) ----- 0.9954  
 Molecular Weight ----- 23.49

### Gross Heating Value

Dry Basis ----- 1384 BTU/CF  
 Saturated Basis ----- 1361 BTU/CF

**Sample Date:** 06/03/2023

**Sample Time:** 15:15

**Analysis Date:** 06/08/2023

**Analysis Time:** 16:58

**Sample Pressure:** 58 psig

**Sample Temp:** 105 °F

**Sampling Flow Rate:** 3204 MCF/D

**Ambient Air Temp:** 85 °F

**Heating Method Utilized:** Yes

**Sampling Method:** Fill & Empty

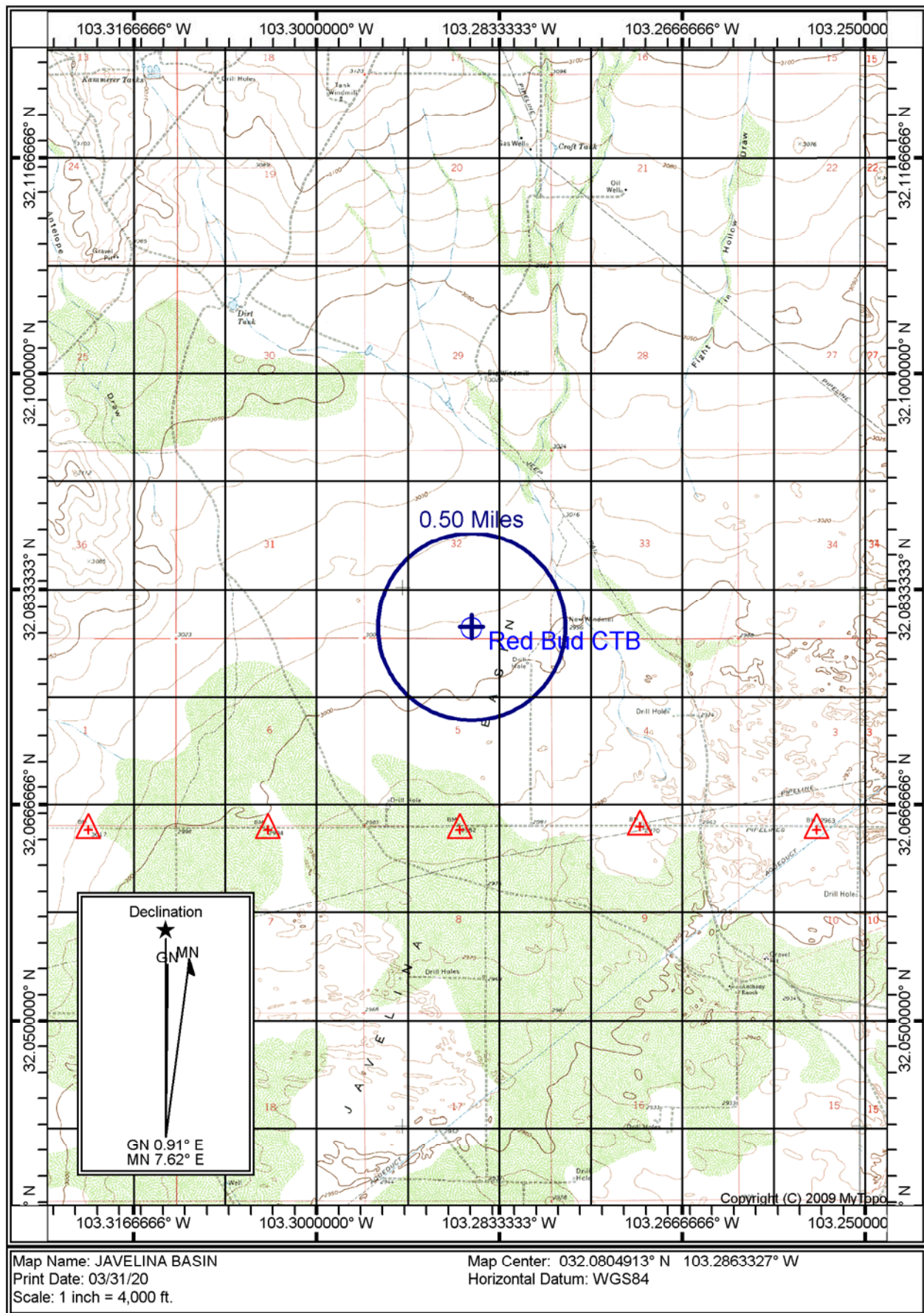
**Device:** (GC) S14

**Make & Model:** Shimadzu GC 2014

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

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	
4/24/2024	Red Bud	HP Flare - VRU Discharge	51.31	50.31	Flared	10:50 AM	12:44 PM	1.75	Oxygen	Tanks have O2 so tanks are being p
4/25/2024	Amen Corner	HP Flare - VRU Discharge	115.06	112.81	Flared	3:20 PM	10:14 PM	7.11	Oxygen	Sales blowers were brought online
4/25/2024	Amen Corner	LP Flare Estimation Sheet - Tank Pressure, Valve Status	121.53	119.15	Flared	12:42 AM	11:59 PM	9.74	Flared more than 8 HRs	South LP flare pilot down due to m
4/25/2024	Nandina	HP Flare	120.44	118.08	Flared	12:54 AM	5:43 PM	0.87	Insufficient Availability	Line pressure got to 122 PSI, causin
4/25/2024	Pinestraw	HP Flare - VRU Discharge	94.48	92.63	Flared	4:24 PM	10:09 PM	5.39	Oxygen	Facility got an O2 spike since sales
4/26/2024	Amen Corner	HP Flare - VRU Discharge	180.86	177.31	Flared	12:05 AM	11:57 PM	11.54	Flared more than 8 HRs	Sales blowers were running and ta
4/26/2024	Amen Corner	LP Flare Estimation Sheet - Tank Pressure, Valve Status	270.52	265.22	Flared	12:00 AM	11:40 PM	21.68	Flared more than 8 HRs	Sales blowers were switched off to
4/26/2024	Pinestraw	HP Flare - VRU Discharge	198.11	194.23	Flared	8:45 AM	11:58 PM	12.37	Flared more than 8 HRs	Blowers were getting O2 spikes du
4/27/2024	Amen Corner	HP Flare - VRU Discharge	375.60	368.23	Flared	12:00 AM	11:30 PM	20.63	Flared more than 8 HRs	Sales blowers were running and ta
4/27/2024	Amen Corner	LP Flare Estimation Sheet - Tank Pressure, Valve Status	52.44	51.42	Flared	8:07 PM	11:59 PM	4.20	Malfunction	Sales blowers were faulting on hig
4/27/2024	Nandina	HP Flare	53.50	52.45	Flared	7:46 AM	11:50 AM	0.52	Insufficient Availability	Line pressure got to 106+ PSI, causi
4/27/2024	Pinestraw	HP Flare - VRU Discharge	103.28	101.25	Flared	12:00 AM	9:43 AM	6.60	Oxygen	Blowers were getting O2 spikes du
4/28/2024	Amen Corner	HP Flare - VRU Discharge	196.42	192.57	Flared	12:00 AM	3:32 PM	15.14	Flared more than 8 HRs	Was still getting O2 spikes from th
4/28/2024	Nan 1.5N	HP Flare	57.01	55.89	Flared	6:11 AM	7:30 PM	0.06	Insufficient Availability	Switched flare pilot downtime to z
4/28/2024	Red Bud	LP Flare Estimation Sheet - Tank Pressure, Valve Status	81.51	79.91	Flared	11:31 AM	11:59 PM	6.34	Emergency	Switched vented volume to zero b
4/29/2024	Red Bud	LP Flare Estimation Sheet - Tank Pressure, Valve Status	85.78	84.10	Flared	12:00 AM	7:55 AM	6.67	Insufficient Availability	VRU pressure control valve was do
5/3/2024	Red Bud	TF - 1 ; LP Flare Estimation Sheet - Tank Pressure, Valve Status	60.92	59.73	Flared	12:16 PM	9:25 PM	0.20		Sales blowers were faulting on hig
5/3/2024	Nandina	FL - 3 ; LP Blower Meter & Vent Line LP Flare Estimation Sheet - Tank Pressure, Valve Status	104.51	102.46	Flared	12:13 AM	11:39 PM	0.38		Power loss caused blowers to fault
5/3/2024	Nan 1.5N	HP Graph Tags - TankLogix	252.58	247.63	Flared	3:50 AM	9:17 PM	0.37		
5/4/2024	Firethorn	FL - 2 - HP - SSM ; HP CT Meter Totalizer	57.12	56.00	Flared	12:59 AM	5:02 PM	0.02		
5/5/2024	Nandina	FL - 3 ; LP Blower Meter & Vent Line LP Flare Estimation Sheet - Tank Pressure, Valve Status	73.26	71.82	Flared	11:29 AM	4:10 PM	0.20	Insufficient Availability	A VRU went down causing VRU inle
5/5/2024	Nan 1.5N	HP Graph Tags - TankLogix	298.76	292.90	Flared	8:59 PM	11:45 PM	0.47	Insufficient Availability	Midstream Company is not able to
5/5/2024	Nandina	HP Graph Tags - TankLogix	57.81	56.68	Flared	4:09 PM	4:28 PM	0.20	Insufficient Availability	Heater was pressured up due to VF
5/5/2024	Nandina	HP Flare - VRU Discharge	107.92	105.80	Flared	3:08 PM	11:48 PM	5.27	Oxygen	O2 spikes caused VRU discharge to
5/7/2024	Nan 1.5N	HP Graph Tags - TankLogix	396.78	389.00	Flared	10:42 AM	12:51 PM	0.47	Insufficient Availability	Midstream company shut in causin





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

DEFINITIONS

Action 344229

DEFINITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 344229
	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: <ul style="list-style-type: none"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul>
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QUESTIONS  
  
Action 344229

QUESTIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 344229
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

<b>Prerequisites</b> Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.	
Incident Well	Unavailable.
Incident Facility	[fAPP2203928043] RED BUD

<b>Determination of Reporting Requirements</b> Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional 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	No
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 venting and/or flaring that is or may be 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
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

<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> Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	73
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	1
Carbon Dioxide (C02) percentage, if greater than one percent	1
Oxygen (O2) percentage, if greater than one percent	0
If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.	
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 (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2  
  
Action 344229

QUESTIONS (continued)

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 344229
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/28/2024
Time vent or flare was discovered or commenced	11:31 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	6

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   Flow Line - Production   Natural Gas Flared   Released: 80 Mcf   Recovered: 0 Mcf   Lost: 80 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	Lost power cause tanks to pressure up and flare from East LP flare.
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	Most power outages are unexpected.





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ACKNOWLEDGMENTS

Action 344229

ACKNOWLEDGMENTS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 344229
	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  
  
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Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 344229
	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.	5/14/2024