

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

Sample Time: 12:35

Analysis Date: 06/10/2023

Analysis Time: 05:44

Sample Pressure: 78 psig

Sample Temp: 96 °F

Sampling Flow Rate: 3567 MCF/D

Ambient Air Temp: 79 °F

Heating Method Utilized: Yes

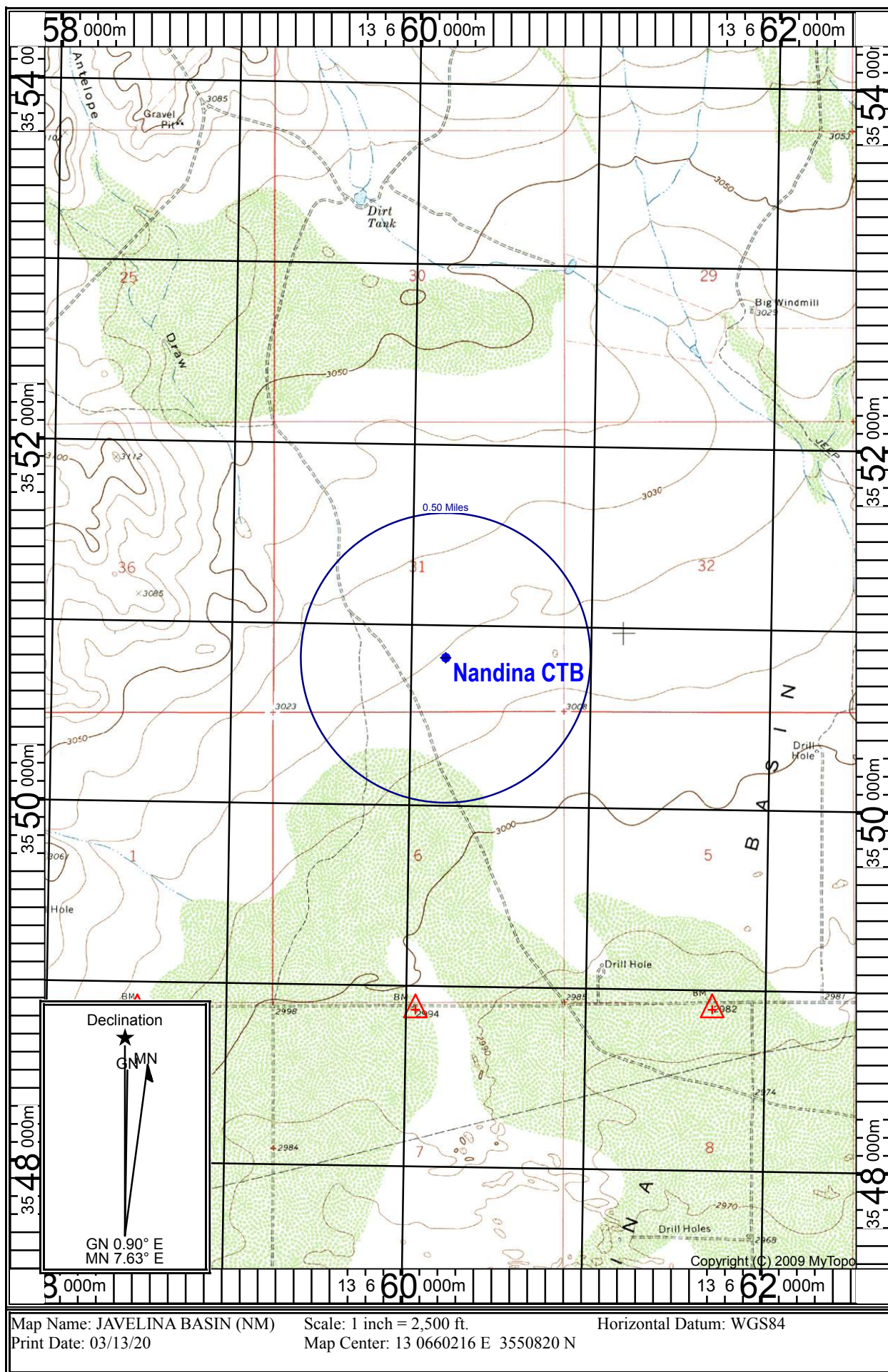
Sampling Method: Fill & Empty

Device: (GC) S15

Make & Model: Shimadzu GC 2014

Last Verification Date: 06/08/2023

Received by OCD: 11/10/2023 8:25:03 AM		Facility #	Date (C-129 Was Filed)	Date (Flaring Discovered)	Date Flaring Occurred	Location	Flare Source Equipment	Gas Volume (MCF)	Flared or Vented	Start Time of the flare event	End Time of the flare event	Flare Duration (hr)	C129 Filing Reason	Page 3 of 9
NA	NA	NA	NA	NA	11/1/2023	Nan 1.5N	HP Flare	462.79	Flared	12:10 AM	5:49 PM	0.50	Malfunction	Pinion went down on plant
NA	NA	NA	NA	NA	11/1/2023	Pinestraw	HP Flare	237.66	Flared	12:48 AM	9:14 PM	6.04	Malfunction	Pinion went down on plant
M6LCU-231110-C-1290	nAPP2331427967	fAPP2203846035	11/10/2023	11/2/2023	11/1/2023	Amen Corner	VRU Discharge	206.34	Flared	12:00 AM	10:19 AM	10.32	Flared more than 8 HRS	Based on the data, the div
NA	NA	NA	NA	NA	11/1/2023	Red Bud	VRU Discharge	98.75	Flared	4:17 AM	4:25 PM	4.68	Repair/Maintenance	Had an o2 spike because a
NA	NA	NA	NA	NA	11/2/2023	Nandina	LP - Vent flare/Blower Flare	87.06	Flared	5:17 AM	5:28 PM	5.72	Malfunction	Heater pressured up and f
NA	NA	NA	NA	NA	11/2/2023	Nan 1.5N	HP Flare	75.78	Flared	2:48 AM	8:40 PM	0.11	Malfunction	Pinion lost power so our li
NA	NA	NA	NA	NA	11/3/2023	Nan 1.5N	HP Flare	167.16	Flared	2:34 AM	11:56 PM	0.19	Malfunction	Pinion lost some units so l
	nAPP2330966821	fAPP2203928043	11/10/2023	11/6/2023	11/3/2023	Red Bud	VRU Discharge	610.22	Flared	3:36 AM	11:57 PM	15.02	Flared more than 8 HRS	We started getting high O
	nAPP2330967245	fAPP2304126884	11/10/2023	11/6/2023	11/4/2023	Nan 1.5N	HP Flare	631.56	Flared	1:43 AM	5:33 PM	0.99	Malfunction	Pinion was having foaming
NA	NA	NA	NA	NA	11/4/2023	Pinestraw	HP Flare	87.70	Flared	1:36 AM	11:25 PM	3.10	Malfunction	Pinion was having foaming
NA	NA	NA	NA	NA	11/4/2023	Red Bud	LP - Vent flare/Blower Flare	62.18	Flared	12:00 AM	11:52 PM	4.72	Malfunction	Based on the EHS summar
	nAPP2330967046	fAPP2203928043	11/10/2023	11/6/2023	11/4/2023	Red Bud	VRU Discharge	665.62	Flared	12:00 AM	11:52 PM	17.48	Flared more than 8 HRS	North heater had high O2
NA	NA	NA	NA	NA	11/5/2023	Nan 1.5N	HP Flare	258.21	Flared	12:16 AM	3:36 PM	0.26	Malfunction	Pinion was having foaming
NA	NA	NA	NA	NA	11/5/2023	Pinestraw	HP Flare	75.58	Flared	12:18 AM	4:11 PM	3.43	Malfunction	Pinion was having foaming
TIOLF-231110-C-1290	nAPP2331428838	fAPP2203928043	11/10/2023	11/6/2023	11/5/2023	Red Bud	VRU Discharge	385.74	Flared	12:20 AM	10:55 PM	8.42	Flared more than 8 HRS	We had an O2 spike aroun
JWIMN-231110-C-1290	nAPP2331429675	fAPP2203927141	11/10/2023	11/7/2023	11/6/2023	Pinestraw	VRU Discharge	211.93	Flared	12:42 PM	11:58 PM	8.77	Flared more than 8 HRS	We had an O2 spike that s
NA	NA	NA	NA	NA	11/6/2023	Red Bud	VRU Discharge	269.40	Flared	10:16 AM	9:42 PM	5.42	Oxygen	We had an O2 spike that s
NA	NA	NA	NA	NA	11/6/2023	Pinestraw	LP - Vent flare/Blower Flare	50.96	Flared	2:39 AM	4:38 PM	0.16	Malfunction	VRUs would go down on lo
NA	NA	NA	NA	NA	11/6/2023	Nan 1.5N	HP Flare	147.49	Flared	12:00 AM	1:02 PM	0.03	Malfunction	High line pressure around
NA	NA	NA	NA	NA	11/7/2023	Nandina	HP Flare	54.44	Flared	12:34 PM	7:20 PM	0.70	Malfunction	Facility Flare set points we
NA	NA	NA	NA	NA	11/7/2023	Pinestraw	VRU Discharge	182.80	Flared	12:00 AM	7:48 AM	7.82	Oxygen	Flaring started on the 6th a
NA	NA	NA	NA	NA	11/7/2023	Nan 1.5N	HP Flare	105.23	Flared	12:48 PM	1:15 PM	0.17	Malfunction	Facility Flare set points we
NA	NA	NA	NA	NA	11/8/2023	Pinestraw	LP - Vent flare/Blower Flare	85.14	Flared	12:00 AM	11:59 PM	0.31	Malfunction	Flared throughout the day
NA	NA	NA	NA	NA	11/8/2023	Nandina	LP - Vent flare/Blower Flare	87.41	Flared	12:02 AM	11:32 PM	0.26	Malfunction	Blowers were all turned o
		fAPP2203856979	11/10/2023	11/9/2023	11/8/2023	Nandina	VRU Discharge	376.42	Flared	3:06 AM	7:58 PM	13.25	Flared more than 8 HRS	Hila got hit with oxygen, V
Released to Imaging: 11/10/2023 8:36:59 AM		NA	NA	NA	11/8/2023	Red Bud	VRU Discharge	289.21	Flared	11:57 AM	7:33 PM	7.62	Oxygen	Hila got hit with oxygen, V
	nAPP2331344316	fAPP2304126884	11/10/2023	11/9/2023	11/8/2023	Nan 1.5N	HP Flare	777.24	Flared	11:20 AM	3:12 PM	1.17	Oxygen	Hila got hit with O2, had to



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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

DEFINITIONS

Action 284528

DEFINITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 284528
	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">• 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 284528

QUESTIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 284528
	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 within 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 (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 284528

QUESTIONS (continued)

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 284528
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	11/08/2023
Time vent or flare was discovered or commenced	03:06 AM
Time vent or flare was terminated	07:58 PM
Cumulative hours during this event	13

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 Flow Line - Production Natural Gas Flared Released: 376 Mcf Recovered: 0 Mcf Lost: 376 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	Hila got hit with oxygen, VRUs were sent to flares
Steps taken to limit the duration and magnitude of vent or flare	Choked back the wells to limit production.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Dedicate more personnel to tackle oxygen issues, hoping to reduce some flaring in the future.

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ACKNOWLEDGMENTS

Action 284528

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Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 284528
	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 complete 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 284528

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 284528
	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.	11/10/2023