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	0.483	0.487	0.198
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)	0.000	0.000	0.000
Totals	100.000	6.226	100.000

Computed Real Characteristics of Total Sample

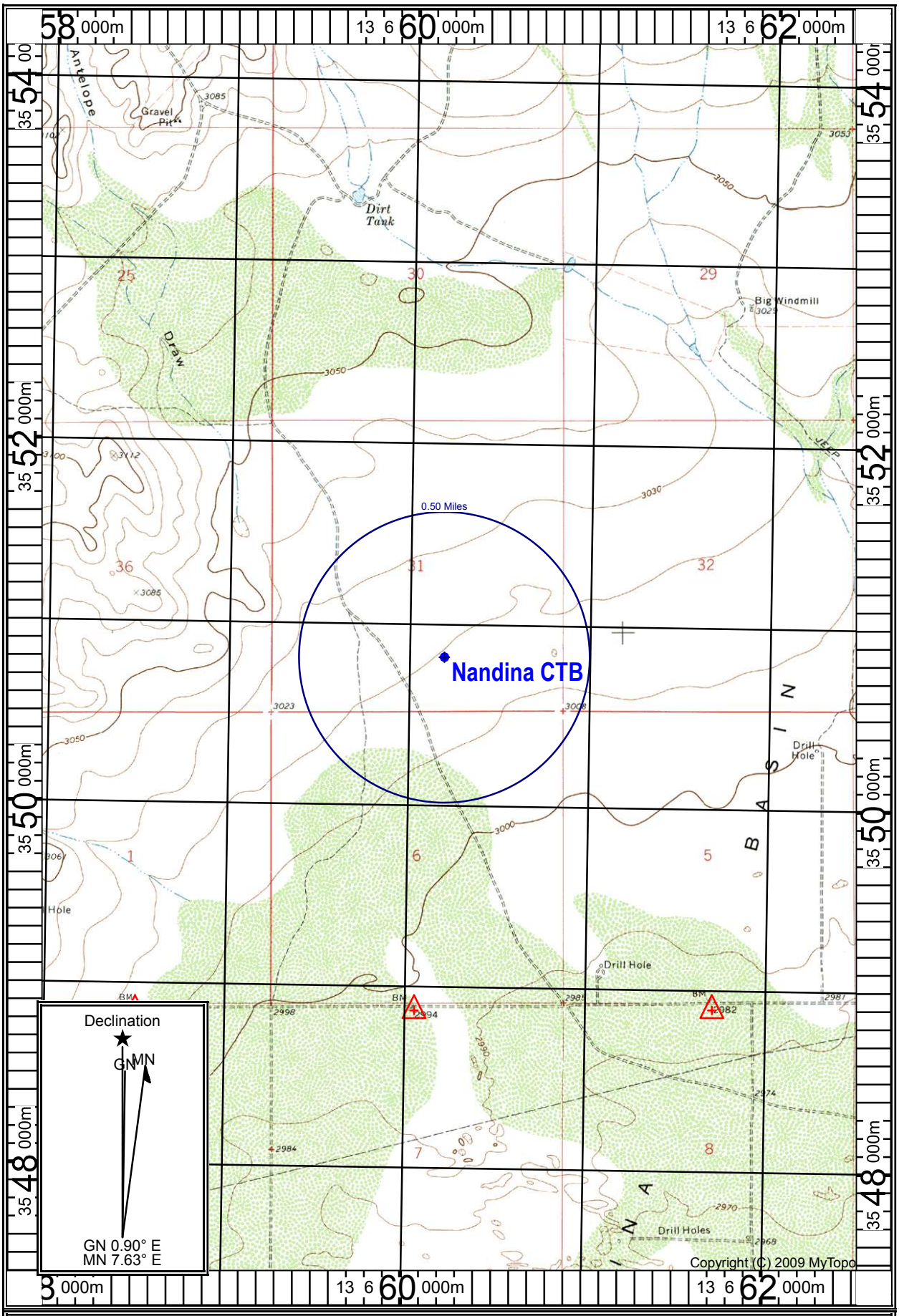
Specific Gravity	0.765	(Air=1)
Compressibility (Z)	0.9960	
Molecular Weight	22.07	

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		

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 si
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 p
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 pressu
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 yeseterday and have had O2 in them. Turning off sal
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	Maintanence	Tank PTs were being serviced so turned off blowers causing tank pressu
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 b
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. C
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
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 pressu
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 throught the
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
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
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 p
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
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. V
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 fl
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
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, cau
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 amou
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 bro
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
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 tank
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
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 l
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. We
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
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. We
4/18/2024	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, causin
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 worke



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
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 338126
	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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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

QUESTIONS

Action 338126

QUESTIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 338126
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Prerequisites	
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	**[fAPP2203856979] NANDINA**

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional guidance.	
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.**
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

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	
Please provide the mole percent for the percentage questions in this group.	
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
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 (02) percentage quality requirement	*Not answered.*

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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

QUESTIONS (continued)

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 338126
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/13/2024
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	11:57 PM
Cumulative hours during this event	18

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: 169 Mcf | Recovered: 0 Mcf | Lost: 169 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	Flare blower was purging the O2 from the tanks, causing the flared amount.
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 team in control room to work with operator, so that reaction time can be shorten.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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

ACKNOWLEDGMENTS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 338126
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit a *Venting and/or Flaring* (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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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

CONDITIONS

Action 338126

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 338126
	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.	4/26/2024