

**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-6194

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: 2/1/2024 9:25:36 AM Facility #		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 8
NA	NA	1/18/2024	1/1/2024	Red Bud	VRU Discharge	74.05	Flared	12:00 AM	11:21 AM	7.17	Oxygen	Facility was getting O2 spikes from the tank
FAPP2203927141	1/19/2024	1/18/2024	1/5/2024	Red Bud	LP - Vent flare/Blower Flare	104.68	Flared	12:01 AM	11:56 PM	14.70	Flared more than 8 HRs	Sales blowers were switched off due to high
FAPP2203855966		1/22/2024	1/10/2024	Firethorn	LP Flare Estimation Sheet - Contact Tower	88.04	Flared	12:01 AM	6:52 PM	15.88	Flared more than 8 HRs	Contact Tower ACI VRUs were having volta
FAPP2203855966		1/22/2024	1/11/2024	Firethorn	LP Flare Estimation Sheet - Contact Tower	128.26	Flared	1:56 PM	5:47 PM	2.37	Malfunction	Contact Tower ACI VRUs were having volta
FAPP2203855966		1/22/2024	1/12/2024	Firethorn	LP Flare Estimation Sheet - Contact Tower	324.20	Flared	10:08 AM	5:15 PM	6.28	Malfunction	Contact Tower ACI VRUs were having volta
FAPP2203855966		1/22/2024	1/14/2024	Firethorn	LP Flare Estimation Sheet - Contact Tower	365.25	Flared	8:17 AM	10:03 PM	5.68	Malfunction	Contact Tower ACI VRUs were having volta
FAPP2203855966		1/22/2024	1/15/2024	Firethorn	LP Flare Estimation Sheet - Contact Tower	282.11	Flared	10:19 AM	5:59 PM	4.60	Malfunction	Contact Tower ACI VRUs were having volta
FAPP2203855966	1/17/2024	1/17/2024	1/16/2024	Firethorn	LP Flare Estimation Sheet - Contact Tower	520.34	Flared	8:38 AM	7:00 PM	7.43	Malfunction	Contact Tower ACI VRUs were having volta
FAPP2203855966	1/18/2024	1/18/2024	1/17/2024	Firethorn	LP Flare Estimation Sheet - Contact Tower	635.06	Flared	5:47 AM	8:27 PM	10.42	Flared more than 8 HRs	Contact Tower ACI VRUs were having volta
FAPP2203856979		1/22/2024	1/17/2024	Nandina	LP Flare Estimation Sheet - Tank Pressure, Valve Status	77.81	Flared	9:04 AM	10:06 PM	3.23	Malfunction	Control Room opened up production and V
FAPP2203855966		1/22/2024	1/18/2024	Firethorn	LP Flare Estimation Sheet - Contact Tower	428.17	Flared	7:24 AM	4:39 PM	8.72	Flared more than 8 HRs	Contact Tower ACI VRUs were having volta
NA	NA	1/19/2024	1/18/2024	Nandina	HP Flare	119.69	Flared	12:36 AM	11:12 PM	5.62	Oxygen	Control Room has been purging the vessels
FAPP2203856979	1/19/2024	1/19/2024	1/18/2024	Nandina	VRU Discharge	621.06	Flared	12:01 AM	11:53 PM	23.99	Flared more than 8 HRs	Control Room has been purging the vessels
FAPP2203855966		1/22/2024	1/19/2024	Firethorn	LP Flare Estimation Sheet - Contact Tower	68.43	Flared	8:06 AM	9:12 AM	1.02	Malfunction	Contact Tower ACI VRUs were having volta
FAPP2203856979		1/22/2024	1/19/2024	Nandina	HP Flare	271.06	Flared	12:12 AM	11:23 PM	12.31	Flared more than 8 HRs	Control Room has been purging the vessels
FAPP2203856979		1/22/2024	1/19/2024	Nandina	VRU Discharge	315.22	Flared	12:00 PM	11:59 PM	24.00	Flared more than 8 HRs	Control Room has been purging the vessels
FAPP2304126884		1/22/2024	1/19/2024	Nan 1.5N	HP Flare	92.73	Flared	1:32 AM	6:39 PM	0.19	Malfunction	ETC was having issues, causing line pressur
FAPP2203855966		1/22/2024	1/20/2024	Firethorn	LP Flare Estimation Sheet - Contact Tower	114.57	Flared	8:14 AM	10:10 AM	1.95	Malfunction	ACI VRUs faulted on low discharge over nig
FAPP2203856979		1/22/2024	1/20/2024	Nandina	HP Flare	209.25	Flared	12:23 AM	1:17 PM	11.24	Flared more than 8 HRs	Control Room has been purging the vessels
FAPP2203856980		1/22/2024	1/20/2024	Nandina	VRU Discharge	449.65	Flared	12:00 AM	11:05 PM	22.40	Flared more than 8 HRs	Control Room has been purging the vessels
FAPP2203856981		1/22/2024	1/21/2024	Nandina	HP Flare	139.69	Flared	9:12 AM	11:51 PM	11.90	Flared more than 8 HRs	Separators are being purged for high O2.
FAPP2203856982	1/22/2024	1/22/2024	1/21/2024	Nandina	VRU Discharge	607.41	Flared	12:00 AM	11:48 PM	23.99	Flared more than 8 HRs	Facility is purging O2 since vessels are bein
FAPP2203856983		1/23/2024	1/22/2024	Nandina	HP Flare	192.38	Flared	12:51 AM	7:58 PM	10.85	Flared more than 8 HRs	Separators are being purged for high O2.
FAPP2203856984		1/23/2024	1/22/2024	Nandina	VRU Discharge	451.98	Flared	12:00 AM	6:27 PM	17.47	Flared more than 8 HRs	Facility is purging O2 since vessels are bein
NA	NA	1/23/2024	1/22/2024	Red Bud	VRU Discharge	87.38	Flared	10:07 AM	11:39 AM	3.32	Oxygen	Sales blowers were turned on which cause

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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 310354

DEFINITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 310354
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

DEFINITIONS

<p>For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:</p> <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 310354

QUESTIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 310354
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 ID (n#)	Unavailable.
Incident Name	Unavailable.
Incident Type	Flare
Incident Status	Unavailable.
Incident Facility	[fAPP2203856979] NANDINA
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.	

<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	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, major 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 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> 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 (CO2) 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 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 310354

QUESTIONS (continued)

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 310354
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/18/2024
Time vent or flare was discovered or commenced	12:01 AM
Time vent or flare was terminated	11:53 PM
Cumulative hours during this event	24

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: 621 Mcf   Recovered: 0 Mcf   Lost: 621 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	
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	Control Room has been purging the vessels since they were serviced and 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 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 310354

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	Action Number: 310354
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
<input checked="" type="checkbox"/>	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
<input checked="" type="checkbox"/>	I hereby certify the statements in this amending 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 310354

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 310354
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

CONDITIONS

Created By	Condition	Condition Date
cescayu	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	2/1/2024