

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

Received by OCD: 11/6/2023 3:42:29 PM

PGPBE-231102-C-1290	nAPP2330454556	fAPP2304126884	11/2/2023	10/31/2023	10/30/2023	Nan 1.5N	HP Flare	887.34	Flared	5:04 AM	5:34 PM	1.34	Repair/Maintenance	Pinion shut us in for high O2 so lin
	nAPP2330454845	fAPP2203856979	11/2/2023	10/31/2023	10/30/2023	Nandina	HP Flare	1283.81	Flared	4:54 AM	6:51 PM	8.41	Flared more than 8 HRs	Pinion shut us in for high O2 so lin
	nAPP2330455106	fAPP2203856979	11/2/2023	10/31/2023	10/30/2023	Nandina	VRU Discharge	764.88	Flared	12:01 AM	11:56 PM	24.00	Flared more than 8 HRs	Gas was being sent to flare to purg
	nAPP2330648476	fAPP2203927141	11/2/2023	10/31/2023	10/30/2023	Pinestraw	HP Flare	118.87	Flared	12:42 AM	5:48 PM	10.94	Flared more than 8 HRs	We were sending facility gas to HF
	nAPP2330455322	fAPP2203928043	11/2/2023	10/31/2023	10/30/2023	Red Bud	VRU Discharge	998.56	Flared	12:00 AM	11:07 PM	23.98	Flared more than 8 HRs	Gas was being sent to flare to purg
	nAPP2330650476	fAPP2203846035	11/2/2023	11/1/2023	10/31/2023	Amen Corner	HP Flare	264.81	Flared	8:58 AM	11:09 PM	1.24	Emergency	Pinion lost power so our line pres
	nAPP2330651676	fAPP2203846035	11/2/2023	11/1/2023	10/31/2023	Amen Corner	VRU Discharge	169.68	Flared	12:00 AM	8:29 AM	8.48	Flared more than 8 HRs	Flare amount is an estimate since
	nAPP2330653027	fAPP2304126884	11/2/2023	11/1/2023	10/31/2023	Nan 1.5N	HP Flare	177.53	Flared	9:04 AM	11:58 PM	0.24	Emergency	Pinion lost power so our line pres
	nAPP2330558021	fAPP2203856979	11/2/2023	11/1/2023	10/31/2023	Nandina	HP Flare	553.94	Flared	3:05 AM	11:38 PM	4.32	Emergency	Pinion lost power so our line pres
	nAPP2330653707	fAPP2203856979	11/2/2023	11/1/2023	10/31/2023	Nandina	VRU Discharge	274.58	Flared	12:01 AM	11:25 AM	11.17	Flared more than 8 HRs	Gas was being sent to flare to purg
9POTJ-231102-C-1290	nAPP2330655549	fAPP2203927141	11/2/2023	11/1/2023	10/31/2023	Pinestraw	HP Flare	88.75	Flared	8:18 AM	11:47 PM	2.94	Emergency	Pinion lost power so our line pres
	nAPP2330558143	fAPP2203928043	11/2/2023	11/1/2023	10/31/2023	Red Bud	VRU Discharge	616.21	Flared	12:00 AM	3:25 PM	15.43	Flared more than 8 HRs	Gas was being sent to flare to purg
			11/2/2023	11/1/2023	Amen Corner	HP Flare	308.69					2.46		Pinion went down on plant ESD so
			11/2/2023	11/1/2023	Nan 1.5N	HP Flare	462.79					0.50		
			11/2/2023	11/1/2023	Pinestraw	HP Flare	237.66					6.04		Pinion went down on plant ESD so
			11/2/2023	11/1/2023	Amen Corner	VRU Discharge	206.34					10.32	Flared more than 8 HRs	Based on the data, the divert valve
			11/2/2023	11/1/2023	Red Bud	VRU Discharge	98.75					4.68		Had an o2 spike because analyzer
			11/3/2023	11/2/2023	Nandina	LP - Vent flare/Blower Flare	87.06					5.72		
			11/3/2023	11/2/2023	Nan 1.5N	HP Flare	75.78					0.11		
			11/6/2023	11/3/2023	Nan 1.5N	HP Flare	167.16					0.19		Pinion lost some units so line pres
			11/6/2023	11/3/2023	Red Bud	VRU Discharge	610.22					15.02		We started getting high O2 around
			11/6/2023	11/4/2023	Nan 1.5N	HP Flare	631.56					0.99		Pinion was having foaming issues
			11/6/2023	11/4/2023	Pinestraw	HP Flare	87.70					3.10		Pinion was having foaming issues
			11/6/2023	11/4/2023	Red Bud	LP - Vent flare/Blower Flare	62.18					4.72		Based on the EHS summary and da
			11/6/2023	11/4/2023	Red Bud	VRU Discharge	665.62					17.48		North heater had high O2 and the
			11/6/2023	11/5/2023	Nan 1.5N	HP Flare	258.21					0.26		Pinion was having foaming/compr
			11/6/2023	11/5/2023	Pinestraw	HP Flare	75.58					3.43		
			11/6/2023	11/5/2023	Red Bud	VRU Discharge	385.74					8.42		We had an O2 spike around midni

Released to Imaging: 11/6/2023 3:46:36 PM

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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 283204

DEFINITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 283204
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 283204

QUESTIONS

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	Action Number: 283204
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 Operator	[372224] AMEREDEV OPERATING, LLC
Incident Type	Flare
Incident Status	Closure Not Approved
Incident Well	Unavailable.
Incident Facility	[fAPP2203856979] Nandina
<i>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.</i>	

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, major 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 283204

QUESTIONS (continued)

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 283204
	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	10/30/2023
Time vent or flare was discovered or commenced	04:54 AM
Time vent or flare was terminated	06:51 PM
Cumulative hours during this event	8

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Midstream Scheduled Maintenance Tank (Any) Natural Gas Flared Released: 1,284 Mcf Recovered: 0 Mcf Lost: 1,284 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	All facility gas was sent to flare to purge off O2 from our vessels.
Steps taken to limit the duration and magnitude of vent or flare	Our midstream provider shut in. The facility was under maintenance.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Our midstream provider shut in so that we also shut in for maintenance.

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ACKNOWLEDGMENTS

Action 283204

ACKNOWLEDGMENTS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 283204
	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 283204

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	Action Number: 283204
	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.	11/6/2023