June 16, 2023

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	0.669	0.642	0.261
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-6113

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)	0.001	0.001	0.007
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

11/17/2023	11/16/2023	Red Bud	VRU Discharge	134.55	Flared	12:00 AM	4:16 PM	4.95	Oxygen	VAC truck pushed into the tanks which triggered the O2 mitig
11/17/2023	11/16/2023	Nan 1.5N	HP Flare	163.33	Flared	3:54 PM	7:42 PM	0.45	Insufficient Availability	Pinion was shut in so line pressure got high and gas had to be
11/18/2023	11/17/2023	Nandina	LP - Vent flare/Blower Flare	77.53	Flared	4:36 AM	8:46 AM	0.23	Repair/Maintenance	Oxygen analyzer was serviced.
11/18/2023	**11/17/2023**	**Pinestraw**	**VRU Discharge**	**409.05**	**Flared**	**2:38 AM**	**11:48 PM**	**19.37**	**Flared more than 8 HRs**	**Getting large O2 spikes so currently flaring to purge tanks**
11/18/2023	**11/17/2023**	**Red Bud**	**VRU Discharge**	**523.35**	**Flared**	**6:13 AM**	**10:48 PM**	**11.85**	**Flared more than 8 HRs**	**Hila got hit with oxygen, VRUs were sent to flares**
11/19/2023	11/18/2023	Nandina	LP - Vent flare/Blower Flare	57.58	Flared	1:35 PM	11:52 PM	0.17	Oxygen	O2 tested heater 2 and brought it back online. O2 spike a cou
11/19/2023	**11/18/2023**	**Nandina**	**VRU Discharge**	**196.73**	**Flared**	**1:06 PM**	**11:16 PM**	**10.95**	**Flared more than 8 HRs**	**Hila got hit with oxygen, VRUs were sent to flares**
11/19/2023	11/18/2023	Pinestraw	VRU Discharge	101.36	Flared	12:00 AM	3:02 AM	2.82	Oxygen	Getting large O2 spikes so currently flaring to purge tanks
11/20/2023	11/19/2023	Nandina	LP - Vent flare/Blower Flare	52.08	Flared	12:05 AM	10:56 AM	0.16	Malfunction	Blower Faulted on High Discharge, VRUs reset, returned to sa
11/20/2023	11/19/2023	Amen Corner	VRU Discharge	148.01	Flared	12:00 AM	7:24 AM	7.40	Oxygen	O2 issues at Hila, all facilities were sent to flare, TOPs VRU m
11/20/2023	11/19/2023	Nandina	VRU Discharge	59.83	Flared	12:03 AM	5:06 AM	3.55	Oxygen	Hila got hit with oxygen, VRUs were sent to flares
11/21/2023	**11/20/2023**	**Amen Corner**	**VRU Discharge**	**182.35**	**Flared**	**12:00 AM**	**11:33 PM**	**9.12**	**Flared more than 8 HRs**	**O2 issues at Hila, all facilities were sent to flare, TOPs VRU r**
11/21/2023	11/20/2023	Nandina	VRU Discharge	55.61	Flared	5:48 AM	11:00 AM	5.37	Oxygen	Hila got hit with oxygen, VRUs were sent to flares
11/21/2023	11/20/2023	Pinestraw	VRU Discharge	70.07	Flared	5:51 AM	9:15 AM	3.45	Oxygen	Hila got hit with oxygen, VRUs were sent to flares
11/21/2023	**11/20/2023**	**Red Bud**	**VRU Discharge**	**467.02**	**Flared**	**5:52 AM**	**5:21 PM**	**11.50**	**Flared more than 8 HRs**	**Hila got hit with oxygen, VRUs were sent to flares**
11/22/2023	11/21/2023	Pinestraw	VRU Discharge	95.61	Flared	11:44 AM	3:55 PM	4.33	Oxygen	Oxygen detected VRUs sent to flare
11/23/2023	**11/22/2023**	**Amen Corner**	**VRU Discharge**	**192.05**	**Flared**			**20.95**	**Flared more than 8 HRs**	**Getting large O2 spikes so currently flaring to purge tanks**
11/23/2023	11/22/2023	Red Bud	HP Flare	123.98	Flared			2.63	Insufficient Availability	Facility over pressured, CTB Flare turned on, Facility flare bac
11/23/2023	11/22/2023	Red Bud	VRU Discharge	80.76	Flared			2.50	Oxygen	Oxygen detected VRUs sent to flare
11/23/2023	11/22/2023	Nan 1.5N	HP Flare	329.35	Flared			0.62	Insufficient Availability	Pinion was shut in so line pressure got high and gas had to be
11/24/2023	**11/23/2023**	**Amen Corner**	**VRU Discharge**	**330.32**	**Flared**			**24.00**	**Flared more than 8 HRs**	**Getting large O2 spikes so currently flaring to purge tanks**

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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

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 290467
	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 290467

QUESTIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 290467
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 ID (n#)	*Unavailable.*
Incident Name	*Unavailable.*
Incident Type	**Flare**
Incident Status	*Unavailable.*
Incident Facility	**[fAPP2203928043] Red Bud**
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.	

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, 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 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	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 (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.*

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QUESTIONS (continued)

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 290467
	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	11/17/2023
Time vent or flare was discovered or commenced	06:13 AM
Time vent or flare was terminated	10:48 PM
Cumulative hours during this event	12

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: 523 Mcf | Recovered: 0 Mcf | Lost: 523 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	Hila got hit with oxygen, VRUs were sent to flares.
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 dedicate more personnel to tackle oxygen issues.

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ACKNOWLEDGMENTS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 290467
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

ACKNOWLEDGMENTS

☑	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.
☑	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.
☑	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.
☑	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.

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CONDITIONS

Action 290467

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 290467
	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.	12/2/2023