

**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	<u>0.669</u>	<u>0.642</u>	<u>0.261</u>
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)	<u>0.001</u>	<u>0.001</u>	<u>0.007</u>
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

NA Received by OCD: 12/6/2023 3:12:19 PM	NA	NA	11/6/2023	11/3/2023	Nan 1.5N	HP Flare	167.16	Flared	2:34 AM	11:56 PM	
4T-231110-C-129A	nAPP2330966821	fAPP2203928043	11/10/2023	11/6/2023	11/3/2023	Red Bud	VRU Discharge	649.01	Flared	3:36 AM	11:57 PM
2-231110-C-129A	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
NA	NA	NA	NA	11/6/2023	11/4/2023	Pinestraw	HP Flare	87.70	Flared	1:36 AM	11:25 PM
NA	NA	NA	NA	11/6/2023	11/4/2023	Red Bud	LP - Vent flare/Blower Flare	62.18	Flared	12:00 AM	11:52 PM
4HM-231110-C-129A	nAPP2330967046	fAPP2203928043	11/10/2023	11/6/2023	11/4/2023	Red Bud	VRU Discharge	659.81	Flared	12:00 AM	11:52 PM
NA	NA	NA	NA	11/6/2023	11/5/2023	Nan 1.5N	HP Flare	258.21	Flared	12:16 AM	3:36 PM
NA	NA	NA	NA	11/6/2023	11/5/2023	Pinestraw	HP Flare	75.58	Flared	12:18 AM	4:11 PM
5F-231110-C-1290	nAPP2331428838	fAPP2203928043	11/10/2023	11/6/2023	11/5/2023	Red Bud	VRU Discharge	352.83	Flared	12:20 AM	10:55 PM
NA	NA	NA	NA	11/7/2023	11/6/2023	Nan 1.5N	HP Flare	147.49	Flared	12:00 AM	1:02 PM
NA	NA	NA	NA	11/7/2023	11/6/2023	Pinestraw	LP - Vent flare/Blower Flare	50.96	Flared	2:39 AM	4:38 PM
6MN-231110-C-1290	nAPP2331429675	fAPP2203927141	11/10/2023	11/7/2023	11/6/2023	Pinestraw	VRU Discharge	252.06	Flared	12:42 PM	11:58 PM
NA	NA	NA	NA	11/7/2023	11/6/2023	Red Bud	VRU Discharge	269.40	Flared	10:16 AM	9:42 PM
NA	NA	NA	NA	11/8/2023	11/7/2023	Nandina	HP Flare	54.44	Flared	12:34 PM	7:20 PM
NA	NA	NA	NA	11/8/2023	11/7/2023	Nan 1.5N	HP Flare	105.23	Flared	12:48 PM	1:15 PM
NA	NA	NA	NA	11/8/2023	11/7/2023	Pinestraw	VRU Discharge	142.67	Flared	12:00 AM	7:48 AM
NA	NA	NA	NA	11/9/2023	11/8/2023	Nandina	LP - Vent flare/Blower Flare	87.41	Flared	12:02 AM	11:32 PM
4VB-231110-C-129A	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
NA	NA	NA	NA	11/9/2023	11/8/2023	Pinestraw	LP - Vent flare/Blower Flare	85.14	Flared	12:00 AM	11:59 PM
2W-231129-C-129A	nAPP2331431010	fAPP2203856979	11/10/2023	11/9/2023	11/8/2023	Nandina	VRU Discharge	327.85	Flared	3:06 AM	7:58 PM
NA	NA	NA	NA	11/9/2023	11/8/2023	Red Bud	VRU Discharge	289.21	Flared	11:57 AM	7:33 PM
NA Released to Imaging: 12/6/2023 3:17:04 PM	NA	NA	NA	11/10/2023	11/9/2023	Nandina	LP - Vent flare/Blower Flare	96.82	Flared	12:19 AM	11:57 PM

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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 291981

DEFINITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 291981
	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: <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 291981

QUESTIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 291981
	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	[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.	

<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	73
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	1
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	0
Nitrogen (N2) percentage quality requirement	0
Hydrogen Sulfide (H2S) PPM quality requirement	0
Carbon Dioxide (CO2) percentage quality requirement	0
Oxygen (O2) percentage quality requirement	0



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QUESTIONS, Page 2  
  
Action 291981

**QUESTIONS (continued)**

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 291981
	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	11/03/2023
Time vent or flare was discovered or commenced	03:36 AM
Time vent or flare was terminated	11:57 PM
Cumulative hours during this event	16

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: 649 Mcf   Recovered: 0 Mcf   Lost: 649 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	We started getting high O2 around 9 am.
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, hoping to reduce some flaring in the future.





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ACKNOWLEDGMENTS  
  
Action 291981

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	Action Number: 291981
	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 291981

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 291981
	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.	12/6/2023