

FESCO, Ltd. 1100 Fesco Ave. - Alice, Texas 78332

For: Ameredev Operating, LLC 2901 Via Fortuna Austin, Texas 78746

Sample: Firethorn CTB

Outlet of Contact Tower

Spot Gas Sample @ 25 psig & 81°F

Date Sampled: 02/02/2024 Job Number: 241269.002

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286

	Un-Normalized		
COMPONENT	Mol%	MOL%	GPM
Hydrogen Sulfide*		0.600	
Nitrogen	2.252	2.309	
Carbon Dioxide	0.183	0.188	
Methane	72.008	73.740	
Ethane	5.482	5.614	1.539
Propane	8.023	8.215	2.320
Isobutane	1.512	1.548	0.519
n-Butane	3.648	3.735	1.207
2-2 Dimethylpropane	0.012	0.013	0.005
Isopentane	1.104	1.130	0.424
n-Pentane	0.992	1.016	0.377
Hexanes	0.806	0.838	0.354
Heptanes Plus	<u>1.038</u>	<u>1.054</u>	0.426
	97.060	100.000	7.170
Computed Real Charac		tanes Plus	:
Specific Gravity		3.304	(Air=1)
Molecular Weight			
Gross Heating Value		5100	BTU/CF
Computed Real Charac	teristics Of Tota	l Sample:	
Specific Gravity		-	(Air=1)
Compressibility (Z)			,
Molecular Weight			
Gross Heating Value			
Dry Basis		1444	BTU/CF
Saturated Basis		1420	BTU/CF

*Hydrogen Sulfide tested on location by: Stain Tube Method (GPA 2377) 377.4 Gr/100 CF, 6000 PPMV or 0.600 Mol %

Base Conditions: 15.025 PSI & 60 Deg F

Sampled By: (16) M. Martinez Certified: FESCO, Ltd. - Alice, Texas

Analyst: JS Processor: HB Cylinder ID: T-6368

Conan Pierce 361-661-7015

Job Number: 241269.002

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286 TOTAL REPORT

COMPONENT	MOL %	GPM	WT %
Hydrogen Sulfide*	0.600	OI IVI	0.837
Nitrogen	2.309		2.648
Carbon Dioxide	0.188		0.339
Methane	73.740		48.427
Ethane	5.614	1.539	6.910
Propane	8.215	2.320	14.829
Isobutane	1.548	0.519	3.683
n-Butane	3.735	1.207	8.887
2,2 Dimethylpropane	0.013	0.005	0.038
Isopentane	1.130	0.424	3.337
n-Pentane	1.016	0.377	3.001
2,2 Dimethylbutane	0.013	0.006	0.046
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.091	0.038	0.321
2 Methylpentane	0.265	0.113	0.935
3 Methylpentane	0.167	0.070	0.589
n-Hexane	0.302	0.127	1.065
Methylcyclopentane	0.133	0.048	0.458
Benzene	0.133	0.032	0.4361
Cyclohexane	0.162	0.057	0.558
2-Methylhexane	0.041	0.020	0.168
3-Methylhexane	0.047	0.022	0.100
2,2,4 Trimethylpentane	0.020	0.022	0.193
Other C7's	0.079	0.035	0.321
n-Heptane	0.077	0.036	0.316
Methylcyclohexane	0.119	0.049	0.478
Toluene	0.088	0.030	0.332
Other C8's	0.080	0.038	0.361
n-Octane	0.022	0.012	0.103
Ethylbenzene	0.007	0.003	0.030
M & P Xylenes	0.015	0.006	0.065
O-Xylene	0.004	0.002	0.003
Other C9's	0.029	0.015	0.150
n-Nonane	0.005	0.003	0.026
Other C10's	0.009	0.005	0.020
n-Decane	0.003	0.003	0.032
Undecanes (11)	<u>0.002</u>	<u>0.001</u>	0.012
Totals	100.000	7.170	100.000
Totals	100.000	7.170	100.000

Computed Real Characteristics Of Total Sample:

Specific Gravity	0.848	(Air=1)
Compressibility (Z)	0.9950	
Molecular Weight	24.43	
Gross Heating Value		
Dry Basis	1444	BTU/CF
Saturated Basis	1420	BTU/CF

Sample Date: 02/02/2024Ambient Air Temp: 64 °FSample Time: 11:35Heating Method Utilized: Yes

Analysis Date: 02/06/2024 Sampling Method: Fill & Empty
Analysis Time: 11:57 Device: (GC) S15

Sample Pressure: 25 psig

Make & Model: Shimadzu GC 2014

Sample Temp: 81 °F Last Verification Date: 02/01/2024

Released to Imaging: 2/19/2024 12:08:28 PM



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

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

Action 315621

DEFINITIONS

Operator:	OGRID:
AMEREDEV OPERATING, LLC	372224
2901 Via Fortuna	Action Number:
Austin, TX 78746	315621
	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

1220 S. St Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 315621

Phone: (505) 476-3470 Fax: (505) 476-3462		
a	QUESTIONS	
Operator:		OGRID:
AMEREDEV OPERATING, LLC		372224
2901 Via Fortuna Austin, TX 78746		Action Number: 315621
		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	[fAPP2203855966] FIRE	THORN
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers a	and mav provide addional quidan	ce.
Was this vent or flare caused by an emergency or malfunction	Yes	
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/o	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		
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes	lay be a major or minor release under 19.15.29.7 NMAC.
Did this vent or flare result in the release of ANY liquids (not fully and/or completely	163	
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	74	
Nitrogen (N2) percentage, if greater than one percent	2	
Hydrogen Sulfide (H2S) PPM, rounded up	6,000	
Carbon Dioxide (C02) percentage, if greater than one percent	0	
Oxygen (02) percentage, if greater than one percent	0	
Oxygen (02) percentage, if greater than one percent	U	
If you are venting and/or flaring because of Pipeline Specification, please provide the required spec	cifications 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.	

<u>District I</u> 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

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, Page 2

Action 315621

QUESTIONS (continued)	
	OGRID:

Operator: AMEREDEV OPERATING, LLC 372224 2901 Via Fortuna Action Number: Austin, TX 78746 315621 Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/16/2024
Time vent or flare was discovered or commenced	02:10 AM
Time vent or flare was terminated	03:44 PM
Cumulative hours during this event	14

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Repair and Maintenance Flow Line - Production Natural Gas Vented Released: 84 Mcf Recovered: 0 Mcf Lost: 84 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
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	Malfunction of Process Equipment.
Steps taken to limit the duration and magnitude of vent or flare	Optimize the VRUs to run more efficiently.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Optimize the gas to the VRUs to reduce faults and use less units on location.

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

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

Action 315621

ACKNOWLEDGMENTS

Operator:	OGRID:
AMEREDEV OPERATING, LLC	372224
2901 Via Fortuna	Action Number:
Austin, TX 78746	315621
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

$\overline{\lor}$	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (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.
V	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.
V	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.
V	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

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 315621

CONDITIONS

Operator:	OGRID:
AMEREDEV OPERATING, LLC	372224
2901 Via Fortuna	Action Number:
Austin, TX 78746	315621
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
tboeckholt	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.	2/19/2024