

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

Certified: FESCO, Ltd. - Alice, Texas

Analyst: JS

Processor: HB

Cylinder ID: T-6113

Released to Imaging: 10/16/2023 12:33:19 PM

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

Ambient Air Temp: 85 °F

Sample Time: 15:15

Heating Method Utilized: Yes

Analysis Date: 06/08/2023

Sampling Method: Fill & Empty

Analysis Time: 16:58

Device: (GC) S14

Sample Pressure: 58 psig

Make & Model: Shimadzu GC 2014

Sample Temp: 105 °F

Last Verification Date: 06/08/2023

Sampling Flow Rate: 3204 MCF/D

10/1/2023	Nan 1.5N	HP Flare	240.71	9:22 AM	11:01 PM	0.11	Malfunction	Pinion has been having Compressor/Line Foaming Issues so the	Non-Scheduled Maintenance or Malfunction
10/1/2023	Nandina	VRU Discharge	473.14	12:01 AM	11:05 PM	22.29	Flared more than 8 HRs	We were getting constant O2 spikes from past events (VAC true	Natural Gas Not Suitable for Transportation or Processing (O2)
10/1/2023	Pinestraw	VRU Discharge	263.42	12:00 AM	10:56 PM	24.00	Flared more than 8 HRs	VRU gas was going to flare till the O2 tech would come calibrate	Natural Gas Not Suitable for Transportation or Processing (O2)
10/1/2023	Red Bud	LP - Vent flare/Blower Flare	61.91	12:06 AM	4:22 PM	12.10	Flared more than 8 HRs	Control room pushed oil into the tanks so they were being purg	Natural Gas Not Suitable for Transportation or Processing (O2)
10/2/2023	Nandina	VRU Discharge	434.53	12:02 AM	11:30 PM	21.95	Flared more than 8 HRs	We were getting constant O2 spikes from past events (VAC true	Natural Gas Not Suitable for Transportation or Processing (O2)
10/2/2023	Pinestraw	HP Flare	668.50	9:56 AM	11:52 PM	2.75	Oxygen	To keep this reason simple, the heater had flooded out and the	Natural Gas Not Suitable for Transportation or Processing (O2)
10/2/2023	Pinestraw	VRU Discharge	105.27	12:00 AM	9:28 AM	9.90	Flared more than 8 HRs	VRU gas was going to flare till the O2 tech would come calibrate	Natural Gas Not Suitable for Transportation or Processing (O2)
10/3/2023	Azalea	HP Flare	625.38	12:16 PM	11:37 PM	0.31	Malfunction	Azalea 121 Separator had to serviced so gas was sent to flare to	Non-Scheduled Maintenance or Malfunction
10/3/2023	Nandina	VRU Discharge	288.97	12:01 AM	11:19 PM	16.27	Flared more than 8 HRs	We were getting constant O2 spikes from past events (VAC true	Natural Gas Not Suitable for Transportation or Processing (O2)
10/3/2023	Pinestraw	HP Flare	955.77	12:15 AM	11:50 PM	3.96	Malfunction	To keep this reason simple, the heater had flooded out and the	Natural Gas Not Suitable for Transportation or Processing (O2)
10/3/2023	Red Bud	VRU Discharge	478.72	7:33 AM	11:51 PM	14.87	Flared more than 8 HRs	Facility was getting O2 spikes after the tank blower gas was ser	Natural Gas Not Suitable for Transportation or Processing (O2)
10/4/2023	Azalea	HP Flare	1157.72	12:37 PM	11:37 PM	1.74	Malfunction	According to CR, the Azalea separator had to serviced again bec	Non-Scheduled Maintenance or Malfunction
10/4/2023	Nan 1.5N	HP Flare	134.89	7:25 AM	10:37 PM	0.10	Malfunction	Pinion has been having Compressor/Line Foaming Issues so the	Non-Scheduled Maintenance or Malfunction
10/4/2023	Nandina	VRU Discharge	248.53	12:01 AM	11:02 PM	12.95	Flared more than 8 HRs	We were getting constant O2 spikes from past events (VAC true	Natural Gas Not Suitable for Transportation or Processing (O2)
10/4/2023	Pinestraw	HP Flare	613.81	12:03 AM	3:52 PM	2.30	Malfunction	To keep this reason simple, the heater had flooded out and the	Natural Gas Not Suitable for Transportation or Processing (O2)
10/4/2023	Pinestraw	VRU Discharge	240.38	12:07 AM	4:21 PM	15.65	Flared more than 8 HRs	VRU gas was going to flare till the O2 tech would come calibrate	Natural Gas Not Suitable for Transportation or Processing (O2)
10/4/2023	Red Bud	VRU Discharge	310.22	12:00 AM	4:22 PM	9.53	Flared more than 8 HRs	Facility was getting O2 spikes after the tank blower gas was ser	Natural Gas Not Suitable for Transportation or Processing (O2)
10/5/2023	Amen Corner	LP - Vent flare/Blower Flare	100.65	12:00 AM	1:02 PM	8.07	Flared more than 8 HRs	VRUs kept faulting on high discharge due to the orifice plate siz	Insufficient Availability or Capacity
10/5/2023	Azalea	HP Flare	80.34	12:38 AM	9:16 AM	0.59	Oxygen	Seperator was still purging till early morning	Natural Gas Not Suitable for Transportation or Processing (O2)
10/5/2023	Nandina	VRU Discharge	355.25	12:00 AM	11:08 PM	21.42	Flared more than 8 HRs	We were getting constant O2 spikes from past events (VAC true	Natural Gas Not Suitable for Transportation or Processing (O2)
10/6/2023	Nan 1.5N	HP Flare	74.31	8:27 AM	8:48 AM	0.09	Insufficient Availability	Pinion has been having Compressor/Line Foaming Issues so the	Insufficient Availability or Capacity
10/6/2023	Nandina	VRU Discharge	270.67	12:44 AM	10:10 PM	15.18	Flared more than 8 HRs	We were getting constant O2 spikes from past events (VAC true	Natural Gas Not Suitable for Transportation or Processing (O2)
10/7/2023	Amen Corner	LP - Vent flare/Blower Flare	51.17	12:18 AM	10:50 AM	4.10	Insufficient Availability	VRUs kept faulting on high discharge due to the orifice plate siz	Insufficient Availability or Capacity
10/7/2023	Nandina	VRU Discharge	64.05	5:30 AM	3:47 PM	3.28	Oxygen	We were getting constant O2 spikes from past events (VAC true	Natural Gas Not Suitable for Transportation or Processing (O2)
10/11/2023	Nan 1.5N	HP Flare	82.70	10:49 AM	9:31 PM	0.62	Insufficient Availability	Pinion lost Whitehorse so gas had to flared	Insufficient Availability or Capacity



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State of New Mexico
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Oil Conservation Division
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Santa Fe, NM 87505

DEFINITIONS

Action 275930

DEFINITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 275930
	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.
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QUESTIONS

Action 275930

QUESTIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 275930
	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	[fAPP2203928043] Red Bud

Determination of Reporting Requirements

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, minor 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 (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 275930

QUESTIONS (continued)

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 275930
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	10/04/2023
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	04:22 PM
Cumulative hours during this event	10

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 Pipeline (Any) Natural Gas Flared Released: 310 Mcf Recovered: 0 Mcf Lost: 310 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	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	Facility was getting O2 spikes after the tank blower gas was sent to sales. It took a little bit longer to get the O2 purged completely.
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 several personnel specifically deal with any oxygen issue hoping to reduce future flaring from oxygen purging.

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ACKNOWLEDGMENTS

Action 275930

ACKNOWLEDGMENTS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 275930
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☒	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.
☒	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.
☒	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 275930

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 275930
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
cescayu	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.	10/16/2023