



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

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

Sample: Pinestraw CTB

Sales Meter Run
Spot Gas Sample @ 58 psig & 100°F

Date Sampled: 04/01/2023

Job Number: 231769.004

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286

COMPONENT	Un-Normalized		GPM
	Mol%	MOL%	
Hydrogen Sulfide*		0.200	
Nitrogen	0.623	0.630	
Carbon Dioxide	0.894	0.904	
Methane	56.447	57.110	
Ethane	14.559	14.728	4.046
Propane	12.384	12.528	3.546
Isobutane	2.759	2.790	0.938
n-Butane	5.782	5.849	1.894
2-2 Dimethylpropane	0.021	0.022	0.009
Isopentane	1.954	1.977	0.743
n-Pentane	1.562	1.581	0.589
Hexanes	1.044	0.988	0.418
Heptanes Plus	<u>0.621</u>	<u>0.693</u>	<u>0.264</u>
	98.650	100.000	12.447

Computed Real Characteristics Of Heptanes Plus:

Specific Gravity ----- 3.129 (Air=1)
Molecular Weight ----- 89.98
Gross Heating Value ----- 4833 BTU/CF

Computed Real Characteristics Of Total Sample:

Specific Gravity ----- 1.003 (Air=1)
Compressibility (Z) ----- 0.9927
Molecular Weight ----- 28.84
Gross Heating Value
Dry Basis ----- 1708 BTU/CF
Saturated Basis ----- 1679 BTU/CF

*Hydrogen Sulfide tested on location by: Stain Tube Method (GPA 2377)
125.8 Gr/100 CF, 2000 PPMV or 0.200 Mol %

Base Conditions: 15.025 PSI & 60 Deg F

Sampled By: (16) R. Elizondo
Analyst: JS
Processor: HB
Cylinder ID: T-6338

Certified: FESCO, Ltd. - Alice, Texas

Conan Pierce 361-661-7015

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286

TOTAL REPORT

COMPONENT	MOL %	GPM	WT %
Hydrogen Sulfide*	0.200		0.236
Nitrogen	0.630		0.612
Carbon Dioxide	0.904		1.380
Methane	57.110		31.768
Ethane	14.728	4.046	15.358
Propane	12.528	3.546	19.158
Isobutane	2.790	0.938	5.624
n-Butane	5.849	1.894	11.789
2,2 Dimethylpropane	0.022	0.009	0.055
Isopentane	1.977	0.743	4.947
n-Pentane	1.581	0.589	3.956
2,2 Dimethylbutane	0.022	0.009	0.066
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.110	0.046	0.329
2 Methylpentane	0.317	0.135	0.947
3 Methylpentane	0.202	0.085	0.604
n-Hexane	0.337	0.142	1.007
Methylcyclopentane	0.133	0.048	0.388
Benzene	0.104	0.030	0.282
Cyclohexane	0.157	0.055	0.458
2-Methylhexane	0.029	0.014	0.101
3-Methylhexane	0.030	0.014	0.104
2,2,4 Trimethylpentane	0.012	0.006	0.048
Other C7's	0.052	0.023	0.179
n-Heptane	0.040	0.019	0.139
Methylcyclohexane	0.067	0.028	0.228
Toluene	0.045	0.015	0.144
Other C8's	0.019	0.009	0.073
n-Octane	0.003	0.002	0.012
Ethylbenzene	0.001	0.000	0.004
M & P Xylenes	0.001	0.000	0.004
O-Xylene	0.000	0.000	0.000
Other C9's	0.000	0.000	0.000
n-Nonane	0.000	0.000	0.000
Other C10's	0.000	0.000	0.000
n-Decane	0.000	0.000	0.000
Undecanes (11)	<u>0.000</u>	<u>0.000</u>	<u>0.000</u>
Totals	100.000	12.447	100.000

Computed Real Characteristics Of Total Sample:

Specific Gravity -----	1.003	(Air=1)
Compressibility (Z) -----	0.9927	
Molecular Weight -----	28.84	
Gross Heating Value		
Dry Basis -----	1708	BTU/CF
Saturated Basis -----	1679	BTU/CF

Sample Date: 04/01/2023	Ambient Air Temp: 54 °F
Sample Time: 09:45	Heating Method Utilized: Yes
Analysis Date: 04/19/2023	Sampling Method: Fill & Empty
Analysis Time: 07:48	Device: (GC) S14
Sample Pressure: 58 psig	Make & Model: Shimadzu GC 2014
Sample Temp: 100 °F	Last Verification Date: 04/13/2023
Sampling Flow Rate: 402 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
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Action 275559

DEFINITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 275559
	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 275559

QUESTIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 275559
	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 Operator	[372224] AMEREDEV OPERATING, LLC
Incident Type	Unavailable.
Incident Status	Closure Approved
Incident Well	Unavailable.
Incident Facility	[fAPP2203927141] PINE STRAW

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 additional guidance.

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	No
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

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	57
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

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 275559

QUESTIONS (continued)

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 275559
	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	10/02/2023
Time vent or flare was discovered or commenced	09:56 AM
Time vent or flare was terminated	11:52 PM
Cumulative hours during this event	3

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Equipment Failure Pipeline (Any) Natural Gas Flared Released: 669 Mcf Recovered: 0 Mcf Lost: 669 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	0
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	The heater had flooded out and the O2 Mitigation sent the VRU gas to flare along with the oil from the heater. The HP Flare shot out oil so to avoid this, all CTB gas was sent through the HP Flare line so that the 2 phase scrubber can catch any liquids going to flare. This was meant to be done till the O2 Calibration tech can come on the 4th to calibrate the stationary O2 Analyzer.
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 are improving the design to prevent heater from flooding out hoping to prevent future flaring and protect our crews.

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ACKNOWLEDGMENTS

Action 275559

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	Action Number: 275559
	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 275559

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	Action Number: 275559
	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.	10/13/2023