



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

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

Sample: Nandina CTB
Sales Meter Run
Spot Gas Sample @ 51 sig & 86°F

Date Sampled: 05/04/2022

Job Number: 221923.040

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286

COMPONENT	Un-Normalized		
	Mol%	MOL%	GPM
Hydrogen Sulfide*		0.410	
Nitrogen	3.800	3.840	
Carbon Dioxide	1.216	1.229	
Methane	69.402	70.125	
Ethane	10.297	10.404	2.779
Propane	6.787	6.858	1.887
Isobutane	1.247	1.261	0.412
n-Butane	2.917	2.948	0.928
2-2 Dimethylpropane	0.010	0.010	0.004
Isopentane	0.915	0.925	0.338
n-Pentane	0.842	0.850	0.308
Hexanes	0.624	0.644	0.265
Heptanes Plus	<u>0.506</u>	<u>0.496</u>	<u>0.187</u>
	98.563	100.000	7.108

Computed Real Characteristics Of Heptanes Plus:

Specific Gravity ----- 3.164 (Air=1)
Molecular Weight ----- 91.24
Gross Heating Value ----- 4785 BTU/CF

Computed Real Characteristics Of Total Sample:

Specific Gravity ----- 0.829 (Air=1)
Compressibility (Z) ----- 0.9956
Molecular Weight ----- 23.90
Gross Heating Value
Dry Basis ----- 1332 BTU/CF
Saturated Basis ----- 1310 BTU/CF

*Hydrogen Sulfide tested on location by: Stain Tube Method (GPA 2377)
257.9 Gr/100 CF, 4100 PPMV or 0.410 Mol %

Base Conditions: 14.650 PSI & 60 Deg F

Sampled By: (24) DF
Analyst: DM
Processor: HB
Cylinder ID: T-2841

Certified: FESCO, Ltd. - Alice, Texas

 Conan Pierce 361-661-7015

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286

TOTAL REPORT

COMPONENT	MOL %	GPM	WT %
Hydrogen Sulfide*	0.410		0.585
Nitrogen	3.840		4.501
Carbon Dioxide	1.229		2.263
Methane	70.125		47.070
Ethane	10.404	2.779	13.089
Propane	6.858	1.887	12.653
Isobutane	1.261	0.412	3.067
n-Butane	2.948	0.928	7.169
2,2 Dimethylpropane	0.010	0.004	0.030
Isopentane	0.925	0.338	2.792
n-Pentane	0.850	0.308	2.566
2,2 Dimethylbutane	0.011	0.005	0.040
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.074	0.030	0.267
2 Methylpentane	0.210	0.087	0.757
3 Methylpentane	0.129	0.053	0.465
n-Hexane	0.220	0.090	0.793
Methylcyclopentane	0.092	0.033	0.324
Benzene	0.073	0.020	0.239
Cyclohexane	0.090	0.031	0.317
2-Methylhexane	0.021	0.010	0.088
3-Methylhexane	0.024	0.011	0.101
2,2,4 Trimethylpentane	0.000	0.000	0.000
Other C7's	0.057	0.025	0.237
n-Heptane	0.033	0.015	0.138
Methylcyclohexane	0.043	0.017	0.177
Toluene	0.027	0.009	0.104
Other C8's	0.022	0.010	0.101
n-Octane	0.005	0.003	0.024
Ethylbenzene	0.001	0.000	0.004
M & P Xylenes	0.002	0.001	0.009
O-Xylene	0.001	0.000	0.004
Other C9's	0.004	0.002	0.021
n-Nonane	0.001	0.001	0.005
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	7.108	100.000

Computed Real Characteristics Of Total Sample:

Specific Gravity ----- 0.829 (Air=1)

Compressibility (Z) ----- 0.9956

Molecular Weight ----- 23.90

Gross Heating Value

Dry Basis ----- 1332 BTU/CF

Saturated Basis ----- 1310 BTU/CF

Sample Date: 05/04/2022

Sample Time: 11:15

Analysis Date: 05/13/2022

Analysis Time: 10:40

Sample Pressure: 51 psig

Sample Temp: 86 °F

Sampling Flow Rate: 4891 MCF/D

Ambient Air Temp: 78 °F

Heating Method Utilized: Yes

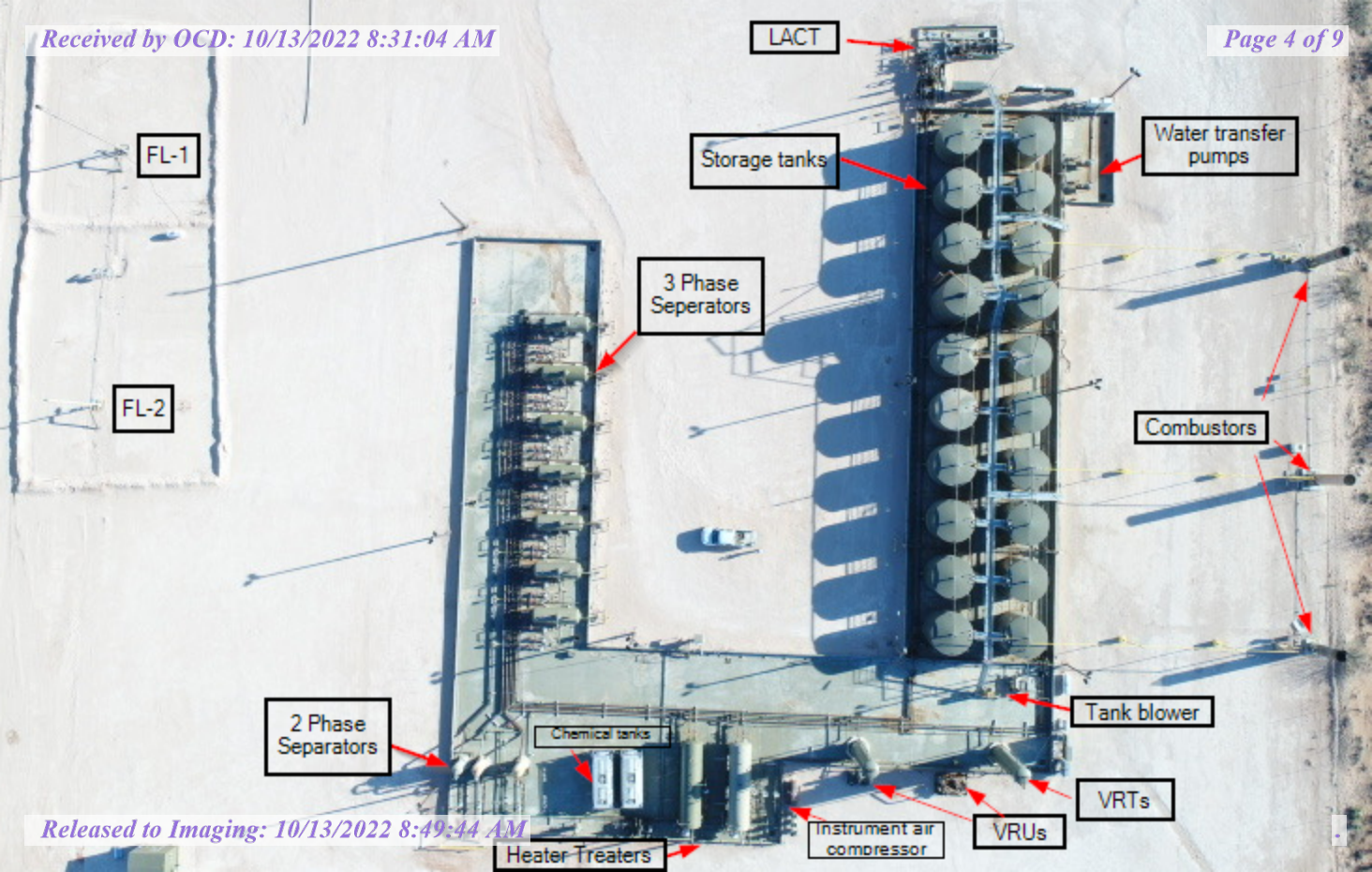
Sampling Method: Fill & Empty

Device: (GC) S15

Make & Model: Shimadzu GC 2014

Last Verification Date: 05/05/2022





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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
District IV
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 150614

DEFINITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 150614
	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 150614

QUESTIONS

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	Action Number: 150614
	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	Not answered.
Incident Facility	[fAPP2203856979] Nandina

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, 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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved

Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	Vapor Recovery Unit System

Representative Compositional Analysis of Vented or Flared Natural Gas

Please provide the mole percent for the percentage questions in this group.

Methane (CH4) percentage	70
Nitrogen (N2) percentage, if greater than one percent	4
Hydrogen Sulfide (H2S) PPM, rounded up	4,100
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 150614

QUESTIONS (continued)

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	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	09/30/2022
Time vent or flare was discovered or commenced	05:30 AM
Time vent or flare was terminated	05:00 PM
Cumulative hours during this event	1

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 Other (Specify) Natural Gas Flared Released: 98 Mcf Recovered: 0 Mcf Lost: 98 Mcf
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Our vapor recovery unit system was faulted due to high discharge pressure.
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	Our vapor recovery unit system was faulted due to high discharge pressure. The automation issue was the main reason.
Steps taken to limit the duration and magnitude of vent or flare	We shut in the well to limit production.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	We are working on replacing the automation parts.

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ACKNOWLEDGMENTS

Action 150614

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	Action Number: 150614
	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

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	Action Number: 150614
	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.	10/13/2022