



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

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

Sample: Firethorn No. 113H
30-025-44961
First Stage Meter Run
Spot Gas Sample @ 102 psig & 62°F

Date Sampled: 02/04/2023

Job Number: 231336.005

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286

COMPONENT	Un-Normalized		
	Mol%	MOL%	GPM
Hydrogen Sulfide*		0.600	
Nitrogen	0.993	0.996	
Carbon Dioxide	1.376	1.380	
Methane	79.680	79.883	
Ethane	8.520	8.541	2.338
Propane	4.483	4.494	1.267
Isobutane	0.941	0.943	0.316
n-Butane	1.658	1.662	0.536
2-2 Dimethylpropane	0.017	0.017	0.007
Isopentane	0.515	0.516	0.193
n-Pentane	0.358	0.359	0.133
Hexanes	0.343	0.302	0.127
Heptanes Plus	<u>0.265</u>	<u>0.307</u>	<u>0.128</u>
	99.149	100.000	5.045

Computed Real Characteristics Of Heptanes Plus:

Specific Gravity ----- 3.358 (Air=1)
Molecular Weight ----- 96.90
Gross Heating Value ----- 5220 BTU/CF

Computed Real Characteristics Of Total Sample:

Specific Gravity ----- 0.734 (Air=1)
Compressibility (Z) ----- 0.9964
Molecular Weight ----- 21.17
Gross Heating Value
Dry Basis ----- 1257 BTU/CF
Saturated Basis ----- 1236 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) R. Elizondo
Analyst: JS
Processor: HB
Cylinder ID: T-5926

Certified: FESCO, Ltd. - Alice, Texas

Conan Pierce 361-661-7015

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286

TOTAL REPORT

COMPONENT	MOL %	GPM	WT %
Hydrogen Sulfide*	0.600		0.966
Nitrogen	0.996		1.318
Carbon Dioxide	1.380		2.869
Methane	79.883		60.531
Ethane	8.541	2.338	12.131
Propane	4.494	1.267	9.360
Isobutane	0.943	0.316	2.589
n-Butane	1.662	0.536	4.563
2,2 Dimethylpropane	0.017	0.007	0.058
Isopentane	0.516	0.193	1.758
n-Pentane	0.359	0.133	1.223
2,2 Dimethylbutane	0.010	0.004	0.041
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.032	0.013	0.130
2 Methylpentane	0.094	0.040	0.383
3 Methylpentane	0.063	0.026	0.256
n-Hexane	0.103	0.043	0.419
Methylcyclopentane	0.041	0.015	0.163
Benzene	0.008	0.002	0.030
Cyclohexane	0.047	0.016	0.187
2-Methylhexane	0.015	0.007	0.071
3-Methylhexane	0.016	0.008	0.076
2,2,4 Trimethylpentane	0.005	0.003	0.027
Other C7's	0.023	0.010	0.108
n-Heptane	0.025	0.012	0.118
Methylcyclohexane	0.046	0.019	0.213
Toluene	0.024	0.008	0.104
Other C8's	0.029	0.014	0.151
n-Octane	0.006	0.003	0.032
Ethylbenzene	0.002	0.001	0.010
M & P Xylenes	0.006	0.002	0.030
O-Xylene	0.001	0.000	0.005
Other C9's	0.009	0.005	0.054
n-Nonane	0.001	0.001	0.006
Other C10's	0.003	0.002	0.020
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	5.045	100.000

Computed Real Characteristics Of Total Sample:

Specific Gravity ----- 0.734 (Air=1)

Compressibility (Z) ----- 0.9964

Molecular Weight ----- 21.17

Gross Heating Value

Dry Basis ----- 1257 BTU/CF

Saturated Basis ----- 1236 BTU/CF

Sample Date: 02/04/2023

Sample Time: 10:15

Analysis Date: 02/15/2023

Analysis Time: 09:13

Sample Pressure: 102 psig

Sample Temp: 62 °F

Sampling Flow Rate: N/A MCF/D

Ambient Air Temp: 48 °F

Heating Method Utilized: Yes

Sampling Method: Fill & Empty

Device: (GC) S10

Make & Model: Shimadzu GC 2014

Last Verification Date: 02/09/2023

3/6/2024	Firethorn	HP Flare - VRU Discharge	181.89	Flared	10:10 AM	11:45 PM	13.55	Flared more than 8 HRs	Gila got an O2 spike so Co
Received by OCD: 3/22/2024 3:25:32 PM	3/6/2024	Firethorn	LP Flare Estimation Sheet - Contact Tower	60.96	Flared		1.67	Malfunction	Clean VRT flare valve set
3/6/2024	Pinestraw	HP Flare - VRU Discharge	187.86	Flared	12:30 AM	11:51 PM	23.47	Flared more than 8 HRs	Production was opened u
3/6/2024	Red Bud	HP Flare - VRU Discharge	203.25	Flared	4:00 PM	11:54 PM	8.00	Flared more than 8 HRs	Tanks got a random O2 sp
3/7/2024	Nan 1.5N	HP Flare	105.24	Flared			0.17	Insufficient Availability	Midstream Company is no
3/7/2024	Nandina	LP Flare Estimation Sheet - Tank Pressure, Valve Status	88.36	Flared			3.34	Oxygen	Sales blowers were switc
3/7/2024	Pinestraw	HP Flare - VRU Discharge	276.66	Flared	12:01 AM	11:49 PM	24.00	Flared more than 8 HRs	Production was opened u
3/7/2024	Red Bud	HP Flare - VRU Discharge	159.31	Flared			6.32	Oxygen	Tanks got a random O2 sp
3/7/2024	Red Bud	LP Flare Estimation Sheet - Tank Pressure, Valve Status	51.67	Flared			11.25	Flared more than 8 HRs	The tanks are being purge
Released to Imaging: 3/22/2024 3:32:31 PM	3/8/2024	Azalea	HP Flare	516.47	Flared		8.17	Flared more than 8 HRs	Control Room is not fully



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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 326007

DEFINITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 326007
	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 326007

QUESTIONS

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	Action Number: 326007
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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] FIRETHORN

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	80
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	1
Carbon Dioxide (C02) percentage, if greater than one percent	1
Oxygen (02) 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 Sufide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (C02) percentage quality requirement	Not answered.
Oxygen (02) percentage quality requirement	Not answered.

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QUESTIONS, Page 2
Action 326007

QUESTIONS (continued)

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	Action Number: 326007
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	03/06/2024
Time vent or flare was discovered or commenced	10:10 AM
Time vent or flare was terminated	11:45 PM
Cumulative hours during this event	14

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 Tank (Any) Natural Gas Flared Released: 182 Mcf Recovered: 0 Mcf Lost: 182 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	Gila got an O2 spike so Control Room diverted facility to flare manually
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 building tankless facility design now, hoping to prevent future flaring due to oxygen issue.

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ACKNOWLEDGMENTS

Action 326007

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	Action Number: 326007
	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 326007

CONDITIONS

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	Action Number: 326007
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
cscayu	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.	3/22/2024