

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
Analyst: JS
Processor: HB
Cylinder ID: T-6113

Certified: FESCO, Ltd. - Alice, Texas

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

Received by OCD: 12/7/2023 8:38:49 AM		Date	Date										Page 3 of 8
Facility #	(C-129 Was Filed)	(Flaring Discovered)	Flaring Occurred	Location	Flare Source Equipment	Gas Volume (MCF)	Flared or Vented	Start Time of the flare event	End Time of the flare event	Flare Duration (hr)	C129 Filing Reason	Flare Reason	
P2203927141	11/23/2023	11/10/2023	11/9/2023	Pinestraw	HP Flare	611.08	Flared	3:24 AM	11:20 PM	17.40	Flared more than 8 Hrs	VRU issues throughout the day, started flaring at 4 AM to relieve	Non-Schedule
P2203927141	11/23/2023	11/10/2023	11/9/2023	Pinestraw	LP - Vent flare/Blower Flare	134.97	Flared	1:20 AM	11:59 PM	12.07	Flared more than 8 Hrs	VRU issues all day, Techs came out to work on the units. Tech w	Non-Schedule
P2203927141	11/23/2023	11/10/2023	11/9/2023	Pinestraw	VRU Discharge	83.78	Flared	12:00 AM	11:59 PM	21.67	Flared more than 8 Hrs	VRU discharge valve opened during HP flaring due to high O2 le	Natural gas not s
NA	NA	11/11/2023	11/10/2023	Nan 1.5N	HP Flare	90.69	Flared	9:19 AM	7:10 PM	0.11	Oxygen	Hila O2 Spike at 9 am and remaining flaring occurred to due to line overpressure	
P2203927141	11/24/2023	11/11/2023	11/10/2023	Pinestraw	HP Flare	574.95	Flared	12:21 AM	8:15 PM	16.03	Flared more than 8 Hrs	All VRUs had issues in the morning, Tech came onsite to get the units running, all	
NA	NA	11/11/2023	11/10/2023	Pinestraw	LP - Vent flare/Blower Flare	77.83	Flared	12:02 AM	11:56 PM	5.07	Malfunction	All VRUs were fixed, allowing blower gas to be sent to sales	
P2203856979	11/24/2023	11/11/2023	11/10/2023	Nandina	VRU Discharge	294.14	Flared	8:44 AM	11:02 PM	15.13	Flared more than 8 Hrs	Purging oxygen in the pipeline.	
P2203927141	11/24/2023	11/11/2023	11/10/2023	Pinestraw	VRU Discharge	178.14	Flared	12:00 AM	11:48 PM	20.17	Flared more than 8 Hrs	Continued O2 flaring from Yesterday, Oxygen sill high, analyzer working, multiple	
P2203928043	11/24/2023	11/11/2023	11/10/2023	Red Bud	VRU Discharge	476.82	Flared	8:43 AM	11:39 PM	13.95	Flared more than 8 Hrs	O2 was detected at 8:43 AM, Facility sent to flare	
NA	NA	11/12/2023	11/11/2023	Nan 1.5N	HP Flare	135.23	Flared	9:57 AM	10:40 PM	0.13	Insufficient Availability	Flaring occurred to due to line overpressure @ 100 PSI @9 AM, 10 AM, and Midnig	
P2203927141	11/26/2023	11/12/2023	11/11/2023	Pinestraw	VRU Discharge	184.95	Flared	12:48 AM	3:00 PM	11.15	Flared more than 8 Hrs	Continued O2 flaring from Yesterday, Oxygen sill high, analyzer working, VRUs w	
P2203928043	11/26/2023	11/12/2023	11/11/2023	Red Bud	VRU Discharge	889.96	Flared	12:00 AM	11:23 PM	22.83	Flared more than 8 Hrs	Continued O2 flaring from Yesterday, Oxygen sill high, analyzer working, multiple	
P2203846035	11/27/2023	11/13/2023	11/12/2023	Amen Corner	VRU Discharge	130.75	Flared	12:00 AM	8:16 PM	14.12	Flared more than 8 Hrs	O2 was detected and sent to flare, Alarm was reset and sent back to sales	
P2203928043	11/27/2023	11/13/2023	11/12/2023	Red Bud	VRU Discharge	1122.19	Flared	12:00 AM	11:57 PM	22.72	Flared more than 8 Hrs	Continued O2 flaring from Yesterday, Oxygen sill high, analyzer working, multiple	
NA	NA	11/14/2023	11/13/2023	Amen Corner	VRU Discharge	80.69	Flared	6:58 AM	11:01 PM	4.03	Oxygen	Note: Flare amount is an estimate since the TOPS VRU Meter is not reading corre	
NA	NA	11/14/2023	11/13/2023	Red Bud	VRU Discharge	289.78	Flared	12:00 AM	8:46 PM	6.68	Oxygen	We were getting high O2 from the tanks when the sales blowers would kick on.	
P2203846035	11/29/2023	11/15/2023	11/14/2023	Amen Corner	VRU Discharge	509.70	Flared	1:33 AM	11:42 PM	25.49	Flared more than 8 Hrs	Note: Flare amount is an estimate since the TOPS VRU Meter is not reading corre	
P2203846035	12/1/2023	11/16/2023	11/15/2023	Amen Corner	VRU Discharge	65.67	Flared	12:00 AM	11:03 AM	3.28	Flared more than 8 Hrs	Note: Flare amount is an estimate since the TOPS VRU Meter is not reading corre	
NA	NA	12/6/2023	11/15/2023	Nandina	VRU Discharge	52.13	Flared			2.83	Oxygen	There was an Acid Job taking place on several different vessels which caused som	
NA	NA	11/17/2023	11/16/2023	Nan 1.5N	HP Flare	163.33	Flared	3:54 PM	7:42 PM	0.45	Insufficient Availability	Pinion was shut in so line pressure got high and gas had to be flared.	
NA	NA	11/17/2023	11/16/2023	Pinestraw	HP Flare	75.96	Flared	12:19 PM	5:13 PM	3.55	Insufficient Availability	Pinion was shut in so line pressure got high and gas had to be flared. We were als	
NA	NA	11/17/2023	11/16/2023	Red Bud	HP Flare	56.73	Flared	4:27 PM	9:21 PM	1.32	Insufficient Availability	Pinion was shut in so line pressure got high and gas had to be flared.	
P2203927141	12/1/2023	11/17/2023	11/16/2023	Pinestraw	VRU Discharge	118.78	Flared	12:02 AM	8:15 AM	8.38	Flared more than 8 Hrs	We don't have comms with the stationary O2 analyzer so gas is being sent to flare	
NA	NA	11/17/2023	11/16/2023	Red Bud	VRU Discharge	112.92	Flared	12:00 AM	4:16 PM	4.95	Oxygen	VAC truck pushed into the tanks which triggered the O2 mitigation when the sale	
NA	NA	11/18/2023	11/17/2023	Nandina	LP - Vent flare/Blower Flare	107.48	Flared	4:36 AM	8:46 AM	5.63	Repair/Maintenance	Oxygen analyzer was serviced.	
P2203846035	12/6/2023	12/6/2023	11/17/2023	Amen Corner	VRU Discharge	110.58	Flared	12:24 AM	8:32 PM	8.37	Flared more than 8 Hrs	O2 issues at Hila, all facilities were sent to flare, TOPs VRU meter isn't working N	
P2203927141	12/2/2023	11/18/2023	11/17/2023	Pinestraw	VRU Discharge	410.86	Flared	2:38 AM	11:48 PM	19.37	Flared more than 8 Hrs	Getting large O2 spikes so currently flaring to purge tanks	
P2203928043	12/2/2023	11/18/2023	11/17/2023	Red Bud	VRU Discharge	523.35	Flared	6:13 AM	10:48 PM	11.85	Flared more than 8 Hrs	Hila got hit with oxygen, VRUs were sent to flares	
NA	NA	11/19/2023	11/18/2023	Nandina	LP - Vent flare/Blower Flare	57.58	Flared	1:35 PM	11:52 PM	4.18	Oxygen	O2 tested heater 2 and brought it back online. O2 spike a couple times after bring	
P2203856979		12/6/2023	11/18/2023	Nandina	VRU Discharge	197.92	Flared	1:06 PM	11:16 PM	10.95	Flared more than 8 Hrs	Hila got hit with oxygen, VRUs were sent to flares	
NA	NA	11/19/2023	11/18/2023	Pinestraw	VRU Discharge	99.55	Flared	12:00 AM	3:02 AM	2.82	Oxygen	Getting large O2 spikes so currently flaring to purge tanks	
NA	NA	11/20/2023	11/19/2023	Nandina	LP - Vent flare/Blower Flare	52.08	Flared	12:05 AM	10:56 AM	3.78	Malfunction	Blower Faulted on High Discharge, VRUs reset, returned to sales	
Released to Imaging: 12/7/2023 8:43:11 AM		12/20/2023	11/19/2023	Amen Corner	VRU Discharge	148.01	Flared	12:00 AM	7:24 AM	7.40	Oxygen	O2 issues at Hila, all facilities were sent to flare, TOPs VRU meter isn't working N	
NA	NA	11/20/2023	11/19/2023	Nandina	VRU Discharge	63.58	Flared	12:03 AM	5:06 AM	3.55	Oxygen	Hila got hit with oxygen, VRUs were sent to flares	

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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 292172

DEFINITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 292172
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

DEFINITIONS

<p>For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:</p> <ul style="list-style-type: none">• 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 292172

QUESTIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 292172
	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 ID (n#)	Unavailable.
Incident Name	Unavailable.
Incident Type	Flare
Incident Status	Unavailable.
Incident Facility	[fAPP2203928043] Red Bud
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	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, 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	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	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 292172

QUESTIONS (continued)

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID:
	372224
	Action Number:
	292172
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	11/12/2023
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	11:57 PM
Cumulative hours during this event	23

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 Flow Line - Production Natural Gas Flared Released: 1,122 Mcf Recovered: 0 Mcf Lost: 1,122 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	No
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	12:00 AM

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	Continued O2 flaring from Yesterday, Oxygen sill high, analyzer working, multiple attempts to return to sales.
Steps taken to limit the duration and magnitude of vent or flare	Choked back the wells to limit production.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Dedicate more personnel to limit production.

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ACKNOWLEDGMENTS

Action 292172

ACKNOWLEDGMENTS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 292172
	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 292172

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 292172
	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.	12/7/2023