

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

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

Sample Time: 15:15

Analysis Date: 06/08/2023

Analysis Time: 16:58

Sample Pressure: 58 psig

Sample Temp: 105 °F

Sampling Flow Rate: 3204 MCF/D

Ambient Air Temp: 85 °F

Heating Method Utilized: Yes

Sampling Method: Fill & Empty

Device: (GC) S14

Make & Model: Shimadzu GC 2014

Last Verification Date: 06/08/2023

UKVJW-231102-C-1290	nAPP2330455322	fAPP2203928043	11/9/2023	10/31/2023	10/30/2023	Red Bud	VRU Discharge	998.56	Flared	12:00 AM	11:07 PM	23.98	Flared more than 8 HRS	Gas was being sent to flare
	nAPP2330650475	fAPP2203846035	11/2/2023	11/1/2023	10/31/2023	Amen Corner	HP Flare	264.81	Flared	8:58 AM	11:09 PM	1.24	Emergency	Pinion lost power so our line
ISOXW-231102-C-1290	nAPP2330651676	fAPP2203846035	11/2/2023	11/1/2023	10/31/2023	Amen Corner	VRU Discharge	169.68	Flared	12:00 AM	8:29 AM	8.48	Flared more than 8 HRS	Flare amount is an estimate
0I39L-231102-C-1290	nAPP2330653027	fAPP2304126884	11/2/2023	11/1/2023	10/31/2023	Nan 1.5N	HP Flare	177.53	Flared	9:04 AM	11:58 PM	0.24	Emergency	Pinion lost power so our line
	nAPP2330558021	fAPP2203856979	11/9/2023	11/1/2023	10/31/2023	Nandina	HP Flare	553.94	Flared	3:05 AM	11:38 PM	4.32	Emergency	Pinion lost power so our line
5BD0L-231102-C-1290	nAPP2330653707	fAPP2203856979	11/2/2023	11/1/2023	10/31/2023	Nandina	VRU Discharge	274.58	Flared	12:01 AM	11:25 AM	11.17	Flared more than 8 HRS	Gas was being sent to flare
9P0TJ-231102-C-1290	nAPP2330655549	fAPP2203927141	11/2/2023	11/1/2023	10/31/2023	Pinestraw	HP Flare	88.75	Flared	8:18 AM	11:47 PM	2.94	Emergency	Pinion lost power so our line
	nAPP2330558143	fAPP2203928043	11/9/2023	11/1/2023	10/31/2023	Red Bud	VRU Discharge	616.21	Flared	12:00 AM	3:25 PM	15.43	Flared more than 8 HRS	Gas was being sent to flare
		fAPP2203846035	11/9/2023	11/2/2023	11/1/2023	Amen Corner	HP Flare	308.69	Flared	8:58 AM	11:09 PM	2.46		Pinion went down on plant
		fAPP2304126884	11/9/2023	11/2/2023	11/1/2023	Nan 1.5N	HP Flare	462.79	Flared	12:10 AM	5:49 PM	0.50		
		fAPP2203927141	11/9/2023	11/2/2023	11/1/2023	Pinestraw	HP Flare	237.66	Flared	12:48 AM	9:14 PM	6.04		Pinion went down on plant
		fAPP2203846035	11/9/2023	11/2/2023	11/1/2023	Amen Corner	VRU Discharge	206.34	Flared	12:00 AM	10:19 AM	10.32	Flared more than 8 HRS	Based on the data, the dive
		fAPP2203928043	11/9/2023	11/2/2023	11/1/2023	Red Bud	VRU Discharge	98.75	Flared	4:17 AM	4:25 PM	4.68		Had an o2 spike because an
		fAPP2203856979	11/9/2023	11/3/2023	11/2/2023	Nandina	LP - Vent flare/Blower Flare	87.06	Flared	5:17 AM	5:28 PM	5.72		
		fAPP2304126884	11/9/2023	11/3/2023	11/2/2023	Nan 1.5N	HP Flare	75.78	Flared	2:48 AM	8:40 PM	0.11		
		fAPP2304126884	11/9/2023	11/6/2023	11/3/2023	Nan 1.5N	HP Flare	167.16	Flared	2:34 AM	11:56 PM	0.19		Pinion lost some units so li
		fAPP2203928043	11/9/2023	11/6/2023	11/3/2023	Red Bud	VRU Discharge	610.22	Flared	3:36 AM	11:57 PM	15.02	Flared more than 8 HRS	We started getting high O2
		fAPP2304126884	11/9/2023	11/6/2023	11/4/2023	Nan 1.5N	HP Flare	631.56	Flared	1:43 AM	5:33 PM	0.99		Pinion was having foaming
		fAPP2203927141	11/9/2023	11/6/2023	11/4/2023	Pinestraw	HP Flare	87.70	Flared	1:36 AM	11:25 PM	3.10		Pinion was having foaming
		fAPP2203928043	11/9/2023	11/6/2023	11/4/2023	Red Bud	LP - Vent flare/Blower Flare	62.18	Flared			4.72		Based on the EHS summary
		fAPP2203928043	11/9/2023	11/6/2023	11/4/2023	Red Bud	VRU Discharge	665.62	Flared	12:00 AM	11:52 PM	17.48	Flared more than 8 HRS	North heater had high O2 a
		fAPP2304126884	11/9/2023	11/6/2023	11/5/2023	Nan 1.5N	HP Flare	258.21	Flared	12:16 AM	3:36 PM	0.26		Pinion was having foaming
		fAPP2203927141	11/9/2023	11/6/2023	11/5/2023	Pinestraw	HP Flare	75.58	Flared	12:18 AM	4:11 PM	3.43		
		fAPP2203928043	11/9/2023	11/6/2023	11/5/2023	Red Bud	VRU Discharge	385.74	Flared	12:20 AM	10:55 PM	8.42	Flared more than 8 HRS	We had an O2 spike around
		fAPP2203927141	11/9/2023	11/7/2023	11/6/2023	Pinestraw	VRU Discharge	211.93	Flared	12:42 PM	11:58 PM	8.77	Flared more than 8 HRS	We had an O2 spike that sta
		fAPP2203928043	11/9/2023	11/7/2023	11/6/2023	Red Bud	VRU Discharge	269.40	Flared	10:16 AM	9:42 PM	5.42		We had an O2 spike that sta
		fAPP2203927141	11/9/2023	11/7/2023	11/6/2023	Pinestraw	LP - Vent flare/Blower Flare	50.96	Flared	2:39 AM	4:38 PM	0.16		
		fAPP2304126884	11/9/2023	11/7/2023	11/6/2023	Nan 1.5N	HP Flare	147.49	Flared	12:00 AM	1:02 PM	0.03		High line pressure around r
		fAPP2203856979	11/9/2023	11/8/2023	11/7/2023	Nandina	HP Flare	54.44	Flared	12:34 PM	7:20 PM	0.70		
		fAPP2203927141	11/9/2023	11/8/2023	11/7/2023	Pinestraw	VRU Discharge	182.80	Flared	12:00 AM	7:48 AM	7.82		
		fAPP2304126884	11/9/2023	11/8/2023	11/7/2023	Nan 1.5N	HP Flare	105.23	Flared	12:48 PM	1:15 PM	0.17		

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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 284287

DEFINITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 284287
	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: <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 284287

QUESTIONS

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	Action Number: 284287
	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	Flare
Incident Status	Closure Not Approved
Incident Well	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	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 284287

QUESTIONS (continued)

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 284287
	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	10/30/2023
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	11:07 PM
Cumulative hours during this event	24

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: 999 Mcf Recovered: 0 Mcf Lost: 999 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	
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	Gas was being sent to flare to purge the vessels and avoid Pinon from getting from high O2. CR wanted to be cautious.
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 more personnel to tackle oxygen issues, hoping to reduce future flaring.

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ACKNOWLEDGMENTS

Action 284287

ACKNOWLEDGMENTS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 284287
	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 284287

CONDITIONS

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	Action Number: 284287
	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.	11/9/2023