



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

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

Sample: Amen Corner CTB

Sales Meter Run

Spot Gas Sample @ 48 psig & 55°F

Date Sampled: 03/04/2023 Job Number: 231592.031

## **CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286**

	Un-Normalized		
COMPONENT	Mol%	MOL%	GPM
Hydrogen Sulfide*		1.000	
Nitrogen	1.054	1.047	
Carbon Dioxide	2.616	2.601	
Methane	79.480	79.008	
Ethane	7.489	7.444	2.038
Propane	4.238	4.212	1.188
Isobutane	1.087	1.081	0.362
n-Butane	1.691	1.681	0.542
2-2 Dimethylpropane	0.017	0.017	0.007
Isopentane	0.701	0.697	0.261
n-Pentane	0.463	0.460	0.171
Hexanes	0.387	0.379	0.160
Heptanes Plus	<u>0.373</u>	<u>0.373</u>	<u>0.156</u>
	99.596	100.000	4.885
Computed Real Charac		anes Plus	:
Specific Gravity		3.370	(Air=1)
Molecular Weight		97.25	
Gross Heating Value -		5245	BTU/CF
Computed Real Charac		l Sample:	
Specific Gravity		0.752	(Air=1)
Compressibility (Z)		0.9963	
Molecular Weight		21.69	
Gross Heating Value			
Dry Basis		1248	BTU/CF
Saturated Basis		1227	BTU/CF

\*Hydrogen Sulfide tested on location by: Stain Tube Method (GPA 2377) 628.9 Gr/100 CF, 10000 PPMV or 1.000 Mol %

Base Conditions: 15.025 PSI & 60 Deg F

Sampled By: (24) D. Field Certified: FESCO, Ltd. - Alice, Texas

Analyst: LG Processor: HB Cylinder ID: T-3890

Conan Pierce 361-661-7015

Job Number: 231592.031

## CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286 TOTAL REPORT

COMPONENT	MOL %	GPM	WT %
Hydrogen Sulfide*	1.000		1.571
Nitrogen	1.047		1.352
Carbon Dioxide	2.601		5.277
Methane	79.008		58.432
Ethane	7.444	2.038	10.319
Propane	4.212	1.188	8.563
Isobutane	1.081	0.362	2.897
n-Butane	1.681	0.542	4.504
2,2 Dimethylpropane	0.017	0.007	0.057
Isopentane	0.697	0.261	2.318
n-Pentane	0.460	0.171	1.530
2,2 Dimethylbutane	0.016	0.007	0.064
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.039	0.016	0.155
2 Methylpentane	0.120	0.051	0.477
3 Methylpentane	0.078	0.033	0.310
n-Hexane	0.126	0.053	0.501
Methylcyclopentane	0.055	0.020	0.213
Benzene	0.010	0.003	0.036
Cyclohexane	0.047	0.016	0.182
2-Methylhexane	0.022	0.010	0.102
3-Methylhexane	0.019	0.009	0.088
2,2,4 Trimethylpentane	0.010	0.005	0.053
Other C7's	0.036	0.016	0.165
n-Heptane	0.030	0.014	0.139
Methylcyclohexane	0.048	0.020	0.217
Toluene	0.024	0.008	0.102
Other C8's	0.040	0.019	0.203
n-Octane	0.007	0.004	0.037
Ethylbenzene	0.001	0.000	0.005
M & P Xylenes	0.009	0.004	0.044
O-Xylene	0.002	0.001	0.010
Other C9's	0.010	0.005	0.058
n-Nonane	0.001	0.001	0.006
Other C10's	0.002	0.001	0.013
n-Decane	0.000	0.000	0.000
Undecanes (11)	0.000	<u>0.000</u>	0.000
Totals	100.000	4.885	100.000

## **Computed Real Characteristics Of Total Sample:**

Specific Gravity	0.752	(Air=1)
Compressibility (Z)	0.9963	
Molecular Weight	21.69	
Gross Heating Value		
Dry Basis	1248	BTU/CF
Saturated Basis	1227	BTII/CE

Sample Date: 03/04/2023 Ambient Air Temp: 50 °F
Sample Time: 08:45 Heating Method Utilized: Yes

Analysis Date: 03/13/2023 Sampling Method: Fill & Empty
Analysis Time: 06:47 Device: (GC) S10

Sample Pressure: 48 psig Make & Model: Shimadzu GC 2014

Sample Temp: 55 °F Last Verification Date: 03/09/2023

Sampling Flow Rate: 2750 MCF/D

Received by Facility #	OCD: 126742023 8:29:05 (C-129 Was Filed) ▼	AM Date (Flaring Discovered)	Date 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	Page 3 of 8
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 relie	Non-Sch
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-Sche
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 l	€ 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 remainding flaring occurred to due to	o 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 th	e 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, analyze	er 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, analyze	er 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, analyze	er 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		O2 was detected and sent to flare, Alarm was reset and sent b	
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		Continued O2 flaring from Yesterday, Oxygen sill high, analyze	
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	
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 blowe	ers 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	•	Note: Flare amount is an estimate since the TOPS VRU Meter i	
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 i	s not reading corre
		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	
NA	NA	11/17/2023	11/16/2023	Nan 1.5N	HP Flare	163.33	Flared	3:54 PM	7:42 PM	0.45		Pinion was shut in so line pressure got high and gas had to be	
NA	NA	11/17/2023	11/16/2023	Pinestraw	HP Flare	75.96	Flared	12:19 PM	5:13 PM	3.55		Pinion was shut in so line pressure got high and gas had to be	
NA	NA	11/17/2023	11/16/2023	Red Bud	HP Flare	56.73	Flared	4:27 PM	9:21 PM	1.32	•	Pinion was shut in so line pressure got high and gas had to be	
P2203927141	12/1/2023	11/17/2023	11/16/2023	Pinestraw	VRU Discharge	118.78	Flared	12:02 AM	8:15 AM	8.38		We don't have comms with the stationary O2 analyzer so gas i	
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 mitiga	
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		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		O2 issues at Hila, all facilities were sent to flare, TOPs VRU me	ter isn't working N
P2203927141	12/2/2023	11/18/2023		Pinestraw	VRU Discharge	410.86	Flared	2:38 AM	11:48 PM	19.37		Getting large O2 spikes so currently flaring to purge tanks	
P2203928043	12/2/2023	11/18/2023		Red Bud	VRU Discharge	523.35	Flared	6:13 AM	10:48 PM	11.85		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 coup	le times after bring
P2203856979		12/6/2023		Nandina	VRU Discharge	197.92	Flared	1:06 PM	11:16 PM	10.95		Hila got hit with oxygen, VRUs were sent to flares	
NA	NA	11/19/2023		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		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 sale	es
	Imaging: 1247/2023 8:33			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 me	
NΛ	NΛ	11/20/2023		Nandina	VRII Discharge	63.58	Flared		5:06 AM		Ovygen	Hila got hit with overan VRIIs were sent to flares	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

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District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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 292163

#### **DEFINITIONS**

Operator:	OGRID:
AMEREDEV OPERATING, LLC	372224
2901 Via Fortuna	Action Number:
Austin, TX 78746	292163
	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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1220 S. St Francis Dr., Santa Fe, NM 87505

# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 292163

Phone:(505) 476-3470 Fax:(505) 476-3462		
	UESTIONS	T
Operator:  AMEREDEV OPERATING, LLC		OGRID: 372224
2901 Via Fortuna		Action Number:
Austin, TX 78746		292163
		Action Type:  [C-129] Amend Venting and/or Flaring (C-129A)
QUESTIONS		te real training and a state of the state of
Prerequisites		
Any messages presented in this section, will prevent submission of this application. Please resolve t	these issues before contin	nuing with the rest of the questions.
Incident ID (n#)	Unavailable.	
Incident Name	Unavailable.	
Incident Type	Flare	
Incident Status	Unavailable.	
Incident Facility	[fAPP2203846035]	Amen Corner
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section	on) that are assigned to yo	our 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 at Was this vent or flare caused by an emergency or malfunction	No	uidance.
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 v	enting and/or flaring that is	s 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 <b>ANY</b> 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.	
Davis and the Compositional Analysis of Ward of Flored National Co		
Representative Compositional Analysis of Vented or Flared Natural Gas		
Please provide the mole percent for the percentage questions in this group.  Methodo (CHA) percentage	79	
Methane (CH4) percentage		
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	3	
Oxygen (02) percentage, if greater than one percent	0	
If you are venting and/or flaring because of Pipeline Specification, please provide the required spec	rifications for each gas.	
Methane (CH4) percentage quality requirement	0	
Nitrogen (N2) percentage quality requirement	0	
Hydrogen Sufide (H2S) PPM quality requirement	0	
Carbon Dioxide (C02) percentage quality requirement	0	

0

Oxygen (02) percentage quality requirement

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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<u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505

# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 292163

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	IONS (continued)
Operator:	OGRID:
AMEREDEV OPERATING, LLC 2901 Via Fortuna	372224 Action Number:
Austin, TX 78746	292163
	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	08:16 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   Flow Line - Production   Natural Gas Flared   Released: 131 Mcf   Recovered: 0 Mcf   Lost: 131 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	Not answered.
Division of Astronomy Division (No.	
Steps and Actions to Prevent Waste	1
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	O2 was detected and sent to flare, Alarm was reset and sent back 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 tackle oxygen issues

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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**

ACKNOWLEDGMENTS

Action 292163

## **ACKNOWLEDGMENTS**

Operator:	OGRID:
AMEREDEV OPERATING, LLC	372224
2901 Via Fortuna	Action Number:
Austin, TX 78746	292163
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

### **ACKNOWLEDGMENTS**

$\overline{\lor}$	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.
V	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.
V	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.
~	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.
V	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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**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 292163

## **CONDITIONS**

Operator:	OGRID:
AMEREDEV OPERATING, LLC	372224
2901 Via Fortuna	Action Number:
Austin, TX 78746	292163
	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