

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

	Un-Normalized		
COMPONENT	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>	0.307	0.128
	99.149	100.000	5.045
Computed Real Charac			:
Specific Gravity		3.358	(Air=1)
Molecular Weight		96.90	
Gross Heating Value		5220	BTU/CF
Computed Real Charac	teristics Of Tota	al Sample:	
Specific Gravity		-	(Air=1)
Compressibility (Z)			,
Molecular Weight			
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 Certified: FESCO, Ltd. - Alice, Texas

Analyst: JS Processor: HB Cylinder ID: T-5926

Conan Pierce 361-661-7015

Job Number: 231336.005

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)	0.000	<u>0.000</u>	0.000
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 Ambient Air Temp: 48 °F Sample Time: 10:15 Heating Method Utilized: Yes

Analysis Date: 02/15/2023 Sampling Method: Fill & Empty
Analysis Time: 09:13 Device: (GC) S10

Sample Pressure: 102 psig

Make & Model: Shimadzu GC 2014

Sample Temp: 62 °F Last Verification Date: 02/09/2023

Released to Imaging: 1/31/2024 1:08:41 PM

Recaired by Oc	CD: 1/31/2024-1:01:09 PM (C-129 Was Filed)	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	Page 3 of 9
NA	NA	1/18/2024	1/1/2024	Red Bud	VRU Discharge	74.05	Flared	12:00 AM	11:21 AM	7.17	Oxygen	Facility was getting O2 spikes from the tanl
APP2203927141	1/19/2024	1/18/2024	1/5/2024	Red Bud	LP - Vent flare/Blower Flare	104.68	Flared	12:01 AM	11:56 PM	14.70	Flared more than 8 HRs	Sales blowers were switched off due to hig
APP2203855966		1/22/2024	1/10/2024	Firethorn	LP Flare Estimation Sheet - Contact Tower	88.04	Flared	12:01 AM	6:52 PM	15.88	Flared more than 8 HRs	Contact Tower ACI VRUs were having volta
APP2203855966		1/22/2024	1/11/2024	Firethorn	LP Flare Estimation Sheet - Contact Tower	128.26	Flared	1:56 PM	5:47 PM	2.37	Malfunction	Contact Tower ACI VRUs were having volta
APP2203855966		1/22/2024	1/12/2024	Firethorn	LP Flare Estimation Sheet - Contact Tower	324.20	Flared	10:08 AM	5:15 PM	6.28	Malfunction	Contact Tower ACI VRUs were having volta
APP2203855966		1/22/2024	1/14/2024	Firethorn	LP Flare Estimation Sheet - Contact Tower	365.25	Flared	8:17 AM	10:03 PM	5.68	Malfunction	Contact Tower ACI VRUs were having volta
APP2203855966		1/22/2024	1/15/2024	Firethorn	LP Flare Estimation Sheet - Contact Tower	282.11	Flared	10:19 AM	5:59 PM	4.60	Malfunction	Contact Tower ACI VRUs were having volta
APP2203855966	1/17/2024	1/17/2024	1/16/2024	Firethorn	LP Flare Estimation Sheet - Contact Tower	520.34	Flared	8:38 AM	7:00 PM	7.43	Malfunction	Contact Tower ACI VRUs were having volta
APP2203855966	1/18/2024	1/18/2024	1/17/2024	Firethorn	LP Flare Estimation Sheet - Contact Tower	635.06	Flared	5:47 AM	8:27 PM	10.42	Flared more than 8 HRs	Contact Tower ACI VRUs were having volta
APP2203856979		1/22/2024	1/17/2024	Nandina	LP Flare Estimation Sheet - Tank Pressure, Valve Status	77.81	Flared	9:04 AM	10:06 PM	3.23	Malfunction	Control Room opened up production and V
APP2203855966		1/22/2024	1/18/2024	Firethorn	LP Flare Estimation Sheet - Contact Tower	428.17	Flared	7:24 AM	4:39 PM	8.72	Flared more than 8 HRs	Contact Tower ACI VRUs were having volta
NA	NA	1/19/2024	1/18/2024	Nandina	HP Flare	119.69	Flared	12:36 AM	11:12 PM	5.62	Oxygen	Control Room has been purging the vessels
APP2203856979	1/19/2024	1/19/2024	1/18/2024	Nandina	VRU Discharge	621.06	Flared	12:01 AM	11:53 PM	23.99	Flared more than 8 HRs	Control Room has been purging the vessels
APP2203855966		1/22/2024	1/19/2024	Firethorn	LP Flare Estimation Sheet - Contact Tower	68.43	Flared	8:06 AM	9:12 AM	1.02	Malfunction	Contact Tower ACI VRUs were having volta
APP2203856979		1/22/2024	1/19/2024	Nandina	HP Flare	271.06	Flared	12:12 AM	11:23 PM	12.31	Flared more than 8 HRs	Control Room has been purging the vessels
APP2203856979		1/22/2024	1/19/2024	Nandina	VRU Discharge	315.22	Flared	12:00 PM	11:59 PM	24.00	Flared more than 8 HRs	Control Room has been purging the vessels
APP2304126884		1/22/2024	1/19/2024	Nan 1.5N	HP Flare	92.73	Flared	1:32 AM	6:39 PM	0.19	Malfunction	ETC was having issues, causing line pressur
APP2203855966		1/22/2024	1/20/2024	Firethorn	LP Flare Estimation Sheet - Contact Tower	114.57	Flared	8:14 AM	10:10 AM	1.95	Malfunction	ACI VRUs faulted on low discharge over nig
APP2203856979		1/22/2024	1/20/2024	Nandina	HP Flare	209.25	Flared	12:23 AM	1:17 PM	11.24	Flared more than 8 HRs	Control Room has been purging the vessels
APP2203856980		1/22/2024	1/20/2024	Nandina	VRU Discharge	449.65	Flared	12:00 AM	11:05 PM	22.40	Flared more than 8 HRs	Control Room has been purging the vessels
APP2203856981		1/22/2024	1/21/2024	Nandina	HP Flare	139.69	Flared	9:12 AM	11:51 PM	11.90	Flared more than 8 HRs	Separators are being purged for high O2.
APP2203856982	1/22/2024	1/22/2024	1/21/2024	Nandina	VRU Discharge	607.41	Flared	12:00 AM	11:48 PM	23.99	Flared more than 8 HRs	Facility is purging O2 since vessels are bein
APP2203856983]	1/23/2024	1/22/2024	Nandina	HP Flare	192.38	Flared	12:51 AM	7:58 PM	10.85	Flared more than 8 HRs	Separators are being purged for high O2.
APPRADASETERS In	aging: 1/31/2024 1:08:41 1	PM 1/23/2024	1/22/2024	Nandina	VRU Discharge	451.98	Flared	12:00 AM	6:27 PM	17.47	Flared more than 8 HRs	Facility is purging O2 since vessels are bein
NA	NA	1/23/2024	1/22/2024	Red Bud	VRU Discharge	87.38	Flared	10:07 AM	11:39 AM	3.32	Oxygen	Sales blowers were turned on which cause



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

District II 811 S. First St., Artesia, NM 88210 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

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 309931

DEFINITIONS

Operator:	OGRID:
AMEREDEV OPERATING, LLC	372224
2901 Via Fortuna	Action Number:
Austin, TX 78746	309931
	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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 309931

Phone:(505) 476-3470 Fax:(505) 476-3462		
	UESTIONS	
Operator: AMEREDEV OPERATING, LLC		OGRID: 372224
2901 Via Fortuna		Action Number:
Austin, TX 78746		309931
		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 w	ith the rest of the questions.
Incident Well	Unavailable.	
Incident Facility	[fAPP2203855966] FIRETH	HORN
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers as		9.
Was this vent or flare caused by an emergency or malfunction Did this vent or flare last eight hours or more cumulatively within any 24-hour	No Yes	
period from a single event Is this considered a submission for a vent or flare event	Vac minerusetine and/or	Slaving of natural rea
is this considered a submission for a vent of hare event	Yes, minor venting and/or	maring 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	renting and/or flaring that is or ma	y 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 spec	ifications 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.	

Not answered.

Oxygen (02) percentage quality requirement

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QUESTIONS, Page 2

Action 309931

QUESTI	ONS (continued)
Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID:
QUESTIONS	•
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/18/2024
Time vent or flare was discovered or commenced	07:24 AM
Time vent or flare was terminated	04:39 PM
Cumulative hours during this event	9
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 Flow Line - Production Natural Gas Flared Released: 428 Mcf Recovered: 0 Mcf Lost: 428 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	N.
Was notification of downstream activity received by this operator	No Not the second secon
Downstream OGRID that should have notified this operator	Not answered. Not answered.
Date notified of downstream activity requiring this vent or flare	Not answered. Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.
, , ,	1
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	Contact Tower ACI VRUs were having voltage problems.

We choked back the wells to limit production.

rebuilt and turned on.)

Control room will aim to reduce flaring event during startup of the facility. (Firethorn was

Steps taken to limit the duration and magnitude of vent or flare

Corrective actions taken to eliminate the cause and reoccurrence of vent or flare

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ACKNOWLEDGMENTS

Action 309931

ACKNOWLEDGMENTS

Operator:	OGRID:
AMEREDEV OPERATING, LLC	372224
2901 Via Fortuna	Action Number:
Austin, TX 78746	309931
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

V	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.
V	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.
V	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.
V	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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CONDITIONS

Action 309931

CONDITIONS

Operator:	OGRID:
AMEREDEV OPERATING, LLC	372224
2901 Via Fortuna	Action Number:
Austin, TX 78746	309931
	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.	1/31/2024