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	0.669	0.642	0.261
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 Certified: FESCO, Ltd. - Alice, Texas

Job Number: 232371.021

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		0.331
3-Methylhexane	0.030	0.014		0.118
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		0.030
Other C9's	0.017	0.009		0.091
n-Nonane	0.003	0.002		0.016
Other C10's	0.005	0.002		0.030
n-Decane	0.003	0.001		0.006
Undecanes (11)	<u>0.001</u>	0.001		0.007
Totals	100.000	7.234		100.000
Totals	100.000	7.204		100.000
Computed Real Characte	eristics of Total Sample			
		0.815	(Air=1)	
		0.9954		
		23.49		
Gross Heating Value				
		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

Ambient Air Temp: 85 °F Heating Method Utilized: Yes

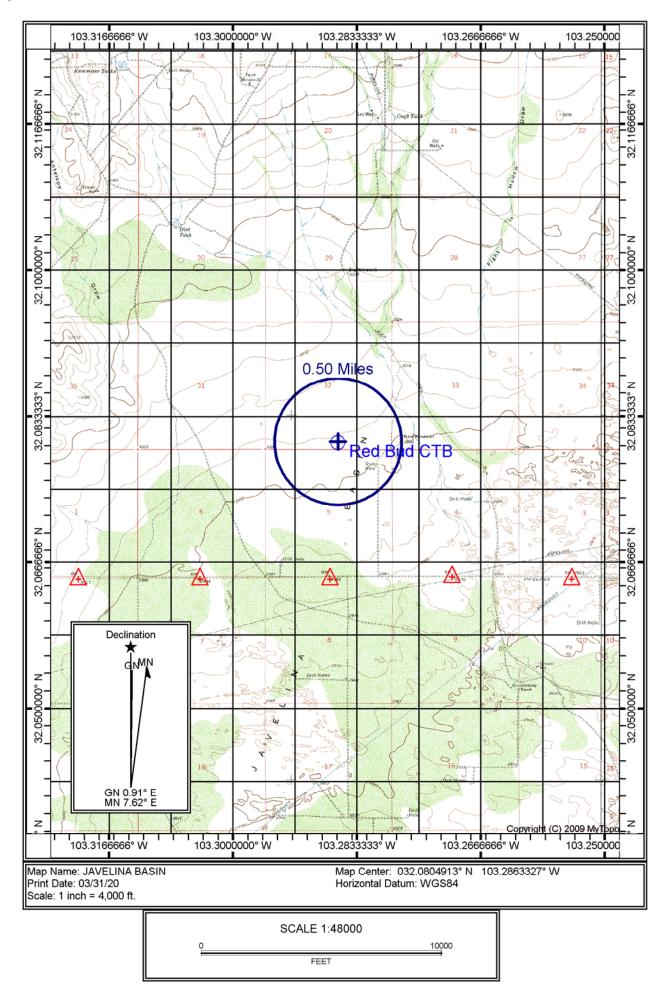
Sampling Method: Fill & Empty

Device: (GC) S14

Make & Model: Shimadzu GC 2014

Last Verification Date: 06/08/2023

3/18/2024	3/1/2024	Red Bud	LP Flare Estimation Sheet - Tank Pressure, Valve Status	217.44	Flared	3:28 AM	9:35 PM	20.53	Flared m
3/18/2024	D: 3/16/2024 4:01:0 3/1/2024	Firethorn	Contact Tower	70.42	Flared			1.48	Page 3 of 9
3/18/2024	3/2/2024	Nan 1.5N	HP Flare	110.91	Flared			0.12	Insuffici
3/18/2024	3/2/2024	Red Bud	HP Flare - VRU Discharge	89.50	Flared			3.42	(
3/18/2024	3/2/2024	Red Bud	LP Flare Estimation Sheet - Tank Pressure, Valve Status	89.99	Flared	4:40 AM	11:34 PM	9.26	Flared m
3/18/2024	3/2/2024	Firethorn	Tripod Flare	334.12	Flared	12:01 AM	11:50 PM	16.12	Flared m
Reteased to Im	aging:3871872024 4:0	Real Bud	LP Flare Estimation Sheet - Tank Pressure, Valve Status	80.92	Flared	7:04 AM	11:44 PM	12.18	Flared m
3/18/2024	3/3/2024	Firethorn	Tripod Flare	126.71	Flared	12:04 AM	11:56 PM	6.29	Flared m



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 324445

DEFINITIONS

Operator:	OGRID:
AMEREDEV OPERATING, LLC	372224
2901 Via Fortuna	Action Number:
Austin, TX 78746	324445
	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 324445

OBJECT AND FORTURE AND PROTECTION OF THE CONTROL OF	Ω	UESTIONS	
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Austin, TX 78746 Action Type: [C-129] Verifing and/or Flaring (C-129) OUESTIONS Prerquisites Any message preceded in this section, will prevent authinisation of this application. Places resolve these issues before continuing with the rest of the questions. Incident Val Incident Facility [RAPP2203828043] RED BUD Outermination of Reporting Requirements Answer all questions that pagin. The Reasoning is attenued as an Calculated based on your answers and may provide additional guidance. Was this vent or flare caused by an emergency or malfunction Die this vent or flare asset gift house or once cumulatively within any 24-hour period from a simple event Is this considered a submission for a vent or flare ovent Ves. 10 bits live vent or fire asset gift house or once cumulatively within any 24-hour period from a simple event Is this considered a submission for a vent or flare ovent Ves. 10 bits live vent or fire asset gift house or once cumulatively within any 24-hour period from a simple event Ves. 10 bits live vent or fire restell in the retended of a form C-128 for a visease that, includes liquid during venting and/or flaring of natural gas. An operator shall the a form C-141 instead of a form C-128 for a visease that, includes liquid during venting and/or flaring of natural gas. An operator shall the a form C-141 instead of a form C-128 for a visease that, includes liquid during venting and/or flaring of natural gas. An operator shall the a form C-141 instead of a form C-128 for a visease that includes liquid during venting and/or flaring of natural gas. An operator shall the a form C-141 instead of a form C-128 for a visease that includes liquid during venting and/or flaring of natural gas. An operator shall the result in the retained event of his marker completely flaring that reached of rehas a charace of reaching the ground, a surface, a venting and or may be a major or minor release under 19.15.29.7 https://doi.org/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001	AMEREDEV OPERATING, LLC		
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District I
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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

<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 324445

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUESTI	ONS (continued)
Operator:	OGRID:
AMEREDEV OPERATING, LLC 2901 Via Fortuna	372224 Action Number:
Austin, TX 78746	324445
	Action Type: [C-129] Venting and/or Flaring (C-129)
QUESTIONS	[]
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	03/03/2024
Time vent or flare was discovered or commenced	
Time vent or flare was discovered or commenced	07:04 AM
Cumulative hours during this event	11:44 PM 12
Cumulative nours during this event	
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: 81 Mcf Recovered: 0 Mcf Lost: 81 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.
is and a gase only dearmost. (i.e. only eighnocal time values reported)	res, 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	
Time notined of downstream activity requiring this vent of hare	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
and it had belond the special of controls	
Please explain reason for why this event was beyond this operator's control	The tanks are being purged from the flare blower now to remove O2.
Steps taken to limit the duration and magnitude of vent or flare	We choked back the wells to limit production.
	The should dust the Holle to Hilling production.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	We build an EHS control room to work with field operators hoping to reduce future flaring due to oxygen.

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ACKNOWLEDGMENTS

Action 324445

ACKNOWLEDGMENTS

Operator:	OGRID:
AMEREDEV OPERATING, LLC	372224
2901 Via Fortuna	Action Number:
Austin, TX 78746	324445
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

I acknowledge that I am authorized to submit a Venting and/or Flaring (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 324445

CONDITIONS

Operator:	OGRID:
AMEREDEV OPERATING, LLC	372224
2901 Via Fortuna	Action Number:
Austin, TX 78746	324445
	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.	3/18/2024