

March 2, 2022

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

For: Tap Rock Operating LLC
523 Park Point Drive, Suite 200
Golden, Colorado 80401

Sample: Blue Marlin Federal Com No. 202H
First Stage Separator
Spot Gas Sample @ 145 psig & 105 °F

Date Sampled: 02/24/2022

Job Number: 221363.001

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286

COMPONENT	MOL%	GPM
Hydrogen Sulfide*	1.050	
Nitrogen	0.945	
Carbon Dioxide	2.504	
Methane	65.723	
Ethane	8.060	2.216
Propane	4.902	1.388
Isobutane	1.346	0.453
n-Butane	2.792	0.905
2-2 Dimethylpropane	0.014	0.006
Isopentane	2.027	0.762
n-Pentane	2.021	0.753
Hexanes	4.079	1.727
Heptanes Plus	<u>4.537</u>	<u>1.804</u>
Totals	100.000	10.013

Computed Real Characteristics Of Heptanes Plus:

Specific Gravity ----- 3.226 (Air=1)
Molecular Weight ----- 92.67
Gross Heating Value ----- 4999 BTU/CF

Computed Real Characteristics Of Total Sample:

Specific Gravity ----- 1.041 (Air=1)
Compressibility (Z) ----- 0.9920
Molecular Weight ----- 29.91
Gross Heating Value
Dry Basis ----- 1700 BTU/CF
Saturated Basis ----- 1671 BTU/CF

*Hydrogen Sulfide tested on location by: Stain Tube Method (GPA 2377)
Results: 660.4 Gr/100 CF, 10500 PPMV or 1.050 Mol %

Base Conditions: 15.025 PSI & 60 Deg F

Sampled By: (24) D. Morales
Analyst: RG
Processor: KV
Cylinder ID: T-5498

Certified: FESCO, Ltd. - Alice, Texas

Conan Pierce 361-661-7015

FESCO, Ltd.

Job Number: 221363.001

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286
TOTAL REPORT

COMPONENT	MOL %	GPM	WT %
Hydrogen Sulfide*	1.050		1.196
Nitrogen	0.945		0.885
Carbon Dioxide	2.504		3.685
Methane	65.723		35.252
Ethane	8.060	2.216	8.103
Propane	4.902	1.388	7.227
Isobutane	1.346	0.453	2.616
n-Butane	2.792	0.905	5.426
2,2 Dimethylpropane	0.014	0.006	0.034
Isopentane	2.027	0.762	4.890
n-Pentane	2.021	0.753	4.875
2,2 Dimethylbutane	0.074	0.032	0.213
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.307	0.129	0.885
2 Methylpentane	1.223	0.522	3.524
3 Methylpentane	0.862	0.362	2.484
n-Hexane	1.613	0.682	4.648
Methylcyclopentane	0.633	0.230	1.781
Benzene	0.447	0.129	1.167
Cyclohexane	0.884	0.309	2.487
2-Methylhexane	0.270	0.129	0.905
3-Methylhexane	0.258	0.122	0.864
2,2,4 Trimethylpentane	0.000	0.000	0.000
Other C7's	0.501	0.224	1.662
n-Heptane	0.356	0.169	1.193
Methylcyclohexane	0.521	0.215	1.710
Toluene	0.325	0.112	1.001
Other C8's	0.218	0.104	0.803
n-Octane	0.041	0.022	0.157
Ethylbenzene	0.010	0.004	0.035
M & P Xylenes	0.023	0.009	0.082
O-Xylene	0.005	0.002	0.018
Other C9's	0.038	0.020	0.160
n-Nonane	0.003	0.002	0.013
Other C10's	0.004	0.002	0.019
n-Decane	0.000	0.000	0.000
Undecanes (11)	<u>0.000</u>	<u>0.000</u>	<u>0.000</u>
Totals	100.000	10.013	100.000

Computed Real Characteristics of Total Sample

Specific Gravity -----	1.041	(Air=1)
Compressibility (Z) -----	0.9920	
Molecular Weight -----	29.91	
Gross Heating Value		
Dry Basis -----	1700	BTU/CF
Saturated Basis -----	1671	BTU/CF

March 2, 2022

FESCO, Ltd.**1100 Fesco Ave. - Alice, Texas 78332****Sample:** Blue Marlin Federal Com No. 202H

First Stage Separator

Spot Gas Sample @ 145 psig & 105 °F

Date Sampled: 02/24/2022

Job Number: 221363.001

GLYCALC FORMAT

COMPONENT	MOL%	GPM	Wt %
Carbon Dioxide	2.504		3.685
Hydrogen Sulfide	1.050		1.196
Nitrogen	0.945		0.885
Methane	65.723		35.252
Ethane	8.060	2.216	8.103
Propane	4.902	1.388	7.227
Isobutane	1.346	0.453	2.616
n-Butane	2.806	0.910	5.460
Isopentane	2.027	0.762	4.890
n-Pentane	2.021	0.753	4.875
Cyclopentane	0.000	0.000	0.000
n-Hexane	1.613	0.682	4.648
Cyclohexane	0.884	0.309	2.487
Other C6's	2.466	1.045	7.106
Heptanes	2.018	0.874	6.405
Methylcyclohexane	0.521	0.215	1.710
2,2,4 Trimethylpentane	0.000	0.000	0.000
Benzene	0.447	0.129	1.167
Toluene	0.325	0.112	1.001
Ethylbenzene	0.010	0.004	0.035
Xylenes	0.028	0.011	0.100
Octanes Plus	<u>0.304</u>	<u>0.150</u>	<u>1.152</u>
Totals	100.000	10.013	100.000

Real Characteristics Of Octanes Plus:

Specific Gravity ----- 3.945 (Air=1)
Molecular Weight ----- 113.35
Gross Heating Value ----- 5876 BTU/CF

Real Characteristics Of Total Sample:

Specific Gravity ----- 1.041 (Air=1)
Compressibility (Z) ----- 0.9920
Molecular Weight ----- 29.91
Gross Heating Value
Dry Basis ----- 1700 BTU/CF
Saturated Basis ----- 1671 BTU/CF

March 2, 2022

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

For: Tap Rock Operating LLC
523 Park Point Drive, Suite 200
Golden, Colorado 80401

Sample: Blue Marlin Federal Com No. 215H
First Stage Separator
Spot Gas Sample @ 145 psig & 94 °F

Date Sampled: 02/24/2022

Job Number: 221367.001

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286

COMPONENT	MOL%	GPM
Hydrogen Sulfide*	0.550	
Nitrogen	1.254	
Carbon Dioxide	1.417	
Methane	67.983	
Ethane	10.638	2.920
Propane	6.547	1.851
Isobutane	1.201	0.403
n-Butane	2.918	0.944
2-2 Dimethylpropane	0.029	0.011
Isopentane	1.331	0.500
n-Pentane	1.422	0.529
Hexanes	1.811	0.765
Heptanes Plus	<u>2.899</u>	<u>1.198</u>
Totals	100.000	9.121

Computed Real Characteristics Of Heptanes Plus:

Specific Gravity ----- 3.337 (Air=1)
Molecular Weight ----- 96.04
Gross Heating Value ----- 5172 BTU/CF

Computed Real Characteristics Of Total Sample:

Specific Gravity ----- 0.935 (Air=1)
Compressibility (Z) ----- 0.9936
Molecular Weight ----- 26.90
Gross Heating Value
Dry Basis ----- 1566 BTU/CF
Saturated Basis ----- 1539 BTU/CF

*Hydrogen Sulfide tested on location by: Stain Tube Method (GPA 2377)
Results: 345.9 Gr/100 CF, 5500 PPMV or 0.550 Mol %

Base Conditions: 15.025 PSI & 60 Deg F

Sampled By: (24) D. Morales
Analyst: RG
Processor: KV
Cylinder ID: T-0381

Certified: FESCO, Ltd. - Alice, Texas

Conan Pierce 361-661-7015

FESCO, Ltd.

Job Number: 221367.001

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286
TOTAL REPORT

COMPONENT	MOL %	GPM	WT %
Hydrogen Sulfide*	0.550		0.697
Nitrogen	1.254		1.306
Carbon Dioxide	1.417		2.318
Methane	67.983		40.541
Ethane	10.638	2.920	11.891
Propane	6.547	1.851	10.732
Isobutane	1.201	0.403	2.595
n-Butane	2.918	0.944	6.305
2,2 Dimethylpropane	0.029	0.011	0.078
Isopentane	1.331	0.500	3.570
n-Pentane	1.422	0.529	3.814
2,2 Dimethylbutane	0.025	0.011	0.080
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.159	0.067	0.509
2 Methylpentane	0.544	0.232	1.743
3 Methylpentane	0.363	0.152	1.163
n-Hexane	0.720	0.304	2.307
Methylcyclopentane	0.345	0.125	1.079
Benzene	0.197	0.057	0.572
Cyclohexane	0.391	0.137	1.223
2-Methylhexane	0.132	0.063	0.492
3-Methylhexane	0.154	0.073	0.574
2,2,4 Trimethylpentane	0.000	0.000	0.000
Other C7's	0.360	0.161	1.328
n-Heptane	0.269	0.127	1.002
Methylcyclohexane	0.351	0.145	1.281
Toluene	0.228	0.078	0.781
Other C8's	0.277	0.132	1.135
n-Octane	0.046	0.024	0.195
Ethylbenzene	0.002	0.001	0.008
M & P Xylenes	0.028	0.011	0.111
O-Xylene	0.007	0.003	0.028
Other C9's	0.073	0.038	0.343
n-Nonane	0.012	0.007	0.057
Other C10's	0.026	0.016	0.137
n-Decane	0.001	0.001	0.005
Undecanes (11)	<u>0.000</u>	<u>0.000</u>	<u>0.000</u>
Totals	100.000	9.121	100.000

Computed Real Characteristics of Total Sample

Specific Gravity -----	0.935	(Air=1)
Compressibility (Z) -----	0.9936	
Molecular Weight -----	26.90	
Gross Heating Value		
Dry Basis -----	1566	BTU/CF
Saturated Basis -----	1539	BTU/CF

March 2, 2022

FESCO, Ltd.**1100 Fesco Ave. - Alice, Texas 78332****Sample:** Blue Marlin Federal Com No. 215H

First Stage Separator

Spot Gas Sample @ 145 psig & 94 °F

Date Sampled: 02/24/2022

Job Number: 221367.001

GLYCALC FORMAT

COMPONENT	MOL%	GPM	Wt %
Carbon Dioxide	1.417		2.318
Hydrogen Sulfide	0.550		0.697
Nitrogen	1.254		1.306
Methane	67.983		40.541
Ethane	10.638	2.920	11.891
Propane	6.547	1.851	10.732
Isobutane	1.201	0.403	2.595
n-Butane	2.947	0.956	6.383
Isopentane	1.331	0.500	3.570
n-Pentane	1.422	0.529	3.814
Cyclopentane	0.000	0.000	0.000
n-Hexane	0.720	0.304	2.307
Cyclohexane	0.391	0.137	1.223
Other C6's	1.091	0.461	3.495
Heptanes	1.260	0.549	4.475
Methylcyclohexane	0.351	0.145	1.281
2,2,4 Trimethylpentane	0.000	0.000	0.000
Benzene	0.197	0.057	0.572
Toluene	0.228	0.078	0.781
Ethylbenzene	0.002	0.001	0.008
Xylenes	0.035	0.014	0.139
Octanes Plus	<u>0.435</u>	<u>0.218</u>	<u>1.872</u>
Totals	100.000	9.121	100.000

Real Characteristics Of Octanes Plus:

Specific Gravity ----- 4.022 (Air=1)
Molecular Weight ----- 115.76
Gross Heating Value ----- 6033 BTU/CF

Real Characteristics Of Total Sample:

Specific Gravity ----- 0.935 (Air=1)
Compressibility (Z) ----- 0.9936
Molecular Weight ----- 26.90
Gross Heating Value
Dry Basis ----- 1566 BTU/CF
Saturated Basis ----- 1539 BTU/CF

Flaring Summary

battery	3/14/2022
	Sum(TOTAL F...
Blue Marlin Fed Com CTB B	182.00
Grand total	182.00

date » (Column Names)

Data table:
flare_report_data (2)
Colors:
All values

battery

Sum(TOTAL FLARE (HP + LP))

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
District IV
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 92102

DEFINITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 92102
	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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QUESTIONS

Action 92102

QUESTIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 92102
	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 with the rest of the questions.	
Incident Well	Not answered.
Incident Facility	[fAPP2201147795] Blue Marlin CTB

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	No
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 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 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	66
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	10,000
Carbon Dioxide (CO2) percentage, if greater than one percent	3
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 92102

QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 92102
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	03/14/2022
Time vent or flare was discovered or commenced	06:00 AM
Time vent or flare was terminated	06:00 PM
Cumulative hours during this event	3

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Pipeline Quality Specifications Tank (Any) Natural Gas Flared Released: 182 Mcf Recovered: 0 Mcf Lost: 182 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	Not answered.
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.	False
Please explain reason for why this event was beyond this operator's control	Not answered.
Steps taken to limit the duration and magnitude of vent or flare	Tap Rock saw flare volumes due to flash gas coming off of the tanks and an excess amount of oxygen at the tank level. The amount of oxygen does not meet pipeline quality specifications for our midstream provider. Tap Rock is analyzing this location and the equipment on location to verify the facility can capture all excess gas. The facility ran with normal operations and no reasoning for the excess flare was found. If flaring continues Tap Rock will alter the facility by placing additional gas takeaway equipment.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Tap Rock saw flare volumes due to flash gas coming off of the tanks and an excess amount of oxygen at the tank level. The amount of oxygen does not meet pipeline quality specifications for our midstream provider. Tap Rock is analyzing this location and the equipment on location to verify the facility can capture all excess gas. The facility ran with normal operations and no reasoning for the excess flare was found. If flaring continues Tap Rock will alter the facility by placing additional gas takeaway equipment.

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ACKNOWLEDGMENTS

Action 92102

ACKNOWLEDGMENTS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 92102
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☒	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.
☒	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 92102

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 92102
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
bramsey	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.	3/22/2022