November 22, 2021

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

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

Sample: Apollo State Com No. 201H
First Stage Separator
Spot Gas Sample @ 120 psig & 122 °F

Date Sampled: 11/10/2021 Job Number: 213095.001

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286

COMPONENT	MOL%	GPM
Hydrogen Sulfide*	< 0.001	
Nitrogen	1.089	
Carbon Dioxide	0.111	
Methane	68.866	
Ethane	12.562	3.447
Propane	7.023	1.985
Isobutane	1.147	0.385
n-Butane	2.959	0.957
2-2 Dimethylpropane	0.009	0.004
Isopentane	1.008	0.378
n-Pentane	1.353	0.503
Hexanes	1.502	0.635
Heptanes Plus	2.371	0.976
Totals	100.000	9.269

Computed Real Characteristics Of Heptanes Plus:

Specific Gravity	3.320	(Air=1)
Molecular Weight	95.58	
Gross Heating Value	5162	BTU/CF

Computed Real Characteristics Of Total Sample:

Specific Gravity	0.901	(Air=1)
Compressibility (Z)	0.9940	
Molecular Weight	25.93	
Gross Heating Value		
Dry Basis	1558	BTU/CF
Saturated Basis	1531	BTU/CF

*Hydrogen Sulfide tested on location by: Stain Tube Method (GPA 2377)
Results: <0.013 Gr/100 CF, <0.2 PPMV or <0.001 Mol %

Base Conditions: 15.025 PSI & 60 Deg F

Sampled By: (14) LAT
Analyst: RG
Processor: KV
Cylinder ID: T-0406

Certified: FESCO, Ltd. - Alice, Texas

Conan Pierce 361-661-7015

FESCO, Ltd. Job Number: 213095.001

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286
TOTAL REPORT

COMPONENT	MOL %	GPM	WT %
Hydrogen Sulfide*	< 0.001		< 0.001
Nitrogen	1.089		1.176
Carbon Dioxide	0.111		0.188
Methane	68.866		42.601
Ethane	12.562	3.447	14.566
Propane	7.023	1.985	11.942
Isobutane	1.147	0.385	2.571
n-Butane	2.959	0.957	6.632
2,2 Dimethylpropane	0.009	0.004	0.025
Isopentane	1.008	0.378	2.804
n-Pentane	1.353	0.503	3.764
2,2 Dimethylbutane	0.015	0.006	0.050
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.108	0.045	0.359
2 Methylpentane	0.448	0.191	1.489
3 Methylpentane	0.241	0.101	0.801
n-Hexane	0.690	0.291	2.293
Methylcyclopentane	0.246	0.089	0.798
Benzene	0.135	0.039	0.407
Cyclohexane	0.505	0.176	1.639
2-Methylhexane	0.094	0.045	0.363
3-Methylhexane	0.104	0.049	0.402
2,2,4 Trimethylpentane	0.052	0.028	0.229
Other C7's	0.178	0.079	0.681
n-Heptane	0.230	0.109	0.889
Methylcyclohexane	0.350	0.144	1.325
Toluene	0.121	0.042	0.430
Other C8's	0.195	0.093	0.829
n-Octane	0.054	0.028	0.238
Ethylbenzene	0.005	0.002	0.020
M & P Xylenes	0.021	0.008	0.086
O-Xylene	0.004	0.002	0.016
Other C9's	0.055	0.029	0.268
n-Nonane	0.007	0.004	0.035
Other C10's	0.009	0.005	0.049
n-Decane	0.002	0.001	0.011
Undecanes (11)	0.004	0.003	0.024
Totals	100.000	9.269	100.000

Computed Real Characteristics of Total Sample		
Specific Gravity	0.901	(Air=1)
Compressibility (Z)	0.9940	
Molecular Weight	25.93	
Gross Heating Value		
Dry Basis	1558	BTU/CF
Saturated Basis	1531	BTU/CF

November 22, 2021

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

Sample: Apollo State Com No. 201H
First Stage Separator
Spot Gas Sample @ 120 psig & 122 °F

Date Sampled: 11/10/2021 Job Number: 213095.001

GLYCALC FORMAT

COMPONENT	MOL%	GPM	Wt %
Carbon Dioxide	0.111		0.188
Hydrogen Sulfide	< 0.001		< 0.001
Nitrogen	1.089		1.176
Methane	68.866		42.601
Ethane	12.562	3.447	14.566
Propane	7.023	1.985	11.942
Isobutane	1.147	0.385	2.571
n-Butane	2.968	0.961	6.657
Isopentane	1.008	0.378	2.804
n-Pentane	1.353	0.503	3.764
Cyclopentane	0.000	0.000	0.000
n-Hexane	0.690	0.291	2.293
Cyclohexane	0.505	0.176	1.639
Other C6's	0.812	0.344	2.699
Heptanes	0.852	0.371	3.133
Methylcyclohexane	0.350	0.144	1.325
2,2,4 Trimethylpentane	0.052	0.028	0.229
Benzene	0.135	0.039	0.407
Toluene	0.121	0.042	0.430
Ethylbenzene	0.005	0.002	0.020
Xylenes	0.025	0.010	0.102
Octanes Plus	0.326	0.163	1.454
Totals	100.000	9.269	100.000

Real Characteristics Of Octanes Plus:

Specific Gravity	4.015	(Air=1)
Molecular Weight	115.59	
Gross Heating Value	6054	BTU/CF

Real Characteristics Of Total Sample:

Specific Gravity	0.901	(Air=1)
Compressibility (Z)	0.9940	
Molecular Weight	25.93	
Gross Heating Value		
Dry Basis	1558	BTU/CF
Saturated Basis	1531	BTU/CF

December 8, 2021

FESCO, Ltd.
1100 FESCO Avenue - Alice, Texas 78332

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

Sample: Apollo State Com No. 201H
First Stage Separator Hydrocarbon Liquid
Sampled @ 120 psig & 122°F

Date Sampled: 11/10/2021 Job Number: 213095.002

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2186-M

COMPONENT	MOL %	LIQ VOL %	WT %
Nitrogen	0.033	0.006	0.006
Carbon Dioxide	0.014	0.004	0.004
Methane	3.041	0.859	0.331
Ethane	2.646	1.180	0.540
Propane	4.315	1.983	1.291
Isobutane	1.342	0.733	0.529
n-Butane	4.568	2.401	1.801
2,2 Dimethylpropane	0.050	0.032	0.024
Isopentane	2.458	1.499	1.203
n-Pentane	3.622	2.190	1.773
2,2 Dimethylbutane	0.044	0.031	0.026
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.310	0.212	0.181
2 Methylpentane	1.891	1.309	1.106
3 Methylpentane	1.019	0.694	0.595
n-Hexane	3.357	2.302	1.962
Heptanes Plus	71.289	84.566	88.627
Totals:	100.000	100.000	100.000

Characteristics of Heptanes Plus:

Specific Gravity	0.8164	(Water=1)
°API Gravity	41.82	@ 60°F
Molecular Weight	183.3	
Vapor Volume	13.79	CF/Gal
Weight	6.80	Lbs/Gal

Characteristics of Total Sample:

Specific Gravity	0.7790	(Water=1)
°API Gravity	50.14	@ 60°F
Molecular Weight	147.4	
Vapor Volume	16.35	CF/Gal
Weight	6.49	Lbs/Gal

Base Conditions: 15.025 PSI & 60 °F

Certified: FESCO, Ltd. - Alice, Texas

Sampled By: (14) LAT
Analyst: JL
Processor: HBdjv
Cylinder ID: W-1251

Conan Pierce 361-661-7015

FESCO, Ltd. Job Number: 213095.002

TOTAL EXTENDED REPORT - GPA 2186-M

COMPONENT	Mol %	LiqVol %	Wt %
Nitrogen	0.033	0.006	0.006
Carbon Dioxide	0.014	0.004	0.004
Methane	3.041	0.859	0.331
Ethane	2.646	1.180	0.540
Propane	4.315	1.983	1.291
Isobutane	1.342	0.733	0.529
n-Butane	4.568	2.401	1.801
2,2 Dimethylpropane	0.050	0.032	0.024
Isopentane	2.458	1.499	1.203
n-Pentane	3.622	2.190	1.773
2,2 Dimethylbutane	0.044	0.031	0.026
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.310	0.212	0.181
2 Methylpentane	1.891	1.309	1.106
3 Methylpentane	1.019	0.694	0.595
n-Hexane	3.357	2.302	1.962
Methylcyclopentane	0.950	0.561	0.542
Benzene	0.499	0.233	0.264
Cyclohexane	2.483	1.410	1.418
2-Methylhexane	0.807	0.625	0.548
3-Methylhexane	0.734	0.562	0.499
2,2,4 Trimethylpentane	0.420	0.365	0.326
Other C-7's	0.886	0.654	0.596
n-Heptane	2.241	1.724	1.523
Methylcyclohexane	4.101	2.749	2.731
Toluene	1.850	1.034	1.157
Other C-8's	5.115	4.068	3.824
n-Octane	2.158	1.844	1.672
E-Benzene	0.479	0.308	0.345
M & P Xylenes	1.617	1.047	1.165
O-Xylene	0.451	0.286	0.325
Other C-9's	4.560	4.050	3.905
n-Nonane	1.618	1.518	1.408
Other C-10's	4.822	4.707	4.622
n-decane	1.383	1.415	1.334
Undecanes(11)	4.687	4.694	4.674
Dodecanes(12)	3.407	3.685	3.721
Tridecanes(13)	3.470	4.024	4.119
Tetradecanes(14)	2.900	3.602	3.737
Pentadecanes(15)	2.544	3.385	3.555
Hexadecanes(16)	1.883	2.679	2.836
Heptadecanes(17)	1.634	2.458	2.627
Octadecanes(18)	1.514	2.397	2.577
Nonadecanes(19)	1.353	2.231	2.413
Eicosanes(20)	1.007	1.727	1.879
Heneicosanes(21)	0.889	1.604	1.755
Docosanes(22)	0.788	1.481	1.630
Tricosanes(23)	0.686	1.336	1.479
Tetracosanes(24)	0.592	1.195	1.329
Pentacosanes(25)	0.530	1.111	1.241
Hexacosanes(26)	0.461	1.002	1.124
Heptacosanes(27)	0.433	0.976	1.100
Octacosanes(28)	0.419	0.975	1.102
Nonacosanes(29)	0.304	0.731	0.829
Triacontanes(30)	0.316	0.783	0.891
Hentriacontanes Plus(31+)	4.299	13.333	15.806
Total	100.000	100.000	100.000

Flaring Summary

	8/22/2022
battery	Sum(TOTAL F...
Apollo State Com CTB A	63.20
Grand total	63.20

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

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 139897
	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.

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

QUESTIONS

Action 139897

QUESTIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 139897
	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	**[fAPP2134729294] Apollo A CTB**

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional 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	69
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	0
Oxygen (02) 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 Sufide (H2S) PPM quality requirement	*Not answered.*
Carbon Dioxide (C02) percentage quality requirement	*Not answered.*
Oxygen (02) percentage quality requirement	*Not answered.*

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

QUESTIONS (continued)

Operator:	OGRID:
TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	372043
	Action Number: 139897
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	08/22/2022
Time vent or flare was discovered or commenced	12:01 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	1

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 | Valve | Natural Gas Flared | Released: 63 Mcf | Recovered: 0 Mcf | Lost: 63 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 a higher-than-normal flare volume due to downtime on the oil tank flare valve. Tap Rock also saw flare volumes due to flash gas coming off 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. I&E has parts on order. 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 a higher-than-normal flare volume due to downtime on the oil tank flare valve. Tap Rock also saw flare volumes due to flash gas coming off 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. I&E has parts on order. If flaring continues Tap Rock will alter the facility by placing additional gas takeaway equipment.

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

ACKNOWLEDGMENTS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 139897
	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.

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

CONDITIONS

Action 139897

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 139897
	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.	8/31/2022