

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. 134H  
 First Stage Separator  
 Spot Gas Sample @ 200 psig & 135 °F

Date Sampled: 11/10/2021

Job Number: 213092.001

**CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286**

COMPONENT	MOL%	GPM
Hydrogen Sulfide*	< 0.001	
Nitrogen	0.878	
Carbon Dioxide	0.144	
Methane	71.480	
Ethane	11.081	3.040
Propane	5.718	1.616
Isobutane	1.087	0.365
n-Butane	2.750	0.889
2-2 Dimethylpropane	0.011	0.004
Isopentane	1.058	0.397
n-Pentane	1.346	0.501
Hexanes	1.696	0.717
Heptanes Plus	<u>2.751</u>	<u>1.195</u>
Totals	100.000	8.724

**Computed Real Characteristics Of Heptanes Plus:**

Specific Gravity -----	3.445	(Air=1)
Molecular Weight -----	99.18	
Gross Heating Value -----	5373	BTU/CF

**Computed Real Characteristics Of Total Sample:**

Specific Gravity -----	0.896	(Air=1)
Compressibility (Z) -----	0.9940	
Molecular Weight -----	25.79	
Gross Heating Value		
Dry Basis -----	1552	BTU/CF
Saturated Basis -----	1526	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: (24) DM  
 Analyst: RG  
 Processor: KV  
 Cylinder ID: T-1327

Certified: FESCO, Ltd. - Alice, Texas

\_\_\_\_\_  
 Conan Pierce 361-661-7015

FESCO, Ltd.

Job Number: 213092.001

**CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286  
TOTAL REPORT**

COMPONENT	MOL %	GPM	WT %
Hydrogen Sulfide*	< 0.001		< 0.001
Nitrogen	0.878		0.954
Carbon Dioxide	0.144		0.246
Methane	71.480		44.457
Ethane	11.081	3.040	12.918
Propane	5.718	1.616	9.776
Isobutane	1.087	0.365	2.450
n-Butane	2.750	0.889	6.197
2,2 Dimethylpropane	0.011	0.004	0.031
Isopentane	1.058	0.397	2.960
n-Pentane	1.346	0.501	3.765
2,2 Dimethylbutane	0.026	0.011	0.087
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.126	0.053	0.421
2 Methylpentane	0.506	0.215	1.691
3 Methylpentane	0.284	0.119	0.949
n-Hexane	0.754	0.318	2.519
Methylcyclopentane	0.297	0.108	0.969
Benzene	0.048	0.014	0.145
Cyclohexane	0.330	0.115	1.077
2-Methylhexane	0.138	0.066	0.536
3-Methylhexane	0.151	0.071	0.587
2,2,4 Trimethylpentane	0.087	0.046	0.385
Other C7's	0.277	0.124	1.065
n-Heptane	0.325	0.154	1.263
Methylcyclohexane	0.380	0.157	1.447
Toluene	0.080	0.027	0.286
Other C8's	0.389	0.186	1.662
n-Octane	0.093	0.049	0.412
Ethylbenzene	0.005	0.002	0.021
M & P Xylenes	0.025	0.010	0.103
O-Xylene	0.004	0.002	0.016
Other C9's	0.101	0.053	0.494
n-Nonane	0.010	0.006	0.050
Other C10's	0.009	0.005	0.049
n-Decane	0.001	0.001	0.006
Undecanes (11)	<u>0.001</u>	<u>0.001</u>	<u>0.006</u>
Totals	100.000	8.724	100.000

Computed Real Characteristics of Total Sample

Specific Gravity -----	0.896	(Air=1)
Compressibility (Z) -----	0.9940	
Molecular Weight -----	25.79	
Gross Heating Value		
Dry Basis -----	1552	BTU/CF
Saturated Basis -----	1526	BTU/CF

November 22, 2021

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

**Sample:** Apollo State Com No. 134H  
 First Stage Separator  
 Spot Gas Sample @ 200 psig & 135 °F

Date Sampled: 11/10/2021

Job Number: 213092.001

**GLYCALC FORMAT**

<b>COMPONENT</b>	<b>MOL%</b>	<b>GPM</b>	<b>Wt %</b>
Carbon Dioxide	0.144		0.246
Hydrogen Sulfide	< 0.001		< 0.001
Nitrogen	0.878		0.954
Methane	71.480		44.457
Ethane	11.081	3.040	12.918
Propane	5.718	1.616	9.776
Isobutane	1.087	0.365	2.450
n-Butane	2.761	0.894	6.228
Isopentane	1.058	0.397	2.960
n-Pentane	1.346	0.501	3.765
Cyclopentane	0.000	0.000	0.000
n-Hexane	0.754	0.318	2.519
Cyclohexane	0.330	0.115	1.077
Other C6's	0.942	0.399	3.148
Heptanes	1.188	0.522	4.420
Methylcyclohexane	0.380	0.157	1.447
2,2,4 Trimethylpentane	0.087	0.046	0.385
Benzene	0.048	0.014	0.145
Toluene	0.080	0.027	0.286
Ethylbenzene	0.005	0.002	0.021
Xylenes	0.029	0.012	0.119
Octanes Plus	<u>0.604</u>	<u>0.300</u>	<u>2.679</u>
Totals	100.000	8.724	100.000

**Real Characteristics Of Octanes Plus:**

Specific Gravity ----- 3.974 (Air=1)  
 Molecular Weight ----- 114.41  
 Gross Heating Value ----- 5965 BTU/CF

**Real Characteristics Of Total Sample:**

Specific Gravity ----- 0.896 (Air=1)  
 Compressibility (Z) ----- 0.9940  
 Molecular Weight ----- 25.79  
 Gross Heating Value  
 Dry Basis ----- 1552 BTU/CF  
 Saturated Basis ----- 1526 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. 134H  
 First Stage Separator Hydrocarbon Liquid  
 Sampled @ 200 psig & 135°F

Date Sampled: 11/10/2021

Job Number: 213092.002

**CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2186-M**

COMPONENT	MOL %	LIQ VOL %	WT %
Nitrogen	0.042	0.008	0.009
Carbon Dioxide	0.020	0.006	0.006
Methane	5.163	1.519	0.601
Ethane	3.086	1.433	0.674
Propane	3.919	1.875	1.255
Isobutane	1.256	0.713	0.530
n-Butane	3.976	2.176	1.678
2,2 Dimethylpropane	0.030	0.020	0.016
Isopentane	2.315	1.470	1.213
n-Pentane	3.310	2.083	1.734
2,2 Dimethylbutane	0.077	0.056	0.048
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.313	0.223	0.196
2 Methylpentane	1.902	1.371	1.190
3 Methylpentane	1.063	0.753	0.665
n-Hexane	3.292	2.350	2.060
Heptanes Plus	<u>70.236</u>	<u>83.943</u>	<u>88.125</u>
Totals:	100.000	100.000	100.000

**Characteristics of Heptanes Plus:**

Specific Gravity ----- 0.7955 (Water=1)  
 °API Gravity ----- 46.38 @ 60°F  
 Molecular Weight ----- 172.8  
 Vapor Volume ----- 14.25 CF/Gal  
 Weight ----- 6.63 Lbs/Gal

**Characteristics of Total Sample:**

Specific Gravity ----- 0.7577 (Water=1)  
 °API Gravity ----- 55.25 @ 60°F  
 Molecular Weight ----- 137.7  
 Vapor Volume ----- 17.03 CF/Gal  
 Weight ----- 6.31 Lbs/Gal

Base Conditions: 15.025 PSI & 60 °F

Certified: FESCO, Ltd. - Alice, Texas

Sampled By: (24) DM  
 Analyst: JL  
 Processor: HBdjv  
 Cylinder ID: W-0401

Conan Pierce 361-661-7015

FESCO, Ltd.

## TOTAL EXTENDED REPORT - GPA 2186-M

Job Number: 213092.002

COMPONENT	Mol %	LiqVol %	Wt %
Nitrogen	0.042	0.008	0.009
Carbon Dioxide	0.020	0.006	0.006
Methane	5.163	1.519	0.601
Ethane	3.086	1.433	0.674
Propane	3.919	1.875	1.255
Isobutane	1.256	0.713	0.530
n-Butane	3.976	2.176	1.678
2,2 Dimethylpropane	0.030	0.020	0.016
Isopentane	2.315	1.470	1.213
n-Pentane	3.310	2.083	1.734
2,2 Dimethylbutane	0.077	0.056	0.048
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.313	0.223	0.196
2 Methylpentane	1.902	1.371	1.190
3 Methylpentane	1.063	0.753	0.665
n-Hexane	3.292	2.350	2.060
Methylcyclopentane	0.865	0.532	0.529
Benzene	0.126	0.061	0.072
Cyclohexane	1.280	0.756	0.782
2-Methylhexane	0.842	0.680	0.613
3-Methylhexane	0.804	0.641	0.585
2,2,4 Trimethylpentane	0.527	0.476	0.437
Other C-7's	1.095	0.853	0.788
n-Heptane	2.274	1.822	1.655
Methylcyclohexane	3.263	2.277	2.326
Toluene	0.900	0.523	0.602
Other C-8's	6.314	5.298	5.053
n-Octane	2.314	2.058	1.919
E-Benzene	0.365	0.245	0.281
M & P Xylenes	1.234	0.831	0.951
O-Xylene	0.808	0.534	0.623
Other C-9's	4.970	4.658	4.556
n-Nonane	1.750	1.709	1.629
Other C-10's	5.350	5.511	5.488
n-decane	1.362	1.451	1.407
Undecanes(11)	5.328	5.630	5.686
Dodecanes(12)	3.991	4.555	4.665
Tridecanes(13)	3.845	4.706	4.886
Tetradecanes(14)	3.011	3.948	4.154
Pentadecanes(15)	2.664	3.742	3.985
Hexadecanes(16)	1.958	2.938	3.156
Heptadecanes(17)	1.742	2.764	2.997
Octadecanes(18)	1.587	2.652	2.892
Nonadecanes(19)	1.396	2.430	2.667
Eicosanes(20)	1.035	1.873	2.066
Heneicosanes(21)	0.900	1.714	1.903
Docosanes(22)	0.789	1.565	1.747
Tricosanes(23)	0.688	1.416	1.589
Tetracosanes(24)	0.589	1.254	1.414
Pentacosanes(25)	0.496	1.096	1.242
Hexacosanes(26)	0.466	1.068	1.216
Heptacosanes(27)	0.419	0.995	1.138
Octacosanes(28)	0.366	0.899	1.031
Nonacosanes(29)	0.279	0.709	0.816
Triacotanes(30)	0.272	0.710	0.820
Hentriacotanes Plus(31+)	<u>1.971</u>	<u>6.364</u>	<u>7.757</u>
Total	100.000	100.000	100.000

Flaring Summary

date » (Column Names)

Data table:  
flare\_report\_data (2)

Colors:  
All values

battery	
	7/29/2022
Apollo State Com CTB D	84.00
Grand total	84.00

battery

Sum(TOTAL FLARE (HP + LP))

**District I**  
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**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 133009

**DEFINITIONS**

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 133009
	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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**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 133009

**QUESTIONS**

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 133009
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b>	
<i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Well	Not answered.
Incident Facility	[fAPP2134729508] Apollo D CTB

<b>Determination of Reporting Requirements</b>	
<i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
Was this vent or flare caused by an emergency or malfunction	Yes
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.
<i>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.</i>	
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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

<b>Equipment Involved</b>	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	71
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	0
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
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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**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 133009

**QUESTIONS (continued)**

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 133009
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	07/29/2022
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   Treating Tower   Natural Gas Flared   Released: 84 Mcf   Recovered: 0 Mcf   Lost: 84 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.	True
Please explain reason for why this event was beyond this operator's control	Tap Rock saw a higher than normal flare volume due to continuous issues with the VRU unit on location. The downtime increased low pressure 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. Tap Rock is working on the VRU and plans to bring on the wells slowly after the problem is corrected. No timetable has been given.
Steps taken to limit the duration and magnitude of vent or flare	Tap Rock saw a higher than normal flare volume due to continuous issues with the VRU unit on location. The downtime increased low pressure 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. Tap Rock is working on the VRU and plans to bring on the wells slowly after the problem is corrected. No timetable has been given.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Tap Rock saw a higher than normal flare volume due to continuous issues with the VRU unit on location. The downtime increased low pressure 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. Tap Rock is working on the VRU and plans to bring on the wells slowly after the problem is corrected. No timetable has been given.

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ACKNOWLEDGMENTS

Action 133009

**ACKNOWLEDGMENTS**

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 133009
	Action Type: [C-129] Venting and/or Flaring (C-129)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	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 <b>complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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 133009

**CONDITIONS**

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 133009
	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.	8/11/2022