

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. 132H  
First Stage Separator  
Spot Gas Sample @ 255 psig & 123 °F

Date Sampled: 11/10/2021

Job Number: 213091.001

**CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286**

COMPONENT	MOL%	GPM
Hydrogen Sulfide*	< 0.001	
Nitrogen	1.178	
Carbon Dioxide	0.112	
Methane	66.667	
Ethane	11.725	3.221
Propane	6.542	1.851
Isobutane	1.159	0.390
n-Butane	3.214	1.041
2-2 Dimethylpropane	0.010	0.004
Isopentane	1.477	0.555
n-Pentane	2.140	0.797
Hexanes	2.404	1.017
Heptanes Plus	<u>3.372</u>	<u>1.395</u>
Totals	100.000	10.270

**Computed Real Characteristics Of Heptanes Plus:**

Specific Gravity ----- 3.330 (Air=1)  
Molecular Weight ----- 95.76  
Gross Heating Value ----- 5175 BTU/CF

**Computed Real Characteristics Of Total Sample:**

Specific Gravity ----- 0.972 (Air=1)  
Compressibility (Z) ----- 0.9929  
Molecular Weight ----- 27.94  
Gross Heating Value  
Dry Basis ----- 1666 BTU/CF  
Saturated Basis ----- 1638 BTU/CF

\*Hydrogen Sulfide tested on location by: Stain Tube Method (GPA 2377)  
Results: 0.063 Gr/100 CF, 1.0 PPMV or 0.0001 Mol%

Base Conditions: 15.025 PSI &amp; 60 Deg F

Sampled By: (24) DM  
Analyst: RG  
Processor: KV  
Cylinder ID: T-5421

Certified: FESCO, Ltd. - Alice, Texas

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Conan Pierce 361-661-7015

FESCO, Ltd.

Job Number: 213091.001

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

COMPONENT	MOL %	GPM	WT %
Hydrogen Sulfide*	< 0.001		< 0.001
Nitrogen	1.178		1.181
Carbon Dioxide	0.112		0.176
Methane	66.667		38.273
Ethane	11.725	3.221	12.617
Propane	6.542	1.851	10.323
Isobutane	1.159	0.390	2.411
n-Butane	3.214	1.041	6.685
2,2 Dimethylpropane	0.010	0.004	0.026
Isopentane	1.477	0.555	3.814
n-Pentane	2.140	0.797	5.525
2,2 Dimethylbutane	0.025	0.011	0.077
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.173	0.073	0.534
2 Methylpentane	0.724	0.309	2.233
3 Methylpentane	0.387	0.162	1.193
n-Hexane	1.095	0.462	3.377
Methylcyclopentane	0.375	0.136	1.129
Benzene	0.187	0.054	0.523
Cyclohexane	0.678	0.237	2.042
2-Methylhexane	0.139	0.066	0.498
3-Methylhexane	0.153	0.072	0.549
2,2,4 Trimethylpentane	0.079	0.042	0.323
Other C7's	0.267	0.119	0.948
n-Heptane	0.345	0.163	1.237
Methylcyclohexane	0.471	0.194	1.655
Toluene	0.160	0.055	0.528
Other C8's	0.291	0.139	1.148
n-Octane	0.080	0.042	0.327
Ethylbenzene	0.006	0.002	0.023
M & P Xylenes	0.029	0.012	0.110
O-Xylene	0.005	0.002	0.019
Other C9's	0.076	0.040	0.343
n-Nonane	0.011	0.006	0.050
Other C10's	0.015	0.009	0.076
n-Decane	0.002	0.001	0.010
Undecanes (11)	<u>0.003</u>	<u>0.002</u>	<u>0.017</u>
Totals	100.000	10.270	100.000

Computed Real Characteristics of Total Sample

Specific Gravity -----	0.972	(Air=1)
Compressibility (Z) -----	0.9929	
Molecular Weight -----	27.94	
Gross Heating Value		
Dry Basis -----	1666	BTU/CF
Saturated Basis -----	1638	BTU/CF

November 22, 2021

**FESCO, Ltd.****1100 Fesco Ave. - Alice, Texas 78332****Sample:** Apollo State Com No. 132H

First Stage Separator

Spot Gas Sample @ 255 psig &amp; 123 °F

Date Sampled: 11/10/2021

Job Number: 213091.001

**GLYCALC FORMAT**

<b>COMPONENT</b>	<b>MOL%</b>	<b>GPM</b>	<b>Wt %</b>
Carbon Dioxide	0.112		0.176
Hydrogen Sulfide	< 0.001		< 0.001
Nitrogen	1.178		1.181
Methane	66.667		38.273
Ethane	11.725	3.221	12.617
Propane	6.542	1.851	10.323
Isobutane	1.159	0.390	2.411
n-Butane	3.224	1.045	6.711
Isopentane	1.477	0.555	3.814
n-Pentane	2.140	0.797	5.525
Cyclopentane	0.000	0.000	0.000
n-Hexane	1.095	0.462	3.377
Cyclohexane	0.678	0.237	2.042
Other C6's	1.309	0.554	4.037
Heptanes	1.279	0.558	4.361
Methylcyclohexane	0.471	0.194	1.655
2,2,4 Trimethylpentane	0.079	0.042	0.323
Benzene	0.187	0.054	0.523
Toluene	0.160	0.055	0.528
Ethylbenzene	0.006	0.002	0.023
Xylenes	0.034	0.014	0.129
Octanes Plus	<u>0.478</u>	<u>0.239</u>	<u>1.971</u>
Totals	100.000	10.270	100.000

**Real Characteristics Of Octanes Plus:**

Specific Gravity ----- 4.008 (Air=1)  
Molecular Weight ----- 115.25  
Gross Heating Value ----- 6031 BTU/CF

**Real Characteristics Of Total Sample:**

Specific Gravity ----- 0.972 (Air=1)  
Compressibility (Z) ----- 0.9929  
Molecular Weight ----- 27.94  
Gross Heating Value  
Dry Basis ----- 1666 BTU/CF  
Saturated Basis ----- 1638 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. 132H  
First Stage Separator Hydrocarbon Liquid  
Sampled @ 255 psig & 123°F

Date Sampled: 11/10/2021

Job Number: 213091.002

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

COMPONENT	MOL %	LIQ VOL %	WT %
Nitrogen	0.170	0.034	0.036
Carbon Dioxide	0.029	0.009	0.010
Methane	6.111	1.877	0.740
Ethane	4.540	2.201	1.030
Propane	6.243	3.117	2.078
Isobutane	1.737	1.030	0.762
n-Butane	5.457	3.118	2.394
2,2 Dimethylpropane	0.085	0.059	0.046
Isopentane	2.672	1.771	1.455
n-Pentane	3.866	2.539	2.105
2,2 Dimethylbutane	0.052	0.039	0.033
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.289	0.215	0.188
2 Methylpentane	1.905	1.433	1.239
3 Methylpentane	0.952	0.705	0.619
n-Hexane	2.951	2.199	1.919
Heptanes Plus	<u>62.940</u>	<u>79.655</u>	<u>85.346</u>
Totals:	100.000	100.000	100.000

**Characteristics of Heptanes Plus:**

Specific Gravity -----	0.8153 (Water=1)
°API Gravity -----	42.05 @ 60°F
Molecular Weight -----	179.7
Vapor Volume -----	14.04 CF/Gal
Weight -----	6.79 Lbs/Gal

**Characteristics of Total Sample:**

Specific Gravity -----	0.7610 (Water=1)
°API Gravity -----	54.45 @ 60°F
Molecular Weight -----	132.5
Vapor Volume -----	17.77 CF/Gal
Weight -----	6.34 Lbs/Gal

Base Conditions: 15.025 PSI &amp; 60 °F

Certified: FESCO, Ltd. - Alice, Texas

Sampled By: (24) DM  
Analyst: JL  
Processor: HBdjv  
Cylinder ID: W-1726

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Conan Pierce 361-661-7015

FESCO, Ltd.

Job Number: 213091.002

## TOTAL EXTENDED REPORT - GPA 2186-M

COMPONENT	Mol %	LiqVol %	Wt %
Nitrogen	0.170	0.034	0.036
Carbon Dioxide	0.029	0.009	0.010
Methane	6.111	1.877	0.740
Ethane	4.540	2.201	1.030
Propane	6.243	3.117	2.078
Isobutane	1.737	1.030	0.762
n-Butane	5.457	3.118	2.394
2,2 Dimethylpropane	0.085	0.059	0.046
Isopentane	2.672	1.771	1.455
n-Pentane	3.866	2.539	2.105
2,2 Dimethylbutane	0.052	0.039	0.033
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.289	0.215	0.188
2 Methylpentane	1.905	1.433	1.239
3 Methylpentane	0.952	0.705	0.619
n-Hexane	2.951	2.199	1.919
Methylcyclopentane	0.695	0.446	0.442
Benzene	0.321	0.163	0.189
Cyclohexane	1.734	1.070	1.102
2-Methylhexane	0.666	0.561	0.504
3-Methylhexane	0.616	0.513	0.466
2,2,4 Trimethylpentane	0.361	0.340	0.311
Other C-7's	0.747	0.595	0.559
n-Heptane	1.961	1.640	1.483
Methylcyclohexane	3.230	2.353	2.394
Toluene	1.398	0.849	0.972
Other C-8's	4.580	3.930	3.809
n-Octane	2.003	1.860	1.727
E-Benzene	0.442	0.309	0.354
M & P Xylenes	1.305	0.918	1.046
O-Xylene	0.380	0.262	0.305
Other C-9's	3.989	3.824	3.801
n-Nonane	1.779	1.814	1.721
Other C-10's	4.443	4.679	4.737
n-decane	1.351	1.503	1.451
Undecanes(11)	4.517	4.881	5.011
Dodecanes(12)	3.298	3.850	4.007
Tridecanes(13)	3.348	4.190	4.421
Tetradecanes(14)	2.785	3.733	3.993
Pentadecanes(15)	2.450	3.518	3.808
Hexadecanes(16)	1.786	2.741	2.992
Heptadecanes(17)	1.557	2.527	2.784
Octadecanes(18)	1.450	2.479	2.748
Nonadecanes(19)	1.265	2.252	2.511
Eicosanes(20)	0.928	1.718	1.927
Heneicosanes(21)	0.794	1.546	1.744
Docosanes(22)	0.695	1.409	1.599
Tricosanes(23)	0.609	1.280	1.460
Tetracosanes(24)	0.497	1.082	1.240
Pentacosanes(25)	0.467	1.056	1.216
Hexacosanes(26)	0.391	0.915	1.058
Heptacosanes(27)	0.364	0.883	1.026
Octacosanes(28)	0.333	0.836	0.974
Nonacosanes(29)	0.262	0.680	0.795
Triacotanes(30)	0.210	0.563	0.661
Hentriacotanes Plus(31+)	<u>2.933</u>	<u>9.887</u>	<u>11.999</u>
Total	100.000	100.000	100.000

Flaring Summary

battery	8/17/2022
	Sum(TOTAL F...
Apollo State Com CTB B	125.00
Grand total	125.00

date » (Column Names)

Data table:  
flare\_report\_data (2)  
Colors:  
All values

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 139004

DEFINITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 139004
	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: <ul style="list-style-type: none"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul>
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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 139004

**QUESTIONS**

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 139004
	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	[fAPP2134535440] Apollo B 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 <b>ANY</b> 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	67
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

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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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 139004

QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 139004
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	08/17/2022
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	2

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Midstream Scheduled Maintenance   Gas Compressor Station   Natural Gas Flared   Released: 125 Mcf   Recovered: 0 Mcf   Lost: 125 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	Yes
Was notification of downstream activity received by this operator	Yes
Downstream OGRID that should have notified this operator	[372422] LUCID ENERGY DELAWARE, LLC
Date notified of downstream activity requiring this vent or flare	08/02/2022
Time notified of downstream activity requiring this vent or flare	03:28 PM

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 the compressor go down for maintenance. Due to this the facility was shut in, but not before Tap Rock flared over the regulated volumes. The malfunction of the equipment is still under investigation. Tap Rock also 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. 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 the compressor go down for maintenance. Due to this the facility was shut in, but not before Tap Rock flared over the regulated volumes. The malfunction of the equipment is still under investigation. Tap Rock also 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. If flaring continues Tap Rock will alter the facility by placing additional gas takeaway equipment.

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

ACKNOWLEDGMENTS

Action 139004

**ACKNOWLEDGMENTS**

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 139004
	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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**Energy, Minerals and Natural Resources**  
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CONDITIONS  
  
Action 139004

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 139004
	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.	8/29/2022