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. 203H

First Stage Separator

Spot Gas Sample @ 156 psig & 124 °F

Date Sampled: 11/10/2021 Job Number: 213097.001

## **CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286**

COMPONENT	MOL%	GPM
Hydrogen Sulfide*	< 0.001	
Nitrogen	1.075	
Carbon Dioxide	0.120	
Methane	70.995	
Ethane	12.531	3.436
Propane	6.662	1.882
Isobutane	1.018	0.342
n-Butane	2.527	0.817
2-2 Dimethylpropane	0.007	0.003
Isopentane	0.751	0.282
n-Pentane	0.966	0.359
Hexanes	1.149	0.485
Heptanes Plus	<u>2.199</u>	<u>0.924</u>
Totals	100.000	8.529

## **Computed Real Characteristics Of Heptanes Plus:**

Specific Gravity	3.378	(Air=1)
Molecular Weight	97.30	
Gross Heating Value	5256	BTU/CF

## Computed Real Characteristics Of Total Sample:

Specific Gravity	0.864	(Air=1)
Compressibility (Z)	0.9945	
Molecular Weight	24.88	
Gross Heating Value		
Dry Basis	1500	BTU/CF
Saturated Basis	1474	BTU/CF

<sup>\*</sup>Hydrogen Sulfide tested on location by: Stain Tube Method (GPA 2377)

Results: 0.031 Gr/100 CF, 0.5 PPMV or <0.0001 Mol%

Base Conditions: 15.025 PSI & 60 Deg F

Sampled By: (14) LAT Certified: FESCO, Ltd. - Alice, Texas Analyst: RG Processor: KV Cylinder ID: T-5830

Conan Pierce 361-661-7015

Page 1 of 3

FESCO, Ltd. Job Number: 213097.001

## CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286 TOTAL REPORT

COMPONENT	MOL %	GPM		WT %
Hydrogen Sulfide*	< 0.001			< 0.001
Nitrogen	1.075			1.210
Carbon Dioxide	0.120			0.212
Methane	70.995			45.774
Ethane	12.531	3.436		15.143
Propane	6.662	1.882		11.806
Isobutane	1.018	0.342		2.378
n-Butane	2.527	0.817		5.903
2,2 Dimethylpropane	0.007	0.003		0.020
Isopentane	0.751	0.282		2.178
n-Pentane	0.966	0.359		2.801
2,2 Dimethylbutane	0.011	0.005		0.038
Cyclopentane	0.000	0.000		0.000
2,3 Dimethylbutane	0.080	0.034		0.277
2 Methylpentane	0.331	0.141		1.146
3 Methylpentane	0.180	0.075		0.623
n-Hexane	0.547	0.231		1.894
Methylcyclopentane	0.201	0.073		0.680
Benzene	0.103	0.030		0.323
Cyclohexane	0.403	0.141		1.363
2-Methylhexane	0.086	0.041		0.346
3-Methylhexane	0.097	0.046		0.391
2,2,4 Trimethylpentane	0.052	0.028		0.239
Other C7's	0.166	0.074		0.662
n-Heptane	0.233	0.110		0.938
Methylcyclohexane	0.334	0.138		1.318
Toluene	0.113	0.039		0.418
Other C8's	0.217	0.103		0.961
n-Octane	0.061	0.032		0.280
Ethylbenzene	0.005	0.002		0.021
M & P Xylenes	0.021	0.008		0.090
O-Xylene	0.004	0.002		0.017
Other C9's	0.060	0.031		0.304
n-Nonane	0.008	0.005		0.041
Other C10's	0.014	0.008		0.079
n-Decane	0.010	0.006		0.057
Undecanes (11)	<u>0.011</u>	<u>800.0</u>		0.069
Totals	100.000	8.529		100.000
Computed Real Charact				
		0.864	(Air=1)	
		0.9945		
Molecular Weight		24.88		
Gross Heating Value				
		1500	BTU/CF	
Saturated Basis		1474	BTU/CF	

Page 2 of 3

November 22, 2021

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

**Sample:** Apollo State Com No. 203H First Stage Separator

Spot Gas Sample @ 156 psig & 124 °F

Date Sampled: 11/10/2021 Job Number: 213097.001

## **GLYCALC FORMAT**

COMPONENT	MOL%	GPM	Wt %
Carbon Dioxide	0.120		0.212
Hydrogen Sulfide	< 0.001		< 0.001
Nitrogen	1.075		1.210
Methane	70.995		45.774
Ethane	12.531	3.436	15.143
Propane	6.662	1.882	11.806
Isobutane	1.018	0.342	2.378
n-Butane	2.534	0.820	5.923
Isopentane	0.751	0.282	2.178
n-Pentane	0.966	0.359	2.801
Cyclopentane	0.000	0.000	0.000
n-Hexane	0.547	0.231	1.894
Cyclohexane	0.403	0.141	1.363
Other C6's	0.602	0.255	2.084
Heptanes	0.783	0.344	3.017
Methylcyclohexane	0.334	0.138	1.318
2,2,4 Trimethylpentane	0.052	0.028	0.239
Benzene	0.103	0.030	0.323
Toluene	0.113	0.039	0.418
Ethylbenzene	0.005	0.002	0.021
Xylenes	0.025	0.010	0.107
Octanes Plus	<u>0.381</u>	<u>0.194</u>	<u>1.791</u>
Totals	100.000	8.529	100.000

Specific Gravity	4.064	(Air=1)
Molecular Weight	117.08	
Gross Heating Value	6153	BTU/CF

## Real Characteristics Of Total Sample:

Real Characteristics Of Total Sample:		
Specific Gravity	0.864	(Air=1)
Compressibility (Z)	0.9945	
Molecular Weight	24.88	
Gross Heating Value		
Dry Basis	1500	BTU/CF
Saturated Basis	1474	BTU/CF

Page 3 of 3

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. 203H

First Stage Separator Hydrocarbon Liquid

Sampled @ 156 psig & 124°F

Date Sampled: 11/10/2021 Job Number: 213097.002

## CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2186-M

COMPONENT	MOL %	LIQ VOL %	WT %
Nitrogen	0.038	0.007	0.007
Carbon Dioxide	0.021	0.006	0.006
Methane	4.013	1.152	0.448
Ethane	3.277	1.485	0.685
Propane	5.147	2.402	1.578
Isobutane	1.527	0.846	0.617
n-Butane	5.096	2.722	2.059
2,2 Dimethylpropane	0.025	0.016	0.012
Isopentane	2.601	1.612	1.305
n-Pentane	3.868	2.375	1.940
2,2 Dimethylbutane	0.040	0.028	0.024
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.271	0.188	0.163
2 Methylpentane	1.926	1.354	1.154
3 Methylpentane	1.023	0.707	0.613
n-Hexane	3.362	2.342	2.014
Heptanes Plus	<u>67.766</u>	82.756	<u>87.375</u>
Totals:	100.000	100.000	100.000

## **Characteristics of Heptanes Plus:**

Specific Gravity	0.8153	(Water=1)
°API Gravity	42.06	@ 60°F
Molecular Weight	185.5	
Vapor Volume	13.60	CF/Gal
Weight	6.79	Lbs/Gal

## **Characteristics of Total Sample:**

Specific Gravity	0.7722	(Water=1)
°API Gravity	51.74	@ 60°F
Molecular Weight	143.8	
Vapor Volume	16.61	CF/Gal
Weight	6.43	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-1214

Conan Pierce 361-661-7015

Page 1 of 2

FESCO, Ltd. Job Number: 213097.002

TOTAL EXTENDED REPORT - GPA 2186-M

TOTAL EXTENDED REPORT - GFA 2100-W				
COMPONENT	Mol %	LiqVol %	Wt %	
Nitrogen	0.038	0.007	0.007	
Carbon Dioxide	0.021	0.006	0.006	
Methane	4.013	1.152	0.448	
Ethane	3.277	1.485	0.685	
Propane	5.147	2.402	1.578	
Isobutane	1.527	0.846	0.617	
n-Butane	5.096	2.722	2.059	
2,2 Dimethylpropane	0.025	0.016	0.012	
Isopentane	2.601	1.612	1.305	
n-Pentane	3.868	2.375	1.940	
2,2 Dimethylbutane	0.040	0.028	0.024	
Cyclopentane	0.000	0.000	0.000	
2,3 Dimethylbutane	0.271	0.188	0.163	
2 Methylpentane	1.926	1.354	1.154	
3 Methylpentane	1.023	0.707	0.613	
n-Hexane	3.362	2.342	2.014	
Methylcyclopentane	0.722	0.433	0.422	
Benzene	0.353	0.167	0.192	
Cyclohexane	1.798	1.037	1.052	
2-Methylhexane	0.642	0.506	0.447	
3-Methylhexane	0.628	0.489	0.438	
2,2,4 Trimethylpentane	0.387	0.341	0.307	
Other C-7's	0.702	0.526	0.484	
n-Heptane	1.933	1.511	1.347	
Methylcyclohexane	3.318	2.260	2.265	
Toluene	1.393	0.790	0.892	
Other C-8's	4.581	3.693	3.510	
n-Octane	1.982	1.720	1.574	
E-Benzene	0.444	0.290	0.328	
M & P Xylenes	1.281	0.842	0.946	
O-Xylene	0.370	0.238	0.273	
Other C-9's	4.194	3.777	3.681	
n-Nonane	1.552	1.479	1.384	
Other C-10's	4.462	4.416	4.383	
n-decane	1.358	1.412	1.344	
Undecanes(11)	4.603	4.674	4.705	
Dodecanes(12)	3.418	3.749	3.826	
Tridecanes(13)	3.598	4.231	4.377	
Tetradecanes(14)	3.068	3.865	4.053	
Pentadecanes(15)	2.748	3.708	3.936	
Hexadecanes(16)	2.060	2.971	3.180	
Heptadecanes(17)	1.836	2.800	3.026	
Octadecanes(18)	1.808	2.903	3.155	
Nonadecanes(19)	1.503	2.514	2.748	
Eicosanes(20)	1.249	2.172	2.388	
Heneicosanes(21)	1.054	1.928	2.132	
Docosanes(22)	0.977	1.862	2.072	
Tricosanes(23)	0.866	1.712	1.915	
Tetracosanes(24)	0.763	1.563	1.756	
Pentacosanes(25)	0.706	1.499	1.692	
Hexacosanes(26)	0.628	1.383	1.568	
Heptacosanes(27)	0.591	1.348	1.536	
Octacosanes(28)	0.547	1.292	1.477	
Nonacosanes(29)	0.459	1.120	1.284	
Triacontanes(30)	0.441	1.108	1.275	
Hentriacontanes Plus(31+)	<u>2.741</u>	<u>8.425</u>	<u>10.004</u>	
Total	100.000	100.000	100.000	

Page 2 of 2

## Flaring Summary

	8/10/2022
battery	Sum(TOTAL F
Apollo State Com CTB C	130.90
Grand total	130.90

date » (Column Names)

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

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

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 136695

#### **DEFINITIONS**

Operator:	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	136695
	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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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

Action 136695

Phone: (505) 476-3470 Fax: (505) 476-3462		
Q	UESTIONS	
Operator:		OGRID:
TAP ROCK OPERATING, LLC		372043
523 Park Point Drive Golden, CO 80401		Action Number: 136695
		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 w	ith the rest of the questions.
Incident Well	Not answered.	
Incident Facility	[fAPP2134729401] Apollo	ССТВ
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers a	nd may provide addional quidance	
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	r 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 v  Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes	y be a major or minor release under 19.15.29.7 NMAC.
	res	
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	71	
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 spec	cifications 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.	

Action 136695

QUESTIONS, Page 2

# <u>District I</u> 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

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)

Q0_0	0.10 (00:1a:1a0a)	
Operator: TAP ROCK OPERATING, LLC		OGRID: 372043
523 Park Point Drive		Action Number:
Golden, CO 80401		136695 Action Type:
		[C-129] Venting and/or Flaring (C-129)
QUESTIONS		
Date(s) and Time(s)		
Date vent or flare was discovered or commenced	08/10/2022	
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		Treating Tower   Natural Gas Flared   Released: 131 Mcf
	Recovered: 0 Mcf   Lost: 13	
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	l volumes this appears to be a "gas only" report.
	1 00, according to supplied	Totalino and appears to be a gas only Topota
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	False	
and it was beyond this operator's control.		
Please explain reason for why this event was beyond this operator's control	Not answered.	
	Tan Rock saw a higher tha	n 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
Steps taken to limit the duration and magnitude of vent or flare		tanks and an excess amount of oxygen at the tank level. Tap Rock plans to bring on the wells slowly after the problem is corrected.
	No timetable has been give	
		n normal flare volume due to continuous issues with the VRU unit
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare		increased low pressure flare. Tap Rock saw flare volumes due to tanks and an excess amount of oxygen at the tank level. Tap Rock
	is working on the VRU and No timetable has been give	plans to bring on the wells slowly after the problem is corrected.
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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

Action 136695

## **ACKNOWLEDGMENTS**

Operator:	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	136695
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

#### **ACKNOWLEDGMENTS**

V	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 <b>a complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
V	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.
V	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.
V	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.
V	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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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 136695

## **CONDITIONS**

Operator:	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	136695
	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.	8/23/2022