

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

\*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  
 Analyst: RG  
 Processor: KV  
 Cylinder ID: T-5830

Certified: FESCO, Ltd. - Alice, Texas

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 Conan Pierce 361-661-7015

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>0.008</u>	<u>0.069</u>
Totals	100.000	8.529	100.000

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

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**

<b>COMPONENT</b>	<b>MOL%</b>	<b>GPM</b>	<b>Wt %</b>
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

**Real Characteristics Of Octanes Plus:**

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

**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

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>	<u>82.756</u>	<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

FESCO, Ltd.

Job Number: 213097.002

**TOTAL EXTENDED REPORT - GPA 2186-M**

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

FLARING SUMMARY

Battery	Date	Total Flare Vol (mcf)	Hrs Flared	Start	End

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

DEFINITIONS

Action 585620

**DEFINITIONS**

Operator: Jonah Energy LLC 370 17th Street Denver, CO 80202	OGRID: 333010
	Action Number: 585620
	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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**Santa Fe, NM 87505**

QUESTIONS

Action 585620

**QUESTIONS**

Operator: Jonah Energy LLC 370 17th Street Denver, CO 80202	OGRID: 333010
	Action Number: 585620
	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	Unavailable.
Incident Facility	[fAPP2134729401] APOLLO C 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	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.
<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 <b>at least 50 MCF</b> 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 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	1
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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**Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 585620

**QUESTIONS (continued)**

Operator: Jonah Energy LLC 370 17th Street Denver, CO 80202	OGRID: 333010
	Action Number: 585620
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	05/05/2026
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	<i>Not answered.</i>
Natural Gas Flared (Mcf) Details	Cause: Normal Operations   Tank (Any)   Natural Gas Flared   Released: 164 Mcf   Recovered: 0 Mcf   Lost: 164 Mcf.
Other Released Details	<i>Not answered.</i>
Additional details for Measured or Estimated Volume(s). Please specify	<i>Not answered.</i>
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>Yes, according to supplied volumes this appears to be a "gas only" report.</b>

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	<i>Not answered.</i>
Downstream OGRID that should have notified this operator	<i>Not answered.</i>
Date notified of downstream activity requiring this vent or flare	<i>Not answered.</i>
Time notified of downstream activity requiring this vent or flare	<i>Not answered.</i>

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	The location experienced normal operations and the flaring can be attributed to flash gas/tank vapors coming off the tank and going to low pressure flare.
Steps taken to limit the duration and magnitude of vent or flare	Standard PM. Worked with vendor to coordinate service time and minimize downtime.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Standard PM. No way to avoid periodic downtime for maintenance/repairs to address unforeseen issues.



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**Santa Fe, NM 87505**

ACKNOWLEDGMENTS

Action 585620

**ACKNOWLEDGMENTS**

Operator: Jonah Energy LLC 370 17th Street Denver, CO 80202	OGRID: 333010
	Action Number: 585620
	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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**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 585620

**CONDITIONS**

Operator: Jonah Energy LLC 370 17th Street Denver, CO 80202	OGRID: 333010
	Action Number: 585620
	Action Type: [C-129] Venting and/or Flaring (C-129)

**CONDITIONS**

Created By	Condition	Condition Date
mlaruecdh	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.	5/15/2026