

April 19, 2022

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

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

**Sample:** Coonskin Fee No. 111H  
First Stage Separator  
Spot Gas Sample @ 140 psig & 100 °F

Date Sampled: 04/07/2022

Job Number: 221751.001

**CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286**

| COMPONENT           | MOL%         | GPM          |
|---------------------|--------------|--------------|
| Hydrogen Sulfide*   | 1.000        |              |
| Nitrogen            | 1.340        |              |
| Carbon Dioxide      | 10.855       |              |
| Methane             | 68.908       |              |
| Ethane              | 8.741        | 2.394        |
| Propane             | 4.650        | 1.312        |
| Isobutane           | 0.821        | 0.275        |
| n-Butane            | 1.728        | 0.558        |
| 2-2 Dimethylpropane | 0.025        | 0.010        |
| Isopentane          | 0.585        | 0.219        |
| n-Pentane           | 0.507        | 0.188        |
| Hexanes             | 0.394        | 0.166        |
| Heptanes Plus       | <u>0.446</u> | <u>0.182</u> |
| Totals              | 100.000      | 5.304        |

**Computed Real Characteristics Of Heptanes Plus:**

Specific Gravity ----- 3.337 (Air=1)  
Molecular Weight ----- 96.26  
Gross Heating Value ----- 5161 BTU/CF

**Computed Real Characteristics Of Total Sample:**

Specific Gravity ----- 0.842 (Air=1)  
Compressibility (Z) ----- 0.9958  
Molecular Weight ----- 24.28  
Gross Heating Value  
Dry Basis ----- 1174 BTU/CF  
Saturated Basis ----- 1154 BTU/CF

\*Hydrogen Sulfide tested on location by: Stain Tube Method (GPA 2377)  
Results: 628.9 Gr/100 CF, 10000 PPMV or 1.000 Mol %

Base Conditions: 15.025 PSI & 60 Deg F

Sampled By: (24) D. Morales  
Analyst: KV  
Processor: KV  
Cylinder ID: T-3979

Certified: FESCO, Ltd. - Alice, Texas

Conan Pierce 361-661-7015

FESCO, Ltd.

Job Number: 221751.001

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

| COMPONENT              | MOL %        | GPM          | WT %         |
|------------------------|--------------|--------------|--------------|
| Hydrogen Sulfide*      | 1.000        |              | 1.403        |
| Nitrogen               | 1.340        |              | 1.546        |
| Carbon Dioxide         | 10.855       |              | 19.673       |
| Methane                | 68.908       |              | 45.524       |
| Ethane                 | 8.741        | 2.394        | 10.824       |
| Propane                | 4.650        | 1.312        | 8.444        |
| Isobutane              | 0.821        | 0.275        | 1.965        |
| n-Butane               | 1.728        | 0.558        | 4.136        |
| 2,2 Dimethylpropane    | 0.025        | 0.010        | 0.074        |
| Isopentane             | 0.585        | 0.219        | 1.738        |
| n-Pentane              | 0.507        | 0.188        | 1.506        |
| 2,2 Dimethylbutane     | 0.005        | 0.002        | 0.018        |
| Cyclopentane           | 0.000        | 0.000        | 0.000        |
| 2,3 Dimethylbutane     | 0.041        | 0.017        | 0.146        |
| 2 Methylpentane        | 0.123        | 0.052        | 0.437        |
| 3 Methylpentane        | 0.082        | 0.034        | 0.291        |
| n-Hexane               | 0.143        | 0.060        | 0.507        |
| Methylcyclopentane     | 0.054        | 0.020        | 0.187        |
| Benzene                | 0.020        | 0.006        | 0.064        |
| Cyclohexane            | 0.069        | 0.024        | 0.239        |
| 2-Methylhexane         | 0.019        | 0.009        | 0.078        |
| 3-Methylhexane         | 0.023        | 0.011        | 0.095        |
| 2,2,4 Trimethylpentane | 0.000        | 0.000        | 0.000        |
| Other C7's             | 0.035        | 0.016        | 0.143        |
| n-Heptane              | 0.036        | 0.017        | 0.149        |
| Methylcyclohexane      | 0.052        | 0.021        | 0.210        |
| Toluene                | 0.052        | 0.018        | 0.197        |
| Other C8's             | 0.037        | 0.018        | 0.168        |
| n-Octane               | 0.011        | 0.006        | 0.052        |
| Ethylbenzene           | 0.000        | 0.000        | 0.000        |
| M & P Xylenes          | 0.013        | 0.005        | 0.057        |
| O-Xylene               | 0.003        | 0.001        | 0.013        |
| Other C9's             | 0.018        | 0.009        | 0.094        |
| n-Nonane               | 0.003        | 0.002        | 0.016        |
| Other C10's            | 0.000        | 0.000        | 0.000        |
| n-Decane               | 0.001        | 0.001        | 0.006        |
| Undecanes (11)         | <u>0.000</u> | <u>0.000</u> | <u>0.000</u> |
| Totals                 | 100.000      | 5.304        | 100.000      |

Computed Real Characteristics of Total Sample

|                           |        |         |
|---------------------------|--------|---------|
| Specific Gravity -----    | 0.842  | (Air=1) |
| Compressibility (Z) ----- | 0.9958 |         |
| Molecular Weight -----    | 24.28  |         |
| Gross Heating Value       |        |         |
| Dry Basis -----           | 1174   | BTU/CF  |
| Saturated Basis -----     | 1154   | BTU/CF  |

April 19, 2022

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

Sample: Coonskin Fee No. 111H  
First Stage Separator  
Spot Gas Sample @ 140 psig & 100 °F

Date Sampled: 04/07/2022

Job Number: 221751.001

## GLYCALC FORMAT

| COMPONENT              | MOL%    | GPM   | Wt %    |
|------------------------|---------|-------|---------|
| Carbon Dioxide         | 10.855  |       | 19.673  |
| Hydrogen Sulfide       | 1.000   |       | 1.403   |
| Nitrogen               | 1.340   |       | 1.546   |
| Methane                | 68.908  |       | 45.524  |
| Ethane                 | 8.741   | 2.394 | 10.824  |
| Propane                | 4.650   | 1.312 | 8.444   |
| Isobutane              | 0.821   | 0.275 | 1.965   |
| n-Butane               | 1.753   | 0.568 | 4.210   |
| Isopentane             | 0.585   | 0.219 | 1.738   |
| n-Pentane              | 0.507   | 0.188 | 1.506   |
| Cyclopentane           | 0.000   | 0.000 | 0.000   |
| n-Hexane               | 0.143   | 0.060 | 0.507   |
| Cyclohexane            | 0.069   | 0.024 | 0.239   |
| Other C6's             | 0.251   | 0.106 | 0.892   |
| Heptanes               | 0.167   | 0.072 | 0.652   |
| Methylcyclohexane      | 0.052   | 0.021 | 0.210   |
| 2,2,4 Trimethylpentane | 0.000   | 0.000 | 0.000   |
| Benzene                | 0.020   | 0.006 | 0.064   |
| Toluene                | 0.052   | 0.018 | 0.197   |
| Ethylbenzene           | 0.000   | 0.000 | 0.000   |
| Xylenes                | 0.016   | 0.006 | 0.070   |
| Octanes Plus           | 0.070   | 0.035 | 0.336   |
| Totals                 | 100.000 | 5.304 | 100.000 |

## Real Characteristics Of Octanes Plus:

Specific Gravity ----- 4.029 (Air=1)  
Molecular Weight ----- 116.20  
Gross Heating Value ----- 6110 BTU/CF

## Real Characteristics Of Total Sample:

Specific Gravity ----- 0.842 (Air=1)  
Compressibility (Z) ----- 0.9958  
Molecular Weight ----- 24.28  
Gross Heating Value  
Dry Basis ----- 1174 BTU/CF  
Saturated Basis ----- 1154 BTU/CF

April 20, 2022

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

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

**Sample:** Coonskin Fee No. 111H  
First Stage Separator Hydrocarbon Liquid  
Sampled @ 140 psig & 100° F

Date Sampled: 04/07/2022

Job Number: 221751.002

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

| COMPONENT           | MOL %         | LIQ VOL %     | WT %          |
|---------------------|---------------|---------------|---------------|
| Nitrogen            | 0.043         | 0.008         | 0.008         |
| Carbon Dioxide      | 0.899         | 0.257         | 0.264         |
| Methane             | 3.375         | 0.957         | 0.361         |
| Ethane              | 2.230         | 0.998         | 0.448         |
| Propane             | 3.552         | 1.637         | 1.045         |
| Isobutane           | 1.328         | 0.727         | 0.515         |
| n-Butane            | 4.111         | 2.168         | 1.595         |
| 2,2 Dimethylpropane | 0.045         | 0.029         | 0.022         |
| Isopentane          | 3.162         | 1.935         | 1.522         |
| n-Pentane           | 3.548         | 2.151         | 1.708         |
| 2,2 Dimethylbutane  | 0.053         | 0.037         | 0.030         |
| Cyclopentane        | 0.000         | 0.000         | 0.000         |
| 2,3 Dimethylbutane  | 0.562         | 0.385         | 0.323         |
| 2 Methylpentane     | 1.996         | 1.386         | 1.148         |
| 3 Methylpentane     | 1.476         | 1.008         | 0.849         |
| n-Hexane            | 3.257         | 2.241         | 1.873         |
| Heptanes Plus       | <u>70.363</u> | <u>84.078</u> | <u>88.289</u> |
| Totals:             | 100.000       | 100.000       | 100.000       |

**Characteristics of Heptanes Plus:**

|                        |                  |
|------------------------|------------------|
| Specific Gravity ----- | 0.8341 (Water=1) |
| °API Gravity -----     | 38.14 @ 60°F     |
| Molecular Weight ----- | 188.0            |
| Vapor Volume -----     | 13.73 CF/Gal     |
| Weight -----           | 6.95 Lbs/Gal     |

**Characteristics of Total Sample:**

|                        |                  |
|------------------------|------------------|
| Specific Gravity ----- | 0.7943 (Water=1) |
| °API Gravity -----     | 46.64 @ 60°F     |
| Molecular Weight ----- | 149.8            |
| Vapor Volume -----     | 16.40 CF/Gal     |
| Weight -----           | 6.62 Lbs/Gal     |

Base Conditions: 15.025 PSI &amp; 60 °F

Certified: FESCO, Ltd. - Alice, Texas

Sampled By: (24) D. Morales  
Analyst: JL  
Processor: HHdjv  
Cylinder ID: W-0294

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Conan Pierce 361-661-7015

FESCO, Ltd.

Job Number: 221751.002

**TANKS DATA INPUT REPORT - GPA 2186-M**

| COMPONENT              | Mol %        | LiqVol %     | Wt %         |
|------------------------|--------------|--------------|--------------|
| Carbon Dioxide         | 0.899        | 0.257        | 0.264        |
| Nitrogen               | 0.043        | 0.008        | 0.008        |
| Methane                | 3.375        | 0.957        | 0.361        |
| Ethane                 | 2.230        | 0.998        | 0.448        |
| Propane                | 3.552        | 1.637        | 1.045        |
| Isobutane              | 1.328        | 0.727        | 0.515        |
| n-Butane               | 4.156        | 2.197        | 1.616        |
| Isopentane             | 3.162        | 1.935        | 1.522        |
| n-Pentane              | 3.548        | 2.151        | 1.708        |
| Other C-6's            | 4.086        | 2.815        | 2.350        |
| Heptanes               | 7.411        | 5.110        | 4.627        |
| Octanes                | 8.452        | 6.402        | 6.015        |
| Nonanes                | 4.916        | 4.388        | 4.159        |
| Decanes Plus           | 40.633       | 62.714       | 67.545       |
| Benzene                | 0.412        | 0.193        | 0.215        |
| Toluene                | 3.604        | 2.019        | 2.216        |
| E-Benzene              | 1.171        | 0.756        | 0.829        |
| Xylenes                | 3.484        | 2.251        | 2.468        |
| n-Hexane               | 3.257        | 2.241        | 1.873        |
| 2,2,4 Trimethylpentane | <u>0.280</u> | <u>0.244</u> | <u>0.214</u> |
| Totals:                | 100.000      | 100.000      | 100.000      |

**Characteristics of Total Sample:**

|                        |                  |
|------------------------|------------------|
| Specific Gravity ----- | 0.7943 (Water=1) |
| °API Gravity -----     | 46.64 @ 60°F     |
| Molecular Weight-----  | 149.8            |
| Vapor Volume -----     | 16.40 CF/Gal     |
| Weight -----           | 6.62 Lbs/Gal     |

**Characteristics of Decanes (C10) Plus:**

|                        |                  |
|------------------------|------------------|
| Specific Gravity ----- | 0.8555 (Water=1) |
| Molecular Weight-----  | 249.1            |

**Characteristics of Atmospheric Sample:**

|                                              |              |
|----------------------------------------------|--------------|
| °API Gravity -----                           | 42.83 @ 60°F |
| Reid Vapor Pressure Equivalent (D-6377)----- | 8.43 psi     |

| QUALITY CONTROL CHECK |                        |               |
|-----------------------|------------------------|---------------|
|                       | Sampling<br>Conditions | Test Samples  |
| Cylinder Number       | -----                  | W-0294* ----- |
| Pressure, PSIG        | 140                    | 140 -----     |
| Skin Temperature, °F  | 100                    | 100 -----     |

\* Sample used for analysis

FESCO, Ltd.

Job Number: 221751.002

## TOTAL EXTENDED REPORT - GPA 2186-M

| COMPONENT                 | Mol %        | LiqVol %      | Wt %          |
|---------------------------|--------------|---------------|---------------|
| Nitrogen                  | 0.043        | 0.008         | 0.008         |
| Carbon Dioxide            | 0.899        | 0.257         | 0.264         |
| Methane                   | 3.375        | 0.957         | 0.361         |
| Ethane                    | 2.230        | 0.998         | 0.448         |
| Propane                   | 3.552        | 1.637         | 1.045         |
| Isobutane                 | 1.328        | 0.727         | 0.515         |
| n-Butane                  | 4.111        | 2.168         | 1.595         |
| 2,2 Dimethylpropane       | 0.045        | 0.029         | 0.022         |
| Isopentane                | 3.162        | 1.935         | 1.522         |
| n-Pentane                 | 3.548        | 2.151         | 1.708         |
| 2,2 Dimethylbutane        | 0.053        | 0.037         | 0.030         |
| Cyclopentane              | 0.000        | 0.000         | 0.000         |
| 2,3 Dimethylbutane        | 0.562        | 0.385         | 0.323         |
| 2 Methylpentane           | 1.996        | 1.386         | 1.148         |
| 3 Methylpentane           | 1.476        | 1.008         | 0.849         |
| n-Hexane                  | 3.257        | 2.241         | 1.873         |
| Methylcyclopentane        | 1.137        | 0.673         | 0.638         |
| Benzene                   | 0.412        | 0.193         | 0.215         |
| Cyclohexane               | 1.900        | 1.082         | 1.067         |
| 2-Methylhexane            | 1.068        | 0.831         | 0.714         |
| 3-Methylhexane            | 0.906        | 0.696         | 0.606         |
| 2,2,4 Trimethylpentane    | 0.280        | 0.244         | 0.214         |
| Other C-7's               | 0.523        | 0.380         | 0.346         |
| n-Heptane                 | 1.877        | 1.448         | 1.255         |
| Methylcyclohexane         | 3.050        | 2.051         | 1.999         |
| Toluene                   | 3.604        | 2.019         | 2.216         |
| Other C-8's               | 3.797        | 2.975         | 2.793         |
| n-Octane                  | 1.605        | 1.375         | 1.223         |
| E-Benzene                 | 1.171        | 0.756         | 0.829         |
| M & P Xylenes             | 2.704        | 1.756         | 1.916         |
| O-Xylene                  | 0.780        | 0.496         | 0.552         |
| Other C-9's               | 3.614        | 3.163         | 3.045         |
| n-Nonane                  | 1.302        | 1.225         | 1.114         |
| Other C-10's              | 4.816        | 4.631         | 4.540         |
| n-decane                  | 1.247        | 1.281         | 1.184         |
| Undecanes(11)             | 4.403        | 4.344         | 4.319         |
| Dodecanes(12)             | 3.125        | 3.331         | 3.358         |
| Tridecanes(13)            | 3.189        | 3.644         | 3.724         |
| Tetradecanes(14)          | 2.818        | 3.449         | 3.573         |
| Pentadecanes(15)          | 2.484        | 3.257         | 3.415         |
| Hexadecanes(16)           | 1.972        | 2.763         | 2.921         |
| Heptadecanes(17)          | 1.708        | 2.530         | 2.701         |
| Octadecanes(18)           | 1.641        | 2.560         | 2.749         |
| Nonadecanes(19)           | 1.612        | 2.620         | 2.830         |
| Eicosanes(20)             | 1.236        | 2.089         | 2.269         |
| Heneicosanes(21)          | 1.035        | 1.840         | 2.010         |
| Docosanes(22)             | 0.950        | 1.759         | 1.933         |
| Tricosanes(23)            | 0.816        | 1.568         | 1.732         |
| Tetracosanes(24)          | 0.724        | 1.441         | 1.600         |
| Pentacosanes(25)          | 0.651        | 1.344         | 1.499         |
| Hexacosanes(26)           | 0.591        | 1.264         | 1.416         |
| Heptacosanes(27)          | 0.572        | 1.269         | 1.428         |
| Octacosanes(28)           | 0.476        | 1.092         | 1.234         |
| Nonacosanes(29)           | 0.442        | 1.047         | 1.186         |
| Triacontanes(30)          | 0.403        | 0.984         | 1.119         |
| Hentriacontanes Plus(31+) | <u>3.723</u> | <u>12.607</u> | <u>14.806</u> |
| Total                     | 100.000      | 100.000       | 100.000       |

April 20, 2022

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

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

**Date Sampled:** 04/07/22

**Date Analyzed:** 04/18/22

**Sample:** Coonskin Fee No. 111H

**Job Number:** J221751

| FLASH LIBERATION OF HYDROCARBON LIQUID |                     |            |
|----------------------------------------|---------------------|------------|
|                                        | Separator HC Liquid | Stock Tank |
| Pressure, psig                         | 140                 | 0          |
| Skin Temperature, °F                   | 100                 | 70         |
| Gas Oil Ratio (1)                      | -----               | 71.3       |
| Gas Specific Gravity (2)               | -----               | 1.293      |
| Separator Volume Factor (3)            | 1.0725              | 1.000      |

| STOCK TANK FLUID PROPERTIES                      |        |
|--------------------------------------------------|--------|
| Shrinkage Recovery Factor (4)                    | 0.9324 |
| Oil API Gravity at 60 °F                         | 42.83  |
| Reid Vapor Pressure Equivalent (D-6377), psi (5) | 8.43   |

| Quality Control Check |                     |              |       |
|-----------------------|---------------------|--------------|-------|
|                       | Sampling Conditions | Test Samples |       |
| Cylinder No.          | -----               | W-0294*      | ----- |
| Pressure, psig        | 140                 | 140          | ----- |
| Temperature, °F       | 100                 | 100          | ----- |

(1) - Scf of flashed vapor per barrel of stock tank oil

(2) - Air = 1.000

(3) - Separator volume / Stock tank volume

(4) - Fraction of first stage separator liquid

(5) - Absolute pressure at 100 deg F

Analyst: E.T. III

\* Sample used for flash study

**Base Conditions: 15.025 PSI & 60 °F**

Certified: FESCO, Ltd. - Alice, Texas

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Conan Pierce 361-661-7015

April 19, 2022

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

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

**Sample:** Coonskin Fee No. 111H  
Gas Evolved from Hydrocarbon Liquid Flashed  
From 140 psig & 100 °F to 0 psig & 70 °F

Date Sampled: 04/07/2022

Job Number: 221751.011

**CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286**

| COMPONENT           | MOL%         | GPM          |
|---------------------|--------------|--------------|
| Hydrogen Sulfide*   | 0.400        |              |
| Nitrogen            | 0.415        |              |
| Carbon Dioxide      | 9.204        |              |
| Methane             | 33.038       |              |
| Ethane              | 17.690       | 4.881        |
| Propane             | 17.922       | 5.094        |
| Isobutane           | 3.916        | 1.322        |
| n-Butane            | 8.733        | 2.841        |
| 2-2 Dimethylpropane | 0.053        | 0.021        |
| Isopentane          | 2.976        | 1.123        |
| n-Pentane           | 2.494        | 0.933        |
| Hexanes             | 1.690        | 0.718        |
| Heptanes Plus       | <u>1.469</u> | <u>0.595</u> |
| Totals              | 100.000      | 17.527       |

**Computed Real Characteristics Of Heptanes Plus:**

|                           |       |         |
|---------------------------|-------|---------|
| Specific Gravity -----    | 3.296 | (Air=1) |
| Molecular Weight -----    | 94.35 |         |
| Gross Heating Value ----- | 5076  | BTU/CF  |

**Computed Real Characteristics Of Total Sample:**

|                           |        |         |
|---------------------------|--------|---------|
| Specific Gravity -----    | 1.293  | (Air=1) |
| Compressibility (Z) ----- | 0.9884 |         |
| Molecular Weight -----    | 37.00  |         |
| Gross Heating Value ----- |        |         |
| Dry Basis -----           | 1952   | BTU/CF  |
| Saturated Basis -----     | 1918   | BTU/CF  |

\*Hydrogen Sulfide tested in laboratory by: Stain Tube Method (GPA 2377)  
Results: 251.6 Gr/100 CF, 4000 PPMV or 0.400 Mol %

Base Conditions: 15.025 PSI &amp; 60 Deg F

Sampled By: (16) ET III  
Analyst: KV  
Processor: KV  
Cylinder ID: FL-13S

Certified: FESCO, Ltd. - Alice, Texas

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Conan Pierce 361-661-7015

FESCO, Ltd.

Job Number: 221751.011

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

| COMPONENT              | MOL %        | GPM          | WT %         |
|------------------------|--------------|--------------|--------------|
| Hydrogen Sulfide*      | 0.400        |              | 0.368        |
| Nitrogen               | 0.415        |              | 0.314        |
| Carbon Dioxide         | 9.204        |              | 10.946       |
| Methane                | 33.038       |              | 14.325       |
| Ethane                 | 17.690       | 4.881        | 14.374       |
| Propane                | 17.922       | 5.094        | 21.356       |
| Isobutane              | 3.916        | 1.322        | 6.151        |
| n-Butane               | 8.733        | 2.841        | 13.717       |
| 2,2 Dimethylpropane    | 0.053        | 0.021        | 0.103        |
| Isopentane             | 2.976        | 1.123        | 5.802        |
| n-Pentane              | 2.494        | 0.933        | 4.863        |
| 2,2 Dimethylbutane     | 0.025        | 0.011        | 0.058        |
| Cyclopentane           | 0.000        | 0.000        | 0.000        |
| 2,3 Dimethylbutane     | 0.183        | 0.077        | 0.426        |
| 2 Methylpentane        | 0.531        | 0.227        | 1.237        |
| 3 Methylpentane        | 0.352        | 0.148        | 0.820        |
| n-Hexane               | 0.599        | 0.254        | 1.395        |
| Methylcyclopentane     | 0.217        | 0.079        | 0.494        |
| Benzene                | 0.077        | 0.022        | 0.163        |
| Cyclohexane            | 0.268        | 0.094        | 0.610        |
| 2-Methylhexane         | 0.068        | 0.033        | 0.184        |
| 3-Methylhexane         | 0.080        | 0.038        | 0.217        |
| 2,2,4 Trimethylpentane | 0.000        | 0.000        | 0.000        |
| Other C7's             | 0.130        | 0.058        | 0.348        |
| n-Heptane              | 0.115        | 0.055        | 0.311        |
| Methylcyclohexane      | 0.169        | 0.070        | 0.448        |
| Toluene                | 0.145        | 0.050        | 0.361        |
| Other C8's             | 0.099        | 0.048        | 0.295        |
| n-Octane               | 0.026        | 0.014        | 0.080        |
| Ethylbenzene           | 0.012        | 0.005        | 0.034        |
| M & P Xylenes          | 0.023        | 0.009        | 0.066        |
| O-Xylene               | 0.005        | 0.002        | 0.014        |
| Other C9's             | 0.030        | 0.016        | 0.102        |
| n-Nonane               | 0.004        | 0.002        | 0.014        |
| Other C10's            | 0.000        | 0.000        | 0.000        |
| n-Decane               | 0.001        | 0.001        | 0.004        |
| Undecanes (11)         | <u>0.000</u> | <u>0.000</u> | <u>0.000</u> |
| Totals                 | 100.000      | 17.527       | 100.000      |

**Computed Real Characteristics Of Total Sample:**

|                           |        |         |
|---------------------------|--------|---------|
| Specific Gravity -----    | 1.293  | (Air=1) |
| Compressibility (Z) ----- | 0.9884 |         |
| Molecular Weight -----    | 37.00  |         |
| Gross Heating Value       |        |         |
| Dry Basis -----           | 1952   | BTU/CF  |
| Saturated Basis -----     | 1918   | BTU/CF  |

FLARING SUMMARY

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

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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**

DEFINITIONS  
  
Action 338749

DEFINITIONS

|                                                                                        |                                                            |
|----------------------------------------------------------------------------------------|------------------------------------------------------------|
| Operator:<br><br>Civitas Permian Operating, LLC<br>555 17th Street<br>Denver, CO 80202 | OGRID:<br><br>332195                                       |
|                                                                                        | Action Number:<br><br>338749                               |
|                                                                                        | Action Type:<br><br>[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:<br><br><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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QUESTIONS  
  
Action 338749

QUESTIONS

|                                                                                    |                                                        |
|------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>Civitas Permian Operating, LLC<br>555 17th Street<br>Denver, CO 80202 | OGRID:<br>332195                                       |
|                                                                                    | Action Number:<br>338749                               |
|                                                                                    | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

QUESTIONS

|                                                                                                                                                                                            |                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <b>Prerequisites</b><br>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                                                                                                                                                                              | Unavailable.                           |
| Incident Facility                                                                                                                                                                          | [fAPP2330037934] MAN HANDS MULVA CTB C |

|                                                                                                                                                                                                                                                                                     |                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Determination of Reporting Requirements</b><br>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 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                                                |

|                                                           |               |
|-----------------------------------------------------------|---------------|
| <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><br>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                                                                                                                      | 10,000        |
| Carbon Dioxide (C02) percentage, if greater than one percent                                                                                                | 11            |
| 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 Sufide (H2S) PPM quality requirement                                                                                                               | Not answered. |
| Carbon Dioxide (C02) percentage quality requirement                                                                                                         | Not answered. |
| Oxygen (O2) percentage quality requirement                                                                                                                  | Not answered. |

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QUESTIONS, Page 2  
Action 338749

QUESTIONS (continued)

|                                                                                    |                                                        |
|------------------------------------------------------------------------------------|--------------------------------------------------------|
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|                                                                                    | Action Number:<br>338749                               |
|                                                                                    | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

QUESTIONS

| Date(s) and Time(s)                            |            |
|------------------------------------------------|------------|
| Date vent or flare was discovered or commenced | 04/23/2024 |
| 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                                          | Not answered.                                                                                                    |
| Other Released Details                                                    | Cause: Normal Operations   Tank (Any)   Natural Gas Flared   Released: 59 Mcf   Recovered: 0 Mcf   Lost: 59 Mcf. |
| 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                                                      | 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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ACKNOWLEDGMENTS  
  
Action 338749

ACKNOWLEDGMENTS

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|                                                                                        | Action Number:<br><br>338749                               |
|                                                                                        | Action Type:<br><br>[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 338749

CONDITIONS

|                                                                                    |                                                        |
|------------------------------------------------------------------------------------|--------------------------------------------------------|
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|                                                                                    | Action Number:<br>338749                               |
|                                                                                    | Action Type:<br>[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. | 4/29/2024      |