

# Gas Composition and Properties

Effective October 1, 2022 00:00 - January 18, 2038 21:14

Source #: 939

Name: Foundation Amerada St 1

| Component              | Mole %   | Liquid Content | Mass %   | Property               | Total Sample |
|------------------------|----------|----------------|----------|------------------------|--------------|
| Carbon Dioxide (CO2)   | 1.2571   |                | 2.1681   | Pressure Base          | 14.65        |
| Nitrogen (N2)          | 3.2039   |                | 3.5172   | Temperature Base       | 60           |
| Methane (C1)           | 64.7251  |                | 40.6915  | HCDP @ Sample Pressure |              |
| Ethane (C2)            | 12.2547  | 3.2756         | 14.4404  | Cricondentherm         |              |
| Propane (C3)           | 10.1949  | 2.8071         | 17.6171  | HV, Dry @ Base P, T    | 1435.46      |
| Isobutane (IC4)        | 1.4016   | 0.4584         | 3.1924   | HV, Sat @ Base P, T    | 1410.34      |
| n-Butane (NC4)         | 3.9004   | 1.2290         | 8.8840   | HV, Sat @ Sample P, T  |              |
| Isopentane (IC5)       | 0.9317   | 0.3405         | 2.6343   | Relative Density       | 0.8852       |
| n-Pentane (NC5)        | 0.9796   | 0.3549         | 2.7697   |                        |              |
| Hexanes Plus (C6+)     | 1.0514   | 0.4689         | 3.9523   |                        |              |
| Argon (Ar)             |          |                |          |                        |              |
| Carbon Monoxide (CO)   |          |                |          |                        |              |
| Hydrogen (H2)          |          |                |          |                        |              |
| Oxygen (O2)            |          |                |          |                        |              |
| Helium (He)            |          |                |          |                        |              |
| Water (H2O)            |          |                |          |                        |              |
| Hydrogen Sulfide (H2S) | 0.0996   |                | 0.1330   | C6+: 48 - 36 - 17      |              |
| Totals                 | 100.0000 | 8.9350         | 100.0000 |                        |              |

## Sample

Date: 10/20/2022

Type: Spot

Tech: Jason D

Pressure: 27.6 psi Temp.: 58 °F

Gauge: H2O:

Atm. Pressure: H2S: 996 ppm

Remarks:

## Analysis

Date:

Instrument:

Tech:

Cylinder:

Remarks:

\*\*\* End of Report \*\*\*

Enter data in shaded fields to calculate gas volumes released due to leak and blowdown of system.

|                                                                                                           |       |                                                                              |
|-----------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------|
| Hours of leak =                                                                                           | 2     | Example:                                                                     |
| Diameter of hole (inches) =                                                                               | 0.125 | Leak for 4 (est) hours out of a 1/4 inch hole with line pressure of 750 psig |
| Upstream Pressure =                                                                                       | 15    |                                                                              |
| Volume of gas (mcf/hr) loss is equal to the hole diameter squared times the upstream pressure absolute. * |       |                                                                              |

Volume of Gas Leaked = 0.93 Mcf

|                                                                                                           |       |                                                                              |
|-----------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------|
| Hours of leak =                                                                                           | 2     | Example:                                                                     |
| Diameter of hole (inches) =                                                                               | 0.125 | Leak for 4 (est) hours out of a 1/4 inch hole with line pressure of 750 psig |
| Upstream Pressure =                                                                                       | 15    |                                                                              |
| Volume of gas (mcf/hr) loss is equal to the hole diameter squared times the upstream pressure absolute. * |       |                                                                              |

Volume of Gas Leaked = 0.93 Mcf

|                             |         |                                         |
|-----------------------------|---------|-----------------------------------------|
| Footage of Pipe blowdown =  | 20169.6 |                                         |
| Initial line pressure =     | 15      | Calculated factor for line pack = 6.347 |
| Diameter of Pipe (inches) = | 24      |                                         |

|                           |            |                                                                                           |
|---------------------------|------------|-------------------------------------------------------------------------------------------|
| Volume of Gas BlownDown = | 128.02 Mcf | Example:<br>Loss of gas due to blowdown of 7 miles of 12 inch at initial pressure 51 psig |
|---------------------------|------------|-------------------------------------------------------------------------------------------|

|                            |            |                        |         |
|----------------------------|------------|------------------------|---------|
| Total Volume of Gas Loss = | 129.88 Mcf | Reportable             | 50 Mcf  |
|                            |            | Immediate Notification | 500 Mcf |

Comments:

Name : Joseph Tillman Austin | Title : Environmental Specialist

\* Pipeline Rules of Thumb Handbook /2nd Edition

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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 190269

DEFINITIONS

|                                                                                        |                                                        |
|----------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>TARGA MIDSTREAM SERVICES LLC<br>811 Louisiana Street<br>Houston, TX 77002 | OGRID:<br>24650                                        |
|                                                                                        | Action Number:<br>190269                               |
|                                                                                        | Action Type:<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: <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 190269

**QUESTIONS**

|                                                                                        |                                                        |
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|                                                                                        | Action Number:<br>190269                               |
|                                                                                        | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**QUESTIONS**

|                                                                                                                                                                                                   |                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| <b>Prerequisites</b><br><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                                                                                                                                                                                 | [fAPP2123021777] Targa NM Gathering System |

|                                                                                                                                                                                                                                                                                            |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Determination of Reporting Requirements</b><br><i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>                                                                                               |                                                   |
| Was this vent or flare caused by an emergency or malfunction                                                                                                                                                                                                                               | Yes                                               |
| Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event                                                                                                                                                                                 | No                                                |
| Is this considered a submission for a vent or flare event                                                                                                                                                                                                                                  | Yes, minor venting and/or flaring of natural gas. |
| <i>An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.</i>                                                                                     |                                                   |
| Was there <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><br><i>Please provide the mole percent for the percentage questions in this group.</i> |               |
| Methane (CH4) percentage                                                                                                                                           | 65            |
| Nitrogen (N2) percentage, if greater than one percent                                                                                                              | 3             |
| Hydrogen Sulfide (H2S) PPM, rounded up                                                                                                                             | 996           |
| Carbon Dioxide (CO2) percentage, if greater than one percent                                                                                                       | 1             |
| 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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QUESTIONS, Page 2

Action 190269

QUESTIONS (continued)

|                                                                                        |                                                        |
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|                                                                                        | Action Number:<br>190269                               |
|                                                                                        | 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 | 02/10/2023 |
| Time vent or flare was discovered or commenced | 12:00 PM   |
| Time vent or flare was terminated              | 02:00 PM   |
| Cumulative hours during this event             | 2          |

| Measured or Estimated Volume of Vented or Flared Natural Gas              |                                                                                                                        |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Natural Gas Vented (Mcf) Details                                          | Cause: Equipment Failure   Pipeline (Any)   Natural Gas Vented   Released: 130 Mcf   Recovered: 0 Mcf   Lost: 130 Mcf. |
| Natural Gas Flared (Mcf) Details                                          | Not answered.                                                                                                          |
| Other Released Details                                                    | Not answered.                                                                                                          |
| Additional details for Measured or Estimated Volume(s). Please specify    | Not answered.                                                                                                          |
| Is this a gas only submission (i.e. only significant Mcf values reported) | Yes, according to supplied volumes this appears to be a "gas only" report.                                             |

| Venting or Flaring Resulting from Downstream Activity             |               |
|-------------------------------------------------------------------|---------------|
| Was this vent or flare a result of downstream activity            | No            |
| Was notification of downstream activity received by this operator | Not answered. |
| Downstream OGRID that should have notified this operator          | Not answered. |
| Date notified of downstream activity requiring this vent or flare | Not answered. |
| Time notified of downstream activity requiring this vent or flare | Not answered. |

| Steps and Actions to Prevent Waste                                                                                               |                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control. | True                                                                                                                                                                                                  |
| Please explain reason for why this event was beyond this operator's control                                                      | Gas was vented to atmosphere when two leaks were discovered on Targa's 24 inch pipeline. The leaks were caused by corrosion. It was necessary to depressurize the line to atmosphere to make repairs. |
| Steps taken to limit the duration and magnitude of vent or flare                                                                 | Gas was vented to atmosphere until the line was fully depressurized.                                                                                                                                  |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare                                                | The section of pipeline was replaced, and the line was returned to service.                                                                                                                           |

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ACKNOWLEDGMENTS

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**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

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CONDITIONS

| Created By | Condition                                                                                                                                                                          | Condition Date |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| tillmana   | 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. | 2/24/2023      |