



OLA  
3302 Pilot Ave.  
Midland, Texas 79706  
432-789-1860

Report Date: 4/29/2023

## C6 Plus Gas Analysis Report

|               |                     |                |                 |
|---------------|---------------------|----------------|-----------------|
| OLA Customer: | Permian Resources   | Purpose:       | Routine         |
| Operator:     | Permian Resources   | Account Rep:   | Whitney Shipley |
| Well Name:    | Misty 35 Fed Com 4H | Sample ID:     | 01230428021     |
| Meter Number: | WELLHEAD            | Sample Date:   | 4/27/2023       |
| County:       | Delaware Basin      | Received Date: | 4/28/2023       |
| API #:        | 3001541413          | Log Out Date:  | 4/29/2023       |
| Sample Type:  | Gas                 |                |                 |

### Permian Resources, Permian Resources, Misty 35 Fed Com 4H, WELLHEAD

| GC C6 Plus Gas Sample Results                           |          |          |                                |                                    |         |
|---------------------------------------------------------|----------|----------|--------------------------------|------------------------------------|---------|
| Components                                              | Mole %   | Weight % | Liq. Vol. %                    | Sample GPM Characteristics         | Results |
| Carbon Dioxide                                          | 0.1493   | 0.3104   | 0.1328                         | Ethane GPM                         | 3.2830  |
| Nitrogen                                                | 2.0088   | 2.6587   | 1.1525                         | Propane GPM                        | 1.6238  |
| Methane                                                 | 76.58240 | 58.05    | 67.71                          | Isobutane GPM                      | 0.2249  |
| Ethane                                                  | 12.26370 | 17.42    | 17.10                          | NButane GPM                        | 0.5056  |
| Propane                                                 | 5.8880   | 12.27    | 8.4595                         | Isopentane GPM                     | 0.1152  |
| iso-Butane                                              | 0.6866   | 1.8856   | 1.1718                         | NPentane GPM                       | 0.1028  |
| n-Butane                                                | 1.6020   | 4.3992   | 2.6339                         | NHexane GPM                        | 0.0967  |
| iso-Pentane                                             | 0.3147   | 1.0727   | 0.6002                         | NHeptane GPM                       | ND      |
| n-Pentane                                               | 0.2834   | 0.9661   | 0.5358                         | Gasoline GPM (Pentane and Heavier) | ND      |
| C6 Plus                                                 | 0.2210   | 0.9730   | 0.5038                         |                                    |         |
| Totals                                                  | 100.00   | 100      | 100                            | Total GPM (Ethane Inclusive)       | 5.9520  |
| Sample Characteristics                                  |          | Results  | Sample Characteristics         |                                    | Results |
| Sample Temperature (F):                                 |          | 92.00    | Heating Value Basis            |                                    | Dry     |
| Sample Pressure (psi):                                  |          | 106.00   | Heating Value Vol Dry          |                                    | 1248.54 |
|                                                         |          |          | Heating Value Vol Wet          |                                    | 1226.76 |
| Specific Gravity @ 60/60 F, calculated                  |          | 0.7308   |                                |                                    |         |
| Calculated BTU / Real CF @ 14.73 PSIA, dry basis        |          | 1255.90  |                                |                                    |         |
| Calculated BTU / Real CF @ 14.73 PSIA, wet basis        |          | 1233.84  | H2S ppm                        |                                    | ND      |
| Average Molecular Weight                                |          | 21.17    |                                |                                    |         |
| Molar Mass Ratio                                        |          | 0.7304   | VOC Weight Fraction            |                                    | 0.2156  |
| Relative Density ( G x Z (Air) / Z ), calculated        |          | 0.7334   | Higher Heating Value (BTU/ft3) |                                    | 1248.54 |
| Ideal Gross Heating Value, BTU / Ideal CF @ 14.696 PSIA |          | 1248.54  | Lower Heating Value (BTU/ft3)  |                                    | 1132.78 |
| Compressibility Factor (Z)                              |          | 0.9964   |                                |                                    |         |
|                                                         |          |          |                                |                                    |         |
|                                                         |          |          |                                |                                    |         |
|                                                         |          |          |                                |                                    |         |
|                                                         |          |          |                                |                                    |         |

**\*Preliminary Production Data\***

| <u>Well Name</u>     | <u>Production Date</u> | <u>Gas Flare</u> |
|----------------------|------------------------|------------------|
| Misty Ivore 35 CTB 1 | 7/30/2023              | 81 mcf           |

**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

**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

DEFINITIONS

Action 249739

DEFINITIONS

|                                                                                         |                                                        |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>COLGATE OPERATING, LLC<br>300 North Marienfeld Street<br>Midland, TX 79701 | OGRID:<br>371449                                       |
|                                                                                         | Action Number:<br>249739                               |
|                                                                                         | 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> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**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

**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

Action 249739

**QUESTIONS**

|                                                                                         |                                                        |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>COLGATE OPERATING, LLC<br>300 North Marienfeld Street<br>Midland, TX 79701 | OGRID:<br>371449                                       |
|                                                                                         | Action Number:<br>249739                               |
|                                                                                         | 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                                                                                                                                                                                 | [fAPP2216672586] MISTY-IVORE FEDERAL BATTERY |

|                                                                                                                                                                                                                                                                                            |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <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                                                                                                                                                                                                                               | No                                                |
| Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event                                                                                                                                                                                 | Yes                                               |
| 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 at least 50 MCF of natural gas vented and/or flared during this event                                                                                                                                                                                                            | Yes                                               |
| Did this vent or flare result in the release of <b>ANY</b> liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water | No                                                |
| Was the vent or flare within an incorporated municipal boundary or 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                                                                                                                                           | 77            |
| Nitrogen (N2) percentage, if greater than one percent                                                                                                              | 2             |
| Hydrogen Sulfide (H2S) PPM, rounded up                                                                                                                             | 0             |
| Carbon Dioxide (CO2) percentage, if greater than one percent                                                                                                       | 0             |
| Oxygen (O2) percentage, if greater than one percent                                                                                                                | 0             |
| <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. |

**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

**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, Page 2

Action 249739

QUESTIONS (continued)

|                                                                                         |                                                        |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>COLGATE OPERATING, LLC<br>300 North Marienfeld Street<br>Midland, TX 79701 | OGRID:<br>371449                                       |
|                                                                                         | Action Number:<br>249739                               |
|                                                                                         | 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 | 07/30/2023 |
| Time vent or flare was discovered or commenced | 12:00 AM   |
| Time vent or flare was terminated              | 11:59 PM   |
| Cumulative hours during this event             | 24         |

| Measured or Estimated Volume of Vented or Flared Natural Gas              |                                                                                                                                    |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Natural Gas Vented (Mcf) Details                                          | Not answered.                                                                                                                      |
| Natural Gas Flared (Mcf) Details                                          | Cause: Midstream Scheduled Maintenance   Pipeline (Any)   Natural Gas Flared   Released: 81 Mcf   Recovered: 0 Mcf   Lost: 81 Mcf. |
| Other Released Details                                                    | Not answered.                                                                                                                      |
| Additional details for Measured or Estimated Volume(s). Please specify    | Not answered.                                                                                                                      |
| Is this a gas only submission (i.e. only significant Mcf values reported) | Yes, according to supplied volumes this appears to be a "gas only" report.                                                         |

| Venting or Flaring Resulting from Downstream Activity             |               |
|-------------------------------------------------------------------|---------------|
| Was this vent or flare a result of downstream activity            | 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                                                      | DCP down for scheduled repairs                                                           |
| Steps taken to limit the duration and magnitude of vent or flare                                                                 | Open valves to divert gas to a second midstream company to relive pressure off the line. |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare                                                | Clear consistent communication with midstream provider.                                  |



**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  
**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**

ACKNOWLEDGMENTS  
  
Action 249739

**ACKNOWLEDGMENTS**

|                                                                                         |                                                        |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>COLGATE OPERATING, LLC<br>300 North Marienfeld Street<br>Midland, TX 79701 | OGRID:<br>371449                                       |
|                                                                                         | Action Number:<br>249739                               |
|                                                                                         | Action Type:<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.                                                                                                                          |

**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  
**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

CONDITIONS

Action 249739

CONDITIONS

|                                                                                         |                                                        |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>COLGATE OPERATING, LLC<br>300 North Marienfeld Street<br>Midland, TX 79701 | OGRID:<br>371449                                       |
|                                                                                         | Action Number:<br>249739                               |
|                                                                                         | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

CONDITIONS

| Created By  | Condition                                                                                                                                                                          | Condition Date |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| chasketteag | 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. | 8/8/2023       |