



2030 Afton Place  
Farmington, NM 87401  
(505) 325-6622

Analysis No: LG20220234  
Cust No: 46600-11870

### Well/Lease Information

|                 |                     |                  |              |
|-----------------|---------------------|------------------|--------------|
| Customer Name:  | LOGOS OPERATING LLC | Source:          | METER RUN    |
| Well Name:      | ROSA UNIT 665H      | Well Flowing:    | Y            |
| County/State:   |                     | Pressure:        | 345 PSIG     |
| Location:       |                     | Flow Temp:       | 106 DEG. F   |
| Lease/PA/CA:    |                     | Ambient Temp:    | 66 DEG. F    |
| Formation:      | MANCOS              | Flow Rate:       | 2208 MCF/D   |
| Cust. Stn. No.: |                     | Sample Method:   | Purge & Fill |
|                 |                     | Sample Date:     | 09/21/2022   |
|                 |                     | Sample Time:     | 12.04 PM     |
|                 | AREA 1              | Sampled By:      | DAVID DRYER  |
| Heat Trace:     | N                   | Sampled by (CO): | LOGOS        |
| Remarks:        |                     |                  |              |

### Analysis

| Component:: | Mole%:   | Unnormalized %: | **GPM:  | *BTU:  | *SP Gravity: |
|-------------|----------|-----------------|---------|--------|--------------|
| Nitrogen    | 0.0659   | 0.0659          | 0.0070  | 0.00   | 0.0006       |
| CO2         | 2.2781   | 2.2790          | 0.3900  | 0.00   | 0.0346       |
| Methane     | 97.3362  | 97.3734         | 16.5320 | 983.10 | 0.5391       |
| Ethane      | 0.3063   | 0.3064          | 0.0820  | 5.42   | 0.0032       |
| Propane     | 0.0107   | 0.0107          | 0.0030  | 0.27   | 0.0002       |
| Iso-Butane  | 0.0016   | 0.0016          | 0.0010  | 0.05   | 0.0000       |
| N-Butane    | 0.0012   | 0.0012          | 0.0000  | 0.04   | 0.0000       |
| I-Pentane   | 0.0000   | 0.0000          | 0.0000  | 0.00   | 0.0000       |
| N-Pentane   | 0.0000   | 0.0000          | 0.0000  | 0.00   | 0.0000       |
| Hexane Plus | 0.0000   | 0.0000          | 0.0000  | 0.00   | 0.0000       |
| Total       | 100.0000 | 100.0382        | 17.0150 | 988.88 | 0.5778       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

|                                      |        |                    |                |
|--------------------------------------|--------|--------------------|----------------|
| COMPRESSIBILITY FACTOR (1/Z):        | 1.0021 | CYLINDER #:        | 4038           |
| BTU/CU.FT IDEAL:                     | 991.2  | CYLINDER PRESSURE: | 325 PSIG       |
| BTU/CU.FT (DRY) CORRECTED FOR (1/Z): | 993.3  | ANALYSIS DATE:     | 09/22/2022     |
| BTU/CU.FT (WET) CORRECTED FOR (1/Z): | 976.0  | ANALYSIS TIME:     | 12:59:21 AM    |
| DRY BTU @ 15.025:                    | 1013.2 | ANALYSIS RUN BY:   | RICHARD WILSON |
| REAL SPECIFIC GRAVITY:               | 0.5788 |                    |                |

GPM, BTU, and SPG calculations as shown above are based on current GPA constants.

GPA Standard: GPA-2261

GC: Danalyzer Model 500 Last Cal/Verify: 09/22/2022

GC Method: C6+ Gas



LOGOS OPERATING LLC  
WELL ANALYSIS COMPARISON

|           |                |           |             |
|-----------|----------------|-----------|-------------|
| Lease:    | ROSA UNIT 665H | METER RUN | 09/22/2022  |
| Stn. No.: |                | MANCOS    | 46600-11870 |
| Mtr. No.: |                |           |             |

---

Smpl Date: 09/21/2022  
Test Date: 09/22/2022  
Run No: LG20220234

Nitrogen: 0.0659  
CO2: 2.2781  
Methane: 97.3362  
Ethane: 0.3063  
Propane: 0.0107  
I-Butane: 0.0016  
N-Butane: 0.0012  
I-Pentane: 0.0000  
N-Pentane: 0.0000  
Hexane+: 0.0000

BTU: 993.3  
GPM: 17.0150  
SPG: 0.5788

Gas was measured utilizing a multiphase flow meter

**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 145682

DEFINITIONS

|                                                                               |                                                        |
|-------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>LOGOS OPERATING, LLC<br>2010 Afton Place<br>Farmington, NM 87401 | OGRID:<br>289408                                       |
|                                                                               | Action Number:<br>145682                               |
|                                                                               | 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 145682

**QUESTIONS**

|                                                                               |                                                        |
|-------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>LOGOS OPERATING, LLC<br>2010 Afton Place<br>Farmington, NM 87401 | OGRID:<br>289408                                       |
|                                                                               | Action Number:<br>145682                               |
|                                                                               | 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                                                                                                                                                                                     | [30-039-31358] ROSA UNIT #665H |
| Incident Facility                                                                                                                                                                                 | Not answered.                  |

|                                                                                                                                                                                                                                                                                            |                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| <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, answer to "eight hours or more" suggests this is at least a minor event. |
| <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                                                                                                                                                                                                            | No                                                                            |
| 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                                | Gas Well      |
| 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                                                                                                                                           | 97            |
| Nitrogen (N2) percentage, if greater than one percent                                                                                                              | 1             |
| Hydrogen Sulfide (H2S) PPM, rounded up                                                                                                                             | 0             |
| Carbon Dioxide (CO2) percentage, if greater than one percent                                                                                                       | 2             |
| 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 145682

QUESTIONS (continued)

|                                                                               |                                                        |
|-------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>LOGOS OPERATING, LLC<br>2010 Afton Place<br>Farmington, NM 87401 | OGRID:<br>289408                                       |
|                                                                               | Action Number:<br>145682                               |
|                                                                               | 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 | 09/19/2022 |
| Time vent or flare was discovered or commenced | 10:00 AM   |
| Time vent or flare was terminated              | 08:01 PM   |
| Cumulative hours during this event             | 8          |

| Measured or Estimated Volume of Vented or Flared Natural Gas              |                                                                                                                 |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Natural Gas Vented (Mcf) Details                                          | Not answered.                                                                                                   |
| Natural Gas Flared (Mcf) Details                                          | Cause: Normal Operations   Gas Well   Natural Gas Flared   Released: 38 Mcf   Recovered: 0 Mcf   Lost: 38 Mcf ] |
| Other Released Details                                                    | Not answered.                                                                                                   |
| Additional details for Measured or Estimated Volume(s). Please specify    | Amount determined was measured by meter onsite                                                                  |
| 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. | False                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Please explain reason for why this event was beyond this operator's control                                                      | During completions operations experienced gas surges that resulted in a burp of gas that resulted LOAGOS to flare the gas.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Steps taken to limit the duration and magnitude of vent or flare                                                                 | The operator's facilities are designed to handle the maximum throughput and pressures from the newly drilled and completed wellbores. The amount of gas vented and flared will be minimized when technically and safely feasible. During initial flowback and initial separation flowback the operator will utilize contracted flowback equipment, including separators, to manage wellbore fluids and solids. The initial flowback period will be minimized and flow will be sent to separation equipment as soon as possible to reduce the amount of gas that is vented to atmosphere. The natural gas will be utilized on site as needed for fuel gas and natural gas will be sold."  |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare                                                | "The operator's facilities are designed to handle the maximum throughput and pressures from the newly drilled and completed wellbores. The amount of gas vented and flared will be minimized when technically and safely feasible. During initial flowback and initial separation flowback the operator will utilize contracted flowback equipment, including separators, to manage wellbore fluids and solids. The initial flowback period will be minimized and flow will be sent to separation equipment as soon as possible to reduce the amount of gas that is vented to atmosphere. The natural gas will be utilized on site as needed for fuel gas and natural gas will be sold." |

**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 145682

**ACKNOWLEDGMENTS**

|                                                                               |                                                        |
|-------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>LOGOS OPERATING, LLC<br>2010 Afton Place<br>Farmington, NM 87401 | OGRID:<br>289408                                       |
|                                                                               | Action Number:<br>145682                               |
|                                                                               | 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 145682

CONDITIONS

|                                                                               |                                                        |
|-------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>LOGOS OPERATING, LLC<br>2010 Afton Place<br>Farmington, NM 87401 | OGRID:<br>289408                                       |
|                                                                               | Action Number:<br>145682                               |
|                                                                               | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

CONDITIONS

| Created By | Condition                                                                                                                                                                          | Condition Date |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| vanessaf   | 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. | 9/28/2022      |