



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

Analysis No: LG2021104  
Cust No: 46600-11775

### Well/Lease Information

Customer Name: LOGOS OPERATING LLC  
Well Name: OMEGA 4H  
County/State:  
Location:  
Lease/PA/CA:  
Formation:  
Cust. Stn. No.:

Source: SEPARATOR  
Well Flowing: Y  
Pressure: 210 PSIG  
Flow Temp: DEG. F  
Ambient Temp: DEG. F  
Flow Rate: 2431 MCF/D  
Sample Method: Purge & Fill  
Sample Date: 06/07/2021  
Sample Time: 6.00 AM  
Sampled By: JUSTIN H.  
Sampled by (CO): LOGOS

Heat Trace:  
Remarks:

### Analysis

| Component:: | Mole%:   | Unnormalized %: | **GPM:  | *BTU:  | *SP Gravity: |
|-------------|----------|-----------------|---------|--------|--------------|
| Nitrogen    | 59.3257  | 59.6257         | 6.5360  | 0.00   | 0.5738       |
| CO2         | 0.2934   | 0.2949          | 0.0500  | 0.00   | 0.0045       |
| Methane     | 27.2753  | 27.4131         | 4.6300  | 275.48 | 0.1511       |
| Ethane      | 5.1970   | 5.2233          | 1.3920  | 91.97  | 0.0540       |
| Propane     | 4.5914   | 4.6146          | 1.2670  | 115.52 | 0.0699       |
| Iso-Butane  | 0.5865   | 0.5895          | 0.1920  | 19.07  | 0.0118       |
| N-Butane    | 1.5172   | 1.5249          | 0.4790  | 49.50  | 0.0304       |
| I-Pentane   | 0.3600   | 0.3618          | 0.1320  | 14.40  | 0.0090       |
| N-Pentane   | 0.3452   | 0.3469          | 0.1250  | 13.84  | 0.0086       |
| Hexane Plus | 0.5083   | 0.5109          | 0.2270  | 26.79  | 0.0168       |
| Total       | 100.0000 | 100.5056        | 15.0300 | 606.58 | 0.9298       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z): 1.0016  
BTU/CU.FT IDEAL: 608.0  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 609.0  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 598.4  
DRY BTU @ 15.025: 621.2  
REAL SPECIFIC GRAVITY: 0.9309

CYLINDER #: 4107  
CYLINDER PRESSURE: 72 PSIG  
ANALYSIS DATE: 06/07/2021  
ANALYSIS TIME: 08:08:40 AM  
ANALYSIS RUN BY: RICHARD WILSON

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: 06/07/2021

GC Method: C6+ Gas



LOGOS OPERATING LLC  
WELL ANALYSIS COMPARISON

|           |          |           |             |
|-----------|----------|-----------|-------------|
| Lease:    | OMEGA 4H | SEPARATOR | 06/07/2021  |
| Stn. No.: |          |           | 46600-11775 |
| Mtr. No.: |          |           |             |

|                   |            |            |            |
|-------------------|------------|------------|------------|
| <b>Smpl Date:</b> | 06/07/2021 | 06/06/2021 | 06/05/2021 |
| <b>Test Date:</b> | 06/07/2021 | 06/06/2021 | 06/05/2021 |
| <b>Run No:</b>    | LG2021104  | LG2021099  | LG2021096  |
| <b>Nitrogen:</b>  | 59.3257    | 62.1739    | 66.2364    |
| <b>CO2:</b>       | 0.2934     | 0.2886     | 0.2660     |
| <b>Methane:</b>   | 27.2753    | 24.9792    | 22.3273    |
| <b>Ethane:</b>    | 5.1970     | 4.8388     | 4.1186     |
| <b>Propane:</b>   | 4.5914     | 4.3943     | 3.6958     |
| <b>I-Butane:</b>  | 0.5865     | 0.5606     | 0.4828     |
| <b>N-Butane:</b>  | 1.5172     | 1.5183     | 1.3654     |
| <b>I-Pentane:</b> | 0.3600     | 0.3579     | 0.3675     |
| <b>N-Pentane:</b> | 0.3452     | 0.3441     | 0.3745     |
| <b>Hexane+:</b>   | 0.5083     | 0.5443     | 0.7657     |
| <b>BTU:</b>       | 609.0      | 575.2      | 523.6      |
| <b>GPM:</b>       | 15.0300    | 14.8080    | 14.4540    |
| <b>SPG:</b>       | 0.9309     | 0.9395     | 0.9492     |

**LOGOS Operating, LLC**  
**Omega 2308 03 Com 004H**  
**Flared Meter 11961**  
**API: 30-045-38179**  
**Unit H, Section 03, T23N R08W**  
**36.285232, -107.660916 NAD 83**

| OMEGA 2308 03 FED COM 4H FLARE METER |            |              |                      |          | 11961 |
|--------------------------------------|------------|--------------|----------------------|----------|-------|
| Date ▼                               | Gas Flowed | Differential | Static Pressure Psia | Gas Temp |       |
| 6/17/2021                            | 0.00       | 0            | 0                    | 60       |       |
| 6/16/2021                            | 1,392.50   | 0            | 0                    | 60       |       |
| 6/15/2021                            | 1,461.70   | 0            | 0                    | 60       |       |
| 6/14/2021                            | 1,549.81   | 0            | 0                    | 60       |       |
| 6/13/2021                            | 1,408.80   | 0            | 0                    | 60       |       |
| 6/12/2021                            | 1,114.90   | 0            | 0                    | 60       |       |
| 6/11/2021                            | 1,431.00   | 0            | 0                    | 60       |       |
| 6/10/2021                            | 1,556.00   | 0            | 0                    | 60       |       |
| 6/9/2021                             | 1,767.00   | 0            | 0                    | 60       |       |
| 6/8/2021                             | 2,169.00   | 0            | 0                    | 60       |       |
| 6/7/2021                             | 2,356.00   | 0            | 0                    | 60       |       |
| 6/6/2021                             | 2,280.00   | 0            | 0                    | 60       |       |
| 6/5/2021                             | 1,403.00   | 0            | 0                    | 60       |       |
| 6/4/2021                             | 0.00       | 0            | 0                    | 60       |       |
| 6/3/2021                             | 0.00       | 0            | 0                    | 60       |       |
| 6/2/2021                             | 0.00       | 0            | 0                    | 60       |       |



**LOGOS Operating, LLC**  
Omega 2308 03 Com 001H, 002H, 004H & 005H  
PAD  
API: 30-045-38179  
Unit H, Section 03, T23N R08W  
36.258232, -107.660916 NAD83



Google Earth

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**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 34632

**QUESTIONS**

|   |  |
|---|--|
| Operator:<br>LOGOS OPERATING, LLC<br>2010 Afton Place<br>Farmington, NM 87401 | OGRID:<br>289408                                       |
|   | Action Number:<br>34632                                |
|   | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**QUESTIONS****Determination of Reporting Requirements**

Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.

|  |   |
|--|---|
| Was or is this venting or flaring caused by an emergency or malfunction  | No  |
| Did or will this venting or flaring last eight hours or more cumulatively within any 24-hour period from a single event  | Yes   |
| Is this considered a submission for a notification of a major venting or flaring   | Yes, major venting or flaring of natural gas. |
| <b>The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during venting or flaring that is or may be a major or minor release under 19.13.297 NMAC.</b>  |   |
| Was there or will there be at least 50 MCF of natural gas vented or flared during this event   | Yes   |
| Did this venting or flaring 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  |

**Unregistered Facility Site**

Please provide the facility details, if the venting or flaring occurred or is occurring at a facility that does not have an Facility ID (##) yet.

|                       |                        |
|-----------------------|------------------------|
| Facility or Site Name | Omega 2308 03 Com 004H |
| Facility Type         | Flare Stack - (FS)     |

**Equipment Involved**

|   |               |
|---|---------------|
| Primary Equipment Involved                                | Not answered. |
| Additional details for Equipment Involved. Please specify | Not answered. |

**Representative Compositional Analysis of Vented or Flared Natural Gas**

Please provide the mole percent for the percentage questions in this group.

|  |               |
|--|---------------|
| Methane (CH4) percentage   | 27            |
| Nitrogen (N2) percentage, if greater than one percent  | 59            |
| 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             |
| <b>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</b> |               |
| 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. |

**Date(s) and Time(s)**

|   |               |
|---|---------------|
| Date venting or flaring was discovered or commenced                                 | 06/07/2021    |
| Time venting or flaring was discovered or commenced                                 | 06:00 AM      |
| Is the venting or flaring event complete  | No            |
| Date venting or flaring was terminated  | Not answered. |
| Time venting or flaring was terminated  | Not answered. |
| Total duration of venting or flaring in hours, if venting or flaring has terminated | Not answered. |
| Longest duration of cumulative hours within any 24-hour period 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                                       | Not answered.   |
| Other Released Details   | Cause: Other   Separator   Natural Gas Flared   Spilled: 3,356 Mcf   Recovered: 0 Mcf   Lost: 3,356 Mcf ] |
| Additional details for Measured or Estimated Volume(s). Please specify | Not answered.   |
| Is this a gas only submission (i.e. only Mcf values reported)          | Yes, according to supplied volumes this appears to be a "gas only" report.                                |

**Venting or Flaring Resulting from Downstream Activity**

|  |               |
|--|---------------|
| Was or is this venting or flaring a result of downstream activity      | No            |
| Date notified of downstream activity requiring this venting or flaring | Not answered. |
| Time notified of downstream activity requiring this venting or flaring | Not answered. |

**Steps and Actions to Prevent Waste**

|  |  |
|--|--|
| For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control. | True   |
| Please explain reason for why this event was beyond your operator's control  | Drilling and Completion operations were completed. The nitrogen content level was above Harvest pipeline standards.                                    |
| Steps taken to limit the duration and magnitude of venting or flaring  | Utilizing separator on location and pipeline is currently installed ready to flow down line once N2 content level is acceptable per Harvest standards. |
| Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring   | Utilizing separator on location and pipeline is currently installed ready to flow down line once N2 content level is acceptable per Harvest standards. |



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CONDITIONS  
  
Action 34632

CONDITIONS

|   |  |
|---|--|
| Operator:<br>LOGOS OPERATING, LLC<br>2010 Afton Place<br>Farmington, NM 87401 | OGRID:<br>289408                                       |
|   | Action Number:<br>34632                                |
|   | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

CONDITIONS

| Created By | Condition  | Condition Date |
|------------|--|----------------|
| system     | If the information provided in this report requires an amendment, submit a [C-129] Request to Amend Venting and/or Flaring Incident, utilizing your incident number from this event. | 7/1/2021       |