



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

Analysis No: LG2021117  
Cust No: 46600-11765

### Well/Lease Information

|                                    |                             |
|------------------------------------|-----------------------------|
| Customer Name: LOGOS OPERATING LLC | Source: FLOWBACK SEPARATOR  |
| Well Name: OMEGA 5H; FB SEP        | Well Flowing: Y             |
| County/State:                      | Pressure: 184 PSIG          |
| Location:                          | Flow Temp: DEG. F           |
| Lease/PA/CA:                       | Ambient Temp: DEG. F        |
| Formation:                         | Flow Rate: MCF/D            |
| Cust. Stn. No.:                    | Sample Method: Purge & Fill |
| CC#                                | Sample Date: 06/10/2021     |
|                                    | Sample Time: 6.30 AM        |
|                                    | Sampled By: JUSTIN H.       |
|                                    | Sampled by (CO):            |

Heat Trace:

Remarks:

### Analysis

| Component:: | Mole%:   | Unnormalized %: | **GPM:  | *BTU:  | *SP Gravity: |
|-------------|----------|-----------------|---------|--------|--------------|
| Nitrogen    | 49.9700  | 49.5676         | 5.5080  | 0.00   | 0.4833       |
| CO2         | 0.3485   | 0.3457          | 0.0600  | 0.00   | 0.0053       |
| Methane     | 33.1260  | 32.8593         | 5.6260  | 334.57 | 0.1835       |
| Ethane      | 6.9464   | 6.8905          | 1.8610  | 122.93 | 0.0721       |
| Propane     | 5.8776   | 5.8303          | 1.6220  | 147.89 | 0.0895       |
| Iso-Butane  | 0.6825   | 0.6770          | 0.2240  | 22.19  | 0.0137       |
| N-Butane    | 1.7880   | 1.7736          | 0.5650  | 58.33  | 0.0359       |
| I-Pentane   | 0.3824   | 0.3793          | 0.1400  | 15.30  | 0.0095       |
| N-Pentane   | 0.3671   | 0.3641          | 0.1330  | 14.72  | 0.0091       |
| Hexane Plus | 0.5115   | 0.5074          | 0.2290  | 26.96  | 0.0169       |
| Total       | 100.0000 | 99.1948         | 15.9680 | 742.89 | 0.9189       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

|                                      |        |                    |                |
|--------------------------------------|--------|--------------------|----------------|
| COMPRESSIBILITY FACTOR (1/Z):        | 1.0021 | CYLINDER #:        | 4056           |
| BTU/CU.FT IDEAL:                     | 744.6  | CYLINDER PRESSURE: | 164 PSIG       |
| BTU/CU.FT (DRY) CORRECTED FOR (1/Z): | 746.2  | ANALYSIS DATE:     | 06/10/2021     |
| BTU/CU.FT (WET) CORRECTED FOR (1/Z): | 733.2  | ANALYSIS TIME:     | 09:56:46 AM    |
| DRY BTU @ 15.025:                    | 761.1  | ANALYSIS RUN BY:   | RICHARD WILSON |
| REAL SPECIFIC GRAVITY:               | 0.9204 |                    |                |

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: 06/10/2021

GC Method: C6+ Gas



LOGOS OPERATING LLC  
WELL ANALYSIS COMPARISON

Lease: OMEGA 5H; FB SEP FLOWBACK SEPARATOR 06/10/2021  
 Stn. No.: 46600-11765  
 Mtr. No.: CC#

| Smpl Date: | 06/10/2021 | 06/09/2021 | 06/08/2021 | 06/07/2021 | 06/06/2021 | 06/05/2021 | 06/04/2021 |
|------------|------------|------------|------------|------------|------------|------------|------------|
| Test Date: | 06/10/2021 | 06/09/2021 | 06/08/2021 | 06/07/2021 | 06/06/2021 | 06/05/2021 | 06/04/2021 |
| Run No:    | LG2021117  | LG2021113  | LG2021109  | LG2021105  | LG2021098  | LG2021095  | LG2021093  |
| Nitrogen:  | 49.9700    | 52.7866    | 54.7584    | 57.4048    | 59.0133    | 62.0077    | 64.6671    |
| CO2:       | 0.3485     | 0.3131     | 0.3671     | 0.2701     | 0.2795     | 0.2601     | 0.2364     |
| Methane:   | 33.1260    | 31.4566    | 30.0904    | 28.1650    | 26.6079    | 24.5295    | 22.6239    |
| Ethane:    | 6.9464     | 6.4218     | 5.9324     | 5.5747     | 5.5326     | 5.0282     | 4.6014     |
| Propane:   | 5.8776     | 5.4969     | 5.1722     | 4.9198     | 4.9857     | 4.6029     | 4.3654     |
| I-Butane:  | 0.6825     | 0.6547     | 0.6413     | 0.6178     | 0.6131     | 0.5789     | 0.5774     |
| N-Butane:  | 1.7880     | 1.6827     | 1.6899     | 1.6539     | 1.6772     | 1.6124     | 1.5728     |
| I-Pentane: | 0.3824     | 0.3701     | 0.3997     | 0.3952     | 0.3844     | 0.3851     | 0.3828     |
| N-Pentane: | 0.3671     | 0.3572     | 0.3960     | 0.3944     | 0.3774     | 0.3829     | 0.3815     |
| Hexane+:   | 0.5115     | 0.4603     | 0.5526     | 0.6043     | 0.5289     | 0.6123     | 0.5913     |
| BTU:       | 746.2      | 702.2      | 678.9      | 647.1      | 627.6      | 589.3      | 553.7      |
| GPM:       | 15.9680    | 15.6680    | 15.5040    | 15.2850    | 15.1700    | 14.9080    | 14.6660    |
| SPG:       | 0.9204     | 0.9216     | 0.9285     | 0.9347     | 0.9394     | 0.9463     | 0.9514     |

06/03/2021

06/04/2021

LG2021092

65.0590

0.2220

22.3865

4.5332

4.2913

0.5675

1.5541

0.3858

0.3876

0.6130

548.8

14.6360

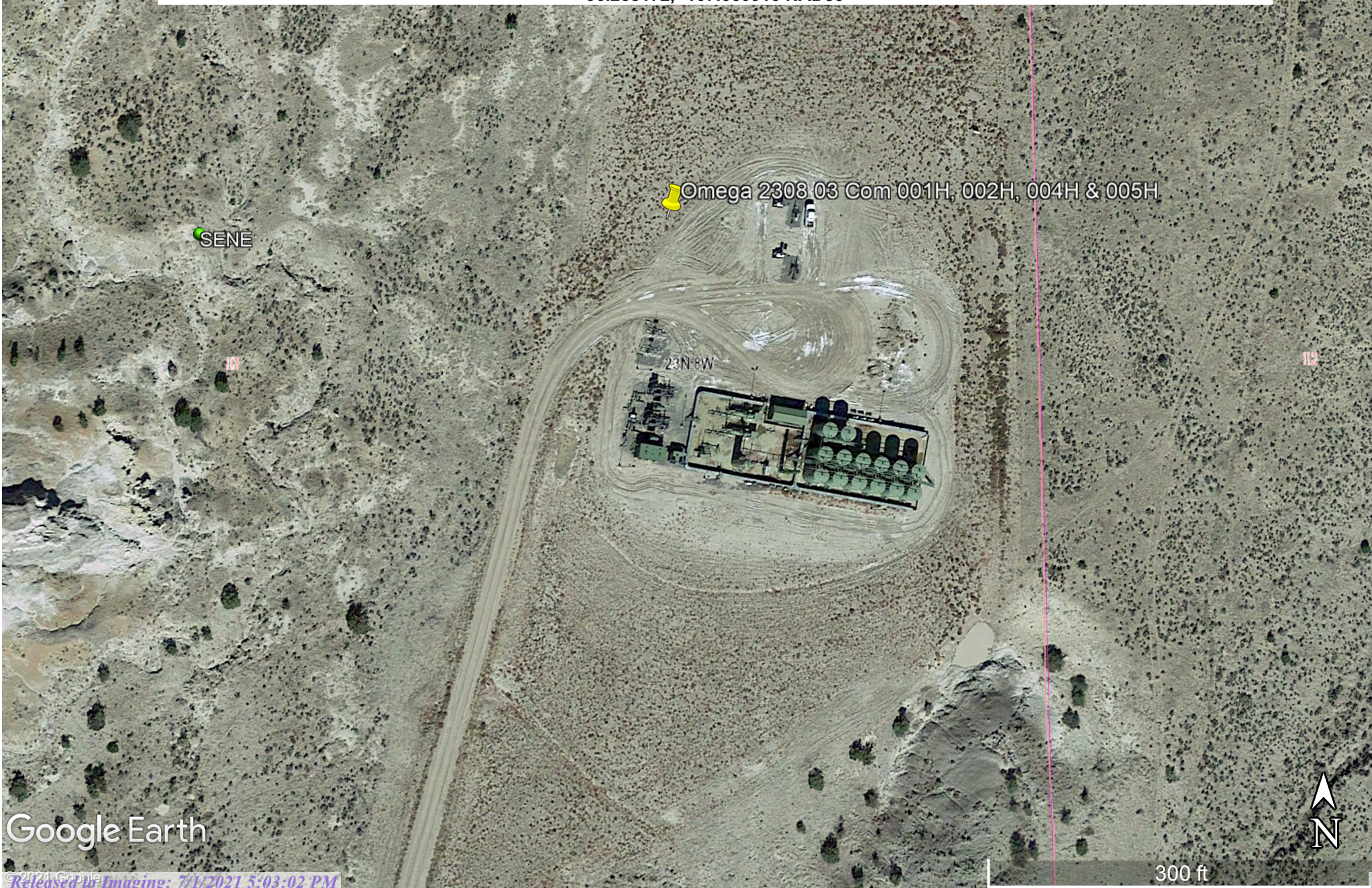
0.9522

**LOGOS Operating, LLC**  
**Omega 2308 03 Com 005H**  
**Flared Meter 11962**  
**API: 30-045-38180**  
**Unit H, Section 03, T23N R08W**  
**36.258172, -107.660913 NAD 83**

| OMEGA 2308 03 FED COM 5H FLARE METER |            |              |                      |          | 11962 |
|--------------------------------------|------------|--------------|----------------------|----------|-------|
| Date ▼                               | Gas Flowed | Differential | Static Pressure Psia | Gas Temp |       |
| 6/17/2021                            | 0.00       | 0            | 0                    | 60       |       |
| 6/16/2021                            | 1,736.06   | 0            | 0                    | 60       |       |
| 6/15/2021                            | 1,778.20   | 0            | 0                    | 60       |       |
| 6/14/2021                            | 1,896.21   | 0            | 0                    | 60       |       |
| 6/13/2021                            | 1,843.20   | 0            | 0                    | 60       |       |
| 6/12/2021                            | 1,500.40   | 0            | 0                    | 60       |       |
| 6/11/2021                            | 1,867.00   | 0            | 0                    | 60       |       |
| 6/10/2021                            | 1,914.00   | 0            | 0                    | 60       |       |
| 6/9/2021                             | 2,093.00   | 0            | 0                    | 60       |       |
| 6/8/2021                             | 2,403.00   | 0            | 0                    | 60       |       |
| 6/7/2021                             | 2,588.00   | 0            | 0                    | 60       |       |
| 6/6/2021                             | 2,757.00   | 0            | 0                    | 60       |       |
| 6/5/2021                             | 2,287.00   | 0            | 0                    | 60       |       |
| 6/4/2021                             | 1,258.00   | 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: 30-045-38180  
Unit H, Section 03, T23N R08W  
36.258172, -107.660913 NAD83



Google Earth



**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 34716

**QUESTIONS**

|   |  |
|---|--|
| Operator:<br>LOGOS OPERATING, LLC<br>2010 Afton Place<br>Farmington, NM 87401 | OGRID:<br>289408                                       |
|   | Action Number:<br>34716                                |
|   | 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. |
| 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 19.13.29.7 NMAC   |   |
| 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 005H |
| 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  | 33            |
| Nitrogen (N2) percentage, if greater than one percent   | 50            |
| 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             |
| If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas. |               |
| Methane (CH4) percentage quality requirement  | Not answered. |
| Nitrogen (N2) percentage quality requirement  | Not answered. |
| Hydrogen 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                                 | 06/10/2021    |
| Time venting or flaring was discovered or commenced                                 | 06:30 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                                       | Cause: Other   Separator   Natural Gas Flared   Spilled: 1,867 Mcf   Recovered: 0 Mcf   Lost: 1,867 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 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 downline 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 downline once N2 content level is acceptable per Harvest standards. |



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**1220 S. St Francis Dr.**  
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CONDITIONS  
  
Action 34716

CONDITIONS

|   |  |
|---|--|
| Operator:<br>LOGOS OPERATING, LLC<br>2010 Afton Place<br>Farmington, NM 87401 | OGRID:<br>289408                                       |
|   | Action Number:<br>34716                                |
|   | 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       |