



Well Name: OMEGA 1H

API #:

Source: TUBING

Sample Type: GAS

Analysis No: LG2021094

Cust No: 46600-11770

### Well/Lease Information

Customer Name: LOGOS OPERATING LLC  
 Well Name: OMEGA 1H  
 County/State: SAN JUAN NM  
 Location:  
 Lease/PA/CA:  
 Formation:  
 Cust. Stn. No.:

Source: TUBING  
 Well Flowing: Y  
 Pressure: 60 PSIG  
 Flow Temp: DEG. F  
 Ambient Temp: 66 DEG. F  
 Flow Rate: MCF/D  
 Sample Method: Purge & Fill  
 Sample Date: 06/05/2021  
 Sample Time: 6.16 AM  
 Sampled By: TRAVIS K  
 Sampled by (CO): LOGOS

Heat Trace:

Remarks:

### Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	67.0031	64.1606	7.3800	0.00	0.6481
CO2	0.2209	0.2115	0.0380	0.00	0.0034
Methane	20.5341	19.6630	3.4850	207.39	0.1137
Ethane	4.5779	4.3837	1.2260	81.02	0.0475
Propane	4.4181	4.2307	1.2190	111.16	0.0673
Iso-Butane	0.5171	0.4952	0.1690	16.82	0.0104
N-Butane	1.4783	1.4156	0.4670	48.23	0.0297
I-Pentane	0.3539	0.3389	0.1300	14.16	0.0088
N-Pentane	0.3786	0.3625	0.1370	15.18	0.0094
Hexane Plus	0.5180	0.4960	0.2310	27.30	0.0171
Total	100.0000	95.7577	14.4820	521.26	0.9554

\* @ 14.730 PSIA DRY &amp; UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z): 1.0014  
 BTU/CU.FT IDEAL: 522.5  
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 523.2  
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 514.1  
 DRY BTU @ 15.025: 533.7  
 REAL SPECIFIC GRAVITY: 0.9563

CYLINDER #: 7028  
 CYLINDER PRESSURE: 32 PSIG  
 ANALYSIS DATE: 06/05/2021  
 ANALYSIS TIME: 11:40:01 AM  
 ANALYSIS RUN BY: SEAN CASAUS

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: 06/05/2021

GC Method: C6+ Gas



LOGOS OPERATING LLC  
WELL ANALYSIS COMPARISON

Lease: OMEGA 1H  
Stn. No.:  
Mtr. No.:

TUBING

06/05/2021  
46600-11770

Smpl Date: 06/05/2021  
Test Date: 06/05/2021  
Run No: LG2021094

Nitrogen: 67.0031  
CO2: 0.2209  
Methane: 20.5341  
Ethane: 4.5779  
Propane: 4.4181  
I-Butane: 0.5171  
N-Butane: 1.4783  
I-Pentane: 0.3539  
N-Pentane: 0.3786  
Hexane+: 0.5180

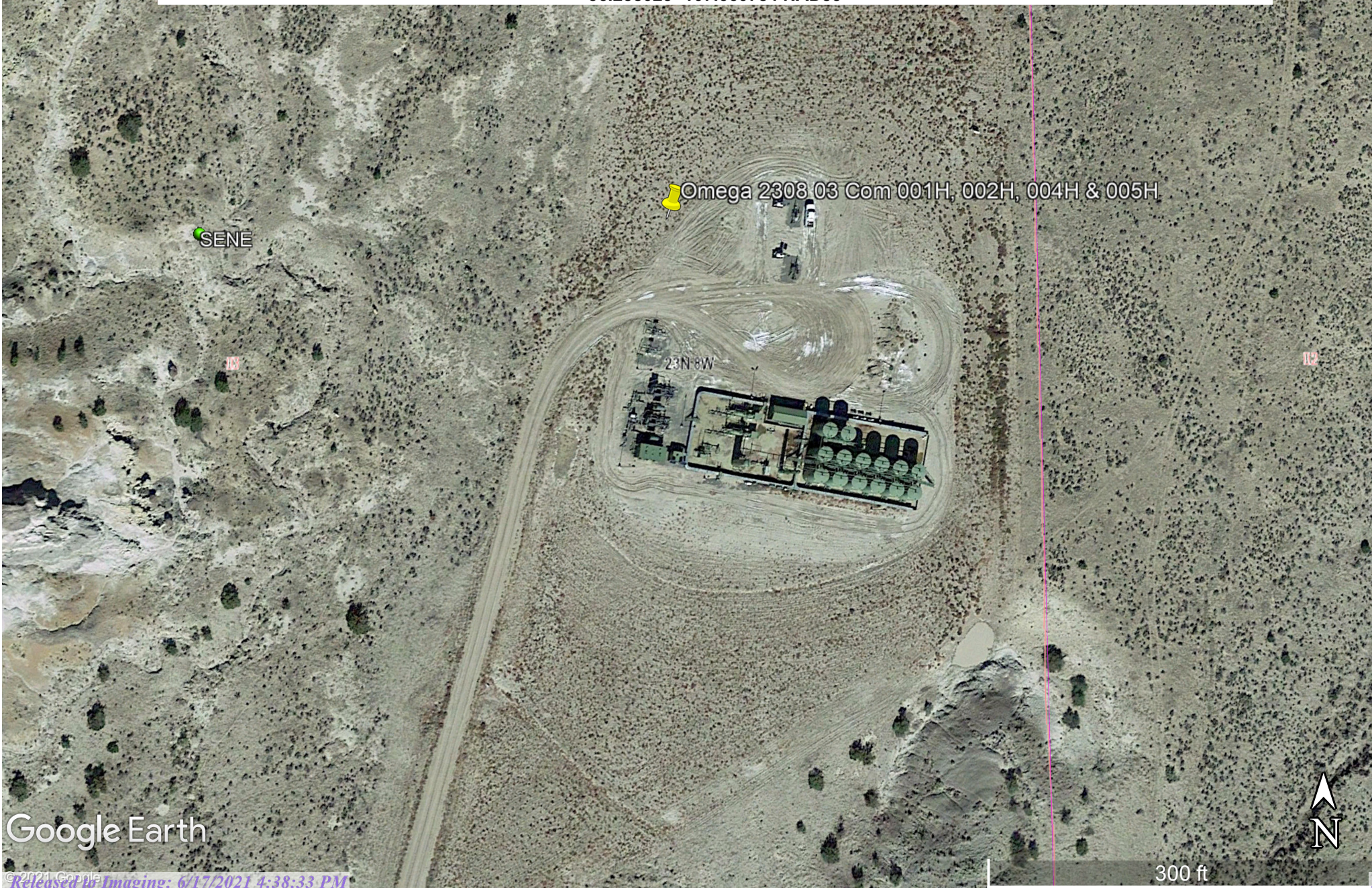
BTU: 523.2  
GPM: 14.4820  
SPG: 0.9563

**LOGOS Operating, LLC**  
**Omega 2308 03 001H**  
**Flared Meter 8508**  
**API: 30-045-35647**  
**Unit H, Section 03, T23N R08W**  
**36.258023, -107.660784 NAD 83**

OMEGA 2308 03 1H FLARE METER					8508
Date ▼	Gas Flowed	Comments	Differential	Static Pressure Psia	Gas Temp
6/17/2021	0.00		0	0	60
6/16/2021	0.00		0	0	60
6/15/2021	0.00		0	0	60
6/14/2021	0.00		0	0	60
6/13/2021	0.00		0	0	60
6/12/2021	0.00		0	0	60
6/11/2021	0.00		0	0	60
6/10/2021	0.00		0	0	60
6/9/2021	0.00		0	0	60
6/8/2021	78.12	Went to sales at 13:00	0	0	60
6/7/2021	144.50		0	0	60
6/6/2021	216.50		0	0	60
6/5/2021	5.00	Sep sales show 5	0	0	60
6/4/2021	0.00	Sep. sales show 0	0	0	60
6/3/2021	0.00		0	0	60



**LOGOS Operating, LLC**  
Omega 2308 03 Com 001H, 002H, 004H & 005H  
PAD  
API: 30-045-35647  
Unit H, Section 03, T23N R08W  
36.258023 -107.660784 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 32675

**QUESTIONS**

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 32675
	Action Type: [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, minor 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 19.13.29.7 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 001H
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	21
Nitrogen (N2) percentage, if greater than one percent	67
Hydrogen Sulfide (H2S) PPM, rounded up	1
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	06/05/2021
Time venting or flaring was discovered or commenced	07:00 AM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	06/09/2021
Time venting or flaring was terminated	01:00 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	59
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: 216 Mcf   Recovered: 0 Mcf   Lost: 216 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	Omega 4H & 5H Frac Operations were occurring on the same existing pad of the Omega 1H. A cross flow occurred and the results of the nitrogen content level did not allow for the Harvest pipeline to accept the gas.
Steps taken to limit the duration and magnitude of venting or flaring	The existing pad on the Omega 1H utilized the separator on location and the pipeline is currently installed and was ready to flow down line once the nitrogen content level was acceptable per Harvest standards.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	The existing pad on the Omega 1H utilized the separator on location and the pipeline is currently installed and was ready to flow down line once the nitrogen content level was acceptable per Harvest standards.



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CONDITIONS

Action 32675

## CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 32675
	Action Type: [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.	6/17/2021