



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

Analysis No: LG2021113  
Cust No: 46600-11765

### Well/Lease Information

Customer Name: LOGOS OPERATING LLC  
Well Name: OMEGA 5H; FB SEP  
County/State:  
Location:  
Lease/PA/CA:  
Formation:  
Cust. Stn. No.:

CC#

Source: SEPARATOR  
Well Flowing: Y  
Pressure: 200 PSIG  
Flow Temp: DEG. F  
Ambient Temp: DEG. F  
Flow Rate: MCF/D  
Sample Method:  
Sample Date: 06/09/2021  
Sample Time: 5.00 AM  
Sampled By: JUSTIN H.  
Sampled by (CO): LOGOS

Heat Trace:

Remarks:

### Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	52.7866	53.5862	5.8170	0.00	0.5106
CO2	0.3131	0.3178	0.0540	0.00	0.0048
Methane	31.4566	31.9330	5.3420	317.71	0.1742
Ethane	6.4218	6.5191	1.7200	113.65	0.0667
Propane	5.4969	5.5802	1.5170	138.31	0.0837
Iso-Butane	0.6547	0.6646	0.2150	21.29	0.0131
N-Butane	1.6827	1.7082	0.5310	54.89	0.0338
I-Pentane	0.3701	0.3757	0.1360	14.81	0.0092
N-Pentane	0.3572	0.3626	0.1300	14.32	0.0089
Hexane Plus	0.4603	0.4673	0.2060	24.26	0.0152
Total	100.0000	101.5147	15.6680	699.24	0.9202

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z): 1.0019  
BTU/CU.FT IDEAL: 700.9  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 702.2  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 690.0  
DRY BTU @ 15.025: 716.3  
REAL SPECIFIC GRAVITY: 0.9216

CYLINDER #: 6244  
CYLINDER PRESSURE: 190 PSIG  
ANALYSIS DATE: 06/09/2021  
ANALYSIS TIME: 08:02:00 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: 06/09/2021

GC Method: C6+ Gas



LOGOS OPERATING LLC  
WELL ANALYSIS COMPARISON

Lease: OMEGA 5H; FB SEP

SEPARATOR

06/09/2021

Stn. No.:

46600-11765

Mtr. No.: CC#

Smpl Date:	06/09/2021	06/08/2021	06/07/2021	06/06/2021	06/05/2021	06/04/2021	06/03/2021
Test Date:	06/09/2021	06/08/2021	06/07/2021	06/06/2021	06/05/2021	06/04/2021	06/04/2021
Run No:	LG2021113	LG2021109	LG2021105	LG2021098	LG2021095	LG2021093	LG2021092
Nitrogen:	52.7866	54.7584	57.4048	59.0133	62.0077	64.6671	65.0590
CO2:	0.3131	0.3671	0.2701	0.2795	0.2601	0.2364	0.2220
Methane:	31.4566	30.0904	28.1650	26.6079	24.5295	22.6239	22.3865
Ethane:	6.4218	5.9324	5.5747	5.5326	5.0282	4.6014	4.5332
Propane:	5.4969	5.1722	4.9198	4.9857	4.6029	4.3654	4.2913
I-Butane:	0.6547	0.6413	0.6178	0.6131	0.5789	0.5774	0.5675
N-Butane:	1.6827	1.6899	1.6539	1.6772	1.6124	1.5728	1.5541
I-Pentane:	0.3701	0.3997	0.3952	0.3844	0.3851	0.3828	0.3858
N-Pentane:	0.3572	0.3960	0.3944	0.3774	0.3829	0.3815	0.3876
Hexane+:	0.4603	0.5526	0.6043	0.5289	0.6123	0.5913	0.6130
BTU:	702.2	678.9	647.1	627.6	589.3	553.7	548.8
GPM:	15.6680	15.5040	15.2850	15.1700	14.9080	14.6660	14.6360
SPG:	0.9216	0.9285	0.9347	0.9394	0.9463	0.9514	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

SENE

Omega 2308 03 Com 001H, 002H, 004H &amp; 005H

23N 8W

Google Earth

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300 ft



**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 34715

**QUESTIONS**

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 34715
	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, 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 19.13.29.7 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 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	31
Nitrogen (N2) percentage, if greater than one percent	53
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	06/09/2021
Time venting or flaring was discovered or commenced	05:00 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	Cause: Other   Separator   Natural Gas Flared   Spilled: 1,914 Mcf   Recovered: 0 Mcf   Lost: 1,914 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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CONDITIONS  
  
Action 34715

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 34715
	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.	7/1/2021