



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

Analysis No: LG2021116
Cust No: 46600-11775

Well/Lease Information

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

Source: FLOWBACK SEPARATOR
Well Flowing: Y
Pressure: 203 PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 06/10/2021
Sample Time: 6.45 AM
Sampled By: JUSTIN H.
Sampled by (CO):

Heat Trace:
Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	50.7414	51.5380	5.5920	0.00	0.4908
CO2	0.3234	0.3285	0.0550	0.00	0.0049
Methane	33.4403	33.9653	5.6790	337.75	0.1852
Ethane	6.5386	6.6413	1.7520	115.71	0.0679
Propane	5.4930	5.5792	1.5160	138.21	0.0836
Iso-Butane	0.6576	0.6679	0.2160	21.38	0.0132
N-Butane	1.6309	1.6565	0.5150	53.20	0.0327
I-Pentane	0.3600	0.3657	0.1320	14.40	0.0090
N-Pentane	0.3384	0.3437	0.1230	13.57	0.0084
Hexane Plus	0.4764	0.4839	0.2130	25.11	0.0158
Total	100.0000	101.5700	15.7930	719.34	0.9115

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.002
BTU/CU.FT IDEAL: 721.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 722.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 709.8
DRY BTU @ 15.025: 736.9
REAL SPECIFIC GRAVITY: 0.913

CYLINDER #: 4197
CYLINDER PRESSURE: 140 PSIG
ANALYSIS DATE: 06/10/2021
ANALYSIS TIME: 10:12:18 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: 06/10/2021

GC Method: C6+ Gas



LOGOS OPERATING LLC
WELL ANALYSIS COMPARISON

Lease: OMEGA 4H; FB SEP FLOWBACK SEPARATOR 06/10/2021
 Stn. No.: 46600-11775
 Mtr. No.:

Smpl Date:	06/10/2021	06/09/2021	06/08/2021	06/07/2021	06/06/2021	06/05/2021
Test Date:	06/10/2021	06/09/2021	06/08/2021	06/07/2021	06/06/2021	06/05/2021
Run No:	LG2021116	LG2021112	LG2021108	LG2021104	LG2021099	LG2021096
Nitrogen:	50.7414	52.8423	55.6438	59.3257	62.1739	66.2364
CO2:	0.3234	0.3178	0.3062	0.2934	0.2886	0.2660
Methane:	33.4403	31.0797	29.6557	27.2753	24.9792	22.3273
Ethane:	6.5386	6.2394	5.7816	5.1970	4.8388	4.1186
Propane:	5.4930	5.5858	5.0823	4.5914	4.3943	3.6958
I-Butane:	0.6576	0.7111	0.6378	0.5865	0.5606	0.4828
N-Butane:	1.6309	1.8205	1.6296	1.5172	1.5183	1.3654
I-Pentane:	0.3600	0.4250	0.3756	0.3600	0.3579	0.3675
N-Pentane:	0.3384	0.4065	0.3575	0.3452	0.3441	0.3745
Hexane+:	0.4764	0.5719	0.5299	0.5083	0.5443	0.7657
BTU:	722.4	713.9	663.6	609.0	575.2	523.6
GPM:	15.7930	15.7370	15.3980	15.0300	14.8080	14.4540
SPG:	0.9130	0.9298	0.9271	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

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 34656

QUESTIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408 Action Number: 34656 Action Type: [C-129] Venting and/or Flaring (C-129)
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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 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	33
Nitrogen (N2) percentage, if greater than one percent	51
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	06:45 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: 1,556 Mcf Recovered: 0 Mcf Lost: 1,556 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 34656

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 34656
	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