



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

Analysis No: LG2021134  
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: SEPARATOR  
Well Flowing: Y  
Pressure: 101 PSIG  
Flow Temp: 92 DEG. F  
Ambient Temp: 65 DEG. F  
Flow Rate: 1326 MCF/D  
Sample Method: Purge & Fill  
Sample Date: 06/15/2021  
Sample Time: 6.38 AM  
Sampled By: TOBY WRIGHT  
Sampled by (CO):

Heat Trace:  
Remarks:

### Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	36.1478	36.1478	3.9880	0.00	0.3496
CO2	0.3804	0.3804	0.0650	0.00	0.0058
Methane	41.3581	41.3581	7.0310	417.72	0.2291
Ethane	8.6312	8.6312	2.3150	152.75	0.0896
Propane	7.7467	7.7467	2.1400	194.91	0.1179
Iso-Butane	1.0052	1.0052	0.3300	32.69	0.0202
N-Butane	2.6566	2.6566	0.8400	86.67	0.0533
I-Pentane	0.6482	0.6482	0.2380	25.93	0.0161
N-Pentane	0.5931	0.5931	0.2160	23.78	0.0148
Hexane Plus	0.8327	0.8327	0.3720	43.89	0.0276
Total	100.0000	100.0000	17.5350	978.33	0.9240

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z): 1.0031  
BTU/CU.FT IDEAL: 980.6  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 983.5  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 966.4  
DRY BTU @ 15.025: 1003.2  
REAL SPECIFIC GRAVITY: 0.9264

CYLINDER #: 4011  
CYLINDER PRESSURE: 77 PSIG  
ANALYSIS DATE: 06/15/2021  
ANALYSIS TIME: 09:50:13 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: 06/15/2021

GC Method: C6+ Gas



LOGOS OPERATING LLC  
WELL ANALYSIS COMPARISON

Lease: OMEGA 4H; FB SEP  
 Stn. No.:  
 Mtr. No.:

SEPARATOR

06/15/2021  
 46600-11775

Smpl Date:	06/15/2021	06/14/2021	06/13/2021	06/12/2021	06/11/2021	06/10/2021	06/09/2021
Test Date:	06/15/2021	06/14/2021	06/13/2021	06/13/2021	06/11/2021	06/10/2021	06/09/2021
Run No:	LG2021134	LG2021131	LG2021125	LG2021124	LG2021120	LG2021116	LG2021112
Nitrogen:	36.1478	41.5637	41.6960	45.7736	43.5406	50.7414	52.8423
CO2:	0.3804	0.3313	0.3331	0.3068	0.3318	0.3234	0.3178
Methane:	41.3581	38.3215	36.3719	34.8047	36.8888	33.4403	31.0797
Ethane:	8.6312	7.7301	8.1871	7.3451	7.5594	6.5386	6.2394
Propane:	7.7467	6.7860	7.7231	6.6351	6.6362	5.4930	5.5858
I-Butane:	1.0052	0.8567	0.9942	0.8520	0.8266	0.6576	0.7111
N-Butane:	2.6566	2.3411	2.6211	2.2760	2.2419	1.6309	1.8205
I-Pentane:	0.6482	0.5751	0.6138	0.5568	0.5214	0.3600	0.4250
N-Pentane:	0.5931	0.5733	0.6020	0.5556	0.5144	0.3384	0.4065
Hexane+:	0.8327	0.9212	0.8577	0.8943	0.9389	0.4764	0.5719
BTU:	983.5	897.9	923.1	846.2	868.6	722.4	713.9
GPM:	17.5350	16.9520	17.1490	16.6180	16.7620	15.7930	15.7370
SPG:	0.9264	0.9283	0.9460	0.9395	0.9305	0.9130	0.9298
	06/08/2021	06/07/2021	06/06/2021	06/05/2021			
	06/08/2021	06/07/2021	06/06/2021	06/05/2021			
	LG2021108	LG2021104	LG2021099	LG2021096			
	55.6438	59.3257	62.1739	66.2364			
	0.3062	0.2934	0.2886	0.2660			
	29.6557	27.2753	24.9792	22.3273			
	5.7816	5.1970	4.8388	4.1186			
	5.0823	4.5914	4.3943	3.6958			
	0.6378	0.5865	0.5606	0.4828			
	1.6296	1.5172	1.5183	1.3654			
	0.3756	0.3600	0.3579	0.3675			
	0.3575	0.3452	0.3441	0.3745			
	0.5299	0.5083	0.5443	0.7657			
	663.6	609.0	575.2	523.6			
	15.3980	15.0300	14.8080	14.4540			
	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 34689

**QUESTIONS**

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408 Action Number: 34689 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.
<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 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	41
Nitrogen (N2) percentage, if greater than one percent	36
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	06/15/2021
Time venting or flaring was discovered or commenced	06:38 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: 1,462 Mcf   Recovered: 0 Mcf   Lost: 1,462 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 34689

**CONDITIONS**

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 34689
	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