



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

Analysis No: LG2021366
Cust No: 46600-11795

Well/Lease Information

Customer Name: LOGOS OPERATING LLC
Well Name: ROSA UNIT 654H
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA: SF078769
Formation: MANCOS
Cust. Stn. No.: CC #190103
17025-01A

Source: METER RUN
Well Flowing: Y
Pressure: 510 PSIG
Flow Temp: 100 DEG. F
Ambient Temp: 70 DEG. F
Flow Rate: 17132 MCF/D
Sample Method:
Sample Date: 10/20/2021
Sample Time: 12.00 AM
Sampled By: ROBERT A. JORDAN
Sampled by (CO): LOGOS

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0604	0.0601	0.0070	0.00	0.0006
CO2	2.6327	2.6197	0.4500	0.00	0.0400
Methane	97.0485	96.5704	16.4830	980.19	0.5376
Ethane	0.2509	0.2497	0.0670	4.44	0.0026
Propane	0.0061	0.0061	0.0020	0.15	0.0001
Iso-Butane	0.0000	0.0000	0.0000	0.00	0.0000
N-Butane	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Hexane Plus	0.0014	0.0014	0.0010	0.07	0.0000
Total	100.0000	99.5074	17.0100	984.86	0.5809

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0021
BTU/CU.FT IDEAL: 987.1
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 989.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 972.0
DRY BTU @ 15.025: 1009.0
REAL SPECIFIC GRAVITY: 0.5819

CYLINDER #: 6040
CYLINDER PRESSURE: 405 PSIG
ANALYSIS DATE: 10/21/2021
ANALYSIS TIME: 01:03:54 AM
ANALYSIS RUN BY: ALEXIS MITCHELL

GPM, BTU, and SPG calculations as shown above are based on current GPA constants.

GPA Standard: GPA-2261

GC: Danalyzer Model 500

GC Method: C6+ Gas

Last Cal/Verify: 10/21/2021



LOGOS OPERATING LLC
WELL ANALYSIS COMPARISON

Lease:	ROSA UNIT 654H	METER RUN	10/21/2021
Stn. No.:	CC #190103	MANCOS	46600-11795
Mtr. No.:	17025-01A		

Smpl Date:	10/20/2021	08/30/2021
Test Date:	10/21/2021	08/31/2021
Run No:	LG2021366	LG2021320
Nitrogen:	0.0604	0.3648
CO2:	2.6327	0.5172
Methane:	97.0485	98.8797
Ethane:	0.2509	0.2230
Propane:	0.0061	0.0083
I-Butane:	0.0000	0.0008
N-Butane:	0.0000	0.0012
I-Pentane:	0.0000	0.0000
N-Pentane:	0.0000	0.0000
Hexane+:	0.0014	0.0050
BTU:	989.2	1007.5
GPM:	17.0100	16.9840
SPG:	0.5819	0.5626

LOGOS Operating, LLC
 Rosa Unit 654H
 Flared during flowback – Meter 17025-01A
 API: 30-039-31384
 Unit A, Section 25 T31N R06W
 36.874968, -107.408804 NAD83

1199 ROSA UNIT 654H SEP GAS MTR 17025-01A						
Date ▼	Gas Flowed	Hours Flowed	Comments	Differential	Static Pressure Psia	Gas Temp
10/21/2021	8,568.10	0		143.5887298	442.8529663	101.3314056
10/20/2021	8,466.70	0	Flared due to Malfunction with Harvest gathering	142.8719177	448.3872985	100.5719833
10/19/2021	8,736.94	0		143.4380950	443.5162963	97.99849700
10/18/2021	8,822.97	0		151.1587219	435.4469604	98.96166229
10/17/2021	8,900.05	0		153.3372192	435.3880310	101.3430023
10/16/2021	8,987.07	0		161.0317687	433.2745666	100.3416442
10/15/2021	9,088.69	0		161.4083862	432.1282348	99.32635498
10/14/2021	9,197.51	0		158.3421936	437.1514587	94.10530853
10/13/2021	8,675.30	0		164.4255523	440.1860961	98.29847717

Flowback report

Date & time	Flaring Cum Time	Approx. Gas Flared (mcf)	Well Head Temp (F)
10/20/2021 10:00	2:00:00	0	143
10/20/2021 11:00	2:00:00	0	141
10/20/2021 12:00	3:00:00	587	139
10/20/2021 13:00	4:00:00	720	140
10/20/2021 14:00	5:00:00	317	139
10/20/2021 15:00	5:00:00	0	141

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
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DEFINITIONS

Action 78813

DEFINITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 78813
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application: • this application's operator, hereinafter "this operator"; • venting and/or flaring, hereinafter "vent or flare"; • any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms"; • the statements in (and/or attached to) this, hereinafter "the statements in this"; • and the past tense will be used in lieu of mixed past/present tense questions and statements.
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QUESTIONS

Action 78813

QUESTIONS

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	Action Number: 78813
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS**Prerequisites**

Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.

Incident Well	Not answered.
Incident Facility	[fAPP2134436516] PAD 29 UF-FAC

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 this vent or flare caused by an emergency or malfunction	Yes
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a vent or flare event	Yes, minor venting and/or flaring of natural gas.

An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.

Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this vent or flare 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
Was the vent or flare within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved

Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	Flare occurred due to malfunction emergency from Harvest-Mid Stream. The El Cedro Plant went down resulting in Logos having to immediately flare from the Rosa Unit 654H & Rosa 656H combined flare stack Incident Numbers nAPP213133001 & nAPP2131331194 were submitted to the NMOCD on 11/9/2021. Both events were cancelled on 2/6/2022 and this event was created to address the event to the correct location after a complete data review was conducted of Logos Events. Original event was recorded as a Venting. Correction was made to note Flaring occurred not venting.

Representative Compositional Analysis of Vented or Flared Natural Gas

Please provide the mole percent for the percentage questions in this group.

Methane (CH4) percentage	97
Nitrogen (N2) percentage, if greater than one percent	0
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	3
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.

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QUESTIONS, Page 2

Action 78813

QUESTIONS (continued)

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	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	10/19/2021
Time vent or flare was discovered or commenced	02:00 PM
Time vent or flare was terminated	03:00 PM
Cumulative hours during this event	1

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance Gas Compressor Station Natural Gas Flared Released: 286 Mcf Recovered: 0 Mcf Lost: 286 Mcf
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Volume was calculated utilizing Logos internal systems
Is this a gas only submission (i.e. only significant Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

Venting or Flaring Resulting from Downstream Activity	
Was this vent or flare a result of downstream activity	Yes
Was notification of downstream activity received by this operator	No
Downstream OGRID that should have notified this operator	[373888] Harvest Four Corners, LLC
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	True
Please explain reason for why this event was beyond this operator's control	Harvest Midstream El-Cedro Plant had a emergency malfunction resulting in Logos Operating having to emergency flare.
Steps taken to limit the duration and magnitude of vent or flare	Logos Operating diverted gas immediately to a separate CDP and notified Harvest Midstream of the high line pressure.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Logos Operating Diverted gas to a separate CDP while line pressure was corrected by Harvest Midstream.

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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

☒	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
☒	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
☒	I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
☒	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
☒	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

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	Action Number: 78813
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
vanessaf	If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	2/6/2022