



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 Last Cal/Verify: 10/21/2021

GC Method: C6+ Gas



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 | | |

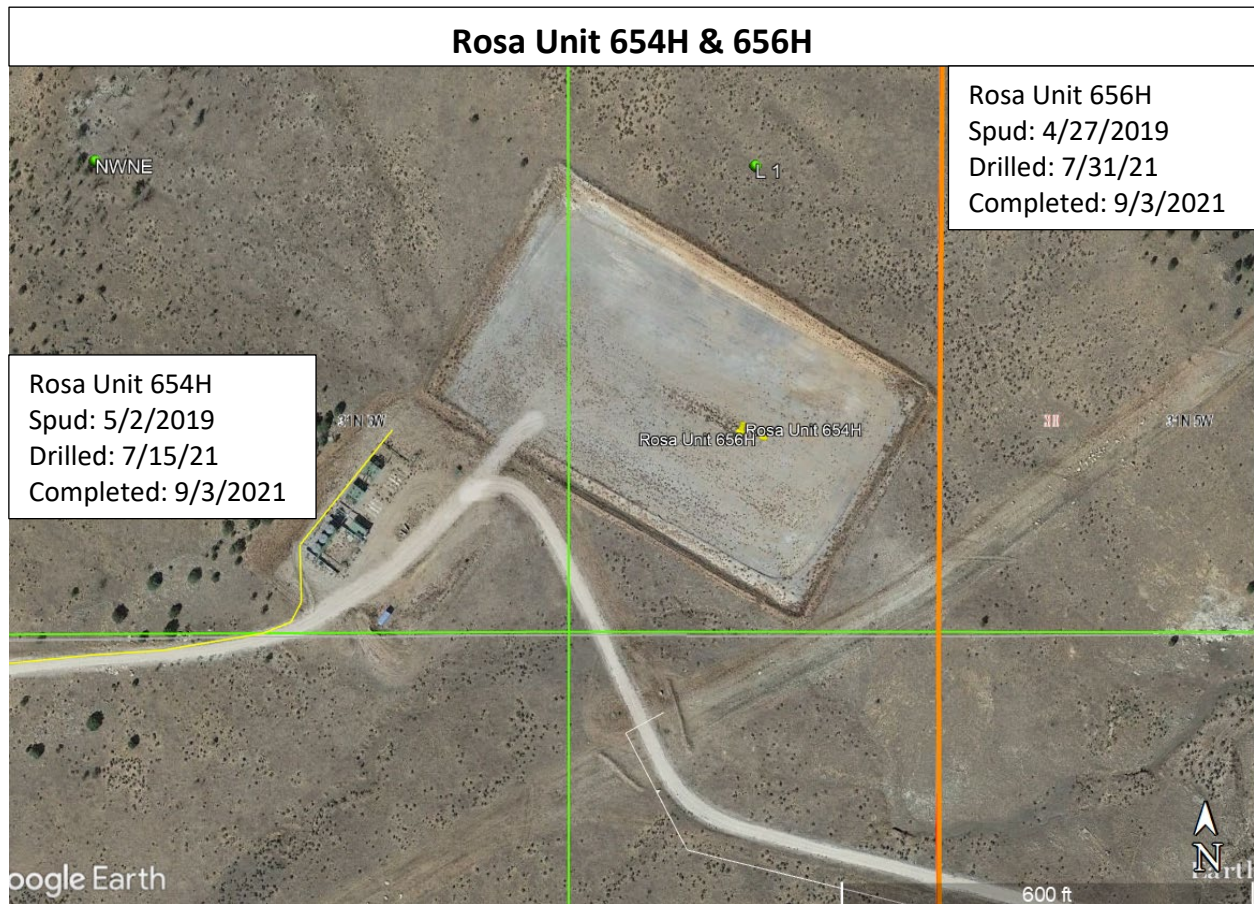
| | | |
|-------------------|------------|------------|
| Smpl Date: | 10/20/2021 | 08/30/2021 |
| Test Date: | 10/21/2021 | 08/31/2021 |
| Run No: | LG2021366 | LG2021320 |
| Nitrogen: | 0.0604 | 0.3648 |
| CO2: | 2.6327 | 0.5172 |
| Methane: | 97.0485 | 98.8797 |
| Ethane: | 0.2509 | 0.2230 |
| Propane: | 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

| 11997 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 | | 142.8719177 | 448.3872985 | 100.5719833 |
| 10/19/2021 | 8,736.94 | 0 | Flared due to Malfunction with Harvest gathering | 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) |
|------------------|------------------|--------------------------|--------------------|
| 10/19/2021 11:00 | 1:00:00 | 0 | 137 |
| 10/19/2021 12:00 | 1:00:00 | 0 | 136 |
| 10/19/2021 13:00 | 1:00:00 | 0 | 137 |
| 10/19/2021 14:00 | 2:00:00 | 215 | 137 |
| 10/19/2021 15:00 | 2:00:00 | 0 | 140 |
| 10/19/2021 16:00 | 2:00:00 | 0 | 137 |



District I1625 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 60930

QUESTIONS

| | |
|---|--|
| Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401 | OGRID: 289408 |
| | Action Number: 60930 |
| | 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 | [30-039-31384] ROSA UNIT #654H |
| Incident Facility | Not answered. |

| | |
|--|---|
| 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 and/or flaring caused by an emergency or malfunction | Yes |
| Did or will this venting and/or flaring last eight hours or more cumulatively within any 24-hour period from a single event | No |
| Is this considered a submission for a venting and/or flaring 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 or will there be at least 50 MCF of natural gas vented and/or flared during this event | Yes |
| Did this venting and/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 |
| Was the venting and/or flaring 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 | Unknown |
| 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 | 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. |

| | |
|---|------------|
| Date(s) and Time(s) | |
| Date venting and/or flaring was discovered or commenced | 10/19/2021 |
| Time venting and/or flaring was discovered or commenced | 02:00 PM |
| Time venting and/or flaring 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 | Cause: Midstream Emergency Maintenance Gas Compressor Station Natural Gas Vented Released: 215 Mcf Recovered: 0 Mcf Lost: 215 Mcf |

| | |
|---|--|
| Natural Gas Flared (Mcf) Details | Not answered. |
| 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 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 or is this venting and/or flaring a result of downstream activity | Yes |
| Was notification of downstream activity received by you or your operator | No |
| Downstream OGRID that should have notified you or your operator | [373888] Harvest Four Corners, LLC |
| Date notified of downstream activity requiring this venting and/or flaring | Not answered. |
| Time notified of downstream activity requiring this venting and/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 | Harvest El Cedro went down and backed pressure into Rosa UNit 654H and 656H and caused LOGOS to flare instead to blowing down. This issue happened so fast. |
| Steps taken to limit the duration and magnitude of venting and/or flaring | Notified Harvest immediately regarding high line pressure activity and Harvest took action to repair. LOGOS diverted the gas downstream immediately to a different CDP |
| Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring | The flaring was due to a mal-function emergency from Harvest Mid-stream. The El Cedro plant went down and LOGOS immediately took action but flared very minimal. |

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CONDITIONS

Action 60930

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| Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401 | OGRID: 289408 |
| | Action Number: 60930 |
| | Action Type: [C-129] Venting and/or Flaring (C-129) |

CONDITIONS

| Created By | Condition | Condition Date |
|--------------|--|----------------|
| marie florez | 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. | 11/9/2021 |