

**ARMSTRONG GAS LABS, INC.**

P.O. Box 988
 Monahans, Texas 79756
 (432) 943-8844 (FAX) 943-8855

GAS ANALYSIS REPORT

Analysis No.: 211104
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	(Ideal) <u>BTU</u>	(Ideal) <u>SG</u>	(Real) <u>GPM</u>
Nitrogen	2.0718	0.000	0.020	
Methane	79.6492	801.939	0.441	
CO2	2.9843	0.000	0.045	
Ethane	7.9403	140.080	0.082	2.119
H2S	0.0100	0.000	0.000	
Propane	3.9585	99.288	0.060	1.088
Iso-Butane	0.5989	19.415	0.012	0.196
Butane	1.3758	44.742	0.028	0.433
Iso-Pentane	0.4198	16.743	0.010	0.153
Pentane	0.3824	15.281	0.010	0.138
Hexanes C6+	0.6090	31.139	0.020	0.265
Hydrogen	N/A			
Helium	N/A			
Oxygen	N/A			
CO	N/A			
Totals	100.0000	1168.627	0.729	4.392

Producer: Centennial
Well / Sta. Name: Winnebago 501H
Sta. No.: 2020
Formation:
Field: New Mexico
County:
API Number: 3002546401

Spot / Composite: SP
 Date / Time On:
 Date / Time Off: 05/22/21
 Date to Lab: 05/24/21
 Date Analyzed: 05/26/21
 Effective Date:

Sample Press. (PSIG): 86
 Line Press. (PSIG): 86
 Sample Temp. (F): 74
 Fl. Gas Temp. (F): 74
 Amb. Temp. (F): 68

Del. To:
 Sampled By: JL
 Cylinder No.: AGL-112

Field H2O (#/mm):

Field H2S (PPM): 100.0
 Field H2S (Grains): 6.29

Pressure Base: 14.65**Temp. Base: 60**

Z Factor (Dry): 0.9966645

Z Factor (Act.): 0.9966645

Dry BTU w/ H2S: 1172.60

Sat BTU w/ H2S: 1152.52

As Del. BTU w/ H2S: 1172.60

Dry BTU W/O H2S (Real): 1172.54**Sat. BTU W/O H2S (Real): 1152.45****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1172.54***BTU Calc: Dry***Sp. Gravity (Real): 0.7307**

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 4.392**GPM Propane+ (Real): 2.273****GPM IC5+ (Real): 0.556**

GPA 2145 / 2172

Fld. Remarks: FLOW RATE 717**Lab Remarks:**

Preliminary Production Data

LeaseNumber	Wellname	ProductionDate	Gas Flare
326135	Winnebago 30 State Com #501H	6/16/2021	0
326135	Winnebago 30 State Com #501H	6/15/2021	0
326135	Winnebago 30 State Com #501H	6/14/2021	0
326135	Winnebago 30 State Com #501H	6/13/2021	0
326135	Winnebago 30 State Com #501H	6/12/2021	0
326135	Winnebago 30 State Com #501H	6/11/2021	0
326135	Winnebago 30 State Com #501H	6/10/2021	147.43
326135	Winnebago 30 State Com #501H	6/9/2021	0

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 33155

QUESTIONS

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 33155
	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	No
Is this considered a submission for a notification of a major venting or flaring	Yes, minor 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	Not answered.
Facility Type	Not answered.

Equipment Involved

Primary Equipment Involved	Gas Compressor Station
Additional details for Equipment Involved. Please specify	This flare was caused by High Line pressure due to Lucid taking down a compressor to perform Preventative Maintenance that we were NOT notified on.

Representative Compositional Analysis of Vented or Flared Natural Gas

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

Methane (CH4) percentage	80
Nitrogen (N2) percentage, if greater than one percent	2
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 or flaring was discovered or commenced	06/10/2021
Time venting or flaring was discovered or commenced	08:30 AM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	06/10/2021
Time venting or flaring was terminated	12:30 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	4
Longest duration of cumulative hours within any 24-hour period during this event	4

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: High Line Pressure Gas Compressor Station Natural Gas Flared Spilled: 147 Mcf Recovered: 0 Mcf Lost: 147 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	Yes
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	This flare was caused by High Line pressure due to Lucid taking down a compressor to perform Preventative Maintenance that we were NOT notified on.
Steps taken to limit the duration and magnitude of venting or flaring	We contacted Lucid to see what was causing the high line pressure.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Lucid will have to give us notice when they are performing preventative maintenance.

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CONDITIONS

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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.	6/22/2021