

**ARMSTRONG GAS LABS, INC.**

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

GAS ANALYSIS REPORT

Analysis No.: 310858
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	(Ideal) <u>BTU</u>	(Ideal) <u>SG</u>	(Real) <u>GPM</u>
Nitrogen	3.7933	0.000	0.037	
Methane	67.1556	676.148	0.372	
CO2	11.6055	0.000	0.176	
Ethane	9.1378	161.205	0.095	2.439
H2S	0.0500	0.000	0.001	
Propane	4.8830	122.477	0.074	1.343
Iso-Butane	0.5698	18.471	0.011	0.186
Butane	1.4454	47.006	0.029	0.455
Iso-Pentane	0.4110	16.392	0.010	0.150
Pentane	0.4120	16.464	0.010	0.149
Hexanes C6+	0.5366	27.437	0.017	0.234
Hydrogen	N/A			
Helium	N/A			
Oxygen	N/A			
CO	N/A			
Totals	100.0000	1085.601	0.833	4.956

Producer: Centennial
Well / Sta. Name: PIRATE 101H
Sta. No.: T172281671
Formation:
Field: New Mexico
County:
API Number: 3002543917

Spot / Composite: SP

Date / Time On:
 Date / Time Off: 03/06/21
 Date to Lab: 03/08/21
 Date Analyzed: 03/10/21
 Effective Date:

Sample Press. (PSIG): 70
 Line Press. (PSIG): 70
 Sample Temp. (F): 60
 Fl. Gas Temp. (F): 60
 Amb. Temp. (F): 42

Del. To:
 Sampled By: JL
 Cylinder No.: AGL-473

Field H2O (#/mm):

Field H2S (PPM): 500.0
 Field H2S (Grains): 31.47

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

Z Factor (Dry): 0.9962578

Z Factor (Act.): 0.9962578

Dry BTU w/ H2S: 1090.00

Sat BTU w/ H2S: 1071.34

As Del. BTU w/ H2S: 1090.00

Dry BTU W/O H2S (Real): 1089.68**Sat. BTU W/O H2S (Real): 1071.03****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1089.68***BTU Calc: Dry***Sp. Gravity (Real): 0.8358**

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 4.956**GPM Propane+ (Real): 2.517****GPM IC5+ (Real): 0.533**

GPA 2145 / 2172

Fld. Remarks: FLOW RATE 500**Lab Remarks: CP @ LAB 49 PSIG**

Preliminary Production Data

Wellname	ProductionDate	Gas Flare
Pirate State #101H	8/6/2021	80
Pirate State #101H	8/7/2021	315
Pirate State #101H	8/8/2021	178
Pirate State #101H	8/22/2021	268
Pirate State #101H	8/23/2021	0
Pirate State #101H	8/24/2021	324
Pirate State #101H	8/25/2021	413
Pirate State #101H	8/26/2021	279
Pirate State #101H	8/27/2021	302
Pirate State #101H	8/28/2021	356
Pirate State #101H	8/29/2021	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 45170

QUESTIONS

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 45170
	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	[30-025-43917] PIRATE STATE #101H
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	Yes
Is this considered a submission for a notification of a major venting and/or flaring	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	Other (Specify)
Additional details for Equipment Involved. Please specify	Power outage

Representative Compositional Analysis of Vented or Flared Natural Gas

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

Methane (CH4) percentage	67
Nitrogen (N2) percentage, if greater than one percent	4
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	12
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	08/07/2021
Time venting and/or flaring was discovered or commenced	12:00 AM
Time venting and/or flaring was terminated	06:00 PM
Cumulative hours during this event	18

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Not answered.
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Natural Gas Flared (Mcf) Details	Cause: Power Failure Gas Plant Natural Gas Flared Released: 315 Mcf Recovered: 0 Mcf Lost: 315 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 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
Date notified of downstream activity requiring this venting and/or flaring	08/05/2021
Time notified of downstream activity requiring this venting and/or flaring	07:00 AM

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	Lucid had a power outage.
Steps taken to limit the duration and magnitude of venting and/or flaring	Stay in contact with Lucid to see when power will be back on.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	Waiting on Lucid to get power back on.

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
kcastillo	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.	8/30/2021