

**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 310859
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	(Ideal) <u>BTU</u>	(Ideal) <u>SG</u>	(Real) <u>GPM</u>
Nitrogen	3.8100	0.000	0.037	
Methane	76.2255	767.468	0.422	
CO2	4.3908	0.000	0.067	
Ethane	8.4583	149.218	0.088	2.257
H2S	0.0040	0.000	0.000	
Propane	4.1444	103.951	0.063	1.139
Iso-Butane	0.4783	15.505	0.010	0.156
Butane	1.2513	40.693	0.025	0.393
Iso-Pentane	0.3301	13.166	0.008	0.120
Pentane	0.3714	14.842	0.009	0.134
Hexanes C6+	0.5359	27.401	0.017	0.233
Hydrogen	N/A			
Helium	N/A			
Oxygen	N/A			
CO	N/A			
Totals	100.0000	1132.244	0.746	4.432

Producer: Centennial
Well / Sta. Name: Pirate State 301H
Sta. No.: 0058
Formation:
Field: New Mexico
County:
API Number: 3002544426

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): 108
 Line Press. (PSIG): 108
 Sample Temp. (F): 69
 Fl. Gas Temp. (F): 69
 Amb. Temp. (F): 42

Del. To:
 Sampled By: JL
 Cylinder No.: AGL-760

Field H2O (#/mm):

Field H2S (PPM): 40.0
 Field H2S (Grains): 2.52

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

Z Factor (Dry): 0.9967054

Z Factor (Act.): 0.9967054

Dry BTU w/ H2S: 1136.01

Sat BTU w/ H2S: 1116.55

As Del. BTU w/ H2S: 1136.01

Dry BTU W/O H2S (Real): 1135.99**Sat. BTU W/O H2S (Real): 1116.53****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1135.99***BTU Calc: Dry***Sp. Gravity (Real): 0.7483**

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 4.432**GPM Propane+ (Real): 2.175****GPM IC5+ (Real): 0.487**

GPA 2145 / 2172

Fld. Remarks: FLOW RATE 80.06**Lab Remarks:**

Preliminary Production Data

Wellname	ProductionDate	Gas Flare
Pirate State 301H	7/1/2021	0
Pirate State 301H	7/2/2021	110
Pirate State 301H	7/3/2021	0
Pirate State 301H	7/4/2021	0
Pirate State 301H	7/5/2021	183
Pirate State 301H	7/6/2021	135
Pirate State 301H	7/7/2021	0
Pirate State 301H	7/8/2021	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 36784

QUESTIONS

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165 Action Number: 36784 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	Yes
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	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	76
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	4
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	07/05/2021
Time venting or flaring was discovered or commenced	06:00 PM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	07/05/2021
Time venting or flaring was terminated	08:00 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	2
Longest duration of cumulative hours within any 24-hour period during this event	2

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: 183 Mcf Recovered: 0 Mcf Lost: 183 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	07/05/2021
Time notified of downstream activity requiring this venting or flaring	06:00 PM

Steps and Actions to Prevent Waste

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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	Problems downstream. Lucid did not give us previous notice.
Steps taken to limit the duration and magnitude of venting or flaring	We called the Midstream company to find out what was going on.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	We have a line connected to Targa, waiting on the okay from them to start sending them gas.

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CONDITIONS

Action 36784

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Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 36784
	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.	7/19/2021