

**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>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <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\***

LeaseNumber	Wellname	ProductionDate	Gas Flare
326135	Pirate State 301H	6/20/2021	0
326135	Pirate State 301H	6/21/2021	0
326135	Pirate State 301H	6/22/2021	0
326135	Pirate State 301H	6/23/2021	82
326135	Pirate State 301H	6/24/2021	0
326135	Pirate State 301H	6/25/2021	0
326135	Pirate State 301H	6/26/2021	0
326135	Pirate State 301H	6/27/2021	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 34611

**QUESTIONS**

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165 Action Number: 34611 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	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.
<b>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.</b>	
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
<b>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</b>	
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	06/23/2021
Time venting or flaring was discovered or commenced	09:00 AM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	06/23/2021
Time venting or flaring was terminated	11:45 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	3
Longest duration of cumulative hours within any 24-hour period during this event	3

**Measured or Estimated Volume of Vented or Flared Natural Gas**

Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Midstream Scheduled Maintenance   Gas Compressor Station   Natural Gas Flared   Spilled: 82 Mcf   Recovered: 0 Mcf   Lost: 82 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	06/23/2021
Time notified of downstream activity requiring this venting or flaring	09:00 AM

**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	We were not notified of maintenance to the compressor.
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 requested to receive prior notification of these events so that we can reroute our gas.

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CONDITIONS  
  
Action 34611

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Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 34611
	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.	7/1/2021