

**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 211332  
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	(Ideal) <u>BTU</u>	(Ideal) <u>SG</u>	(Real) <u>GPM</u>
Nitrogen	3.4971	0.000	0.034	
Methane	72.4440	729.394	0.401	
CO2	0.2173	0.000	0.003	
Ethane	13.8725	244.733	0.144	3.703
H2S	0.0000	0.000	0.000	
Propane	5.5594	139.442	0.085	1.529
Iso-Butane	0.7386	23.943	0.015	0.241
Butane	1.9285	62.717	0.039	0.607
Iso-Pentane	0.4907	19.571	0.012	0.179
Pentane	0.4996	19.965	0.012	0.181
Hexanes C6+	0.7523	38.466	0.024	0.328
Hydrogen	N/A			
Helium	N/A			
Oxygen	N/A			
CO	N/A			
Totals	100.0000	1278.232	0.769	6.768

**Producer:** Centennial  
**Well / Sta. Name:** JUICE BUD #4H  
**Sta. No.:** 90181088  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002542007

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 06/12/21  
 Date to Lab: 06/17/21  
 Date Analyzed: 06/28/21  
 Effective Date:

Sample Press. (PSIG): 111  
 Line Press. (PSIG): 111  
 Sample Temp. (F): 90  
 Fl. Gas Temp. (F): 90  
 Amb. Temp. (F): 74

Del. To:  
 Sampled By: JL  
 Cylinder No.: AGL-742

**Field H2O (#/mm):****Field H2S (PPM):** 0.0

Field H2S (Grains): 0.0

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

Z Factor (Dry): 0.9961083

Z Factor (Act.): 0.9961083

Dry BTU w/ H2S: 1283.23

Sat BTU w/ H2S: 1261.27

As Del. BTU w/ H2S: 1283.23

**Dry BTU W/O H2S (Real):** 1283.23**Sat. BTU W/O H2S (Real):** 1261.27**H2O (# / mmcf):** 0.0**AS DEL. BTU W/O H2S (Real):** 1283.23*BTU Calc: Dry***Sp. Gravity (Real):** 0.7722

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real):** 6.768**GPM Propane+ (Real):** 3.065**GPM IC5+ (Real):** 0.688

GPA 2145 / 2172

**Fld. Remarks:** FLOW RATE 374**Lab Remarks:** CP @ LAB 85 PSIG

**\*Preliminary Production Data\***

Wellname	ProductionDate	Gas Flare
Juice Bud State Com #4H	6/25/2021	0
Juice Bud State Com #4H	6/26/2021	0
Juice Bud State Com #4H	6/27/2021	0
Juice Bud State Com #4H	6/28/2021	75
Juice Bud State Com #4H	6/29/2021	200
Juice Bud State Com #4H	6/30/2021	0
Juice Bud State Com #4H	7/1/2021	0
Juice Bud State Com #4H	7/2/2021	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 36190

**QUESTIONS**

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 36190
	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	Yes
Did or will this venting 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 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 19.13.297 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	Valve
Additional details for Equipment Involved. Please specify	Kim Ray back pressure valve on flare line ruptured a diaphragm, therefore not holding pressure as designed.

**Representative Compositional Analysis of Vented or Flared Natural Gas**

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

Methane (CH4) percentage	72
Nitrogen (N2) percentage, if greater than one percent	3
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	0
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	06/28/2021
Time venting or flaring was discovered or commenced	05:00 PM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	06/29/2021
Time venting or flaring was terminated	03:00 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	22
Longest duration of cumulative hours within any 24-hour period during this event	22

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

Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Equipment Failure   Valve   Natural Gas Flared   Spilled: 275 Mcf   Recovered: 0 Mcf   Lost: 275 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	No
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	Equipment Malfunction: Kim Ray back pressure valve on flare line ruptured a diaphragm, therefore not holding pressure as designed.
Steps taken to limit the duration and magnitude of venting or flaring	Quickly assessed problem and rushed part out to repair.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Corrective action is replacing failed Kim Ray.

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CONDITIONS

Action 36190

## CONDITIONS

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	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.	7/14/2021