

**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 210237
 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	4.1830	0.000	0.040	
Methane	67.2970	677.572	0.373	
CO2	12.3655	0.000	0.188	
Ethane	8.8615	156.331	0.092	2.365
H2S	0.0300	0.000	0.000	
Propane	4.4466	111.531	0.068	1.222
Iso-Butane	0.5167	16.750	0.010	0.169
Butane	1.2411	40.362	0.025	0.390
Iso-Pentane	0.3258	12.994	0.008	0.119
Pentane	0.3184	12.724	0.008	0.115
Hexanes C6+	0.4144	21.189	0.013	0.180
Hydrogen	N/A			
Helium	N/A			
Oxygen	N/A			
CO	N/A			
Totals	100.0000	1049.452	0.826	4.560

Producer: Centennial
Well / Sta. Name: Raider Federal Com 101H
Sta. No.: 5795
Formation:
Field: New Mexico
County:
API Number: 3002543408

Spot / Composite: SP
 Date / Time On:
 Date / Time Off: 01/28/21
 Date to Lab: 01/29/21
 Date Analyzed: 02/01/21
 Effective Date:

Sample Press. (PSIG): 51
 Line Press. (PSIG): 51
 Sample Temp. (F): 57
 Fl. Gas Temp. (F): 57
 Amb. Temp. (F): 36

Del. To:
 Sampled By: JL
 Cylinder No.: AGL-682

Field H2O (#/mm):

Field H2S (PPM): 300.0
 Field H2S (Grains): 18.88

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

Z Factor (Dry): 0.9964295

Z Factor (Act.): 0.9964295

Dry BTU w/ H2S: 1053.41

Sat BTU w/ H2S: 1035.37

As Del. BTU w/ H2S: 1053.40

Dry BTU W/O H2S (Real): 1053.21**Sat. BTU W/O H2S (Real): 1035.18****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1053.21***BTU Calc: Dry***Sp. Gravity (Real): 0.8284**

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 4.560**GPM Propane+ (Real): 2.195****GPM IC5+ (Real): 0.414**

GPA 2145 / 2172

Fld. Remarks: FLOW RATE 645**Lab Remarks:**

Preliminary Production Data

Wellname	ProductionDate	Gas Flare
Raider Federal Com 101H	7/1/2021	0
Raider Federal Com 101H	7/2/2021	112
Raider Federal Com 101H	7/3/2021	0
Raider Federal Com 101H	7/4/2021	0
Raider Federal Com 101H	7/5/2021	237
Raider Federal Com 101H	7/6/2021	188
Raider Federal Com 101H	7/7/2021	0
Raider Federal Com 101H	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 36823

QUESTIONS

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165 Action Number: 36823 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	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 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: 237 Mcf Recovered: 0 Mcf Lost: 237 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

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 happened downstream at the Lucid compressor station.
Steps taken to limit the duration and magnitude of venting or flaring	We contacted the Midstream company to see what issues they were having and how long it would take to fix the problem.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	We have a line connected to Targa, we are waiting on Targa to let us know when we can start using this line.

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CONDITIONS

Action 36823

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Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 36823
	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