

**ARMSTRONG GAS LABS, INC.**

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

GAS ANALYSIS REPORT

Analysis No.: 211106
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	(Ideal) <u>BTU</u>	(Ideal) <u>SG</u>	(Real) <u>GPM</u>
Nitrogen	1.2599	0.000	0.012	
Methane	68.7026	691.724	0.381	
CO2	6.2312	0.000	0.095	
Ethane	10.2613	181.026	0.107	2.741
H2S	2.0000	0.000	0.024	
Propane	5.9850	150.117	0.091	1.647
Iso-Butane	0.9383	30.417	0.019	0.307
Butane	2.1267	69.162	0.043	0.670
Iso-Pentane	0.6692	26.690	0.017	0.244
Pentane	0.5927	23.685	0.015	0.215
Hexanes C6+	1.2331	63.050	0.040	0.537
Hydrogen	N/A			
Helium	N/A			
Oxygen	N/A			
CO	N/A			
Totals	100.0000	1235.872	0.841	6.361

Producer: Centennial
Well / Sta. Name: Hagberry 9 State Com 502H
Sta. No.: 25420
Formation:
Field: New Mexico
County:
API Number: 3002548405

Spot / Composite: SP
 Date / Time On:
 Date / Time Off: 05/22/21
 Date to Lab: 05/24/21
 Date Analyzed: 05/26/21
 Effective Date:

Sample Press. (PSIG): 89
 Line Press. (PSIG): 89
 Sample Temp. (F): 106
 Fl. Gas Temp. (F): 106
 Amb. Temp. (F): 67

Del. To:
 Sampled By: JL
 Cylinder No.: AGL-35

Field H2O (#/mm):

Field H2S (PPM): 20,000.0
 Field H2S (Grains): 1258.65

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

Z Factor (Dry): 0.9955336

Z Factor (Act.): 0.9955336

Dry BTU w/ H2S: 1254.18

Sat BTU w/ H2S: 1232.74

As Del. BTU w/ H2S: 1254.18

Dry BTU W/O H2S (Real): 1241.42**Sat. BTU W/O H2S (Real): 1220.20****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1241.42***BTU Calc: Dry***Sp. Gravity (Real): 0.8447**

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 6.361**GPM Propane+ (Real): 3.620****GPM IC5+ (Real): 0.996**

GPA 2145 / 2172

Fld. Remarks: API# NOT LISTED ON TAG / FLOW RATE 1298**Lab Remarks: TAG: NEW WELL/INITIAL FLOW**

Preliminary Production Data

LeaseNumber	Wellname	ProductionDate	Gas Flare
326135	Hagberry 9 State Com #502H	6/8/2021	0
326135	Hagberry 9 State Com #502H	6/7/2021	0
326135	Hagberry 9 State Com #502H	6/6/2021	0
326135	Hagberry 9 State Com #502H	6/5/2021	0
326135	Hagberry 9 State Com #502H	6/4/2021	0
326135	Hagberry 9 State Com #502H	6/3/2021	73
326135	Hagberry 9 State Com #502H	6/2/2021	0
326135	Hagberry 9 State Com #502H	6/1/2021	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 32126

QUESTIONS

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165 Action Number: 32126 Action Type: [C-129] Venting and/or Flaring (C-129)
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QUESTIONS

Determination of Reporting Requirements <i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
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 19.13.297 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 <i>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.</i>	
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	One of Lucid's compressors at their Greyhound station causing high line pressure on our end. We have no alternate line to send gas to from this site.

Representative Compositional Analysis of Vented or Flared Natural Gas <i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	69
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	2
Carbon Dioxide (CO2) percentage, if greater than one percent	6
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	06/03/2021
Time venting or flaring was discovered or commenced	03:30 PM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	06/03/2021
Time venting or flaring was terminated	06:13 PM
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: Equipment Failure Gas Compressor Station Natural Gas Flared Spilled: 56 Mcf Recovered: 0 Mcf Lost: 56 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	06/03/2021
Time notified of downstream activity requiring this venting or flaring	03:30 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	The compressor that failed belongs to Lucid, the issue was downstream of the custody transfer meter.
Steps taken to limit the duration and magnitude of venting or flaring	Communicated with Lucid on timing of repairs.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	The issue will need to be corrected on Lucid's end.

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CONDITIONS

Action 32126

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Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 32126
	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.	6/15/2021