



Certificate of Analysis

Number: 6030-23120207-002A

Artesia Laboratory

200 E Main St.
Artesia, NM 88210
Phone 575-746-3481

Station Name: Lea Unit South TPG
 Station Number: 118001300
 Station Location: Avant Natural Resources
 Sample Point: Meter Run
 Analyzed: 12/20/2023 06:49:42 by EBH

Dec. 20, 2023
 Sampled By: Dustin Sharp
 Sample Of: Gas Spot
 Sample Date: 12/11/2023
 Sample Conditions: 30.9 psig, @ 45.1 °F
 Method: GPA 2286
 Cylinder No: 5030-04311

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Hydrogen Sulfide	0.000	0.000	
Nitrogen	3.305	3.974	
Methane	69.860	48.101	
Carbon Dioxide	5.340	10.087	
Ethane	11.614	14.989	3.110
Propane	5.845	11.062	1.612
Iso-Butane	0.664	1.656	0.218
n-Butane	1.740	4.341	0.549
Iso-Pentane	0.418	1.294	0.153
n-Pentane	0.444	1.375	0.161
i-Hexanes	0.177	0.639	0.071
n-Hexane	0.095	0.361	0.040
Benzene	0.057	0.190	0.016
Cyclohexane	0.069	0.251	0.024
i-Heptanes	0.134	0.527	0.054
n-Heptane	0.027	0.117	0.012
Toluene	0.041	0.162	0.014
i-Octanes	0.086	0.381	0.038
n-Octane	0.007	0.036	0.004
Ethylbenzene	0.007	0.028	0.003
Xylenes	0.011	0.048	0.004
i-Nonanes	0.017	0.099	0.009
n-Nonane	0.004	0.025	0.002
Decanes Plus	0.038	0.257	0.025
	100.000	100.000	6.119

Calculated Physical Properties

Calculated Molecular Weight

Total

23.30

C10+

168.07

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.696 psia & 60°F

Real Gas Dry BTU	1214.7	9098.0
Water Sat. Gas Base BTU	1193.5	8904.4
Relative Density Real Gas	0.8073	5.8030
Compressibility Factor	0.9961	
Ideal, Gross HV - Wet	1188.8	
Ideal, Gross HV - Dry at 14.696 psia	1209.9	
Net BTU Dry Gas - real gas	1103	
Net BTU Wet Gas - real gas	1084	

Hydrocarbon Laboratory Manager

Quality Assurance:

The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

Preliminary Production Data

Facility Name	Event Date	Flare mcf
Lea Unit South CTB	2/21/2024	900 mcf

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District IV
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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

DEFINITIONS

Action 344471

DEFINITIONS

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 344471
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application: • this application's operator, hereinafter "this operator"; • venting and/or flaring, hereinafter "vent or flare"; • any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms"; • the statements in (and/or attached to) this, hereinafter "the statements in this"; • and the past tense will be used in lieu of mixed past/present tense questions and statements.
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QUESTIONS

Action 344471

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QUESTIONS

Prerequisites Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.	
Incident Well	Unavailable.
Incident Facility	[fAPP2124653228] LEA UNIT SOUTH

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 this vent or flare caused by an emergency or malfunction	No
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a vent or flare event	Yes, major venting and/or flaring of natural gas.
An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.	
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this vent or flare 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
Was the vent or flare within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved	
Primary Equipment Involved	Not answered.
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	70
Nitrogen (N2) percentage, if greater than one percent	3
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	5
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 Sufide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (C02) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 344471

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/21/2024
Time vent or flare was discovered or commenced	06:00 AM
Time vent or flare was terminated	06:00 AM
Cumulative hours during this event	24

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 Released: 900 Mcf Recovered: 0 Mcf Lost: 900 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 significant Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

Venting or Flaring Resulting from Downstream Activity	
Was this vent or flare a result of downstream activity	No
Was notification of downstream activity received by this operator	Not answered.
Downstream OGRID that should have notified this operator	Not answered.
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	True
Please explain reason for why this event was beyond this operator's control	Unexpected high line pressure due to 3rd party receiving increased volumes causing compressor station issue.
Steps taken to limit the duration and magnitude of vent or flare	Consistent communication with the midstream provider
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Consistent communication with the midstream provider to resolve high line pressure.

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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

☒	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
☒	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
☒	I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
☒	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
☒	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
twelem	If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	5/14/2024