



Certificate of Analysis

Number: 6030-21030313-003A

Artesia Laboratory

200 E Main St.
Artesia, NM 88210
Phone 575-746-3481Alex Batista
Taprock
602 Park Point Drive
Ste. 200
Golden, CO 80401

Mar. 29, 2021

Station Name: Zeus 106H
Station Number: 7060115
Sample Point: Meter Run
Formation: Quarterly
County: Lea
Type of Sample: Spot-Cylinder
Heat Trace Used: N/A
Sampling Method: Fill and Purge
Sampling Company: SPLSampled By: James Hill
Sample Of: Gas Spot
Sample Date: 03/26/2021 01:19
Sample Conditions: 104.1 psig, @ 74.9 °F Ambient: 74 °F
Effective Date: 03/26/2021 01:19
Method: GPA-2261M
Cylinder No: 5030-01966
Instrument: 6030_GC2 (Agilent GC-7890B)
Last Inst. Cal.: 12/21/2020 15:30 PM
Analyzed: 03/29/2021 14:43:46 by KNF

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.000	0.001	0.001		GPM TOTAL C2+ 4.250
Nitrogen	2.713	2.725	3.297		GPM TOTAL C3+ 2.063
Methane	70.983	71.289	49.398		GPM TOTAL iC5+ 0.450
Carbon Dioxide	11.070	11.118	21.134		
Ethane	8.115	8.150	10.585	2.187	
Propane	3.929	3.946	7.516	1.091	
Iso-butane	0.482	0.484	1.215	0.159	
n-Butane	1.142	1.147	2.879	0.363	
Iso-pentane	0.338	0.339	1.056	0.124	
n-Pentane	0.335	0.336	1.047	0.122	
Hexanes Plus	0.463	0.465	1.872	0.204	
	99.570	100.000	100.000	4.250	

Calculated Physical Properties

Relative Density Real Gas	0.8019	C6+ 3.2176
Calculated Molecular Weight	23.15	93.19
Compressibility Factor	0.9965	

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.73 psia & 60°F

Real Gas Dry BTU	1074	5141
Water Sat. Gas Base BTU	1056	5052
Ideal, Gross HV - Dry at 14.73 psia	1070.1	5141.1
Ideal, Gross HV - Wet	1051.4	5051.6
Net BTU Wet Gas - real gas	957	

Comments: H2S Field Content 5 ppm
mcf/day 1681.9

Hydrocarbon Laboratory Manager

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

Flaring Summary

(Column Names) » date

Data table:
flare_report_data (2)
Colors:
All values

battery	Sum(TOTAL F...
	5/25/2021
Zeus Tank Battery	471.70
Grand total	471.70

battery

Sum(TOTAL FLARE (HP + LP))

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 29697

QUESTIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043 Action Number: 29697 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	No
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.
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 <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	Zeus Facility
Facility Type	Tank Battery - (TB)

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 <i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	71
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	11
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	05/25/2021
Time venting or flaring was discovered or commenced	08:00 AM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	05/25/2021
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	12

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Normal Operations Flow Line - Production Natural Gas Flared Spilled: 427 Mcf Recovered: 0 Mcf Lost: 427 Mcf
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	VRU malfunction so the flare was on intermittently throughout the day. Crew was on location that day and corrected problem.
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	Not answered.
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	
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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	No one planned for the VRU to go down, but once noticed a crew was called to get it fixed right away.
Steps taken to limit the duration and magnitude of venting or flaring	No Steps needed. Problem corrected
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	No Steps Needed. Problem corrected

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CONDITIONS

Action 29697

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Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 29697
	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.	6/9/2021