



Certificate of Analysis

Number: 6030-21060172-003A

Artesia Laboratory

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

June 17, 2021

Station Name: Cosmo 213H Check
Station Number: 7060074
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: 06/16/2021 10:38
Sample Conditions: 89.7 psig, @ 84.8 °F Ambient: 84 °F
Effective Date: 06/16/2021 10:38
Method: GPA-2261M
Cylinder No: 5030-03742
Instrument: 6030_GC6 (Inficon GC-3000 Micro)
Last Inst. Cal.: 06/07/2021 0:00 AM
Analyzed: 06/17/2021 14:25:21 by KNF

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.010	0.015		GPM TOTAL C2+	6.572
Nitrogen	1.426	1.418	1.744		GPM TOTAL C3+	3.226
Methane	72.339	71.940	50.654		GPM TOTAL iC5+	0.516
Carbon Dioxide	3.495	3.476	6.715			
Ethane	12.535	12.466	16.453	3.346		
Propane	6.749	6.712	12.991	1.856		
Iso-butane	0.798	0.794	2.026	0.261		
n-Butane	1.883	1.873	4.778	0.593		
Iso-pentane	0.414	0.412	1.305	0.151		
n-Pentane	0.390	0.388	1.229	0.141		
Hexanes Plus	0.514	0.511	2.090	0.224		
	100.543	100.000	100.000	6.572		

Calculated Physical Properties

Relative Density Real Gas	Total	C6+
	0.7895	3.2176
Calculated Molecular Weight	22.78	93.19
Compressibility Factor	0.9960	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1269	5141
Water Sat. Gas Base BTU	1248	5052
Ideal, Gross HV - Dry at 14.73 psia	1264.2	5141.1
Ideal, Gross HV - Wet	1242.2	5051.6
Net BTU Wet Gas - real gas	1133	

Comments: H₂S Field Content 100 ppm
Mcf/day 849.8

Data reviewed by: Eric Ramirez, Analyst

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

Flaring Summary

battery	6/28/2021
Cosmo K Battery	200.00
Grand total	200.00

date

Data table:
flare_report_data (2)
Colors:
All values

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 35109

QUESTIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043 Action Number: 35109 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	Cosmo CTB
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

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

Methane (CH4) percentage	72
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	3
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	06/27/2021
Time venting or flaring was discovered or commenced	06:00 AM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	06/27/2021
Time venting or flaring was terminated	06:00 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	12
Longest duration of cumulative hours within any 24-hour period during this event	4

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance Other (Specify) Natural Gas Flared Spilled: 200 Mcf Recovered: 0 Mcf Lost: 200 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	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	Per Lucid Energy Group: We have units down at the Vandelay Station, personnel are on site getting the units back online so we should see relief soon. I do not have a reason yet for the units going down, but as soon as I have that information I will pass it along.
Steps taken to limit the duration and magnitude of venting or flaring	Personnel are on site getting the units back online.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	If the problem carries on for an extended period, Tap Rock will seek alternative methods or shut in the well until full gas capture can be made.

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CONDITIONS

Action 35109

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Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 35109
	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.	7/6/2021