



Certificate of Analysis

Number: 6030-22020386-001A

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. 01, 2022

Station Name: Black Marlin CTB Sales Sour
Station Number: 14801
Sample Point: Meter run
Formation: Spot
County: Lea
Type of Sample: Spot-Cylinder
Heat Trace Used: N/A
Sampling Method: Fill and Purge
Sampling Company: SPLSampled By: Gerardo Rodriguez
Sample Of: Gas Spot
Sample Date: 02/24/2022 10:30
Sample Conditions: 74.3 psig, @ 67.9 °F Ambient: 20 °F
Effective Date: 02/24/2022 10:30
Method: GPA 2286
Cylinder No: 5030-01102
Instrument: 6030_GC2 (Agilent GC-7890B)
Last Inst. Cal.: 03/01/2022 8:20 AM
Analyzed: 03/01/2022 09:20:24 by KNF

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.800	1.170		GPM TOTAL C2+	6.614
Nitrogen	1.199	1.195	1.436		GPM TOTAL C3+	3.884
Methane	73.694	73.427	50.532		GPM TOTAL iC5+	1.062
Carbon Dioxide	2.015	2.008	3.791			
Ethane	10.204	10.167	13.115	2.730		
Propane	6.020	5.998	11.346	1.659		
Iso-butane	1.173	1.169	2.915	0.384		
n-Butane	2.469	2.460	6.134	0.779		
Iso-pentane	0.865	0.862	2.668	0.317		
n-Pentane	0.739	0.736	2.278	0.268		
Hexanes Plus	1.182	1.178	4.615	0.477		
	99.560	100.000	100.000	6.614		

Calculated Physical Properties

Relative Density Real Gas	Total	C6+
	0.8079	3.1414
Calculated Molecular Weight	23.31	90.98
Compressibility Factor	0.9957	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1326	4916
Water Sat. Gas Base BTU	1303	4830
Ideal, Gross HV - Dry at 14.73 psia	1320.6	4915.9
Ideal, Gross HV - Wet	1297.6	0.000
Net BTU Wet Gas - real gas	1185	

Comments: H₂S Field Content 0.8 %
Mcf/day 4818.8

Hydrocarbon Laboratory Manager

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



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Method: GPA 2286
Cylinder No: 5030-01102
Analyzed: 03/01/2022 11:02:19 by KNF
Sampling Company: SPL

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia
Hydrogen Sulfide	0.800	1.170	
Nitrogen	1.195	1.436	
Methane	73.427	50.532	
Carbon Dioxide	2.008	3.791	
Ethane	10.167	13.115	2.730
Propane	5.998	11.346	1.659
Iso-Butane	1.169	2.915	0.384
n-Butane	2.460	6.134	0.779
Iso-Pentane	0.862	2.668	0.317
n-Pentane	0.736	2.278	0.268
i-Hexanes	0.381	1.381	0.153
n-Hexane	0.194	0.704	0.079
Benzene	0.051	0.169	0.014
Cyclohexane	0.095	0.341	0.032
i-Heptanes	0.220	0.873	0.089
n-Heptane	0.045	0.193	0.021
Toluene	0.040	0.156	0.013
i-Octanes	0.106	0.489	0.048
n-Octane	0.008	0.039	0.004
Ethylbenzene	0.002	0.012	0.001
Xylenes	0.007	0.033	0.003
i-Nonanes	0.011	0.067	0.006
n-Nonane	0.001	0.008	0.001
Decanes Plus	0.017	0.150	0.013
	100.000	100.000	6.614



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Sample Conditions: 74.3 psig, @ 67.9 °F
Method: GPA 2286
Cylinder No: 5030-01102
Analyzed: 03/01/2022 11:02:19 by KNF
Sampling Company: SPL

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	23.31	185.24
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1326.4	10096.1
Water Sat. Gas Base BTU	1303.3	9877.3
Relative Density Real Gas	0.8079	6.3957
Compressibility Factor	0.9957	
Ideal, Gross HV - Wet	1297.6	
Ideal, Gross HV - Dry at 14.73 psia	1320.6	
Net BTU Dry Gas - real gas	1206	
Net BTU Wet Gas - real gas	1185	

Comments: H2S Field Content 0.8 %
Mcf/day 4818.8

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

Battery	Date	Total Flare Vol (mcf)	Hrs Flared	Start		End	

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

DEFINITIONS

Action 237468

DEFINITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 237468
	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 237468

QUESTIONS

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	Action Number: 237468
	Action Type: [C-129] Venting and/or Flaring (C-129)

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	[fAPP2126030240] Black Marlin CTB

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	Yes
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a vent or flare event	Yes, minor 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	73
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	8,000
Carbon Dioxide (CO2) percentage, if greater than one percent	2
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.

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QUESTIONS, Page 2

Action 237468

QUESTIONS (continued)

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	Action Number: 237468
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	06/25/2023
Time vent or flare was discovered or commenced	12:01 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	1

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Equipment Failure Tank (Any) Natural Gas Flared Released: 90 Mcf Recovered: 0 Mcf Lost: 90 Mcf.
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	The location experienced a malfunction that was not anticipated and the flaring can be attributed to the downtime of the equipment/VRU
Steps taken to limit the duration and magnitude of vent or flare	Standard PM. Worked with vendor to coordinate service time and minimize downtime.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Standard PM. No way to avoid periodic downtime for maintenance/repairs to address unforeseen issues.

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ACKNOWLEDGMENTS

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	Action Number: 237468
	Action Type: [C-129] Venting and/or Flaring (C-129)

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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	Action Number: 237468
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
mlaruecdh	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.	7/7/2023