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

Certificate of Analysis

Number: 6030-22020150-003A

Feb. 10, 2022

Station Name:	Vindicator Canyon State CTB VRU	Sampled By:	Donavan Miller
Station Location:	Manzano	Sample Of:	Gas Spot
Sample Point:	Meter Run	Sample Date:	02/09/2022 12:30
Instrument:	6030_GC6 (Inficon GC-3000 Micro)	Sample Conditions:	75.4 psig Ambient: 63 °F
Last Inst. Cal.:	02/07/2022 0:00 AM	Effective Date:	02/09/2022 12:30
Analyzed:	02/10/2022 07:24:29 by ERG	Method:	GPA-2261M
		Cylinder No:	5030-02762

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia		
Hydrogen Sulfide	0.000	0.00000	0.000		GPM TOTAL C2+	25.084
Nitrogen	0.098	0.09736	0.068		GPM TOTAL C3+	17.500
Methane	13.164	13.02476	5.206		GPM TOTAL iC5+	1.666
Carbon Dioxide	0.223	0.22093	0.242			
Ethane	28.313	28.01329	20.987	7.584		
Propane	38.329	37.92310	41.666	10.577		
Iso-butane	4.370	4.32361	6.261	1.432		
n-Butane	12.112	11.98370	17.354	3.825		
Iso-pentane	1.956	1.93558	3.479	0.717		
n-Pentane	1.959	1.93815	3.484	0.711		
Hexanes Plus	0.545	0.53952	1.253	0.238		
	101.069	100.00000	100.000	25.084		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	1.4060	3.2176
Calculated Molecular Weight	40.14	93.19
Compressibility Factor	0.9853	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	2330	5129
Water Sat. Gas Base BTU	2291	5040
Ideal, Gross HV - Dry at 14.696 psia	2295.8	5129.2
Ideal, Gross HV - Wet	2255.8	5039.7

Comments: H2S Field Content 0 ppm

Hydrocarbon Laboratory Manager

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

Operator: Manzano, LLC [231429]
Facility: Vindicator Canyon State Unit Battery [fAPP2123059687]

Date	Time Start	Time Terminated	Total Hours	Metered Volume (Mcf)
8/4/2022	12:00 AM	11:59 PM	24	1,661

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Operator: MANZANO LLC P.O. Box 1737 Roswell, NM 88202	OGRID: 231429
	Action Number: 131903
	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 131903

QUESTIONS

Operator: MANZANO LLC P.O. Box 1737 Roswell, NM 88202	OGRID: 231429
	Action Number: 131903
	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	*Not answered.*
Incident Facility	**[fAPP2123059687] VINDICATOR CANYON STATE UNIT BATTERY**

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional 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	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	Other (Specify)
Additional details for Equipment Involved. Please specify	Midstream emergency maintenance.

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	13
Nitrogen (N2) percentage, if greater than one percent	0
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	0
Oxygen (02) 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 (02) percentage quality requirement	*Not answered.*

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QUESTIONS (continued)

Operator:	OGRID:
MANZANO LLC P.O. Box 1737 Roswell, NM 88202	231429
	Action Number: 131903
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	08/04/2022
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	24

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Midstream Emergency Maintenance | Other (Specify) | Natural Gas Vented | Released: 0 Mcf | Recovered: 0 Mcf | Lost: 0 Mcf]
Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance | Other (Specify) | Natural Gas Flared | Released: 1,661 Mcf | Recovered: 0 Mcf | Lost: 1,661 Mcf]
Other Released Details	*Not answered.*
Additional details for Measured or Estimated Volume(s). Please specify	Downstream emergency maintenance.
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	Yes
Was notification of downstream activity received by this operator	Yes
Downstream OGRID that should have notified this operator	[36785] DCP OPERATING COMPANY, LP
Date notified of downstream activity requiring this vent or flare	07/28/2022
Time notified of downstream activity requiring this vent or flare	08:01 AM

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	Downstream interruption.
Steps taken to limit the duration and magnitude of vent or flare	Injected as much gas as possible back into unit wells.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	N/A, downstream emergency maintenance.

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ACKNOWLEDGMENTS

Operator: MANZANO LLC P.O. Box 1737 Roswell, NM 88202	OGRID: 231429
	Action Number: 131903
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit a *Venting and/or Flaring* (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

Action 131903

CONDITIONS

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MANZANO LLC P.O. Box 1737 Roswell, NM 88202	231429
	Action Number: 131903
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CONDITIONS

Created By	Condition	Condition Date
mghanagan	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.	8/6/2022