



Certificate of Analysis

Number: 6030-22030263-001A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

Mar. 16, 2022

Station Name: War Dog State 1H
 Station Number: ART80205
 Station Location: MR NM Operating
 Sample Point: Meter Run
 Instrument: 6030_GC2 (Agilent GC-7890B)
 Last Inst. Cal.: 03/15/2022 8:28 AM
 Analyzed: 03/16/2022 06:59:19 by ERG

Sampled By: Derek Sauder
 Sample Of: Gas Spot
 Sample Date: 02/23/2022 02:34
 Sample Conditions: 44.2 psig, @ 62.9 °F Ambient: 55 °F
 Effective Date: 02/23/2022 02:34
 Method: GPA-2261M
 Cylinder No: 5030-01087

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia		
Nitrogen	2.363	2.40352	2.885		GPM TOTAL C2+	8.020
Methane	68.218	69.38789	47.691		GPM TOTAL C3+	4.091
Carbon Dioxide	0.045	0.04577	0.086		GPM TOTAL iC5+	0.728
Ethane	14.418	14.66526	18.893	3.929		
Propane	8.158	8.29790	15.676	2.290		
Iso-butane	0.978	0.99477	2.477	0.326		
n-Butane	2.326	2.36589	5.891	0.747		
Iso-pentane	0.504	0.51264	1.585	0.188		
n-Pentane	0.523	0.53197	1.644	0.193		
Hexanes Plus	0.781	0.79439	3.172	0.347		
	98.314	100.00000	100.000	8.020		

Calculated Physical Properties

Relative Density Real Gas	Total	C6+
	0.8092	3.2176
Calculated Molecular Weight	23.34	93.19
Compressibility Factor	0.9956	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1367	5129
Water Sat. Gas Base BTU	1344	5040
Ideal, Gross HV - Dry at 14.696 psia	1361.2	5129.2
Ideal, Gross HV - Wet	1337.5	5039.7

Comments: Mcf/day 647.60

Hydrocarbon Laboratory Manager

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

Battery:		Compressor	Gas Sold	Check	Flare
War Dog State #1H					
3/3/2022		414	41	778	323

Flare Vol Calculation 778-41-414=323 MCF

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
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DEFINITIONS

Action 90355

DEFINITIONS

Operator: MR NM Operating LLC 5950 Berkshire Lane Dallas, TX 75225	OGRID: 330506
	Action Number: 90355
	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 90355

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QUESTIONS

Prerequisites	
<i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Well	[30-015-45663] WAR DOG STATE #001H
Incident Facility	Not answered.

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 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, minor venting and/or flaring of natural gas.
<i>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.</i>	
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	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	69
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	0
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
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 90355

QUESTIONS (continued)

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

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	03/03/2022
Time vent or flare was discovered or commenced	02:00 PM
Time vent or flare was terminated	11:30 PM
Cumulative hours during this event	17

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 Producing Well Natural Gas Flared Released: 438 Mcf Recovered: 0 Mcf Lost: 438 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	DCP shut gas takeaway off for Durango due to operational issues at the DCP gas plant
Steps taken to limit the duration and magnitude of vent or flare	MR NM increased back pressure on the well while still producing
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	MR NM will maintain good communication with Durango to be notified of any expected or unexpected events causing disruptions in their ability to take gas.

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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
josh_mrnrm	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.	3/16/2022