

# Certificate of Analysis

Number: 6030-21120310-001A

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

Murchison Murchison

5325 Sierra Vista Dr Carlsbad, NM 88220

Station Name: Rock Ridge Fed WCB 9H

Station Number: 6200026 Station Location: Murchison

Sample Point: Meter Run

70142339 (Inficon GC-MicroFusion) Instrument:

Last Inst. Cal.: 01/03/2022 0:00 AM

01/03/2022 09:31:55 by ERG Analyzed:

Sampled By: Michael Mirabal Sample Of: Gas Spot Sample Date: 12/29/2021 11:44

Sample Conditions: 165 psig, @ 106 °F Ambient: 64 °F

Jan. 03, 2022

Effective Date: 12/29/2021 11:44 Method: GPA-2261M Cylinder No: 5030-00052

**Analytical Data** 

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia		
Hydrogen Sulfide	0.000	0.00000	0.000		GPM TOTAL C2+	6.084
Nitrogen	0.716	0.71840	0.933		GPM TOTAL C3+	3.005
Methane	77.737	77.99752	58.010		GPM TOTAL iC5+	0.752
Carbon Dioxide	0.144	0.14398	0.294			
Ethane	11.460	11.49865	16.029	3.079		
Propane	5.098	5.11521	10.457	1.411		
Iso-butane	0.845	0.84824	2.286	0.278		
n-Butane	1.781	1.78698	4.815	0.564		
Iso-pentane	0.482	0.48372	1.618	0.177		
n-Pentane	0.534	0.53569	1.792	0.194		
Hexanes Plus	0.869	0.87161	3.766	0.381		
	99.666	100.00000	100.000	6.084		
Calculated Physical P	roperties	Total		C6+		
Relative Density Real G	- Gas	0.7473		3.2176		
Calculated Molecular W		21.57		93.19		
Compressibility Factor	· ·	0.9961				
<b>GPA 2172 Calculation</b>	:					
<b>Calculated Gross BTU</b>	J per ft <sup>3</sup> @ 14.696 ¡	osia & 60°F				
Real Gas Dry BTU	•	1296		5129		
Water Sat. Gas Base B	TU	1274		5040		
Ideal, Gross HV - Dry a	t 14.696 psia	1291.4		5129.2		
Ideal, Gross HV - Wet	•	1268.9		5039.7		
Comments: H2S Field	d Content 0 ppm					

Mcf/day 3292

Hydrocarbon Laboratory Manager

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

Quality Assurance:

Rock Ridge CTB Facility ID: fAPP2132130580 32.19175 -104.01648, H-30-24S-29E, Eddy County

### **Flare Meter Volumes**

Flared Line

Date MCF Pressure Cause

1/20/2022 567 92 SCM Compressor Failure

Total 567

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

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 90454

#### **DEFINITIONS**

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	90454
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

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

QUESTIONS

Action 90454

#### QUESTIONS

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Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	90454
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)
QUESTIONS	
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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 Operator	[15363] Murchison Oil and Gas, LLC	
Incident Type	Flare	
Incident Status	Closure Not Approved	
Incident Well	Not answered.	
Incident Facility	[fAPP2132130580] Rock Ridge Fed CTB	
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.		

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	No		
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 <b>ANY</b> 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	No		

Equipment Involved		
Primary Equipment Involved	Not answered.	
Additional details for Equipment Involved. Please specify	Not answered.	

Please provide the mole percent for the percentage questions in this group.		
Methane (CH4) percentage	78	
Nitrogen (N2) percentage, if greater than one percent	1	
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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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

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QUESTIONS, Page 2

Action 90454

### **QUESTIONS** (continued)

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Murchison Oil and Gas, LLC	15363	
7250 Dallas Parkway	Action Number:	
Plano, TX 75024	90454	
	Action Type:	
	[C-129] Amend Venting and/or Flaring (C-129A)	

#### QUESTIONS

Date(s) and Time(s)		
Date vent or flare was discovered or commenced	01/20/2022	
Time vent or flare was discovered or commenced	12:00 PM	
Time vent or flare was terminated	06:00 PM	
Cumulative hours during this event	6	

leasured or Estimated Volume of Vented or Flared Natural Gas			
Natural Gas Vented (Mcf) Details	Not answered.		
Natural Gas Flared (Mcf) Details	Cause: High Line Pressure   Producing Well   Natural Gas Flared   Released: 567 Mcf   Recovered: 0 Mcf   Lost: 567 Mcf ]		
Other Released Details	Cause:     Other (Specify)   Released: 0 (Unknown Released Amount)   Recovered: 0   Lost: 0		
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	Yes	
Was notification of downstream activity received by this operator	No	
Downstream OGRID that should have notified this operator	[373554] Salt Creek Midstream, LLC	
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	Compressor failure at gas plant.	
Steps taken to limit the duration and magnitude of vent or flare	Wells were choked back to reduce production.	
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Corrective action not in our control and reliant on outside sources.	

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#### ACKNOWLEDGMENTS

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#### **ACKNOWLEDGMENTS**

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#### **ACKNOWLEDGMENTS**

V	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
V	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
▽	I hereby certify the statements in this amending 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

Crea	ited By	Condition	Condition Date
ccc	ottrell	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	3/15/2022