



Certificate of Analysis

Number: 6030-21100300-001A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

Murchison
Murchison
5325 Sierra Vista Dr
Carlsbad, NM 88220

Nov. 02, 2021

Station Name: Jawbone St Com 1H LG

Station Number: 6200006

Station Location: Murchison

Sample Point: Meter Run

Instrument: 6030_GC6 (Inficon GC-3000 Micro)

Last Inst. Cal.: 10/25/2021 0:00 AM

Analyzed: 11/02/2021 05:07:11 by EJH

Sampled By: RM

Sample Of: Gas Spot

Sample Date: 10/28/2021 11:30

Sample Conditions: 497.3 psig, @ 95.7 °F

Effective Date: 10/28/2021 11:30

Method: GPA-2261M

Cylinder No: 5030-03050

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.000	0.00000	0.000		GPM TOTAL C2+ 5.209
Nitrogen	1.254	1.27408	1.724		GPM TOTAL C3+ 2.325
Methane	78.409	79.67748	61.743		GPM TOTAL iC5+ 0.434
Carbon Dioxide	0.608	0.61794	1.314		
Ethane	10.601	10.77280	15.647	2.884	
Propane	4.578	4.65216	9.909	1.283	
Iso-butane	0.536	0.54467	1.529	0.178	
n-Butane	1.340	1.36168	3.823	0.430	
Iso-pentane	0.277	0.28168	0.982	0.103	
n-Pentane	0.340	0.34499	1.202	0.125	
Hexanes Plus	0.465	0.47252	2.127	0.206	
	98.408	100.00000	100.000	5.209	

Calculated Physical Properties

Relative Density Real Gas

Total

0.7170

C6+

3.2176

Calculated Molecular Weight

20.70

93.19

Compressibility Factor

0.9966

GPA 2172 Calculation:

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

Real Gas Dry BTU

1228

5129

Water Sat. Gas Base BTU

1207

5040

Ideal, Gross HV - Dry at 14.696 psia

1223.9

5129.2

Ideal, Gross HV - Wet

1202.6

5039.7

Comments: H2S Field Content 0 ppm

Data reviewed by: Krystle Fitzwater, Laboratory Manager

Quality Assurance:

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

**Jawbone CTB
B-2-25S-26E, Eddy County**

Flare Meter Volume

Date	Flared MCF	Line Pressure	Flare Hours
11/14/2021	326	144	6.31
11/15/2021	525	56	10.15
11/16/2021	413	116	7.99
Total	1264		24.45

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 62155

QUESTIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 62155
	Action Type: [C-129] Venting and/or Flaring (C-129)

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	Not answered.
Incident Facility	[fAPP2132129950] Jawbone Fed Com CTB

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 or is this venting and/or flaring caused by an emergency or malfunction	Yes
Did or will this venting and/or flaring last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a venting and/or flaring event	Yes, major 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 or will there be at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this venting and/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
Was the venting and/or flaring 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	78
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	1
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.

Date(s) and Time(s)	
Date venting and/or flaring was discovered or commenced	11/14/2021
Time venting and/or flaring was discovered or commenced	03:30 PM
Time venting and/or flaring was terminated	10:00 PM
Cumulative hours during this event	24

Measured 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 Gas Plant Natural Gas Flared Released: 1,264 Mcf Recovered: 0 Mcf Lost: 1,264 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 or is this venting and/or flaring a result of downstream activity	Yes
Was notification of downstream activity received by you or your operator	No
Downstream OGRID that should have notified you or your operator	[371960] LUCID ENERGY DELAWARE, LLC
Date notified of downstream activity requiring this venting and/or flaring	Not answered.
Time notified of downstream activity requiring this venting and/or flaring	Not answered.

Steps and Actions to Prevent Waste

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	Caused by unforeseen & unavoidable disruption at gas plant
Steps taken to limit the duration and magnitude of venting and/or flaring	adjusted compression
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	Corrective actions not in our control.

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

CONDITIONS

Action 62155

CONDITIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 62155
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
ccottrell	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.	11/17/2021