



Certificate of Analysis

Number: 5030-21050674-003A

Midland Laboratory

2200 East I-20

Midland, TX 79706

Phone 432-689-7252

JIMMY POOLE
SALT CREEK MIDSTREAM
1369 I-20
PECOS, TX 79772

June 02, 2021

Station Name: MURCHINSON CDP #1
Station Number: 2.16.1
Sample Point: Meter Run
Cylinder No: 5030-03325
Analyzed: 06/01/2021 18:02:25 by DMA

Sampled By: BRANDON ABSHIRE
Sample Of: Gas Composite
Sample Date: 05/27/2021 07:45
Sample Conditions: 125 psig, @ 82 °F
PO/Ref. No: WO 20.07000.W3197
Method: GPA-2261

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.65 psia		
Nitrogen	1.232	1.621		GPM TOTAL C2+	5.923
Carbon Dioxide	0.326	0.674		GPM TOTAL C3+	2.761
Methane	77.450	58.354		GPM TOTAL iC5+	0.485
Ethane	11.848	16.732	3.162		
Propane	5.515	11.422	1.516		
Iso-butane	0.724	1.976	0.236		
n-Butane	1.666	4.548	0.524		
Iso-pentane	0.369	1.250	0.135		
n-Pentane	0.390	1.322	0.141		
Hexanes Plus	0.480	2.101	0.209		
	100.000	100.000	5.923		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7376	3.2176
Calculated Molecular Weight	21.29	93.19
Compressibility Factor	0.9963	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.65 psia & 60°F		
Real Gas Dry BTU	1264	5113
Water Sat. Gas Base BTU	1243	5024

Report generated by: Marco Barrientos

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

Rock Ridge CTB**32.19175 -104.01648, H-30-24S-29E, Eddy County****Flare Meter Volumes**

Date	Flared MCF	Line Pressure	Flow Hours	Cause
7/21/2021	490	13	4.0	Overnight flaring - SCM down
7/20/2021	20	13	0.1	
7/19/2021	666	13	4.5	Overnight flaring - SCM down
Total	1176		8.6	

Estimated Hours Flared

Date	Gas Prod	Hours	MCF/ HR
7/21/2021	2933	24	122
7/20/2021	4432	24	185
7/19/2021	3565	24	149

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 38019

QUESTIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 38019
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS**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 or is this venting or flaring caused by an emergency or malfunction	Yes
Did or will this venting or flaring last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a notification of a major venting or flaring	Yes, major venting or flaring of natural gas.
The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during venting or flaring that is or may be a major or minor release under 19.13.29 NMAC.	
Was there or will there be at least 50 MCF of natural gas vented or flared during this event	Yes
Did this venting 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

Unregistered Facility Site

Please provide the facility details, if the venting or flaring occurred or is occurring at a facility that does not have an Facility ID (##) yet.

Facility or Site Name	Rock Ridge CTB
Facility Type	Tank Battery - (TB)

Equipment Involved

Primary Equipment Involved	Gas Plant
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	77
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	0
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.

Date(s) and Time(s)

Date venting or flaring was discovered or commenced	07/19/2021
Time venting or flaring was discovered or commenced	02:00 AM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	07/22/2021
Time venting or flaring was terminated	05:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	9
Longest duration of cumulative hours within any 24-hour period during this event	5

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 Spilled: 1,176 Mcf Recovered: 0 Mcf Lost: 1,176 Mcf]
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Volume measured by gas flare meter.
Is this a gas only submission (i.e. only 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 or flaring a result of downstream activity	Yes
Date notified of downstream activity requiring this venting or flaring	Not answered.
Time notified of downstream activity requiring this venting 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	Malfunction at midstream gatherer's plant resulting in high line pressure.
Steps taken to limit the duration and magnitude of venting or flaring	Corrective action not in our control.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Monitor and adjust compression.

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
system	If the information provided in this report requires an amendment, submit a [C-129] Request to Amend Venting and/or Flaring Incident, utilizing your incident number from this event.	7/29/2021