



OLA
3302 Pilot Ave.
Midland, Texas 79706
432-789-1860

Report Date: 1/4/2023

C6 Plus Gas Analysis Report

OLA Customer:	Centennial Resource Production LLC	Purpose:	Routine
Operator:	Centennial Resources	Account Rep:	Travis Donnelly
Well Name:	Misty-Ivoree federal battery	Sample ID:	01221230075
Meter Number:	SEPARATOR	Sample Date:	12/29/2022
County:	Delaware Basin	Received Date:	12/30/2022
Primo #:	Not Provided	Log Out Date:	1/4/2023
Sample Type:	Gas		

Centennial Resource Production LLC, Centennial Resources, Misty-Ivoree federal battery,SEPARATOR

GC C6 Plus Gas Sample Results					
Components	Mole %	Weight %	Liq. Vol. %	Sample GPM Characteristics	Results
Carbon Dioxide	0.1235	0.2573	0.1099	Ethane GPM	3.2883
Nitrogen	1.8907	2.5062	1.0846	Propane GPM	1.5675
Methane	76.89900	58.37	67.98	Isobutane GPM	0.2160
Ethane	12.28350	17.48	17.13	NButane GPM	0.4898
Propane	5.6838	11.86	8.1652	Isopentane GPM	0.1081
iso-Butane	0.6593	1.8132	1.1249	NPentane GPM	0.0975
n-Butane	1.5521	4.2686	2.5515	NHexane GPM	0.1505
iso-Pentane	0.2954	1.0084	0.5633	NHeptane GPM	ND
n-Pentane	0.2688	0.9177	0.5081	Gasoline GPM (Pentane and Heavier)	ND
C6 Plus	0.3440	1.5169	0.7841		
Totals	100	100	100	Total GPM (Ethane Inclusive)	5.9177
Sample Characteristics		Results	Sample Characteristics		Results
Sample Temperature (F):		75.00	Heating Value Basis		Dry
Sample Pressure (psi):		103.00	Heating Value Vol Dry		1249.38
			Heating Value Vol Wet		1227.58
Specific Gravity @ 60/60 F, calculated		0.7297			
Calculated BTU / Real CF @ 14.73 PSIA, dry basis		1256.75			
Calculated BTU / Real CF @ 14.73 PSIA, wet basis		1234.67	H2S ppm		0.2000
Average Molecular Weight		21.13			
Molar Mass Ratio		0.7292	VOC Weight Fraction		0.2138
Relative Density (G x Z (Air) / Z), calculated		0.7323	Higher Heating Value (BTU/ft3)		1249.38
Ideal Gross Heating Value, BTU / Ideal CF @ 14.696 PSIA		1249.38	Lower Heating Value (BTU/ft3)		1133.52
Compressibility Factor (Z)		0.9964			

Volumes associated with this C-129 filing are estimations and may be subject to change as data is reconciled. The operator's current practice consists of metering volumes and report in accordance with NMAC 19.15.27.

For inquiries regarding this filing, please contact the operator.

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District IV
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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

Action 348874

DEFINITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 348874
	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 348874

QUESTIONS

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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	Unavailable.
Incident Facility	[fAPP2216672586] MISTY-IVORE FEDERAL BATTERY

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 this vent or flare caused by an emergency or malfunction	No
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.
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	Not answered.
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	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) 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 Sufide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (C02) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

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QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	05/15/2024
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	Not answered.
Natural Gas Flared (Mcf) Details	Cause: High Line Pressure Pipeline (Any) Natural Gas Flared Released: 103 Mcf Recovered: 0 Mcf Lost: 103 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	High Line Pressure
Steps taken to limit the duration and magnitude of vent or flare	Open valves to divert gas to a second midstream company to relive pressure off the line
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Clear consistent communication with midstream provider

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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
cmevans	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.	5/29/2024