



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:	Fecta 33 federal battery-Sales line	Sample ID:	01221230074
Meter Number:	Sales Line	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, Fecta 33 federal battery-Sales line,Sales Line

GC C6 Plus Gas Sample Results					
Components	Mole %	Weight %	Liq. Vol. %	Sample GPM Characteristics	Results
Carbon Dioxide	0.2781	0.5700	0.2461	Ethane GPM	3.3310
Nitrogen	1.9871	2.5927	1.1339	Propane GPM	1.6323
Methane	75.85420	56.68	66.70	Isobutane GPM	0.2276
Ethane	12.44140	17.42	17.26	NButane GPM	0.5413
Propane	5.9182	12.15	8.4568	Isopentane GPM	0.1415
iso-Butane	0.6949	1.8811	1.1794	NPentane GPM	0.1438
n-Butane	1.7151	4.6429	2.8045	NHexane GPM	0.1437
iso-Pentane	0.3866	1.2991	0.7333	NHeptane GPM	ND
n-Pentane	0.3962	1.3313	0.7448	Gasoline GPM (Pentane and Heavier)	ND
C6 Plus	0.3283	1.4251	0.7444		
Totals	100	100.00	100.00	Total GPM (Ethane Inclusive)	6.1612
Sample Characteristics		Results	Sample Characteristics		Results
Sample Temperature (F):		47.00	Heating Value Basis		Dry
Sample Pressure (psi):		53.00	Heating Value Vol Dry		1261.95
			Heating Value Vol Wet		1239.93
Specific Gravity @ 60/60 F, calculated		0.7413			
Calculated BTU / Real CF @ 14.73 PSIA, dry basis		1269.53			
Calculated BTU / Real CF @ 14.73 PSIA, wet basis		1247.23	H2S ppm		300.00
Average Molecular Weight		21.47			
Molar Mass Ratio		0.7409	VOC Weight Fraction		0.2273
Relative Density (G x Z (Air) / Z), calculated		0.7440	Higher Heating Value (BTU/ft3)		1261.95
Ideal Gross Heating Value, BTU / Ideal CF @ 14.696 PSIA		1261.95	Lower Heating Value (BTU/ft3)		1145.33
Compressibility Factor (Z)		0.9963			

Preliminary Production Data

<u>Well Name</u>	<u>Production Date</u>	<u>Gas Flare</u>
Fecta 33 Federal CTB	10/16/2022	572 mcf

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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 173903

DEFINITIONS

Operator: COLGATE OPERATING, LLC 300 North Marienfeld Street Midland, TX 79701	OGRID: 371449
	Action Number: 173903
	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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QUESTIONS

Action 173903

QUESTIONS

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	Action Number: 173903
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 Operator	[371449] COLGATE OPERATING, LLC
Incident Type	Flare
Incident Status	Closure Not Approved
Incident Well	Unavailable.
Incident Facility	[fAPP2216664343] FECTA 33 FEDERAL BATTERY
<i>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.</i>	

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	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, 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 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	76
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
<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 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

Action 173903

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	10/15/2022
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: 572 Mcf Recovered: 0 Mcf Lost: 572 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	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	
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	Gas Purchaser having compressor or plant issues
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 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.
☒	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

Created By	Condition	Condition Date
chasketteag	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.	1/9/2023