



Project Name: **Line Strike On 8" NG Line @ Red Hills**
 Project Description: **Blowdown Pipeline for repair**

PIPELINE BLOWDOWN EMISSIONS

Data Inputs:

Pipeline length: 0.6212121 miles
 Pipeline diameter: 8 inches
 Starting pressure: 1113 psig
 Starting temperature: 101 °F
 Blown to atmospheric pressure? Y (Y/N)
 If N, Ending pressure: psig
 Ending temperature: 101 °F
 Controlled by combustion? N (Y/N)

Pipeline length: 3,280 feet
 Pipeline diameter: 0.67 feet
 Pipeline volume: 1,145 ft³
 Starting pressure: 1128 psia
 Ending pressure: 15 psia

Emissions Summary

DESCRIPTION	AMOUNT	UNITS
Blowdown Gas Volume	81.41	MCF

REPORT RELEASE TO HSE

Emission Calculations

Volume of natural gas emitted:

$$E_s = 81,410 \text{ scf}$$

Calculate weight of natural gas emitted:

Gas composition used to calculate emissions is provided below.

$$M_s = E_s * \frac{1 \text{ lb-mol}}{379 \text{ scf}} * Mw$$

Where:

M = Total gas emissions in pounds

E_s = Natural gas venting emissions at standard conditions from blowdowns in cubic feet (calculated above).

Mw = Molecular weight of gas in pounds per pound-mol (lb/lb-mol)

$$M_s = 81410 * (1/379) * 17.95$$

$$= 3,856 \text{ lbs}$$

$$= 1.9 \text{ tons}$$

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DEFINITIONS

Action 163268

DEFINITIONS

Operator: MarkWest Energy West Texas Gas Company, L.L.C 1515 Arapahoe Street Denver, CO 80202	OGRID: 329252
	Action Number: 163268
	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: <ul style="list-style-type: none">• 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 163268

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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	[fAPP2125136221] Permian Natural Gas Gathering System

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	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, 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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved	
Primary Equipment Involved	Pipeline (Any)
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	72
Nitrogen (N2) percentage, if greater than one percent	0
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	4
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.

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Action 163268

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	11/18/2022
Time vent or flare was discovered or commenced	04:40 PM
Time vent or flare was terminated	07:40 PM
Cumulative hours during this event	3

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Repair and Maintenance Pipeline (Any) Natural Gas Vented Released: 81 Mcf Recovered: 0 Mcf Lost: 81 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
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	A contractor was excavating near the subject pipeline and struck the pipeline causing external damage. Due to the pipeline being under high pressure immediate action to eliminate all gas and pressure was necessary for pipeline safety.
Steps taken to limit the duration and magnitude of vent or flare	Operator minimized the venting to the subject pipeline section of damage.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Operator immediately stopped contractor excavation work. Construction crews were notified of excavation policies and all notifications required before work activity continued.

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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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
jobrien	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.	12/2/2022