Event Description: SCM to Sales Venting Episode

Event Date and Time: Start Date & Time End Date & Time

7/18/24 20:31 7/18/24 20:47

Release Duration Initial Pressure Final Pressure Temperature

Gas Loss Through a Hole		
0.267	hr	
1194	psig	
1194	psig	
115	deg F	

Total Release Volume 237,050.88 scf/event 237.05 mscf/event

	Molecular Weight	Vent 9	tream Emission	s Report		Threshold
Component	Wiolecular Weight	Mole %	scf/24-hr	lb/24-hr	lb/24-hr	Reportable?
	lb/lb-mole				10/24-111	Reportable:
Carbon Dioxide	44.010	1.1160	2645.49	306.89	-	-
Water	18.015	0.0000	0.00	0.00	-	-
Nitrogen	28.013	1.5890	3766.74	278.14	-	-
Hydrogen Sulfide	34.082	0.0017	4.03	0.36	100	No
Methane	16.040	77.9740	184838.06	7,814.86	-	-
Ethane	30.070	9.7970	23223.88	1,840.74	-	-
Propane	44.100	5.0380	11942.62	1,388.24	5,000	No
Isobutane	58.120	0.9120	2161.90	331.20	5,000	No
n-Butane	58.120	1.9210	4553.75	697.62	see above	No
Isopentane	72.150	0.5800	1374.90	261.48	5,000	No
n-Pentane	72.150	0.4440	1052.51	200.16	see above	No
n-Hexane	86.180	0.0000	0.00	0.00	5,000	No
Other Hexanes	86.180	0.6290	1491.05	338.71	see above	No
Heptane	100.200	0.0000	0.00	0.00	100	No
Octanes	114.230	0.0000	0.00	0.00	100	No
Benzene	78.110	0.0000	0.00	0.00	10	No
Toluene	92.140	0.0000	0.00	0.00	100	No
Ethylbenzene	106.170	0.0000	0.00	0.00	100	No
Xylenes	106.160	0.0000	0.00	0.00	100	No
	TOTAL	100.00	237,054.91	13,458.39	-	-
TOTAL VOC				3,217.40	5,000	No
TOTAL HAPs				0.00	-	-

Molar volume conversion @ 60 °F and 1 atm: 1 lb/mole =

379.4 scf

Valve leak emissions are based on valve size and gas pressure, using Engineering Calculation spreadsheet for gas loss through a hole.

Emissions for pipeline and vessel blowdowns are calculated using the equation in 40 CFR Part 98 Subpart W, Equation W-14A for blowdowns to atmospheric pressure.

Emissions are compared to the natural gas reportable quantity in 101.1(89)(B)(iv):

101.1(89)(B)(iv) where natural gas excluding carbon dioxide, water, nitrogen, methane, ethane, noble gases, hydrogen, and oxygen or air emissions from crude oil are known to be in an amount greater than or equal to 5,000 pounds or the associated hydrogen sulfide and mercaptans in a total amount greater than 100 pounds, whichever occurs first;

Gas Loss Through a Hole

Input Fields	
Calculated Fields	
Results Fields	

Leak Characteristics			
Type of Hole	Round I	Hole	
Initial Pressure ¹	1194	(psig)	
Gas Temperature ¹	115	(°F)	
Leak Time ¹	16	(minutes)	

Gas Specifications		
Gas Molecular Weight (MW)		
Natural Gas	21.59 (lb/lb-mol)	

¹ Based off information received from Operations in e-mail.

Type of Hole

Round Hole			
Diameter of Hole	1 (inches)		

Rip or Gouge				
Length		inches		
Width		inches		
Equivalent Diameter	0.00	inches		

Calculated Equation Variables				
Area of Hole (HA)	0.785398163	(in ²)		
Vessel/Pipe Pressure (Pt)	1208.7	(psia)		
Gas Temperature (T _t)	319.26	(K)		
¹ Gas Factor (GF)	15.87			
² Ratio of Specific Heats (γ)	1.27			

Results				
³ Gas Mass Leak Rate (QR)	842.96	(lb/min)		
⁴Gas Volume Leak Rate	14,815.68	(ft ³ /min)		
Total Leak Volume	237,050.88	(scf)		
Total Leak Mass	13,487.31	(lbs)		

Notes

Equation for gas loss through a hole comes from "Risk Management Program Guidance For Offsite Consequence Analysis", U.S. EPA $publication\ EPA-550-B-99-009,\ April\ 1999.\ \underline{Guidance\ for\ Offsite\ Consequence\ Analysis}.$

To derive the equation presented in the guidance, all the chemical-specific properties, constants, and appropriate conversion factors were combined into the "Gas Factor" (GF). The discharge coefficient was assumed to have a value of 0.8, based on the screening value recommended in EPA's Workbook of Screening Techniques for Assessing Impacts of Toxic Air Pollutants. The GF was derived as follows:

$$GF = 132.2 \times 6,895 \times 6.4516 \times 10^{-4} \times 0.8 \sqrt{\gamma \left(\frac{2}{\gamma + 1}\right)^{\frac{\gamma + 1}{\gamma - 1}}} \sqrt{\frac{MW}{8314}}$$
 (D-11)

where: 132.2 Conversion factor for lbs/min to kg/s 6,895

Conversion factor for psi to Pascals (p₀) Conversion factor for square inches to square meters (A_b) 6.4516 x 10⁻⁴

GF values were calculated for all gases regulated under CAA section 112(r) and are listed in Appendix B, Exhibit B-1, for toxic gases and Appendix C, Exhibit C-2, for flammable gases.

From the equation for choked flow above and the equation for the GF above, the initial release rate for a gas from a hole in a tank can be written as:

$$QR = HA \times P_t \times \frac{1}{\sqrt{T_t}} \times GF$$
 (D-12)

Release rate (pounds per minute) Hole area (square inches) where:

 $\widetilde{H}A$ Tank pressure (psia)

Tank temperature (K)

¹Gas Factor is calculated according to equation D-11 listed below.

²Ratio of Specific Heats value used is for natural gas.

³Gas Mass Leak Rate (QR) is calculated according to equation D-12 listed below.

⁴Gas Volume Leak Rate is calculated by dividing the Gas Mass Leak Rate (QR) by the Gas Molecular Weight (MW) and dividing by the universal gas law constant 379.48 scf/lb-mol.

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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 366693

DEFINITIONS

Operator:	OGRID:
Pinon Midstream LLC	330718
757 N. Eldridge Pkwy	Action Number:
Houston, TX 77079	366693
	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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 366693

Phone: (505) 476-3470 Fax: (505) 476-3462		
a	QUESTIONS	
Operator:		OGRID:
Pinon Midstream LLC		330718
757 N. Eldridge Pkwy Houston, TX 77079		Action Number: 366693
		Action Type: [C-129] Venting and/or Flaring (C-129)
QUESTIONS		
Prerequisites		
Any messages presented in this section, will prevent submission of this application. Please resolve	these issues before continuing w	with the rest of the questions.
Incident Well	Unavailable.	
Incident Facility	[fAPP2206937962] Pinon	n Midstream
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers a	and may provide addional guidanc	re.
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	No	
Is this considered a submission for a vent or flare event	Yes, minor venting and/o	r 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		
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	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	78	
Nitrogen (N2) percentage, if greater than one percent	2	
Hydrogen Sulfide (H2S) PPM, rounded up	17	
Carbon Dioxide (C02) percentage, if greater than one percent	1	
Oxygen (02) percentage, if greater than one percent	0	
Oxygen (02) percentage, it greater than one percent	0	
If you are venting and/or flaring because of Pipeline Specification, please provide the required spe-	cifications for each gas.	
Methane (CH4) percentage quality requirement	Not answered.	
Nitrogen (N2) percentage quality requirement	Not answered.	
Hydrogen Sufide (H2S) PPM quality requirement	4	
Carbon Dioxide (C02) percentage quality requirement	Not answered.	
Oxygen (02) percentage quality requirement	Not answered.	

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1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV**

State of New Mexico Energy, 1220 S. St Francis Dr. Santa Fe NM 87505

QUESTIONS, Page 2

Minerals and Natural Resources	Action 366
Dil Conservation Division	

operations. Events of this nature will be documented and monitored to ensure limitations on

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	1 0, 14W 07 000
QUESTI	ONS (continued)
Operator:	OGRID:
Pinon Midstream LLC 757 N. Eldridge Pkwy	330718 Action Number:
Houston, TX 77079	366693
	Action Type: [C-129] Venting and/or Flaring (C-129)
QUESTIONS	, , , , , , , , , , , , , , , , , , , ,
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	07/18/2024
Time vent or flare was discovered or commenced	08:31 PM
Time vent or flare was terminated	08:47 PM
Cumulative hours during this event	0
Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Pipeline Quality Specifications Pipeline (Any) Natural Gas Vented Released: 237 Mcf Recovered: 0 Mcf Lost: 237 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.
Marking or Floring Developer Course Course	
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.	False
Please explain reason for why this event was beyond this operator's control	Not answered.
Steps taken to limit the duration and magnitude of vent or flare	The event was completed quickly and controlled to the best of the operator's ability to limit the quantity of gas vented.
	Cause is not a common event and occurs when required for safety or proper normal

recurrence.

Corrective actions taken to eliminate the cause and reoccurrence of vent or flare

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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**

ACKNOWLEDGMENTS

Action 366693

ACKNOWLEDGMENTS

Operator:	OGRID:
Pinon Midstream LLC	330718
757 N. Eldridge Pkwy	Action Number:
Houston, TX 77079	366693
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

I acknowledge that I am authorized to submit a Venting and/or Flaring (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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 366693

CONDITIONS

Operator:	OGRID:
Pinon Midstream LLC	330718
757 N. Eldridge Pkwy	Action Number:
Houston, TX 77079	366693
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created		Condition
Ву		Date
klopez	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.	7/26/2024