

Compressor Blowdown Emissions Data and Calculations

Site Laguna Harvest Four Corners LLC
 Activity # n/a - add to malfunction total ESD failure
 Event Date 11/2/2021

Blowdown Gas

10,026 scf

Gas Stream Composition Per Blowdown				
Component	Mole% (%)	MW (lb/lb-mole)	Mole% * MW (lb/lb-mole)	Mass Per Blowdown (lbs)
carbon dioxide	3.6895	44.01	1.62	42.9
hydrogen sulfide	N/R	34.07	#VALUE!	0.0
nitrogen	0.2513	28.01	0.07	1.9
methane	95.9097	16.04	15.38	406.5
ethane	0.1228	30.07	0.04	1.0
propane	0	44.09	0.00	0.0
isobutane	0	58.12	0.00	0.0
n-butane	0.0268	58.12	0.02	0.4
isopentane	0	72.15	0.00	0.0
n-pentane	0	72.15	0.00	0.0
cyclopentane	0	70.14	0.00	0.00
n-hexane	0	86.17	0.00	0.00
cyclohexane	0	84.16	0.00	0.00
hexanes+	0	86.18	0.00	0.00
heptanes	0	100.20	0.00	0.00
methylcyclohexane	0	98.19	0.00	0.00
2,2,4-trimethylpentane	0	100.21	0.00	0.00
benzene	0	78.11	0.00	0.00
toluene	0	92.14	0.00	0.00
ethylbenzene	0	106.17	0.00	0.00
xylene	0	106.17	0.00	0.00
C8+ heavies	0	110.00	0.00	0.00
Total	100.0001			452.7
Total VOC				0.41161

Laguna Seca Ext Gas Analysis 10-18-2021

Mass (lb/blowdown) = Gas Volume (scf/blowdown) / 379.4 (scf/mol) * Mol% * MW (lb/lb-mol)

LINE LEAK OR CONTINUOUS PSV RELEASE CALCULATOR AND REPORTING
FOR USE FOR RELEASE REMAINING UNDER CONSTANT LINE PRESSURE (I.E. PSV RELIEVES)

Fill in Yellow Fields

ASSUMES NO PRESSURE LOSS AS RESULT OF LEAK

ENTERED BY WHOM	DATE	PSI	PORT DIAMETER IN INCHES	TIME IN MINUTES BLOWN	MCF LOST	COMMENTS
	11/22/2021	373.0	2.00	40.00	1,025.87	
					1,025.87	

District I1625 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 63369

QUESTIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 63369
	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 with the rest of the questions.

Incident Well	Not answered.
Incident Facility	[fCS00000000177] LAGUNA SECA

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 and/or flaring caused by an emergency or malfunction	Yes
Did or will this venting and/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 venting and/or flaring event	Yes, major 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 or will there be at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this venting and/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
Was the venting and/or flaring 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	Gas Compressor Station
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	96
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.

Date(s) and Time(s)

Date venting and/or flaring was discovered or commenced	11/22/2021
Time venting and/or flaring was discovered or commenced	07:15 AM
Time venting and/or flaring was terminated	07:57 AM
Cumulative hours during this event	0

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Cause: Midstream Emergency Maintenance Gas Compressor Station Natural Gas Vented Released: 1,026 Mcf Recovered: 0 Mcf Lost: 1,026 Mcf
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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 or is this venting and/or flaring a result of downstream activity	No
Was notification of downstream activity received by you or your operator	Not answered.
Downstream OGRID that should have notified you or your operator	Not answered.
Date notified of downstream activity requiring this venting and/or flaring	Not answered.
Time notified of downstream activity requiring this venting and/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	it was found that the valve radio control was not installed to communicate with the Laguna ESD system
Steps taken to limit the duration and magnitude of venting and/or flaring	Operator re-armed ESD system and rerouted gas from Laguna
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	The gas flowing through Laguna was blocked and only flows through A-59 by turning on the second dehy at A-59 and flows directly to ROW by passing Laguna CDP

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CONDITIONS

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	Action Number: 63369
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
jakdsolutions	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.	11/29/2021