



6296G	NCW9588452	Da Vinci 7 Fed 3H WH Alloc	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2023076217	2061	C. Myers - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Sep 25, 2023 15:45	Sep 25, 2023 15:45	Sep 28, 2023 09:38	Sep 28, 2023
Date Sampled	Date Effective	Date Received	Date Reported
87.00	395.17	System Administrator	999 @ 86
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	Press PSI @ Temp °F Source Conditions
Coterra	Gas		
Operator	Lab Source Description		

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	1.8840	1.884	
CO2 (CO2)	0.4870	0.487	
Methane (C1)	78.4720	78.473	
Ethane (C2)	11.2080	11.208	2.9970
Propane (C3)	4.8970	4.897	1.3490
I-Butane (IC4)	0.5800	0.58	0.1900
N-Butane (NC4)	1.3700	1.37	0.4320
I-Pentane (IC5)	0.3090	0.309	0.1130
N-Pentane (NC5)	0.3240	0.324	0.1170
Hexanes Plus (C6+)	0.4690	0.469	0.2030
TOTAL	100.0000	100.0010	5.4010

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

Analyzer Information

Device Type: Device Make:
 Device Model: Last Cal Date:

Gross Heating Values (Real, BTU/ft³)

14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
1,231.4	1,211.3	1,234.2	1,214.1

Calculated Total Sample Properties

GPA2145-16 *Calculated at Contract Conditions

Relative Density Real	Relative Density Ideal
0.7235	0.7213
Molecular Weight	
20.8876	

C6+ Group Properties

Assumed Composition

C6 - 60.000%	C7 - 30.000%	C8 - 10.000%
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Field H2S
0 PPM

PROTREND STATUS:

Passed By Validator on Sep 28, 2023

DATA SOURCE:

Imported

PASSED BY VALIDATOR REASON:

Close enough to be considered reasonable.

VALIDATOR:

Dustin Armstrong

VALIDATOR COMMENTS:

OK

Release Quantity Calculation / Reporting Requirement

SELECT FACILITY ->

Display Name

DA VINCI 7 FED

Facility:

DA VINCI 7 FED

Date/Time Discovered:

5/1/24 11:45 AM

Time Discovered:

11:45:00 AM

Date/Time Started:

4/30/24 10:00 PM

Time Event Started:

10:00:00 PM

Date/Time Ended:

5/1/24 2:00 PM

Time Event Ended:

2:00:00 PM

Event Duration (hrs):

16.000

Event Duration (days):

1.000

Ambient Temperature (F):

Cause (if known):

Arrived on location after being notified of end of line device venting at the tank battery. Found 4in Jayco .4 vacuum 1.5oz pressure valve venting due to tank overpressure. Overpressure was caused by dump valve malfunction on Da Vinci 7-3H separator. Temperature of gas was 100F according to SCADA.

No. of Events:

1

Notes:

Calculated event emissions using mass balance equation and Emission Event Calculator Workbook. Separator on the 3H had the dump valve malfunction. Event duration confirmed using SCADA data and operator provided information. Pollutant mass emission rates calculated using gas vented volume and pollutant gas. Evaluated emissions event. Event is not reportable per NMED Guidelines.

Corrective Action:

Adjusted level controllers on separator.

H2S per Permit (ppm):

0

State:

NM

Latitude:

32.13721

Longitude:

-104.22633

Permit Type:

NM-NCR

Accumulated Malfunctions VOC (TPY):

Updated per Facility Selection

Check Instructions

Enter Gas Analysis

Check Reporting Summary

= entered info

= entered from spreadsheet for release type

= calculated value

= dropdowns

Release Source Type and Information

Metered/Estimated Vol (mscf)

392.762

Control Type:

None

Control Efficiency (%):

0%

adjust manually if needed, this control is for metered/estimated volumes only

CLICK to go to this tab ->

Hole

Pipe Blowdown - HP

Pipe Blowdown - LP

Equipment Blowdown

Compressor Blowdown

Compressor Startup

ESD

Metered/Estimated Vol.

PSV

TOTAL

Vol. Vented to Atmosphere (mscf)

0.000

0.000

0.000

0.000

0.000

0.000

0.000

392.762

0.000

392.762

(mscf) uncombusted

0.000

(mscf) uncombusted

Vol. of Gas Combusted (mscf)

-

0.000

0.000

0.000

0.000

0.000

0.000

-

0.000

(mscf) combusted

Max Hourly Release (mscf)

24.5

Overrides if greater than calculated value

NM Reporting Questions

the emission event resulted in uncontrolled engine emissions vented to atmosphere? (ie. engine burning without catalysts)

No

PA Reporting Questions

If "yes" to the above, is this engine subject to NSPS JJJJ emission limits?

No

Did the event result in fugitive particulate emission or odor beyond the facility boundary?

No

Did the event result in a noise complaint from nearby community?

No

Did the event happen with a fire, explosion or other condition that may impact outside of the fence-line or require evacuations?

No

CSB Reporting Questions

Did the event result in a fatality or serious injury including hospitalization?

No

Did the event result in property damage estimated in or excess of \$1million USD?

No

EPCRA Reporting Questions

Did the release result in exposure to persons solely within the boundaries of XEC facility?

Yes

Is the release a federally permitted release as defined in Section 101(10) of CERCLA?

No

PSE Questions

Was there a fire or explosion associated to this emission event?

No

Did the damage resulting from fire or explosion resulted in direct cost greater than \$100,000?

No

Did the damage resulting from fire or explosion resulted in direct cost greater than \$2,500 but less than \$100,000?

No

H2S ppm:

Enter HERE if not already in the gas analysis in mole %

* use recent gas analysis specific to the facility if available; otherwise use default data for the basin

Component

mole %

Molecular Weight (grams/mole, lb/lb-mol)

grams per 100 moles of gas

weight %

Total Event Release Amount (lbs)

Total Release Amount 24-hr period (lbs)

Max Hourly Release Amount (lbs)

Total Event Tank Emissions (lbs)

Total Event Dehy Emissions (lbs)

Total Event (Vented Gas+Tank Vapors)

Reportable Amount 24-hr (lbs) for TX Reporting

PSE Tier 1 Limits lb/hr

PSE Tier 2 Limits lb/hr

Component to Report to TCEQ

Trigger PSE

Hydrogen

0.0000

2.01588

0.00

0.000

0.00

0.00

0.00

-

-

0.00

NA

-

-

Helium

0.0000

4.0026

0.00

0.000

0.00

0.00

0.00

-

-

0.00

NA

-

-

Nitrogen

1.5430

28.01340

43.22

2.023

447.35

447.35

27.96

0.00

0.00

447.35

5000

-

-

CO2

0.4670

44.00950

20.55

0.962

212.71

212.71

13.29

0.00

0.00

212.71

NA

-

-

H2S**

0.0000

34.08188

0.00

0.000

0.00

0.00

0.00

0.00

0.00

0.00

100

55

5.5

-

-

Methane (C1)

77.1820

16.04246

1238.19

57.951

12814.59

12814.59

800.91

0.00

0.00

12814.59

NA

1100

110

-

Tier 2

Ethane (C2)

11.6950

30.06904

351.66

16.459

3639.46

3639.46

227.47

0.00

0.00

3639.46

NA

1100

110

-

Tier 2

Propane (C3)

5.3710

44.09562

236.84

11.085

2451.14

2451.14

153.20

0.00

0.00

2451.14

5000

1100

110

-

Tier 2

Butanes (C4)

2.2210

58.12220

129.09

6.942

1336.01

1336.01

83.50

0.00

0.00

1336.01

5000

1100

110

-

-

Pentanes (C5)

0.7260

72.14878

52.38

2.452

542.10

542.10

33.88

0.00

0.00

542.10

5000

-

-

Benzene

78.110000

0.00

0.000

0.00

0.00

0.00

0.00

0.00

0.00

0.00

10

-

-

N-hexane (C6)

86.180000

0.00

0.000

0.00

0.00

0.00

0.00

0.00

0.00

0.00

5000

-

-

Other hexanes (C6)

0.3080

86.180000

26.54

1.242

274.71

274.71

17.17

0.00

0.00

274.71

5000

-

-

Toluene

92.140000

0.00

0.000

0.00

0.00

0.00

0.00

0.00

0.00

0.00

1000

-

-

Other heptanes (C7)

0.2460

106.200000

24.65

1.154

255.11

255.11

15.94

0.00

0.00

255.11

100

-

-

Ethylbenzene*

106.170000

0.00

0.000

0.00

0.00

0.00

0.00

0.00

0.00

0.00

1000

-

-

Xylenes (o, m, p)*

106.170000

0.00

0.000

0.00

0.00

0.00

0.00

0.00

0.00

0.00

100

-

-

Other octanes (C8)

0.0980

114.23000

11.19

0.524

115.86

115.86

7.24

0.00

0.00

115.86

5000

-

-

Nonanes (C9)

0.0180

128.26000

2.31

0.108

23.89

23.89

1.49

0.00

0.00

23.89

100

-

-

Decanes plus (C10+)

0.0220

0.00

0.000

0.00

0.00

0.00

0.00

0.00

0.00

5000

-

-

Totals

89.8970

21.37

2137

100.000

4998.82

4998.82

0.00

0.00

4998.82

5000

-

-

Natural Gas (VOC) Release (lbs)

4998.82

4998.82

VOC (lbs)

0.00

0.00

4998.82

5000

-

-

VOC (TPY)

2.50

1100

110

-

Tier 1

VOC (Non-methane, Non-ethane hydrocarbons)

VOC content of total sample

VOC weight %

22.61

VOC weight fraction

0.23

VOC content of hydrocarbon fraction only

VOC weight %

23.30

VOC weight fraction

0.23

Combustion Emissions

VOC (lbs)

0.00

Calculated via mass balance

SO2 (lbs)

0.00

0.00

CO (lbs)

0.00

0.00

CO2 (lbs)

0.00

0.00

NOx (lbs)

0.00

0.00

Split NOx - NO (lbs)

0.00

0.00

Split NOx - NO2 (lbs)

0.00

0.00

NO2/NOx ratio=0.75 per https://www.epa.gov/air-research/guidelines-for-determining-if-a-source-is-major-source-of-no2-and-nox

Combustion Related ROs

VOC (lbs)

500

220

22

-

-

CO (lbs)

5000

440

44

-

-

CO2 (lbs)

NA

-

-

NOx (lbs)

5000

-

-

Split NOx - NO (lbs)

NA

-

-

Split NOx - NO2 (lbs)

NA

-

-

Released to Imaging: 5/14/2024 2:46:53 PM

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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 344325

DEFINITIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 344325
	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 344325

QUESTIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 344325
	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	Unavailable.
Incident Facility	[fAPP2201344531] DA VINCI 7 FEDERAL

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	Dump Valve
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	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

Action 344325

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 344325
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	05/01/2024
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	12:00 AM
Cumulative hours during this event	16

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Normal Operations Dump Valve Natural Gas Vented Released: 393 Mcf Recovered: 0 Mcf Lost: 393 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	The dump valve became stuck causing a vent event.
Steps taken to limit the duration and magnitude of vent or flare	MINIMIZED VENT EVENT DURATION. TOOK ACTION WHEN DISCOVERED.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	ADJUSTED CONTROLLERS ON SEPARATOR. MIDSTREAM AND MARKETING TO EVALUATE.

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ACKNOWLEDGMENTS

Action 344325

ACKNOWLEDGMENTS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 344325
	Action Type: [C-129] Venting and/or Flaring (C-129)

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

Action 344325

CONDITIONS

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	Action Number: 344325
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
adolby01	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.	5/14/2024