



7471G

NCW9775189

Cottonwood Hills 32 St 5H WH Alloc

Sample Point Code

Sample Point Name

Sample Point Location

Laboratory Services

2021039341

0864

I Rangel - Spot

Source Laboratory

Lab File No

Container Identity

Sampler

USA

USA

USA

New Mexico

District

Area Name

Field Name

Facility Name

Feb 22, 2021 10:40

Feb 22, 2021 10:40

Mar 2, 2021 09:38

Mar 2, 2021

Date Sampled

Date Effective

Date Received

Date Reported

45.00

296.76

Torrance

83 @ 74

Ambient Temp (°F)

Flow Rate (Mcf)

Analyst

Press PSI @ Temp °F
Source Conditions

Cimarex Energy

NG

Operator

Lab Source Description

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	1.2820	1.282	
CO2 (CO2)	0.1460	0.146	
Methane (C1)	77.1440	77.143	
Ethane (C2)	11.7830	11.783	3.1500
Propane (C3)	5.5720	5.572	1.5350
I-Butane (IC4)	0.8090	0.809	0.2650
N-Butane (NC4)	1.9080	1.908	0.6010
I-Pentane (IC5)	0.3260	0.326	0.1190
N-Pentane (NC5)	0.3800	0.38	0.1380
Hexanes Plus (C6+)	0.6500	0.65	0.2820
TOTAL	100.0000	99.9990	6.0900

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

Analyzer Information

Device Type: Gas Chromatograph Device Make: Shimadzu
 Device Model: GC-2014 Last Cal Date: Mar 2, 2021

Gross Heating Values (Real, BTU/ft³)

14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
1,282.5	1,261.6	1,285.5	1,264.5

Calculated Total Sample Properties

GPA2145-16 *Calculated at Contract Conditions

Relative Density Real

Relative Density Ideal

0.7445

0.7420

Molecular Weight

21.4935

C6+ Group Properties

Assumed Composition

C6 - 60.000% C7 - 30.000% C8 - 10.000%

Field H2S

0 PPM

PROTREND STATUS:

Passed By Validator on Mar 3, 2021

DATA SOURCE:

Imported

PASSED BY VALIDATOR REASON:

Close enough to be considered reasonable.

VALIDATOR:

Torrance Galvan

VALIDATOR COMMENTS:

OK

Release Quantity Calculation / Reporting Requirement

SELECT FACILITY -> DisplayName: COTTONWOOD HILLS 32 STATE

Facility: COTTONWOOD HILLS 32 STATE

Date/Time Discovered: 4/29/22 11:00 AM

Date/Time Started: 4/29/22 11:00 AM

Date/Time Ended: 4/29/22 11:00 AM

Event Duration (hrs): 24.000

Event Duration (days): 1.000

Ambient Temperature (F):

Time Discovered: 11:00:00 AM

Time Event Started: 11:00:00 AM

Time Event Ended: 11:00:00 AM

Accumulated Malfunctions VOC (TPY):

State: NM

Latitude: 32.08036

Longitude: -104.21858

GCP IN NM?: NO

Updated per Facility Selection

Check Instructions

Enter Gas Analysis

Check Reporting Summary

= entered info

= entered from spreadsheet for release type

= calculated value

= dropdowns

Cause (if known):

No. of Events: 1

Notes: Performed mass balance using scada data

Corrective Action:

Arrived on location. Found gas venting from anarndo on top of water tank. Inspected all water dumps. Found cottonwood hills 32-SH water dump hung open. Wellmark controller was stuck. Made adjustments to wellmark and stopped gas from venting

Arrived on location. Found gas venting from anarndo on top of water tank. Inspected all water dumps. Found cottonwood hills 32-SH water dump hung open. Wellmark controller was stuck. Made adjustments to wellmark and stopped gas from venting

Release Source Type and Information

Metered/Estimated Vol (mscf): 286.840

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

286.840

0.000

286.840

(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

-

0.000

(mscf) combusted

Max Hourly Release (mscf): 12.0

Overwrite if greater than calculated value

NM Reporting Questions

Did the emission event result in uncontrolled engine emissions vented to atmosphere? (i.e. engine burning without catalyst)

No

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

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

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

Tank vented emissions

Dehy vented emissions

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

Reportable Amount 24-hr (lbs) for NRC Reporting

Component to Report to TCEQ

Component to Report to NRC

Hydrogen

0.0000

2.01588

0.00

0.000

0.00

0.00

0.00

-

-

0.00

NA

NA

-

-

Helium

0.0000

4.0026

0.00

0.000

0.00

0.00

0.00

-

-

0.00

NA

NA

-

-

Nitrogen

1.2820

28.01340

35.91

1.674

271.44

271.44

11.31

0.00

0.00

271.44

5000

NA

-

-

CO2

0.1460

44.00960

6.43

0.300

48.57

48.57

2.02

0.00

0.00

48.57

NA

NA

-

-

H2S**

0.0000

34.08188

0.00

0.000

0.00

0.00

0.00

0.00

0.00

0.00

100

100

-

-

Methane (C1)

77.1440

16.04246

1237.58

57.702

9354.08

9354.08

389.75

0.00

0.00

9354.08

NA

NA

-

-

Ethane (C2)

11.7830

30.06904

354.30

16.519

2677.96

2677.96

111.58

0.00

0.00

2677.96

NA

NA

-

-

Propane (C3)

5.5720

44.09962

245.70

11.456

1857.10

1857.10

77.36

0.00

0.00

1857.10

5000

NA

-

-

Butanes (C4)

2.7170

58.12220

157.92

7.363

1193.60

1193.60

49.73

0.00

0.00

1193.60

5000

NA

-

-

Pentanes (C5)

0.7060

72.14878

50.94

2.375

385.00

385.00

16.04

0.00

0.00

385.00

5000

NA

-

-

Benzene

78.110000

0.00

0.000

0.00

0.00

0.00

0.00

0.00

0.00

10

10

-

-

N-hexane (C6)

86.180000

0.00

0.000

0.00

0.00

0.00

0.00

0.00

0.00

5000

5000

-

-

Other hexanes (C6)

0.6500

86.18000

56.02

2.612

423.40

423.40

17.64

0.00

0.00

423.40

5000

5000

-

-

Toluene

92.140000

0.00

0.000

0.00

0.00

0.00

0.00

0.00

0.00

1000

1000

-

-

Other heptanes (C7)

0.0000

100.20000

0.00

0.000

0.00

0.00

0.00

0.00

0.00

100

NA

-

-

Ethylbenzene*

106.170000

0.00

0.000

0.00

0.00

0.00

0.00

0.00

0.00

10000

10000

-

-

Xylenes (o, m, p)*

106.170000

0.00

0.000

0.00

0.00

0.00

0.00

0.00

0.00

100

100

-

-

Other octanes (C8)

0.0000

114.23000

0.00

0.000

0.00

0.00

0.00

0.00

0.00

5000

NA

-

-

Nonanes (C9)

0.0000

128.26000

0.00

0.000

0.00

0.00

0.00

0.00

0.00

100

NA

-

-

Decanes plus (C10+)

0.0000

0.00

0.000

0.00

0.00

0.00

0.00

0.00

5000

NA

-

-

Totals:

100.0000

21.45

2145

100.000

3859.10

3859.10

16211.14

16211.14

0.00

0.00

3859.10

5000

NA

-

-

Natural Gas (VOC) Release (lbs)=

3859.10

3859.10

VOC (lbs)

0.00

0.00

VOC (TPY)

1.93

VOC (Non-methane, Non-ethane hydrocarbons)

VOC content of total sample

VOC weight% = 23.81

VOC weight fraction = 0.24

VOC content of hydrocarbon fraction only

VOC weight% = 24.26

VOC weight fraction = 0.24

Combustion Emissions

VOC (lbs)

*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

Combustion Related RQs

VOC (lbs)

500

500

SO2 (lbs)

5000

5000

CO (lbs)

NA

NA

CO2 (lbs)

NA

NA

NOx (lbs)

5000

5000

Split NOx - NO (lbs)

NA

1000

Split NOx - NO2 (lbs)

NA

1000

NO2/NOx ratio=0.75 per https://www3.epa.gov/ttn/scram/guidance/guidepaper_05.pdf

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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 106237

DEFINITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 106237
	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 106237

QUESTIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 106237
	Action Type: [C-129] Venting and/or Flaring (C-129)

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 Well	Not answered.
Incident Facility	[fAPP2201752272] COTTONWOOD HILLS 32

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	Yes
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.
<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	77
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) 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 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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QUESTIONS, Page 2

Action 106237

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 106237
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/29/2022
Time vent or flare was discovered or commenced	11:00 AM
Time vent or flare was terminated	11:00 AM
Cumulative hours during this event	24

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Equipment Failure Dump Valve Natural Gas Vented Released: 283 Mcf Recovered: 0 Mcf Lost: 283 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	Water dump hung open.
Steps taken to limit the duration and magnitude of vent or flare	Made adjustments to dump valve.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Routine maintenance.

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ACKNOWLEDGMENTS

Action 106237

ACKNOWLEDGMENTS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 106237
	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 106237

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 106237
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
bgordon01	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.	5/12/2022