



6079G	NCP9588453	ottonwood Hills 32 St CDP Audit (Luc	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2021044366	1643	N Kirk - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Jul 23, 2021 11:00	Jul 23, 2021 11:00	Aug 4, 2021 13:50	Aug 5, 2021
Date Sampled	Date Effective	Date Received	Date Reported
83.00	900.02	Torrance	@ 93
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)	1.6700	1.67034	
CO2 (CO2)	0.2410	0.24104	
Methane (C1)	77.4480	77.44749	
Ethane (C2)	11.3270	11.32726	3.0280
Propane (C3)	5.1460	5.14562	1.4170
I-Butane (IC4)	0.6940	0.69427	0.2270
N-Butane (NC4)	1.6670	1.66736	0.5250
I-Pentane (IC5)	0.3630	0.36252	0.1330
N-Pentane (NC5)	0.4400	0.44026	0.1590
Hexanes Plus (C6+)	1.0040	1.00382	0.4360
TOTAL	100.0000	100.0000	5.9250

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
1,277.3	1,256.4	1,280.3	1,259.3

Calculated Total Sample Properties

GPA2145-16 *Calculated at Contract Conditions

Relative Density Real	Relative Density Ideal
0.7470	0.7445
Molecular Weight	
21.5608	

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 Aug 6, 2021

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 COTTONWOOD HILLS 32 STATE

Facility:	COTTONWOOD HILLS 32 STATE	Updated per Facility Selection
Date/Time Discovered:	7/10/22 1:15 PM	State: NM
Date/Time Started:	7/10/22 4:05 AM	Latitude: 32.08036
Date/Time Ended:	7/10/22 1:15 PM	Longitude: -104.21858
Event Duration (hrs):	9.167	Permit Type: NM-NOI
Event Duration (days):	1.000	Accumulated Malfunctions VOC (TPY): 1.23
Ambient Temperature (F):	100.0	

[Check Instructions](#)
[Enter Gas Analysis](#)
[Check Reporting Summary](#)

= entered info
 = entered from spreadsheet for release type
 = calculated value
 = dropdowns

Cause (if known):

From Pumper: "Upon arrival. Both compressors were down on low 2nd stage discharge pressure. Started compressors and noticed wasn't building pressure. So I left to get some batteries and came back. But still had no pressure. So decided to walk line out and found the master injection line blew. Shut compressors off. Shut in injection line at wells. Got on SCADA and found that at 4:04 AM we had 1037psi on line. Then at 4:16 AM line pressure dropped to 23psi. SCADA shows line blew between 4:04 AM and 4:16 AM. I arrived to location and started compressors around 9 AM. Found leak while compressors were running with a flowrate of 1390 MCF."

No. of Events: 1

Notes:

Calculated volume of release using pipeline blowdown for length of pipeline and compressor meter mass balance from Scada because compressors were restarted and ran from 9 AM - 1230 PM. Tyler, the pumper, confirmed that the 500 mscf between 4 AM & 9 AM was bad Scada meter data. Actual gas release happened off well pad between well and tank battery. - Update 7/13/2022 - Kenneth Rountree and Tyler D confirmed pipeline stretch was actually 4in and ~1mi long, also confirmed the master inj meter reading between 4am-9am was likely BP gas blowby from the compressors and to account for emissions determination. Adjusted gas release per feedback received.

Corrective Action:

Shut compressor off and isolated line around 12:30 PM. Rebuilding line

Release Source Type and Information

Metered/Estimated Vol (mscf)	314.583	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	41.203	0.000	0.000	0.000	0.000	0.000	314.583	0.000	355.786
Vol. of Gas Combusted (mscf):	-	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	0.000
Max Hourly Release (mscf)	38.8	Overwrite if greater than calculated value								

If Tank or Dehy Vapors are also vented, Gas Volume for Radar needs added
 (mscf) uncombusted 0.000 (mscf) uncombusted
 (mscf) combusted

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**

PA Reporting Questions

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**

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

* 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	1.6700	28.01340	46.78	2.177	438.59	438.59	47.85	0.00	0.00	438.59	5000	NA	-	-				
CO2	0.2410	44.00950	10.61	0.494	99.44	99.44	10.85	0.00	0.00	99.44	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)	77.4480	16.04246	1242.46	57.814	11648.20	11648.20	1270.71	0.00	0.00	11648.20	NA	NA	-	-				
Ethane (C2)	11.3270	30.06904	340.59	15.849	3193.10	3193.10	346.34	0.00	0.00	3193.10	NA	NA	-	-				
Propane (C3)	5.1460	44.09562	226.92	10.559	2127.37	2127.37	232.08	0.00	0.00	2127.37	5000	NA	-	-				
Butanes (C4)	2.3610	58.12220	137.23	6.385	1286.52	1286.52	140.35	0.00	0.00	1286.52	5000	NA	-	-				
Pentanes (C5)	0.8030	72.14878	57.94	2.696	543.15	543.15	59.25	0.00	0.00	543.15	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)	1.0040	86.18000	86.52	4.026	811.18	811.18	88.49	0.00	0.00	811.18	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	0.00	100	NA	-	-				
Ethylbenzene*		106.170000	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	1000	1000	-	-				
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	0.00	5000	NA	-	-				
Nonanes (C9)	0.0000	128.26000	0.00	0.000	0.00	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	0.00	5000	NA	-	-				
Totals:	100.0000	21.49	2149	100.000	4768.22	4768.22												
Natural Gas (VOC) Release (lbs)=					4768.22	4768.22	VOC (lbs)		0.00	0.00	4768.22	5000	NA	-	-			
Total Release (lbs)=					20147.54	20147.54					VOC (TPY)	2.38						
VOC (Non-methane, Non-ethane hydrocarbons)											VOC (lbs)							
VOC content of total sample											SO2 (lbs)		500	500	-	-		
VOC weight% =					23.67						CO (lbs)		5000	NA	-	-		
VOC weight fraction =					0.24						CO2 (lbs)		NA	NA	-	-		
VOC content of hydrocarbon fraction only											NOx (lbs)		5000	NA	-	-		
VOC weight% =					24.32						Split NOx - NO (lbs)		NA	1000	-	-		
VOC weight fraction =					0.24						Split NOx - NO2 (lbs)		NA	1000	-	-		
NO2/NOx ratio=0.75 per https://www3.epa.gov/ttn/scram/guidance/guide/appw_05.pdf																		

NO2/NOx ratio=0.75 per https://www3.epa.gov/ttn/scram/guidance/guide/sgpw_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 131174

DEFINITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 131174
	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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QUESTIONS

Action 131174

QUESTIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 131174
	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	[fAPP2201752272] COTTONWOOD HILLS 32

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	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	Not answered.
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	77
Nitrogen (N2) percentage, if greater than one percent	2
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
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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QUESTIONS, Page 2

Action 131174

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 131174
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	07/10/2022
Time vent or flare was discovered or commenced	04:05 AM
Time vent or flare was terminated	01:15 PM
Cumulative hours during this event	9

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Normal Operations Pipeline (Any) Natural Gas Vented Released: 356 Mcf Recovered: 0 Mcf Lost: 356 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	Pipe/Pipeline blowdown
Steps taken to limit the duration and magnitude of vent or flare	Normal Operations
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Shut compressor off and isolated line and rebuilt

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ACKNOWLEDGMENTS

Action 131174

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Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 131174
	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 131174

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 131174
	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.	8/3/2022