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575.397.3713 2609 W MARLAND HOBBS, NEW MEXICO 88240

### EXTENDED GAS REPORT SUMMARY OF CHROMATOGRAPHIC ANALYSIS

**Sample Name:** Palk State 36 CDP  
**Sample Date:** 03/05/2024  
**Sampled By:** AW  
**Time Sampled:** 09:20  
**Sample Temp:** 77.0 F  
**Sample Press:** 573.0

H<sub>2</sub>S (PPM) = 0.5

**For:** 20524G  
**Cyl. Ident.:** 2024086826  
**Company:** Coterra Energy  
**Analysis Date:** 03/18/2024  
**Analysis By:** BH  
**Data File:** LS2\_0468.D

Component	Mole%	GPM REAL	GPM IDEAL
H <sub>2</sub> S	0.000		
Nitrogen	0.859		
Methane	82.819		
CO <sub>2</sub>	0.145		
Ethane	9.354	2.501	2.495
Propane	3.603	0.992	0.990
Isobutane	0.585	0.191	0.191
N-Butane	1.200	0.378	0.377
Isopentane	0.336	0.123	0.123
N-Pentane	0.379	0.137	0.137
Hexanes+	0.720	0.302	0.302
Total	100.000	4.624	4.615

### CALCULATED PARAMETERS

#### TOTAL ANALYSIS SUMMARY

MOLE WT: 20.216  
VAPOR PRESS PSIA: 4223.8  
SPECIFIC GRAVITY  
AIR = 1 (REAL): 0.6998  
AIR = 1 (IDEAL): 0.6978  
H<sub>2</sub>O = 1 (IDEAL): 0.341

REPORTED BASIS: 14.73  
Unnormalized Total: 100.329

#### HEATING VALUE

BTU/CUFT (DRY) 1223.0  
BTU/CUFT (WET) 1202.2

#### BTEX SUMMARY

WT% BENZENE 1.531  
WT% TOLUENE 1.921  
WT% E BENZENE 0.158  
WT% XYLENES 1.581

LAB MANAGER

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**Sample Name:** Palk State 36 CDP  
**Company:** Coterra Energy

**Data File:** LS2\_0468.D**\*ANALYSIS OF HEXANES PLUS**

Component	MOLE%	WT%
2,2 DIMETHYL BUTANE	0.009	0.036
CYCLOPENTANE	0.028	0.109
2-METHYLPENTANE	0.097	0.413
3-METHYLPENTANE	0.052	0.223
HEXANE (C6)	0.127	0.548
DIMETHYLPENTANES	0.003	0.018
METHYLCYCLOPENTANE	0.053	0.221
2,2,3 TRIMETHYLBUTANE	0.000	0.000
BENZENE	0.008	0.031
CYCLOHEXANE	0.057	0.239
2-METHYLHEXANE	0.000	0.000
3-METHYLHEXANE	0.030	0.147
DIMETHYLCYCLOPENTANES	0.022	0.107
HEPTANE (C7)	0.046	0.228
METHYLCYCLOHEXANE	0.066	0.323
2,5 DIMETHYLHEXANE	0.001	0.007
TOLUENE	0.014	0.064
2-METHYLHEPTANE	0.000	0.000
OTHER OCTANES	0.023	0.127
OCTANE (C8)	0.013	0.071
ETHYLCYCLOHEXANE	0.004	0.023
ETHYL BENZENE	0.001	0.005
M,P-XYLENE	0.008	0.040
O-XYLENE	0.002	0.008
OTHER NONANES	0.025	0.145
NONANE (C-9)	0.005	0.032
IC3 BENZENE	0.000	0.002
CYCLOOCTANE	0.002	0.010
NC3 BENZENE	0.000	0.001
TM BENZENE(S)	0.000	0.000
IC4 BENZENE	0.001	0.006
NC4 BENZENE	0.000	0.000
DECANES + (C10+)	0.007	0.046

**\*HEXANES PLUS SUMMARY**

AVG MOLE WT	93.190
VAPOR PRESS PSIA	9.860
API GRAVITY @ 60F	67.8
SPECIFIC GRAVITY	
AIR = 1 (IDEAL):	2.975
H2O = 1 (IDEAL):	0.710

**COMPONENT RATIOS**

HEXANES (C6) MOLE%	43.594
HEPTANES (C7) MOLE%	32.837
OCTANES (C8) MOLE%	16.205
NONANES (C9) MOLE%	5.955
DECANES+ (C10+) MOLE%	1.409
HEXANES (C6) WT%	39.978
HEPTANES (C7) WT%	32.567
OCTANES (C8) WT%	17.843
NONANES (C9) WT%	7.601
DECANES+ (C10+) WT%	2.011

Remarks: spot

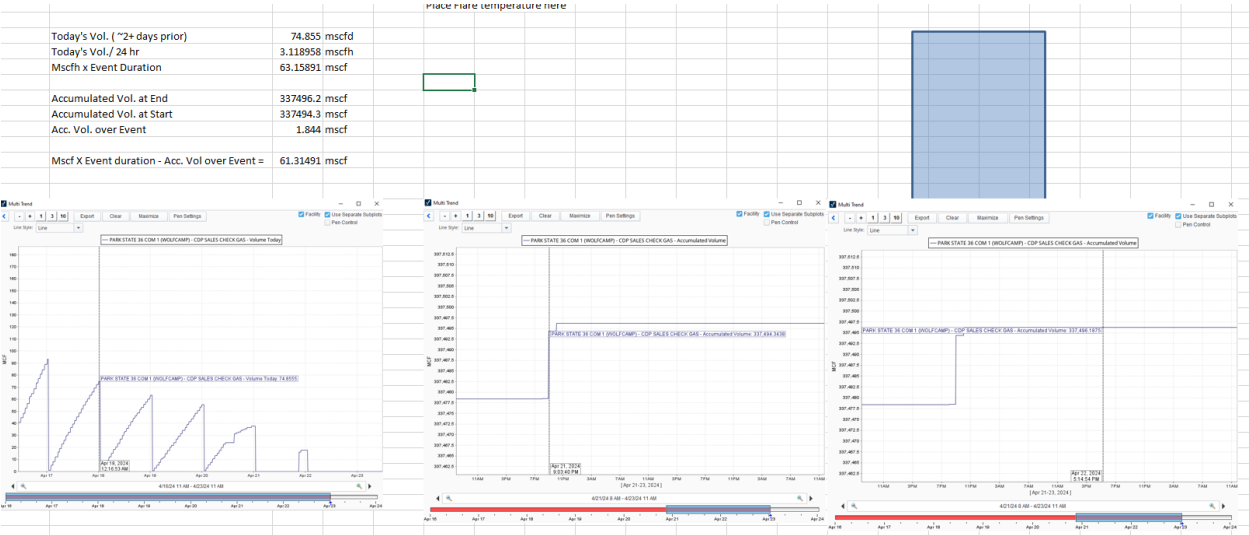
\* Hexane+ portion calculated by Allocation Process



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Intermediate flaring:



Event Date	Volume Flowed (mcf)	Duration (hrs)
4/22/2024	62	17.25

Details:

[226737] HUNTER GAS GATHERING INC–Facility Issues, Midstream & Marketing to Evaluate

**District I**  
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**District IV**  
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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 341114

DEFINITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 341114
	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"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul>
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QUESTIONS

Action 341114

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 341114
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

<b>Prerequisites</b> 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	[fAPP2201027561] Park State 36 Com 1

<b>Determination of Reporting Requirements</b> 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

<b>Equipment Involved</b>	
Primary Equipment Involved	Tank (Any)
Additional details for Equipment Involved. Please specify	Not answered.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b> Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	84
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 341114

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 341114
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/22/2024
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	17

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: High Line Pressure   Valve   Natural Gas Vented   Released: 61 Mcf   Recovered: 0 Mcf   Lost: 61 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	A pressure relief device activation due to vessel high pressure.
Steps taken to limit the duration and magnitude of vent or flare	MINIMIZED FLARE EVENT DURATION
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	MIDSTREAM AND MARKETING TO EVALUATE, SHUTIN VALVE TO SOLVE VENTING ISSUES.



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ACKNOWLEDGMENTS

Action 341114

ACKNOWLEDGMENTS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 341114
	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 <b>complete</b> 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 341114

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 341114
	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.	5/6/2024