



# Certificate of Analysis

Number: 5030-25040010-002A

**Midland Laboratory**  
 2200 East I-20  
 Midland, TX 79706  
 Phone 432-689-7252

Mark Cochran  
 Lario Oil & Gas Co.  
 5013 Andrews Highway  
 Odessa, TX 79762

Station Name: SKY DWELLER SOUTH  
 Sample Point: SEPERATOR  
 Method: GPA 2286  
 Cylinder No: 5030-04569  
 Instrument 1: 5030\_GC11, Middle (TCD)  
 Instrument 2: FID-3,  
 Analyzed: 04/04/2025 09:31:36 by ARP

Report Date: 04/15/2025  
 Sampled By: JOSUE J  
 Sample Of: Gas Spot  
 Sample Conditions: 152 psig, @ 98 °F  
 Sample Date: 03/31/2025 09:00  
 Received Date: 04/01/2025  
 Login Date: 04/01/2025

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.65 psia		
Nitrogen	3.425	4.101		GPM TOTAL C2+	7.668
Methane	68.569	47.019		GPM TOTAL C3+	3.835
Carbon Dioxide	0.857	1.612		GPM TOTAL iC5+	0.704
Ethane	14.351	18.445	3.833		
Propane	7.942	14.969	2.185		
Iso-butane	0.952	2.365	0.311		
n-Butane	2.018	5.013	0.635		
Iso-pentane	0.551	1.699	0.201		
n-Pentane	0.430	1.326	0.156		
Hexanes Plus	0.905	3.451	0.347		
	<u>100.000</u>	<u>100.000</u>	<u>7.668</u>		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8106	3.0486
Calculated Molecular Weight	23.40	88.29
Compressibility Factor	0.9957	
<b>GPA 2172 Calculation:</b>		
<b>Calculated Gross BTU per ft<sup>3</sup> @ 14.65 psia &amp; 60°F</b>		
Real Gas Dry BTU	1327	4696
Water Sat. Gas Base BTU	1303	4614

*Mostaq Ahamed*

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.



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## Analytical Data

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Nitrogen	3.425	4.101		GPM TOTAL C2+
Methane	68.569	47.019		7.668
Carbon Dioxide	0.857	1.612		
Ethane	14.351	18.445	3.833	
Propane	7.942	14.969	2.185	
Iso-Butane	0.952	2.365	0.311	
n-Butane	2.018	5.013	0.635	
Iso-Pentane	0.551	1.699	0.201	
n-Pentane	0.430	1.326	0.156	
i-Hexanes	0.251	0.909	0.100	
n-Hexane	0.119	0.442	0.049	
Benzene	0.098	0.329	0.028	
Cyclohexane	0.085	0.305	0.029	
i-Heptanes	0.192	0.745	0.075	
n-Heptane	0.027	0.118	0.013	
Toluene	0.036	0.141	0.012	
i-Octanes	0.082	0.364	0.036	
n-Octane	0.005	0.025	0.002	
Ethylbenzene	0.003	0.014	0.001	
Xylenes	0.003	0.013	0.001	
i-Nonanes	0.003	0.033	0.001	
n-Nonane	0.001	0.003	0.000	
Decane Plus	0.000	0.010	0.000	
	100.000	100.000	7.668	

Calculated Physical Properties	Total	C10+
Relative Density Real Gas	0.8106	0.0000
Calculated Molecular Weight	23.40	0.00
Compressibility Factor	0.9957	
<b>GPA 2172 Calculation:</b>		
<b>Calculated Gross BTU per ft<sup>3</sup> @ 14.65 psia &amp; 60°F</b>		
Real Gas Dry BTU	1326.6	0.000
Water Sat. Gas Base BTU	1303.3	0.000

*Mostafa Alshamrani*

Hydrocarbon Laboratory Manager

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5013 Andrews Highway  
Odessa, TX 79762

Station Name: SKY DWELLER SOUTH  
Sample Point: SEPERATOR  
Received Date: 04/01/2025  
Login Date: 04/01/2025  
Cylinder No: 5030-04569

Report Date: 04/15/2025  
Sampled By: JOSUE J  
Sample Of: Gas Spot  
Sample Conditions: 152 psig, @ 98 °F  
Sample Date: 03/31/2025 09:00

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-4810	950	ppm		CDW	04/15/2025

Data reviewed by: Cody Wallace

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

FLARING SUMMARY

Battery	Date	Total Flare Vol (mcf)	Hrs Flared	Start		End	
Sky Dweller South CTB	11/25/2025	95	24	11/25/2025	12:00AM	11/25/2025	12:00AM

High pressure on the midstream system resulted in excess gas routed to flare. Field staff adjusting set points to mitigate flare volumes.

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

DEFINITIONS

Action 531863

**DEFINITIONS**

Operator: LARIO OIL & GAS CO 260 N. Josephine St Denver, CO 80206	OGRID: 13089
	Action Number: 531863
	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 531863

**QUESTIONS**

Operator: LARIO OIL & GAS CO 260 N. Josephine St Denver, CO 80206	OGRID: 13089
	Action Number: 531863
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b>	
<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	[30-025-53150] SKY DWELLER 14 STATE COM #101H
Incident Facility	Unavailable.

<b>Determination of Reporting Requirements</b>	
<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 <b>at least 50 MCF</b> of natural gas vented and/or flared during this event	Yes
Did this vent or flare result in the release of <b>ANY</b> 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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

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

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	69
Nitrogen (N2) percentage, if greater than one percent	3
Hydrogen Sulfide (H2S) PPM, rounded up	950
Carbon Dioxide (CO2) percentage, if greater than one percent	1
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 531863

**QUESTIONS (continued)**

Operator: LARIO OIL & GAS CO 260 N. Josephine St Denver, CO 80206	OGRID: 13089
	Action Number: 531863
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	11/25/2025
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	24

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	<i>Not answered.</i>
Natural Gas Flared (Mcf) Details	Cause: High Line Pressure   Pipeline (Any)   Natural Gas Flared   Released: 95 Mcf   Recovered: 0 Mcf   Lost: 95 Mcf.
Other Released Details	<i>Not answered.</i>
Additional details for Measured or Estimated Volume(s). Please specify	<i>Not answered.</i>
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>Yes, according to supplied volumes this appears to be a "gas only" report.</b>

Venting or Flaring Resulting from Downstream Activity	
Was this vent or flare a result of downstream activity	Yes
Was notification of downstream activity received by this operator	No
Downstream OGRID that should have notified this operator	[215099] Coterra Energy Operating Co.
Date notified of downstream activity requiring this vent or flare	<i>Not answered.</i>
Time notified of downstream activity requiring this vent or flare	<i>Not answered.</i>

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	Sales gas re -routed to flare due to high pressure on midstream sales line.
Steps taken to limit the duration and magnitude of vent or flare	Field staff adjusting setpoints mitigate flare volumes.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Evaluating alternative midstream options and on-site gas use options.





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ACKNOWLEDGMENTS

Action 531863

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	Action Number: 531863
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**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

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**CONDITIONS**

Created By	Condition	Condition Date
ryanb	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.	12/4/2025