



# Certificate of Analysis

Number: 5030-18110072-011A

**Midland Laboratory**  
 3312 Bankhead Highway  
 Midland, TX 79701  
 Phone 432-689-7252

Ethan McMahon  
 Comm Engineering  
 1319 West Pinhook Rd  
 Suite 401  
 Lafayette, LA 70503

Dec. 13, 2018

Station Name: LEA UNIT CTB/TPG  
 Station Location: LEA COUNTY NM  
 Sample Point: HEATER TREATER  
 Analyzed: 11/08/2018 20:32:52 by Administrator

Sampled By: JOSEPH WHITAKER  
 Sample Of: Gas Spot  
 Sample Date: 11/07/2018 07:50  
 Sample Conditions: 35 psig, @ 111 °F  
 Method: GPA 2286

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.65 psia		
Hydrogen Sulfide	0.010	0.013		GPM TOTAL C2+	10.094
Nitrogen	2.745	2.844		GPM TOTAL C3+	6.044
Carbon Dioxide	3.903	6.352		GPM TOTAL iC5+	1.133
Methane	58.216	34.536			
Ethane	15.145	16.841	4.050		
Propane	11.467	18.699	3.159		
Iso-butane	1.474	3.168	0.482		
n-Butane	4.028	8.658	1.270		
Iso-pentane	0.867	2.313	0.317		
n-Pentane	0.904	2.412	0.328		
Hexanes Plus	1.241	4.164	0.488		
	<u>100.000</u>	<u>100.000</u>	<u>10.094</u>		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.9383	3.1036
Calculated Molecular Weight	27.04	89.89
Compressibility Factor	0.9943	
<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	1458	4790
Water Sat. Gas Base BTU	1433	4707

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.



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 Sample Conditions: 35 psig, @ 111 °F  
 Method: GPA 2286

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.65 psia		
Hydrogen Sulfide	0.010	0.013		GPM TOTAL C2+	10.0940
Nitrogen	2.745	2.844		GPM TOTAL C3+	6.0440
Methane	58.216	34.536		GPM TOTAL iC5+	1.1330
Carbon Dioxide	3.903	6.352			
Ethane	15.145	16.841	4.050		
Propane	11.467	18.699	3.159		
Iso-Butane	1.474	3.168	0.482		
n-Butane	4.028	8.658	1.270		
Iso-Pentane	0.867	2.313	0.317		
n-Pentane	0.904	2.412	0.328		
Hexanes	0.515	1.618	0.208		
Heptanes Plus	0.726	2.546	0.280		
	100.000	100.000	10.094		

Calculated Physical Properties	Total	C7+
Relative Density Real Gas	0.9383	3.2292
Calculated Molecular Weight	27.04	93.53
Compressibility Factor	0.9943	
26 # Gasoline	6.0734	
<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	1458.3	4890.1
Water Sat. Gas Base BTU	1432.7	4804.6

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 Analyzed: 11/08/2018 20:32:52 by Administrator

Sampled By: JOSEPH WHITAKER  
 Sample Of: Gas Spot  
 Sample Date: 11/07/2018 07:50  
 Sample Conditions: 35 psig, @ 111 °F  
 Method: GPA 2286

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.65 psia	
Hydrogen Sulfide	0.010	0.013		GPM TOTAL C2+
Nitrogen	2.745	2.844		
Carbon Dioxide	3.903	6.352		
Methane	58.216	34.536		
Ethane	15.145	16.841	4.050	
Propane	11.467	18.699	3.159	
Iso-Butane	1.474	3.168	0.482	
n-Butane	4.028	8.658	1.270	
Iso-Pentane	0.867	2.313	0.317	
n-Pentane	0.904	2.412	0.328	
i-Hexanes	0.333	1.036	0.133	
n-Hexane	0.182	0.582	0.075	
Benzene	0.098	0.282	0.028	
Cyclohexane	0.120	0.371	0.041	
i-Heptanes	0.232	0.782	0.091	
n-Heptane	0.041	0.152	0.019	
Toluene	0.050	0.169	0.017	
i-Octanes	0.123	0.481	0.054	
n-Octane	0.011	0.049	0.006	
Ethylbenzene	0.005	0.017	0.002	
Xylenes	0.012	0.039	0.004	
i-Nonanes	0.014	0.092	0.007	
n-Nonane	0.007	0.031	0.004	
Decane Plus	0.013	0.081	0.007	
	<u>100.000</u>	<u>100.000</u>	<u>10.094</u>	

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	27.04	128.37
<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	1458.3	6644.4
Water Sat. Gas Base BTU	1432.7	6528.1
Relative Density Real Gas	0.9383	4.4420
Compressibility Factor	0.9943	

Hydrocarbon Laboratory Manager

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**New Mexico OCD C-129**  
**Calculations or Specific Justification for Volumes**

- **Calculations**  
No calculations of volume of vent/flare necessary. Volumes are metered.
- **Specific Justification for Volumes**  
Metered volumes that were previously sold via pipeline. Must flare gas due to sales pipeline being shut-in.

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**District III**  
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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 95769

**DEFINITIONS**

Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 95769
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

**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 95769

**QUESTIONS**

Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 95769
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

**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 Operator	[240974] LEGACY RESERVES OPERATING, LP
Incident Type	Flare
Incident Status	Closure Not Approved
Incident Well	Not answered.
Incident Facility	[fAPP2124653228] Lea Unit South
<i>Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.</i>	

<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, major 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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

<b>Equipment Involved</b>	
Primary Equipment Involved	Not answered.
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	58
Nitrogen (N2) percentage, if greater than one percent	3
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	4
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 (continued)**

Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 95769
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	03/26/2022
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	24

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance   Separator   Natural Gas Flared   Released: 3,138 Mcf   Recovered: 0 Mcf   Lost: 3,138 Mcf ]
Other Released Details	Cause:     Other (Specify)   Released: 0 (Unknown Released Amount)   Recovered: 0   Lost: 0 ]
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	Yes
Was notification of downstream activity received by this operator	Yes
Downstream OGRID that should have notified this operator	[24650] TARGA MIDSTREAM SERVICES LLC
Date notified of downstream activity requiring this vent or flare	03/26/2022
Time notified of downstream activity requiring this vent or flare	12:00 AM

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 pipeline shut in.
Steps taken to limit the duration and magnitude of vent or flare	Communicate with sales pipeline for anticipated date of return service.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Communicate with sales pipeline for anticipated date of return service.

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ACKNOWLEDGMENTS

Action 95769

**ACKNOWLEDGMENTS**

Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 95769
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
<input checked="" type="checkbox"/>	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
<input checked="" type="checkbox"/>	I hereby certify the statements in this amending 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 95769

**CONDITIONS**

Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 95769
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

**CONDITIONS**

Created By	Condition	Condition Date
reyesm01	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	4/4/2022