



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+
Nitrogen	2.745	2.844		GPM TOTAL C3+
Carbon Dioxide	3.903	6.352		GPM TOTAL iC5+
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	
	100.000	100.000	10.094	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.9383	3.1036
Calculated Molecular Weight	27.04	89.89
Compressibility Factor	0.9943	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.65 psia & 60°F		
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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Hydrogen Sulfide	0.010	0.013		GPM TOTAL C2+
Nitrogen	2.745	2.844		GPM TOTAL C3+
Methane	58.216	34.536		GPM TOTAL iC5+
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	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.65 psia & 60°F		
Real Gas Dry BTU	1458.3	4890.1
Water Sat. Gas Base BTU	1432.7	4804.6

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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		
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	
	100.000	100.000	10.094	

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	27.04	128.37
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.65 psia & 60°F		
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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Action 242129

DEFINITIONS

Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 242129
	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 242129

QUESTIONS

Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 242129
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 Operator	[240974] LEGACY RESERVES OPERATING, LP
Incident Type	Flare
Incident Status	Closure Not Approved
Incident Well	Unavailable.
Incident Facility	[fAPP2202735715] Lea Unit CTB/TPG BT20445
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.	

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, major 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 within 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	58
Nitrogen (N2) percentage, if greater than one percent	3
Hydrogen Sulfide (H2S) PPM, rounded up	100
Carbon Dioxide (CO2) percentage, if greater than one percent	4
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 242129

QUESTIONS (continued)

Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 242129
	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	07/05/2023
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	11:59 AM
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: High Line Pressure Separator Natural Gas Flared Released: 824 Mcf Recovered: 0 Mcf Lost: 824 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	07/05/2023
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	Targa experienced high line pressure.
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 242129

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Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 242129
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

ACKNOWLEDGMENTS

☒	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.
☒	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.
☒	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.
☒	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.
☒	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 242129

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	Action Number: 242129
	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.	7/19/2023