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		
	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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Station Location:	LEA COUNTY NM	Sample Of:	Gas Spot
Sample Point:	HEATER TREATER	Sample Date:	11/07/2018 07:50
Analyzed:	11/08/2018 20:32:52 by Administrator	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	
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

Hydrocarbon Laboratory Manager

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Station Name:	LEA UNIT CTB/TPG	Sampled By:	JOSEPH WHITAKER
Station Location:	LEA COUNTY NM	Sample Of:	Gas Spot
Sample Point:	HEATER TREATER	Sample Date:	11/07/2018 07:50
Analyzed:	11/08/2018 20:32:52 by Administrator	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	
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

GPM TOTAL C2+ 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

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

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 IV
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

DEFINITIONS

Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 212896
	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 212896

QUESTIONS

Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 212896
	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 addional 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 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	58
Nitrogen (N2) percentage, if greater than one percent	3
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	4
Oxygen (02) 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 (02) 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: 212896
	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	04/14/2023
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	9

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	Cause: Other | Separator | Natural Gas Flared | Released: 515 Mcf | Recovered: 0 Mcf | Lost: 515 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	04/14/2023
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 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

Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 212896
	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 212896

CONDITIONS

Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 212896
	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.	5/2/2023