



Certificate of Analysis

Number: 5030-18110072-013A

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: HAMON FED TRAIN 2
 Station Location: LEA COUNTY NM
 Sample Point: METER TUBE
 Cylinder No: 5030-00357
 Analyzed: 11/08/2018 21:33:14 by DS

Sampled By: JOSEPH WHITAKER
 Sample Of: Gas Spot
 Sample Date: 11/07/2018 08:40
 Sample Conditions: 99.4 psig, @ 76.8 °F
 Method: GPA 2286

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.65 psia	
Hydrogen Sulfide	0.002	0.274		GPM TOTAL C2+
Nitrogen	3.719	4.183		GPM TOTAL C3+
Carbon Dioxide	10.905	19.268		GPM TOTAL iC5+
Methane	64.950	41.832		
Ethane	10.180	12.289	2.718	
Propane	5.589	9.894	1.537	
Iso-butane	0.683	1.594	0.223	
n-Butane	1.803	4.207	0.567	
Iso-pentane	0.496	1.437	0.181	
n-Pentane	0.555	1.608	0.200	
Hexanes Plus	0.920	3.414	0.368	
	100.000	100.000	5.794	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8629	3.1549
Calculated Molecular Weight	24.91	91.38
Compressibility Factor	0.9959	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.65 psia & 60°F		
Real Gas Dry BTU	1147	4858
Water Sat. Gas Base BTU	1127	4773

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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Analytical Data

Components	Mol. %	Wt. %	GPM at 14.65 psia		
Hydrogen Sulfide	0.002	0.274		GPM TOTAL C2+	5.7940
Nitrogen	3.719	4.183		GPM TOTAL C3+	3.0760
Methane	64.950	41.832		GPM TOTAL iC5+	0.7490
Carbon Dioxide	10.905	19.268			
Ethane	10.180	12.289	2.718		
Propane	5.589	9.894	1.537		
Iso-Butane	0.683	1.594	0.223		
n-Butane	1.803	4.207	0.567		
Iso-Pentane	0.496	1.437	0.181		
n-Pentane	0.555	1.608	0.200		
Hexanes	0.366	1.258	0.150		
Heptanes Plus	0.554	2.156	0.218		
	100.000	100.000	5.794		

Calculated Physical Properties	Total	C7+
Relative Density Real Gas	0.8629	3.3012
Calculated Molecular Weight	24.91	95.61
Compressibility Factor	0.9959	
26 # Gasoline	3.5374	

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.65 psia & 60°F

Real Gas Dry BTU	1147.1	4986.3
Water Sat. Gas Base BTU	1127.0	4899.1

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 Sample Date: 11/07/2018 08:40
 Sample Conditions: 99.4 psig, @ 76.8 °F
 Method: GPA 2286

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.65 psia	
Hydrogen Sulfide	0.002	0.274		GPM TOTAL C2+ 5.794
Nitrogen	3.719	4.183		
Carbon Dioxide	10.905	19.268		
Methane	64.950	41.832		
Ethane	10.180	12.289	2.718	
Propane	5.589	9.894	1.537	
Iso-Butane	0.683	1.594	0.223	
n-Butane	1.803	4.207	0.567	
Iso-Pentane	0.496	1.437	0.181	
n-Pentane	0.555	1.608	0.200	
i-Hexanes	0.228	0.775	0.092	
n-Hexane	0.138	0.483	0.058	
Benzene	0.060	0.189	0.017	
Cyclohexane	0.073	0.250	0.025	
i-Heptanes	0.152	0.562	0.061	
n-Heptane	0.038	0.155	0.018	
Toluene	0.064	0.237	0.022	
i-Octanes	0.092	0.392	0.041	
n-Octane	0.013	0.059	0.007	
Ethylbenzene	0.009	0.038	0.004	
Xylenes	0.015	0.065	0.006	
i-Nonanes	0.020	0.095	0.009	
n-Nonane	0.004	0.023	0.002	
Decane Plus	0.014	0.091	0.006	
	100.000	100.000	5.794	

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	24.91	133.69
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.65 psia & 60°F		
Real Gas Dry BTU	1147.1	6954.0
Water Sat. Gas Base BTU	1127.0	6832.3
Relative Density Real Gas	0.8629	4.6181
Compressibility Factor	0.9959	

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 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

Action 84537

DEFINITIONS

Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 84537
	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 84537

QUESTIONS

Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 84537
	Action Type: [C-129] Venting and/or Flaring (C-129)

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 Well	Not answered.
Incident Facility	[fAPP2202735080] Hamon Fed Com South Battery BT20447

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, 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

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	65
Nitrogen (N2) percentage, if greater than one percent	4
Hydrogen Sulfide (H2S) PPM, rounded up	20
Carbon Dioxide (CO2) percentage, if greater than one percent	11
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 84537

QUESTIONS (continued)

Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 84537
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/12/2022
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	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance Separator Natural Gas Flared Released: 250 Mcf Recovered: 0 Mcf Lost: 250 Mcf]
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	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	02/12/2022
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 with anticipated date of return service.

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ACKNOWLEDGMENTS

Action 84537

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Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 84537
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☒	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 complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
☒	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.
☒	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.
☒	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

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	Action Number: 84537
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
reyesm01	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.	2/27/2022