



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 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		5.794
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	

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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.

District I

1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
 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

QUESTIONS

Action 51354

QUESTIONS

Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 51354
	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	[fAPP2126433978] Hamon Federal Com

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 or is this venting and/or flaring caused by an emergency or malfunction	Yes
Did or will this venting and/or flaring last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a venting and/or flaring 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 or will there be at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this venting and/or flaring 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 venting and/or flaring 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.

Date(s) and Time(s)

Date venting and/or flaring was discovered or commenced	09/20/2021
Time venting and/or flaring was discovered or commenced	12:00 AM
Time venting and/or flaring 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.
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Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance Separator Natural Gas Flared Released: 450 Mcf Recovered: 0 Mcf Lost: 450 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 or is this venting and/or flaring a result of downstream activity	Yes
Was notification of downstream activity received by you or your operator	Yes
Downstream OGRID that should have notified you or your operator	[24650] TARGA MIDSTREAM SERVICES LLC
Date notified of downstream activity requiring this venting and/or flaring	09/20/2021
Time notified of downstream activity requiring this venting and/or flaring	12:00 AM

Steps and Actions to Prevent Waste

For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	True
Please explain reason for why this event was beyond your operator's control	Sales Pipeline shut in.
Steps taken to limit the duration and magnitude of venting and/or flaring	Communicate with sales pipeline for anticipated date of return service.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	Communicate with sales pipeline for anticipated date of return service.

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CONDITIONS

Action 51354

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	Action Number: 51354
	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.	9/23/2021