

Certificate of Analysis

Number: 5030-18110072-011A

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

Dec. 13, 2018

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

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 Nitrogen Carbon Dioxide Methane Ethane Propane Iso-butane n-Butane Iso-pentane n-Pentane Hexanes Plus	0.010 2.745 3.903 58.216 15.145 11.467 1.474 4.028 0.867 0.904 1.241	0.013 2.844 6.352 34.536 16.841 18.699 3.168 8.658 2.313 2.412 4.164	4.050 3.159 0.482 1.270 0.317 0.328 0.488 10.094	GPM TOTAL C2+ GPM TOTAL C3+ GPM TOTAL iC5+	10.094 6.044 1.133	
Relative Density Re- Calculated Molecula Compressibility Fact GPA 2172 Calculat Calculated Gross E Real Gas Dry BTU	Calculated Physical Properties Relative Density Real Gas Calculated Molecular Weight Compressibility Factor GPA 2172 Calculation: Calculated Gross BTU per ft³ @ Real Gas Dry BTU Water Sat. Gas Base BTU		Total 0.9383 27.04 0.9943 a & 60°F 1458 1433	C6+ 3.1036 89.89 4790 4707		

Hydrocarbon Laboratory Manager

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

Quality Assurance:



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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 F	Properties		Total	C7+		
Relative Density Real	Gas		0.9383	3.2292		
Calculated Molecular V	Neight		27.04	93.53		
Compressibility Factor	Compressibility Factor		0.9943			
26 # Gasoline			6.0734			
GPA 2172 Calculation:						
Calculated Gross BT	Calculated Gross BTU per ft ³ @ 14		a & 60°F			
Real Gas Dry BTU	Real Gas Dry BTU		1458.3	4890.1		
Water Sat. Gas Base E	3TU		1432.7	4804.6		

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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 Calculati						
	Calculated Gross BTU per ft ³ @ 14.65 ps					
Real Gas Dry BTU			1458.3	6644.4		
Water Sat. Gas Base			1432.7	6528.1		
Relative Density Rea			0.9383	4.4420		
Compressibility Fact	tor		0.9943			

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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.

<u>District I</u> 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 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 31737

QUESTIONS

Operator:	OGRID:
LEGACY RESERVES OPERATING, LP	240974
15 Smith Road	Action Number:
Midland, TX 79705	31737
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

QUESTIONS

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 or is this venting or flaring caused by an emergency or malfunction	No			
Did or will this venting 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 notification of a major venting or flaring	Yes, major venting or flaring of natural gas.			
The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during venting or flaring that is or may be a major or minor release under				
Was there or will there be at least 50 MCF of natural gas vented or flared during this event	Yes			
Did this venting 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			

Unregistered Facility Site			
Please provide the facility details, if the venting or flaring occurred or is occuring at a facility that does not have an Facility ID (f#) yet.			
Facility or Site Name	Not answered.		
Facility Type	Not answered.		

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	90			
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.			

Date(s) and Time(s)	
Date venting or flaring was discovered or commenced	06/13/2021
Time venting or flaring was discovered or commenced	01:00 PM
Is the venting or flaring event complete	No
Date venting or flaring was terminated	Not answered.
Time venting or flaring was terminated	Not answered.
Total duration of venting or flaring in hours, if venting or flaring has terminated	Not answered.
Longest duration of cumulative hours within any 24-hour period 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 Spilled: 3,500 Mcf Recovered: 0 Mcf Lost: 3,500 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 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 or flaring a result of downstream activity	Not answered.		
Date notified of downstream activity requiring this venting or flaring	Not answered.		
Time notified of downstream activity requiring this venting or flaring Not answered.			

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 or flaring	Communicate with sales pipeline for anticipated date of return service.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Communicate with sales pipeline for anticipated date of return service.

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CONDITIONS

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15 Smith Road	Action Number:
Midland, TX 79705	31737
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
system	If the information provided in this report requires an amendment, submit a [C-129] Request to Amend Venting and/or Flaring Incident, utilizing your incident number from this event.	6/14/2021