

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: Sample Date: Gas Spot

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+	with the state	
Relative Density Rea	l Gas		0.9383	3.1036		
Calculated Molecular Weight			27.04	89.89		
Compressibility Factor		0.9943				
GPA 2172 Calculati	on:					
Calculated Gross B	TU per ft³ @	14.65 psia	a & 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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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		Total	C7+			
Relative Density Rea	al Gas		0.9383	3,2292		
Calculated Molecula			27.04	93.53		
_			0.9943			
26 # Gasoline		6.0734				
GPA 2172 Calculation:						
Calculated Gross B	TU per ft³ @	14.65 psia	& 60°F			
Real Gas Dry BTU			1458.3	4890.1		
Water Sat. Gas Base	e BTU		1432.7	4804.6		

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Sampled By: Sample Of:

JOSEPH WHITAKER

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				
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	1700 - 0.00 v200		
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		Total	C10+			
			27.04	128.37		
GPA 2172 Calculati	on:					
Calculated Gross B	TU per ft ³ @	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		

Hydrocarbon Laboratory Manager

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Quality Assurance:

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 46442

QI	JESTIONS	
Operator: LEGACY RESERVES OPERATING, LP		OGRID: 240974
15 Smith Road		Action Number:
Midland, TX 79705		46442 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 t	hese issues before continuing with	h the rest of the questions.
Incident Well	Not answered.	
Incident Facility	[fAPP2124653228] Lea Uni	it South
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers an		·
Was or is this venting and/or flaring caused by an emergency or malfunction Did or will this venting and/or flaring last eight hours or more cumulatively within	Yes	
any 24-hour period from a single event	Yes	
Is this considered a submission for a notification of a major venting and/or flaring	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 ve	enting 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	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 speci	fications 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 and/or flaring was discovered or commenced	08/11/2021	
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	

Not answered.

Natural Gas Vented (Mcf) Details

Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance Separator Natural Gas Flared Released: 6,090 Mcf Recovered: 0 Mcf Lost: 6,090 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			
Date notified of downstream activity requiring this venting and/or flaring	08/11/2021			
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 46442

CONDITIONS

Operator:	OGRID:
LEGACY RESERVES OPERATING, LP	240974
15 Smith Road	Action Number:
Midland, TX 79705	46442
	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.	9/3/2021