

Certificate of Analysis

Number: 5030-18110072-014A

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: SNAKE ST Station Location: EDDY COUNTY NM Sample Point: METER TUBE Cylinder No: 5030-00375

Analyzed: 11/08/2018 21:33:14 by DS

Sampled By: JOSEPH WHITAKER Sample Of: Gas Spot Sample Date: 11/07/2018 11:55 Sample Conditions: 38.5 psig, @ 58.3 °F

Method: GPA 2286

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.65 psia			
Hydrogen Sulfide	0.000	0.000		GPM TOTAL C2+	3.276	
Nitrogen	1.085	1.593		GPM TOTAL C3+	1.557	
Carbon Dioxide	0.013	0.030		GPM TOTAL iC5+	0.411	
Methane	87.442	73.520				
Ethane	6.443	10.154	1.719			
Propane	2.674	6.180	0.735			
Iso-butane	0.446	1.359	0.146			
n-Butane	0.842	2.565	0.265			
Iso-pentane	0.263	0.994	0.096			
n-Pentane	0.257	0.972	0.093			
Hexanes Plus	0.535	2.633	0.222			
	100.000	100.000	3.276			
Calculated Physica	l Properties		Total	C6+		
Relative Density Rea	l Gas		0.6604	3.2275		
Calculated Molecular Weight			19.08	93.48		
Compressibility Factor			0.9971			
GPA 2172 Calculati	on:					
Calculated Gross B	TU per ft ³ @	14.65 psi	a & 60°F			
Real Gas Dry BTU	•	•	1154	5029		
Water Sat. Gas Base	BTU		1134	4941		

Hydrocarbon Laboratory Manager

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

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Quality Assurance:



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Hydrogen Sulfide Nitrogen Methane Carbon Dioxide Ethane Propane Iso-Butane n-Butane Iso-Pentane n-Pentane Hexanes Heptanes Plus	0.000 1.085 87.442 0.013 6.443 2.674 0.446 0.842 0.263 0.257 0.211 0.324	0.000 1.593 73.520 0.030 10.154 6.180 1.359 2.565 0.994 0.972 0.989 1.644	1.719 0.735 0.146 0.265 0.096 0.093 0.090 0.132 3.276	GPM TOTAL C2+ GPM TOTAL C3+ GPM TOTAL iC5+	3.2760 1.5570 0.4110	
Relative Density Re Calculated Molecula Compressibility Fact 26 # Gasoline GPA 2172 Calculat Calculated Gross E Real Gas Dry BTU	GPA 2172 Calculation: Calculated Gross BTU per ft ³ @ 14		Total 0.6604 19.08 0.9971 2.2271 a & 60°F 1153.9 1133.7	C7+ 3.4253 99.21 5271.4 5179.2		

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n-Butane	0.842	2.565	0.265			
Iso-Pentane	0.263	0.994	0.096			
n-Pentane	0.257	0.972	0.093			
i-Hexanes	0.126	0.585	0.053			
n-Hexane	0.085	0.404	0.037			
Benzene	0.008	0.030	0.002			
Cyclohexane	0.046	0.210	0.016			
i-Heptanes	0.094	0.468	0.039			
n-Heptane	0.031	0.165	0.015			
Toluene	0.009	0.044	0.003			
i-Octanes	0.079	0.436	0.035			
n-Octane	0.011	0.064	0.005			
Ethylbenzene	0.001	0.005	0.000			
Xylenes	0.005	0.027	0.002			
i-Nonanes	0.016	0.075	0.006			
n-Nonane	0.004	0.022	0.002			
Decane Plus	0.020	0.098	0.007			
	100.000	100.000	3.276			
Calculated Physica	I Properties		Total	C10+		
Calculated Molecula	•		19.08	134.41		
GPA 2172 Calculat						
Calculated Gross E	BTU per ft³ @	2 14.65 psi				
Real Gas Dry BTU			1153.9	6996.5		
Water Sat. Gas Bas			1133.7	6874.1		
Relative Density Rea	al Gas		0.6604	4.6312		
Compressibility Fact	or		0.9971			

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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 46450

Q	UESTIONS	
Operator:		OGRID:
LEGACY RESERVES OPERATING, LP 15 Smith Road		240974 Action Number:
Midland, TX 79705		46450
		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 wit	th the rest of the questions.
Incident Well	Not answered.	
Incident Facility	[fAPP2124631913] Leo 3 Fed	
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers at	nd may provide addional guidance T	
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 notification of a major venting and/or flaring	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 v	renting 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	Yes	·
during this event		
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	No.	
surface, a watercourse, or otherwise, with reasonable probability, endanger public	No	
health, the environment or fresh water		
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.	1	
Methane (CH4) percentage	87	
Nitrogen (N2) percentage, if greater than one percent	1	
Hydrogen Sulfide (H2S) PPM, rounded up	0	
Carbon Dioxide (C02) percentage, if greater than one percent	0	
Oxygen (02) percentage, if greater than one percent	0	
If you are venting and/or flaring because of Pipeline Specification, please provide the required spec	ifications 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	08/21/2021	
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		

Not answered.

Natural Gas Vented (Mcf) Details

Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance Separator Natural Gas Flared Released: 90 Mcf Recovered: 0 Mcf Lost: 90 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	08/21/2021
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 of service.	

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CONDITIONS

Action 46450

CONDITIONS

Operator:	OGRID:
LEGACY RESERVES OPERATING, LP	240974
15 Smith Road	Action Number:
Midland, TX 79705	46450
	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