Midland Laboratory
2200 East I-20
Midland, TX 79706
Phone 432-689-7252

Certificate of Analysis

Number: 5030-22090049-001A

Sep. 15, 2022

Samanntha Avarello
MorningStar Partners LLC/Cross Timbers Energy LLC
400 W 7th St
Fort Worth, TX 76102

Station Name:	VACUUM DRINKARD CONSOLIDATED TANK BAT	Sampled By:	RONNIE RICHARD
Method:	GPA 2286	Sample Of:	Gas Spot
Cylinder No:	5030-03545	Sample Date:	08/31/2022 10:50
Analyzed:	09/07/2022 08:20:55 by MGN	Sample Conditions:	17.8 psig, @ 75 °F

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia		
Hydrogen Sulfide	0.000	0.000		GPM TOTAL C2+	0.526
Carbon Dioxide	0.002	0.005			
Nitrogen	2.838	4.770			
Methane	95.191	91.632			
Ethane	1.949	3.517	0.521		
Propane	0.014	0.037	0.004		
Iso-Butane	0.000	0.000	0.000		
n-Butane	0.000	0.000	0.000		
Iso-Pentane	0.000	0.000	0.000		
n-Pentane	0.000	0.000	0.000		
Cyclopentane	0.000	0.000	0.000		
n-Hexane	0.000	0.002	0.000		
Cyclohexane	0.003	0.004	0.000		
Other Hexanes	0.000	0.002	0.000		
Heptanes	0.000	0.005	0.000		
Methylcyclohexane	0.000	0.001	0.000		
2,2,4-Trimethylpentane	0.000	0.000	0.000		
Benzene	0.000	0.002	0.000		
Toluene	0.003	0.004	0.000		
Ethylbenzene	0.000	0.001	0.000		
Xylenes	0.000	0.003	0.000		
Octanes Plus	0.000	0.015	0.001		
	100.000	100.000	0.526		

Calculated Physical Properties	Total	C8+
Relative Density Real Gas	0.5763	4.3237
Calculated Molecular Weight	16.67	125.23
Compressibility Factor	0.9980	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	998.6	6547.4
Water Sat. Gas Base BTU	981.2	6420.3

Comments: H2S Field Content 0 ppm

Data reviewed by: Marco Barrientos

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

VACUUM DRINKARD BTY

MTD Avg Gas – Prod Gas = Vented Gas/ Day

05/07/23 = 108

Pressure Base Conversion

14.65/15.025 = .9750415

108 *.9750415 = 1**05 mcf Vented**

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DEFINITIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 220800
	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 220800

QUESTIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 220800
	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	*Unavailable.*
Incident Facility	**[fAB1915155171] Vacuum Drinkard Consolidated Tank Battery**

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 this vent or flare caused by an emergency or malfunction	No
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	Other (Specify)
Additional details for Equipment Involved. Please specify	FLARE

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	95
Nitrogen (N2) percentage, if greater than one percent	3
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 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.*

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QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	05/07/2023
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	11:59 PM
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 Scheduled Maintenance | Other (Specify) | Natural Gas Flared | Released: 105 Mcf | Recovered: 0 Mcf | Lost: 105 Mcf.
Other Released Details	*Not answered.*
Additional details for Measured or Estimated Volume(s). Please specify	FLARE
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	[159160] VERSADO GAS PROCESSORS,LLC
Date notified of downstream activity requiring this vent or flare	04/17/2023
Time notified of downstream activity requiring this vent or flare	11:34 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	DUE TO TARGA MONUMENT PLANT TURNAROUND
Steps taken to limit the duration and magnitude of vent or flare	DURATION AND MAGNITUDE OUT OF OUR CONTROL DUE TO TARGA PLANT TURNAROUND
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	EVENT DUE TO PLANT TARGA PLANT TURNAROUND

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ACKNOWLEDGMENTS

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

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit a *Venting and/or Flaring* (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

Action 220800

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	Action Number: 220800
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CONDITIONS

Created By	Condition	Condition Date
savarello	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.	5/25/2023