



# Certificate of Analysis

Number: 5030-22090049-001A

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

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

Sep. 15, 2022

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	
<b>GPA 2172 Calculation:</b>		
<b>Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia &amp; 60°F</b>		
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**

05/06/23 = 106

**Pressure Base Conversion**

14.65/15.025 = .9750415

106 \*.9750415 = 103 mcf Vented

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DEFINITIONS

Action 220337

**DEFINITIONS**

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 220337
	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

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**QUESTIONS**

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**QUESTIONS**

<b>Prerequisites</b>	
<i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Well	Unavailable.
Incident Facility	[fAB1915155171] Vacuum Drinkard Consolidated Tank Battery

<b>Determination of Reporting Requirements</b>	
<i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
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.
<i>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.</i>	
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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

<b>Equipment Involved</b>	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	FLARE

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	95
Nitrogen (N2) percentage, if greater than one percent	3
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	0
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
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.

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**QUESTIONS (continued)**

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**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	05/06/2023
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: 103 Mcf   Recovered: 0 Mcf   Lost: 103 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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**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a <b>complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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

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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