



Certificate of Analysis

Number: 5030-22090053-001A

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. 14, 2022

Station Name: CENTRAL VACUUM UNIT BATTERY

Method: GPA 2286

Cylinder No: 5030-02288

Analyzed: 09/06/2022 19:39:57 by DMA

Sampled By: RONNIE RICHARD

Sample Of: Gas Spot

Sample Date: 08/31/2022 12:35

Sample Conditions: 132.2 psig, @ 97.4 °F

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.000	0.000		GPM TOTAL C2+
Carbon Dioxide	87.589	87.095		3.122
Nitrogen	0.376	0.238		
Methane	1.953	0.708		
Ethane	2.731	1.855	0.734	
Propane	2.725	2.715	0.754	
Iso-Butane	0.531	0.697	0.175	
n-Butane	1.599	2.100	0.506	
Iso-Pentane	0.566	0.923	0.208	
n-Pentane	0.610	0.994	0.222	
Cyclopentane	0.047	0.075	0.014	
n-Hexane	0.213	0.409	0.087	
Cyclohexane	0.134	0.256	0.046	
Other Hexanes	0.348	0.680	0.145	
Heptanes	0.316	0.665	0.130	
Methylcyclohexane	0.066	0.147	0.027	
2,2,4-Trimethylpentane	0.002	0.006	0.001	
Benzene	0.067	0.120	0.019	
Toluene	0.051	0.106	0.017	
Ethylbenzene	0.005	0.013	0.002	
Xylenes	0.005	0.010	0.002	
Octanes Plus	0.066	0.188	0.033	
	100.000	100.000	3.122	

Calculated Physical Properties

	Total	C8+
Relative Density Real Gas	1.5378	3.5192
Calculated Molecular Weight	44.26	101.92
Compressibility Factor	0.9932	

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.696 psia & 60°F

Real Gas Dry BTU	318.4	5336.0
Water Sat. Gas Base BTU	312.9	5207.0

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.



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Cylinder No: 5030-02288

Sampled By: RONNIE RICHARD
Sample Of: Gas Spot
Sample Date: 08/31/2022 12:35

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-4810	ND	ppm		RJR	08/31/2022

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.

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SPL, Inc.
Analysis Request Chain of Custody Record

		SPL Work Order No.: 22090053		Acct. Mate Code:		Dept. Code:		Page 1		Pages 1					
		Report To: (Company Name): Cross Timbers Energy		Project/Station Name:		Project/Station Number:		Project/Station Location:		Requested TAT					
Address: PO Box 300		City/State/Zip: Whiteface TX 79379		Special Instructions: put each sample on a separate work order						7 business days					
Contact: Samanntha Avarello Phone: 817-334-7747		savarello@mspartners.com		Indicate Billing Type: (Place "X", where appropriate)		Net 30 day Acct. Credit Card		Check # <<<Contact SPL, Inc for CC payment arrangements.							
Invoice To: (Company Name): Cross Timbers Energy		Address: PO Box 300		* Terms: Cylinders will be rented for \$10/cyl. All cylinders checked out are to be returned within 21 days, whether they contain sample or not. Cylinders not returned after 30 days will be considered lost and will be billed at current replacement cost.		Requested Analysis (Place an "X" next to Sample ID below)						* Surcharges May Apply (See quote for details)			
City/State/Zip: Whiteface TX 79376		Contact: Samanntha Avarello Phone: 817-334-7747													
Client PO# or Ref. No.: N/A		Contract/Proposal #: (i.e. SPLC####)													
Sample ID (used to log/track sample)		Sample Date	Sample Time	Sample Type (Gas/Liq./Solid)	Duplicate	Composite	Spot	Cylinder Tracking Info [†]			Sample Pressure (PSIG / PSIA)	Sample Temp	Comments		
							Cylinder #	Date Out	Date In						
Vacuum Drinkard Consolidated Tank Battery	08/31/22	11:07	LIQ			X	35				X		17.8	75	
Vacuum Drinkard Consolidated Tank Battery	08/31/22	10:50	GAS			X	3545				X	X	17.8	75	
Central Vacuum Unit Battery	08/31/22		LIQ			X					X				WATER IN OIL NO SAMPLE
Central Vacuum Unit Battery	08/31/22	12:35	GAS			X	2288				X	X	132.2	97.4	
VGWU PRODUCTION AND INJECTION SYSTEM BATTERY	08/31/22	1:11	LIQ			X	2057				X		35	90.2	
VGWU PRODUCTION AND INJECTION SYSTEM BATTERY	08/31/22	1:05	GAS			X	5508				X	X	40	90.2	
N O Q BA Central Tank Battery	08/31/22		LIQ			X					X				SHUT IN
N O Q BA Central Tank Battery	08/31/22		GAS			X					X	X			SHUT IN
North Vacuum ABO West Unit	08/31/22	1:55	LIQ			X	33780				X		38	72	
North Vacuum ABO West Unit	08/31/22	1:52	GAS			X	4310				X	X	34.4	73	
State D E	08/31/22	11:58	LIQ			X	340				X		30	73	
State D E	08/31/22	11:55	GAS			X	8453				X	X	35	73	
Sampled By-Print Name:		RONNIE RICHARD/ BOBBY PENA								Received By-Company:					
Signature:															
Relinquished By-Print Name:		RONNIE RICHARD		8/31/2022		7:45 PM		Received By-Print Name:		Keelin KS		Date: 8/31		Time: 19:45	
Signature:								Signature:							
Relinquished By-Print Name:				Date:		Time:		Received By-Print Name:				Date:		Time:	
Signature:								Signature:							
Relinquished By-Print Name:				Date:		Time:		Received By-Print Name:				Date:		Time:	
Signature:								Signature:							
Choose SPL Facility>>>				Ship to Address: 2200 East I-20, Midland TX 79706				Phone: 432-689-7252							

Note - As a convenience to our clients, this form is available in an electronic format. Please contact one of our offices above for the form to be e-mailed to you.

CVU BTY

VolMCF/HoursFlowed = Flared Gas/ Day

03/21/2025 = 19,232

Applicable Natural Gas Flared

CO2 87.589%

Total MCF - CO2

100 - 87.58 = 12.41

19,232 * .1241 = **2,387 mcf**

Pressure Base Conversion

**2,387 * .9750415 = 2,327 MCF
Flared**

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Action 451515

DEFINITIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 451515
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 451515

QUESTIONS

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	Action Number: 451515
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

Prerequisites	
<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 ID (n#)	Unavailable.
Incident Name	Unavailable.
Incident Type	Flare
Incident Status	Unavailable.
Incident Facility	[FPAC0614330614] CVU Tank Battery (CVU TB) and Injection System
<i>Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.</i>	

Determination of Reporting Requirements	
<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	Yes
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, major 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

Equipment Involved	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	FLARE

Representative Compositional Analysis of Vented or Flared Natural Gas	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	2
Nitrogen (N2) percentage, if greater than one percent	0
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	88
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, Page 2

Action 451515

QUESTIONS (continued)

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	Action Number: 451515
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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	03/21/2025
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 Emergency Maintenance Other (Specify) Natural Gas Flared Released: 2,327 Mcf Recovered: 0 Mcf Lost: 2,327 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	[706273] El Paso Natural Gas Company, L.L. C
Date notified of downstream activity requiring this vent or flare	03/18/2025
Time notified of downstream activity requiring this vent or flare	01:11 PM

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	EPNG line number 3051 anomaly requiring repair
Steps taken to limit the duration and magnitude of vent or flare	SI where possible or bypass flow
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	EPNG to repair line number 3051

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ACKNOWLEDGMENTS

Action 451515

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

ACKNOWLEDGMENTS

☒	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
☒	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
☒	I hereby certify the statements in this amending 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

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CONDITIONS

Created By	Condition	Condition Date
savarello	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	4/14/2025