

Sample Point Code

	1):/:	u(0)	<b>YSERVICES</b>
			Natural Gas Analysis

11806G 230025001

Buckeye CO2 Plant VGSAU Inlet

Sample Point Name Sample Point Location

Laboratory Services		2023074371	188 <del>4</del>		O DIAZ - Spot	
Source Laboratory		Lab File No	Container Identity		Sampler	
USA		USA	USA		New Mexico	
District		Area Name	Field Name		Facility Name	
Aug 23, 2023 12:08		Aug 23, 2023 12:08	Aug 25	, 2023 09:57	Aug 25, 2023	
Date Sampled		Date Effective	Date	e Received	Date Reported	
86.00		Admin	134 @ 85			
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	Press PSI @ Temp °F Source Conditions			
Morningstar					NG	
Operator					Lab Source Description	

Component	Mol %	GPM
H2S (H2S)	0.4000	
Nitrogen (N2)	2.2010	
Oxygen (O2)		
CO2 (CO2)	82.3490	
Methane (C1)	6.7110	
Ethane (C2)	3.8200	1.0210
Propane (C3)	1.9030	0.5240
I-Butane (IC4)	0.2960	0.0970
N-Butane (NC4)	0.8390	0.2640
I-Pentane (IC5)	0.2920	0.1070
N-Pentane (NC5)	0.3040	0.1100
Hexanes Plus (C6+)	0.8850	0.3840
TOTAL	100.0000	2.5070

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

Gross I	Gross Heating Values (Real, BTU/ft³)					
14.696 PSI @ 60.0	00 °F	14.73 P	SI @ 60.00 °F			
Dry	Saturated	Dry	Saturated			
293.1	289.000	293.8	289.7			
Calcul	Calculated Total Sample Properties					
GPA21	45-16 *Calculated at	Contract Condition	ns			
Relative Density Real Relative Density Ideal			e Density Ideal			
1.4575		1	.4493			
Molecular Weight						
41.9731						
C6+ Group Properties						
	Assumed Composition					
C6 - 60.000%	C7 - 30.00	0% C	8 - 10.000%			
Field H2S						
4000 PPM						

PROTREND STATUS:

**VALIDATOR COMMENTS:** 

DATA SOURCE:

Imported

Passed By Validator on Aug 28, 2023

PASSED BY VALIDATOR REASON:

Close enough to be considered reasonable.

VALIDATOR:

Rush

OK

Notes Source Date

# **VGSAU P2 SATELLITE BTY**

VolMCF/HoursFlowed = Flared Gas/ Day

09/06/2023 = 9,605

## **Applicable Natural Gas Flared**

CO2 82.3490%

100 - 82.3490 = 17.66

Total MCF - CO2

9,605 \*.1766 = **1696 mcf** 

**Pressure Base Conversion** 

1696 \* .9750415 = 1653 MCF Flared

District I
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** 

DEFINITIONS

Action 269620

#### **DEFINITIONS**

Operator:	OGRID:
MorningStar Operating LLC	330132
400 W 7th St	Action Number:
Fort Worth, TX 76102	269620
	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.

District I
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 269620

### **QUESTIONS**

Operator:	OGRID:
MorningStar Operating LLC	330132
400 W 7th St	Action Number:
Fort Worth, TX 76102	269620
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)
QUESTIONS	•

Prerequisites				
Any messages presented in this section, will prevent submission of this application. Please resolve ti	hese issues before continuing with the rest of the questions.			
Incident Operator	[330132] MorningStar Operating LLC			
Incident Type	Flare			
Incident Status	Closure Not Approved			
Incident Well	Unavailable.			
Incident Facility	[fAPP2133453800] VGSAU P2 Satellite			
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.				

<u></u>			
Determination of Reporting Requirements			
Answer all questions that apply. The Reason(s) statements are calculated based on your answers ar	nd may provide addional guidance.		
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.		
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 <b>ANY</b> 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	Gas Plant		
Additional details for Equipment Involved. Please specify	Flare due to Buckeye CO2 Plant power surge resulting in control system server failure		

Representative Compositional Analysis of Vented or Flared Natural Gas				
Please provide the mole percent for the percentage questions in this group.				
Methane (CH4) percentage	7			
Nitrogen (N2) percentage, if greater than one percent	2			
Hydrogen Sulfide (H2S) PPM, rounded up	0			
Carbon Dioxide (C02) percentage, if greater than one percent	82			
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.			

District I
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, Page 2

Action 269620

QUEST	/	۱۱ ۱
	ICONTI	niieni

Operator:	OGRID:
MorningStar Operating LLC	330132
400 W 7th St	Action Number:
Fort Worth, TX 76102	269620
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

#### QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	09/06/2023
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: Other   Other (Specify)   Natural Gas Flared   Released: 1,653 Mcf   Recovered: 0 Mcf   Lost: 1,653 Mcf.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Flare due to Buckeye CO2 Plant power surge resulting in control system server failure
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	No
Was notification of downstream activity received by this operator	Not answered.
Downstream OGRID that should have notified this operator	Not answered.
Date notified of downstream activity requiring this vent or flare	
Time notified of downstream activity requiring this vent or flare	Not answered.

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	Flare due to Buckeye CO2 Plant power surge resulting in control system server failure
Steps taken to limit the duration and magnitude of vent or flare	Shut in where possible
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Buckeye CO2 Plant control system server repaired

District I
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**

ACKNOWLEDGMENTS

Action 269620

### **ACKNOWLEDGMENTS**

Operator:	OGRID:
MorningStar Operating LLC	330132
400 W 7th St	Action Number:
Fort Worth, TX 76102	269620
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

### **ACKNOWLEDGMENTS**

V	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.
V	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.
V	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.
V	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.
V	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.

District I
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** 

CONDITIONS

Action 269620

### **CONDITIONS**

We was a man a well	
Operator:	OGRID:
MorningStar Operating LLC	330132
400 W 7th St	Action Number:
Fort Worth, TX 76102	269620
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

### CONDITIONS

Created By		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.	9/27/2023