



Certificate of Analysis

Number: 6030-22080366-008A

Artesia Laboratory

200 E Main St.
Artesia, NM 88210
Phone 575-746-3481Brent White
Contango
5847 San Felipe, Suite 3000
Houston, TX 77057

Aug. 25, 2022

Station Name: Southern Union State CDP
Station Location: Contango
Sample Point: Meter
Instrument: 6030_GC6 (Inficon GC-3000 Micro)
Last Inst. Cal.: 08/22/2022 0:00 AM
Analyzed: 08/25/2022 10:15:11 by KNFSampled By: Gene Rogers
Sample Of: Gas Spot
Sample Date: 08/24/2022
Sample Conditions: 59 psig
Effective Date: 08/24/2022
Method: GPA-2261M
Cylinder No: 5030-00730

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.70000	0.908		GPM TOTAL C2+	7.220
Nitrogen	17.559	17.47413	18.640		GPM TOTAL C3+	3.880
Methane	53.361	53.10320	32.440		GPM TOTAL iC5+	1.330
Carbon Dioxide	4.238	4.21794	7.069			
Ethane	12.501	12.44055	14.244	3.340		
Propane	6.158	6.12857	10.291	1.695		
Iso-butane	0.740	0.73653	1.630	0.242		
n-Butane	1.947	1.93720	4.287	0.613		
Iso-pentane	0.647	0.64418	1.770	0.236		
n-Pentane	0.712	0.70846	1.946	0.258		
Hexanes Plus	1.919	1.90924	6.775	0.836		
	99.782	100.00000	100.000	7.220		

Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	0.9101	3.2176
Calculated Molecular Weight	26.26	93.19
Compressibility Factor	0.9959	

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.73 psia & 60°F

Real Gas Dry BTU	1162	5141
Water Sat. Gas Base BTU	1142	5052
Ideal, Gross HV - Dry at 14.73 psia	1157.1	5141.1
Ideal, Gross HV - Wet	1136.9	5051.6

Comments: H2S Field Content 7000 ppm

Data reviewed by: Krystle Fitzwater, Laboratory Manager

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

	A	B	C	D
1	<i>Received by OCD: 6/19/2023 3:00:50 PM</i>	PERMIAN (NEW MEXICO) 		<i>Page 2 of 7</i>
2				
3	Units - Pad Name 	Daily Allocations - Date 	Prod Gas MCFD	Flare Gas MCFD
4	 SOUTHERN UNION 30G CDP	6/5/2023	88	73
5	Grand Total		88	73
6	<i>Released to Imaging: 6/19/2023 3:13:44 PM</i>			

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

DEFINITIONS

Action 230325

DEFINITIONS

Operator: Contango Resources, LLC 111 E. 5TH STREET FORT WORTH, TX 76102	OGRID: 330447
	Action Number: 230325
	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 230325

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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	[fAB1833431094] SOUTHERN UNION STATE BATTERY

Determination of Reporting Requirements

Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional 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, 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 within 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.

Methane (CH4) percentage	53
Nitrogen (N2) percentage, if greater than one percent	18
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	4
Oxygen (O2) 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 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 230325

QUESTIONS (continued)

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

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	06/05/2023
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: Equipment Failure Separator Natural Gas Flared Released: 73 Mcf Recovered: 0 Mcf Lost: 73 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 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	[221115] FRONTIER FIELD SERVICES, LLC
Date notified of downstream activity requiring this vent or flare	05/29/2023
Time notified of downstream activity requiring this vent or flare	07:15 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	Pipeline ruptured. High line pressure and Safety.
Steps taken to limit the duration and magnitude of vent or flare	In process of setting compressors.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	In process of setting compressors.

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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

☒	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 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

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CONDITIONS

Created By	Condition	Condition Date
rgreer2021	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.	6/19/2023