



Certificate of Analysis

Number: 6030-22100362-002A

Artesia Laboratory

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

Oct. 25, 2022

Station Name: Arco State Batt
Station Location: Contango
Sample Point: Heater
Instrument: 6030_GC6 (Inficon GC-3000 Micro)
Last Inst. Cal.: 10/03/2022 0:00 AM
Analyzed: 10/25/2022 12:43:41 by EBHSampled By: Gene
Sample Of: Gas Spot
Sample Date: 10/21/2022
Sample Conditions: 19 psig
Effective Date: 10/21/2022
Method: GPA-2261M
Cylinder No: 5030-01802

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	1.10000	1.538		GPM TOTAL C2+	8.637
Nitrogen	1.156	1.13846	1.309		GPM TOTAL C3+	4.037
Methane	65.987	64.98589	42.777		GPM TOTAL iC5+	0.808
Carbon Dioxide	2.492	2.45459	4.432			
Ethane	17.387	17.12305	21.126	4.600		
Propane	8.231	8.10624	14.667	2.244		
Iso-butane	0.909	0.89541	2.135	0.294		
n-Butane	2.216	2.18229	5.204	0.691		
Iso-pentane	0.502	0.49389	1.462	0.181		
n-Pentane	0.544	0.53545	1.585	0.195		
Hexanes Plus	1.000	0.98473	3.765	0.432		
	100.424	100.00000	100.000	8.637		

Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	0.8453	3.2176
Calculated Molecular Weight	24.37	93.19
Compressibility Factor	0.9952	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1372	5141
Water Sat. Gas Base BTU	1349	5052
Ideal, Gross HV - Dry at 14.73 psia	1365.5	5141.1
Ideal, Gross HV - Wet	1341.6	5051.6

Comments: H2S Field Content 11000 ppm

Hydrocarbon 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	Units - Sub-Division	PERMIAN (NEW MEXICO)		Page 2 of 7
2				
3	Units - Pad Name	Daily Allocations - Date	Prod Gas MCFD	Flare Gas MCFD
4	ARCO CTB	6/7/2023	166	166
5	Released to Imaging: 6/20/2023 12:36:24 PM		166	166
6				

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District IV
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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 230725

DEFINITIONS

Operator: Contango Resources, LLC 111 E. 5TH STREET FORT WORTH, TX 76102	OGRID: 330447
	Action Number: 230725
	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 230725

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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	[fAB1833155163] ARCO 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	66
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	2
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 230725

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	06/07/2023
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: Equipment Failure Separator Natural Gas Flared Released: 166 Mcf Recovered: 0 Mcf Lost: 166 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.	6/20/2023