



Certificate of Analysis

Number: 6030-21070090-003A

Artesia Laboratory

200 E Main St.
Artesia, NM 88210
Phone 575-746-3481Steward Energy
Steward Energy
2600 Dallas Pkwy Suite 400
Frisco, TX 75034

July 15, 2021

Station Name: Trinity 22 St. Com 2H
Station Location: Steward
Cylinder No: 5030-04785
Instrument: 6030_GC2 (Agilent GC-7890B)
Last Inst. Cal.: 05/18/2021 10:28 AM
Analyzed: 07/15/2021 07:15:40 by KNFSampled By: Cameron Rivera
Sample Of: Gas Spot
Sample Date: 07/08/2021 03:45
Sample Conditions: 59.2 psig, @ 104.4 °F
Effective Date: 07/08/2021 03:45
Method: GPA 2286

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.000	0.51800	0.623		GPM TOTAL C2+ 10.709
Nitrogen	5.998	6.05500	5.988		GPM TOTAL C3+ 6.158
Methane	52.197	52.69200	29.842		GPM TOTAL iC5+ 1.685
Carbon Dioxide	3.948	3.98500	6.192		
Ethane	16.798	16.95700	18.001	4.551	
Propane	10.046	10.14100	15.787	2.804	
Iso-butane	1.586	1.60100	3.285	0.526	
n-Butane	3.578	3.61200	7.412	1.143	
Iso-pentane	1.059	1.06900	2.723	0.392	
n-Pentane	1.062	1.07200	2.731	0.390	
Hexanes Plus	2.276	2.29800	7.416	0.903	
	98.548	100.00000	100.000	10.709	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.9832	3.1399
Calculated Molecular Weight	28.33	90.94
Compressibility Factor	0.9940	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1466	4823
Water Sat. Gas Base BTU	1441	4739
Ideal, Gross HV - Dry at 14.696 psia	1457.2	4823.1
Ideal, Gross HV - Wet	1431.8	0.000

Comments: H2S Field Content 5,183 ppm
Mcf/day 90.4
H2S by Tutwiler

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.



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July 15, 2021

Station Name: Trinity 22 St. Com 2H
Station Location: Steward
Cylinder No: 5030-04785
Analyzed: 07/15/2021 07:10:34 by KNFSampled By: Cameron Rivera
Sample Of: Gas Spot
Sample Date: 07/08/2021 03:45
Sample Conditions: 59.2 psig, @ 104.4 °F
Method: GPA 2286

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Hydrogen Sulfide	0.518	0.623	
Nitrogen	6.055	5.988	
Methane	52.692	29.842	
Carbon Dioxide	3.985	6.192	
Ethane	16.957	18.001	4.551
Propane	10.141	15.787	2.804
Iso-Butane	1.601	3.285	0.526
n-Butane	3.612	7.412	1.143
Iso-Pentane	1.069	2.723	0.392
n-Pentane	1.072	2.731	0.390
i-Hexanes	0.540	1.608	0.216
n-Hexane	0.315	0.957	0.130
Benzene	0.350	0.956	0.097
Cyclohexane	0.126	0.377	0.043
i-Heptanes	0.372	1.214	0.151
n-Heptane	0.097	0.341	0.045
Toluene	0.128	0.419	0.043
i-Octanes	0.194	0.736	0.089
n-Octane	0.027	0.114	0.014
Ethylbenzene	0.036	0.134	0.014
Xylenes	0.022	0.089	0.009
i-Nonanes	0.048	0.209	0.024
n-Nonane	0.013	0.059	0.007
Decanes Plus	0.030	0.203	0.021
	100.000	100.000	10.709



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July 15, 2021

Station Name: Trinity 22 St. Com 2H
Station Location: Steward
Cylinder No: 5030-04785
Analyzed: 07/15/2021 07:10:34 by KNFSampled By: Cameron Rivera
Sample Of: Gas Spot
Sample Date: 07/08/2021 03:45
Sample Conditions: 59.2 psig, @ 104.4 °F
Method: GPA 2286

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	28.33	159.53
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	1466.1	8667.0
Water Sat. Gas Base BTU	1440.5	8464.4
Relative Density Real Gas	0.9832	5.5082
Compressibility Factor	0.9940	
Ideal, Gross HV - Wet	1431.8	
Ideal, Gross HV - Dry at 14.696 psia	1457.2	
Net BTU Dry Gas - real gas	1339	
Net BTU Wet Gas - real gas	1316	

Comments: H2S Field Content 5,183 ppm
Mcf/day 90.4
H2S by Tutwiler

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.

Calculations for the total Mcf flared

End Meter Volume – the Begin Meter Volume.

***Composition for the gas has been entered into the question portion of the C-129.

If further back up is needed please let us know and will provide requested data.

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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 218603

DEFINITIONS

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 218603
	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 218603

QUESTIONS

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 218603
	Action Type: [C-129] Venting and/or Flaring (C-129)

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	[fAPP2305751810] Trinity 22 Tank 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	Pump
Additional details for Equipment Involved. Please specify	Plant down due to going sour. Amine circulation pump went down.

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	6
Hydrogen Sulfide (H2S) PPM, rounded up	5,183
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 218603

QUESTIONS (continued)

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 218603
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	05/13/2023
Time vent or flare was discovered or commenced	07:00 AM
Time vent or flare was terminated	07:01 AM
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 Pump Natural Gas Flared Released: 114 Mcf Recovered: 0 Mcf Lost: 114 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	No
Downstream OGRID that should have notified this operator	[371874] STAKEHOLDER GAS SERVICES, LLC
Date notified of downstream activity requiring this vent or flare	Not answered.
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	All gas is connected to Stakeholder Midstream Gas Pipeline. Any flaring is due to an upset at their plant or within their gathering system.
Steps taken to limit the duration and magnitude of vent or flare	This is out of our control. Stakeholder attempts to rectify every situation as quickly as possible.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Stakeholder is proceeding with the addition of a second gas processing train for capacity expansion of the Campo Viejo Gas Processing Plant. Steward Energy II has agreed to certain producer commitments in order to support this expansion expected to be completed January 2024.

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ACKNOWLEDGMENTS

Action 218603

ACKNOWLEDGMENTS

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 218603
	Action Type: [C-129] Venting and/or Flaring (C-129)

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

Action 218603

CONDITIONS

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 218603
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
gkirkland	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.	5/19/2023