



Certificate of Analysis

Number: 6030-22030294-003A

Artesia Laboratory

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

Mar. 18, 2022

Station Name: Reef Pizza 5
Station Number: 57270171
Station Location: Steward
Sample Point: Meter run
Instrument: 6030_GC2 (Agilent GC-7890B)
Last Inst. Cal.: 03/15/2022 8:28 AM
Analyzed: 03/18/2022 07:50:33 by KNFSampled By: RM
Sample Of: Gas Spot
Sample Date: 03/14/2022
Sample Conditions: 70 psig, @ 86.5 °F
Effective Date: 03/14/2022
Method: GPA 2286
Cylinder No: 5030-01735

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.000	0.91500	1.207		GPM TOTAL C2+ 7.869
Nitrogen	4.434	4.42000	4.792		GPM TOTAL C3+ 4.120
Methane	60.403	60.21300	37.380		GPM TOTAL iC5+ 0.910
Carbon Dioxide	7.063	7.04100	11.991		
Ethane	14.031	13.98700	16.275	3.749	
Propane	7.737	7.71300	13.161	2.130	
Iso-butane	1.057	1.05400	2.371	0.346	
n-Butane	2.330	2.32300	5.225	0.734	
Iso-pentane	0.602	0.60000	1.675	0.220	
n-Pentane	0.581	0.57900	1.617	0.210	
Hexanes Plus	1.159	1.15500	4.306	0.480	
	99.397	100.00000	100.000	7.869	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8962	3.3327
Calculated Molecular Weight	25.84	96.52
Compressibility Factor	0.9953	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1278	5138
Water Sat. Gas Base BTU	1256	5048
Ideal, Gross HV - Dry at 14.696 psia	1272.2	5137.8
Ideal, Gross HV - Wet	1250.0	0.000

Comments: H2S Field Content 9,149 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.



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Mar. 18, 2022

Station Name: Reef Pizza 5
Station Number: 57270171
Station Location: Steward
Sample Point: Meter run
Analyzed: 03/18/2022 07:20:45 by KNFSampled By: RM
Sample Of: Gas Spot
Sample Date: 03/14/2022
Sample Conditions: 70 psig, @ 86.5 °F
Method: GPA 2286
Cylinder No: 5030-01735

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Hydrogen Sulfide	0.915	1.207	
Nitrogen	4.420	4.792	
Methane	60.213	37.380	
Carbon Dioxide	7.041	11.991	
Ethane	13.987	16.275	3.749
Propane	7.713	13.161	2.130
Iso-Butane	1.054	2.371	0.346
n-Butane	2.323	5.225	0.734
Iso-Pentane	0.600	1.675	0.220
n-Pentane	0.579	1.617	0.210
i-Hexanes	0.255	0.828	0.102
n-Hexane	0.145	0.474	0.059
Benzene	0.127	0.380	0.035
Cyclohexane	0.058	0.189	0.020
i-Heptanes	0.174	0.628	0.070
n-Heptane	0.048	0.185	0.022
Toluene	0.058	0.205	0.019
i-Octanes	0.105	0.437	0.049
n-Octane	0.019	0.081	0.010
Ethylbenzene	0.023	0.096	0.009
Xylenes	0.020	0.078	0.007
i-Nonanes	0.037	0.169	0.019
n-Nonane	0.014	0.070	0.008
Decanes Plus	0.072	0.486	0.051
	100.000	100.000	7.869



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Sample Point: Meter run
Analyzed: 03/18/2022 07:20:45 by KNFSampled By: RM
Sample Of: Gas Spot
Sample Date: 03/14/2022
Sample Conditions: 70 psig, @ 86.5 °F
Method: GPA 2286
Cylinder No: 5030-01735

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	25.84	164.48
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	1278.2	8894.5
Water Sat. Gas Base BTU	1255.9	8698.1
Relative Density Real Gas	0.8962	5.6790
Compressibility Factor	0.9953	
Ideal, Gross HV - Wet	1250.0	
Ideal, Gross HV - Dry at 14.696 psia	1272.2	
Net BTU Dry Gas - real gas	1164	
Net BTU Wet Gas - real gas	1144	

Comments: H2S Field Content 9,149 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.

<u>Date</u>	<u>Gas Flare</u>	<u>Gas Prod</u>	<u>Approx Hrs</u>	<u>Midstream (Stakeholder) Plant/Gathering Upset Documentation</u>
4/1/2022	0	293.97	0.00	Cornell down for Targa maintenance, Estimated 23 hrs down
4/2/2022	0	302.03	0.00	Cornell down for Targa maintenance, Estimated 23 hrs down
4/3/2022	0	299.00	0.00	Cornell down for Targa maintenance, Estimated 23 hrs down
4/4/2022	8	311.36	0.64	Cornell down for Targa maintenance, Estimated 23 hrs down
4/5/2022	6	301.84	0.46	Cornell down for Targa maintenance, Estimated 23 hrs down
4/6/2022	6	302.77	0.51	Cornell down for Targa maintenance, Estimated 23 hrs down
4/7/2022	7	306.22	0.57	Cornell down for Targa maintenance, Estimated 23 hrs down
4/8/2022	4	301.16	0.30	Cornell down for Targa maintenance, Estimated 23 hrs down
4/9/2022	18	307.27	1.43	Cornell down for Targa maintenance, Estimated 23 hrs down
4/10/2022	37	302.22	2.95	Cornell down for Targa maintenance, Estimated 23 hrs down
4/11/2022	70	303.16	5.55	Cornell down for Targa maintenance, Estimated 23 hrs down
4/12/2022	94	302.13	7.49	Cornell down due to Targa plant issues
4/13/2022	44	305.21	3.49	Cornell down due to Targa plant issues
4/14/2022	31	306.21	2.45	Cornell down due to Targa plant issues
4/15/2022	18	300.18	1.45	Cornell down due to Targa plant issues
4/16/2022	36	306.27	2.84	Cornell down due to Targa plant issues
4/17/2022	60	303.78	4.72	Cornell down due to Targa plant issues
4/18/2022	58	296.00	4.69	Cornell down due to Targa plant issues
4/19/2022	103	299.00	8.27	Start shutdown of Campo Viejo for Expansion Tie-ins
4/20/2022	292	301.00	23.27	Campo Viejo shutdown for Expansion Tie-ins
4/21/2022	297	297.00	24.00	Campo Viejo shutdown for Expansion Tie-ins
4/22/2022	283	284.67	23.83	Campo Viejo shutdown for Expansion Tie-ins
4/23/2022	259	258.78	24.00	Campo Viejo shutdown for Expansion Tie-ins
4/24/2022	257	257.00	24.00	Campo Viejo shutdown for Expansion Tie-ins
4/25/2022	231	231.00	24.00	Campo Viejo shutdown for Expansion Tie-ins
4/26/2022	232	232.43	24.00	Campo Viejo shutdown for Expansion Tie-ins
4/27/2022	277	277.00	24.00	Campo Viejo shutdown for Expansion Tie-ins
4/28/2022	276	292.97	22.57	Campo Viejo shutdown for Expansion Tie-ins
4/29/2022	234	283.35	19.84	Campo Viejo shutdown for Expansion Tie-ins
4/30/2022	243	278.30	20.93	Campo Viejo shutdown for Expansion Tie-ins
	3482	8743	302.26	

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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 113585

DEFINITIONS

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 113585
	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 113585

QUESTIONS

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 113585
	Action Type: [C-129] Venting and/or Flaring (C-129)

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 Well	[30-025-46838] FELINA FEE #005H
Incident Facility	Not answered.

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 withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved	
Primary Equipment Involved	Separator
Additional details for Equipment Involved. Please specify	All gas is connected to Stakeholder Midstream Gas Pipeline. Any flaring is from gas off the separator and sent to flare and is due to an upset at their plant or within their gathering system.

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	60
Nitrogen (N2) percentage, if greater than one percent	4
Hydrogen Sulfide (H2S) PPM, rounded up	1
Carbon Dioxide (CO2) percentage, if greater than one percent	7
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 113585

QUESTIONS (continued)

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 113585
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/04/2022
Time vent or flare was discovered or commenced	07:00 AM
Time vent or flare was terminated	07:00 AM
Cumulative hours during this event	302

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 Separator Natural Gas Flared Released: 3,482 Mcf Recovered: 0 Mcf Lost: 3,482 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	[329800] Stakeholder Gas Utility, LLC
Date notified of downstream activity requiring this vent or flare	04/04/2022
Time notified of downstream activity requiring this vent or flare	07:00 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	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 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 April 2022.

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ACKNOWLEDGMENTS

Action 113585

ACKNOWLEDGMENTS

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 113585
	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 113585

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	Action Number: 113585
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
nwhite	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.	6/5/2022