



Certificate of Analysis

Number: 6030-21110115-001A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

Steward Energy
Steward Energy
2600 Dallas Pkwy Suite 400
Frisco, TX 75034

Nov. 18, 2021

Station Name: Dog Bar Battery Flare

Station Number: 57270064

Station Location: Steward

Sample Point: Meter run

Instrument: 6030_GC6 (Inficon GC-3000 Micro)

Last Inst. Cal.: 11/15/2021 0:00 AM

Analyzed: 11/18/2021 08:43:18 by EJL

Sampled By: Javier Lazo

Sample Of: Gas Spot

Sample Date: 11/04/2021 12:59

Sample Conditions: 16.7 psig, @ 74 °F Ambient: 57 °F

Effective Date: 11/04/2021 12:59

Method: GPA-2261M

Cylinder No: 1111-005551

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.000	1.25120	1.735		GPM TOTAL C2+ 6.801
Nitrogen	4.890	4.91143	5.599		GPM TOTAL C3+ 3.521
Methane	65.155	65.44169	42.721		GPM TOTAL iC5+ 1.137
Carbon Dioxide	5.083	5.10538	9.143		
Ethane	12.189	12.24277	14.980	3.280	
Propane	5.661	5.68603	10.203	1.569	
Iso-butane	0.756	0.75973	1.797	0.249	
n-Butane	1.783	1.79105	4.236	0.566	
Iso-pentane	0.599	0.60114	1.765	0.220	
n-Pentane	0.648	0.65105	1.911	0.236	
Hexanes Plus	1.552	1.55853	5.910	0.681	
	98.316	100.00000	100.000	6.801	

Calculated Physical Properties

Relative Density Real Gas

Total

0.8519

C6+

3.2176

Calculated Molecular Weight

24.57

93.19

Compressibility Factor

0.9956

GPA 2172 Calculation:

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

Real Gas Dry BTU

1247

5129

Water Sat. Gas Base BTU

1226

5040

Ideal, Gross HV - Dry at 14.696 psia

1241.9

5129.2

Ideal, Gross HV - Wet

1220.1

5039.7

Comments: H2S Field Content 12,512.00 ppm
Mcf/day 26.331

Data reviewed by: Eric Ramirez, Analyst

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	60	60.37	24.00	Cornell down for Targa maintenance, Estimated 23 hrs down
4/2/2022	60	60.00	24.00	Cornell down for Targa maintenance, Estimated 23 hrs down
4/3/2022	61	60.78	24.00	Cornell down for Targa maintenance, Estimated 23 hrs down
4/4/2022	63	63.15	24.00	Cornell down for Targa maintenance, Estimated 23 hrs down
4/5/2022	52	52.00	24.00	Cornell down for Targa maintenance, Estimated 23 hrs down
4/6/2022	50	50.19	24.00	Cornell down for Targa maintenance, Estimated 23 hrs down
4/7/2022	50	49.93	24.00	Cornell down for Targa maintenance, Estimated 23 hrs down
4/8/2022	75	75.22	24.00	Cornell down for Targa maintenance, Estimated 23 hrs down
4/9/2022	45	45.06	24.00	Cornell down for Targa maintenance, Estimated 23 hrs down
4/10/2022	29	29.14	24.00	Cornell down for Targa maintenance, Estimated 23 hrs down
4/11/2022	57	56.63	24.00	Cornell down for Targa maintenance, Estimated 23 hrs down
4/12/2022	32	32.44	24.00	Cornell down due to Targa plant issues
4/13/2022	34	34.45	24.00	Cornell down due to Targa plant issues
4/14/2022	70	69.65	24.00	Cornell down due to Targa plant issues
4/15/2022	57	56.57	24.00	Cornell down due to Targa plant issues
4/16/2022	80	79.83	24.00	Cornell down due to Targa plant issues
4/17/2022	73	72.86	24.00	Cornell down due to Targa plant issues
4/18/2022	60	60.06	24.00	Cornell down due to Targa plant issues
4/19/2022	63	62.90	24.00	Start shutdown of Campo Viejo for Expansion Tie-ins
4/20/2022	68	67.95	24.00	Campo Viejo shutdown for Expansion Tie-ins
4/21/2022	54	54.21	24.00	Campo Viejo shutdown for Expansion Tie-ins
4/22/2022	61	60.68	24.00	Campo Viejo shutdown for Expansion Tie-ins
4/23/2022	54	53.99	24.00	Campo Viejo shutdown for Expansion Tie-ins
4/24/2022	54	53.59	24.00	Campo Viejo shutdown for Expansion Tie-ins
4/25/2022	51	50.67	24.00	Campo Viejo shutdown for Expansion Tie-ins
4/26/2022	53	52.88	24.00	Campo Viejo shutdown for Expansion Tie-ins
4/27/2022	40	39.69	24.00	Campo Viejo shutdown for Expansion Tie-ins
4/28/2022	54	53.89	24.00	Campo Viejo shutdown for Expansion Tie-ins
4/29/2022	42	50.32	19.85	Campo Viejo shutdown for Expansion Tie-ins
4/30/2022	49	48.71	24.00	Campo Viejo shutdown for Expansion Tie-ins
	1649	1658	691.85	

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District II
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
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Oil Conservation Division
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Santa Fe, NM 87505

DEFINITIONS

Action 113578

DEFINITIONS

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 113578
	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 113578

QUESTIONS

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	Action Number: 113578
	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	[30-025-42873] DOG BAR 11 FEE #001H
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 within 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	65
Nitrogen (N2) percentage, if greater than one percent	5
Hydrogen Sulfide (H2S) PPM, rounded up	1
Carbon Dioxide (CO2) percentage, if greater than one percent	5
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 113578

QUESTIONS (continued)

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	Action Number: 113578
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/01/2022
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	692

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: 1,649 Mcf Recovered: 0 Mcf Lost: 1,649 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	04/01/2022
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 113578

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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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	Action Number: 113578
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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