



Certificate of Analysis

Number: 6030-21070137-001A

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

July 16, 2021

Station Name: Salamanca
Station Number: 50521
Station Location: Steward
Sample Point: Meter Run
Instrument: 6030_GC2 (Agilent GC-7890B)
Last Inst. Cal.: 05/18/2021 10:19 AM
Analyzed: 07/16/2021 08:33:01 by KNF

Sampled By: Cameron Rivera
Sample Of: Gas Spot
Sample Date: 07/15/2021 01:30
Sample Conditions: 71.1 psig, @ 111.9 °F Ambient: 93 °F
Effective Date: 07/15/2021 01:30
Method: GPA 2286
Cylinder No: 5030-01624

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.000	0.90000	1.291		GPM TOTAL C2+ 6.005
Nitrogen	4.685	4.59100	5.413		GPM TOTAL C3+ 3.056
Methane	69.622	68.21700	46.058		GPM TOTAL iC5+ 0.840
Carbon Dioxide	5.533	5.42100	10.041		
Ethane	11.239	11.01200	13.936	2.949	
Propane	5.271	5.16500	9.585	1.425	
Iso-butane	0.773	0.75700	1.852	0.248	
n-Butane	1.756	1.72100	4.210	0.543	
Iso-pentane	0.563	0.55200	1.676	0.202	
n-Pentane	0.559	0.54800	1.664	0.199	
Hexanes Plus	1.139	1.11600	4.274	0.439	
	101.140	100.00000	100.000	6.005	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8232	3.1271
Calculated Molecular Weight	23.76	90.57
Compressibility Factor	0.9960	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1203	4817
Water Sat. Gas Base BTU	1182	4733
Ideal, Gross HV - Dry at 14.696 psia	1198.1	4816.8
Ideal, Gross HV - Wet	1177.2	0.000

Comments: H2S Field Content .9 %
Mcf/day 252.4

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 16, 2021

Station Name: Salamanca
Station Number: 50521
Station Location: Steward
Sample Point: Meter Run
Analyzed: 07/16/2021 08:31:52 by KNF

Sampled By: Cameron Rivera
Sample Of: Gas Spot
Sample Date: 07/15/2021 01:30
Sample Conditions: 71.1 psig, @ 111.9 °F
Method: GPA 2286
Cylinder No: 5030-01624

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.900	1.291		GPM TOTAL C2+
Nitrogen	4.591	5.413		GPM TOTAL C3+
Methane	68.217	46.058		GPM TOTAL iC5+
Carbon Dioxide	5.421	10.041		
Ethane	11.012	13.936	2.949	
Propane	5.165	9.585	1.425	
Iso-Butane	0.757	1.852	0.248	
n-Butane	1.721	4.210	0.543	
Iso-Pentane	0.552	1.676	0.202	
n-Pentane	0.548	1.664	0.199	
Hexanes	0.442	1.572	0.178	
Heptanes Plus	0.674	2.702	0.261	
	100.000	100.000	6.005	

Calculated Physical Properties	Total	C7+
Relative Density Real Gas	0.8232	3.2532
Calculated Molecular Weight	23.76	94.22
Compressibility Factor	0.9960	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1203	4909
Water Sat. Gas Base BTU	1182	4823
Ideal, Gross HV - Dry at 14.696 psia	1198.1	4908.5
Ideal, Gross HV - Wet	1177.2	

Comments: H2S Field Content .9 %
Mcf/day 252.4

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Sample Of: Gas Spot
Sample Date: 07/15/2021 01:30
Sample Conditions: 71.1 psig, @ 111.9 °F
Method: GPA 2286
Cylinder No: 5030-01624

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.900	1.291		GPM TOTAL C2+
Nitrogen	4.591	5.413		6.005
Methane	68.217	46.058		
Carbon Dioxide	5.421	10.041		
Ethane	11.012	13.936	2.949	
Propane	5.165	9.585	1.425	
Iso-Butane	0.757	1.852	0.248	
n-Butane	1.721	4.210	0.543	
Iso-Pentane	0.552	1.676	0.202	
n-Pentane	0.548	1.664	0.199	
i-Hexanes	0.280	0.996	0.112	
n-Hexane	0.162	0.576	0.066	
Benzene	0.146	0.478	0.041	
Cyclohexane	0.064	0.226	0.022	
i-Heptanes	0.188	0.740	0.077	
n-Heptane	0.048	0.199	0.022	
Toluene	0.058	0.226	0.019	
i-Octanes	0.092	0.418	0.042	
n-Octane	0.013	0.062	0.007	
Ethylbenzene	0.016	0.072	0.006	
Xylenes	0.011	0.050	0.004	
i-Nonanes	0.022	0.112	0.011	
n-Nonane	0.006	0.031	0.003	
i-Decanes	0.002	0.025	0.001	
n-Decane	0.001	0.006	0.001	
Undecanes	0.004	0.030	0.003	
Dodecanes	0.003	0.022	0.002	
Tridecanes	NIL	0.003	NIL	
Tetradecanes Plus	NIL	0.002	NIL	
	100.000	100.000	6.005	



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Sample Of: Gas Spot
Sample Date: 07/15/2021 01:30
Sample Conditions: 71.1 psig, @ 111.9 °F
Method: GPA 2286
Cylinder No: 5030-01624

Calculated Physical Properties	Total	C14+
Calculated Molecular Weight	23.760	NIL
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	1202.9	NIL
Water Sat. Gas Base BTU	1181.9	NIL
Relative Density Real Gas	0.8232	NIL
Compressibility Factor	0.9960	

Comments: H2S Field Content .9 %
Mcf/day 252.4

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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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 235881

DEFINITIONS

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 235881
	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 235881

QUESTIONS

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 235881
	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	[fAPP2305750725] Salamanca 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 withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved	
Primary Equipment Involved	Gas Plant
Additional details for Equipment Involved. Please specify	Crankcase failure on one of the NRU 3516 compressors at Gas Plant

Representative Compositional Analysis of Vented or Flared Natural Gas Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	68
Nitrogen (N2) percentage, if greater than one percent	5
Hydrogen Sulfide (H2S) PPM, rounded up	12,910
Carbon Dioxide (C02) percentage, if greater than one percent	5
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 Sufide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (C02) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 235881

QUESTIONS (continued)

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 235881
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	06/28/2023
Time vent or flare was discovered or commenced	03:00 AM
Time vent or flare was terminated	11:52 PM
Cumulative hours during this event	21

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 Gas Plant Natural Gas Flared Released: 126 Mcf Recovered: 0 Mcf Lost: 126 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 235881

ACKNOWLEDGMENTS

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 235881
	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 235881

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	Action Number: 235881
	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.	7/5/2023