



## Certificate of Analysis

Number: 6030-22070167-001A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

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

July 15, 2022

Station Name: Gustavo Fee 5H  
Station Number: 57270159  
Station Location: Steward Energy  
Sample Point: Meter Run  
Instrument: 6030\_GC2 (Agilent GC-7890B)  
Last Inst. Cal.: 05/17/2022 7:56 AM  
Analyzed: 07/15/2022 12:20:59 by ERG

Sampled By: Cameron Rivera  
Sample Of: Gas Spot  
Sample Date: 07/13/2022 08:45  
Sample Conditions: 75.36 psig, @ 109.97 °F Ambient: 83 °F  
Effective Date: 07/13/2022 08:45  
Method: GPA 2286  
Cylinder No: 1111-007907

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.000	0.57300	0.790		GPM TOTAL C2+
Nitrogen	6.405	6.36200	7.206		GPM TOTAL C3+
Methane	65.098	64.66400	41.947		GPM TOTAL iC5+
Carbon Dioxide	5.515	5.47800	9.748		
Ethane	11.458	11.38200	13.839	3.056	
Propane	5.904	5.86500	10.457	1.623	
Iso-butane	0.850	0.84400	1.984	0.278	
n-Butane	2.100	2.08600	4.902	0.661	
Iso-pentane	0.618	0.61400	1.791	0.226	
n-Pentane	0.685	0.68000	1.984	0.248	
Hexanes Plus	1.462	1.45200	5.352	0.578	
	100.095	100.00000	100.000	6.670	

## Calculated Physical Properties

	<b>Total</b>	<b>C6+</b>
Relative Density Real Gas	0.8572	3.1482
Calculated Molecular Weight	24.73	91.18
Compressibility Factor	0.9957	

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.73 psia & 60°F

Real Gas Dry BTU	1232	4871
Water Sat. Gas Base BTU	1210	4786
Ideal, Gross HV - Dry at 14.73 psia	1226.5	4871.1
Ideal, Gross HV - Wet	1205.1	0.000

**Comments:** H2S Field Content 5,727 ppm  
Mcf/day 756.30

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, 2022

Station Name: Gustavo Fee 5H  
Station Number: 57270159  
Station Location: Steward Energy  
Sample Point: Meter Run  
Analyzed: 07/15/2022 06:15:16 by ERG

Sampled By: Cameron Rivera  
Sample Of: Gas Spot  
Sample Date: 07/13/2022 08:45  
Sample Conditions: 75.36 psig, @ 109.97 °F  
Method: GPA 2286  
Cylinder No: 1111-007907

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia
Hydrogen Sulfide	0.573	0.790	
Nitrogen	6.362	7.206	
Methane	64.664	41.947	
Carbon Dioxide	5.478	9.748	
Ethane	11.382	13.839	3.056
Propane	5.865	10.457	1.623
Iso-Butane	0.844	1.984	0.278
n-Butane	2.086	4.902	0.661
Iso-Pentane	0.614	1.791	0.226
n-Pentane	0.680	1.984	0.248
i-Hexanes	0.355	1.213	0.142
n-Hexane	0.211	0.730	0.087
Benzene	0.164	0.517	0.046
Cyclohexane	0.082	0.279	0.028
i-Heptanes	0.256	0.966	0.104
n-Heptane	0.068	0.274	0.031
Toluene	0.074	0.276	0.025
i-Octanes	0.137	0.597	0.062
n-Octane	0.017	0.081	0.009
Ethylbenzene	0.020	0.087	0.008
Xylenes	0.014	0.061	0.006
i-Nonanes	0.040	0.193	0.020
n-Nonane	0.007	0.032	0.004
Decanes Plus	0.007	0.046	0.006
	100.000	100.000	6.670



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July 15, 2022

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Analyzed: 07/15/2022 06:15:16 by ERGSampled By: Cameron Rivera  
Sample Of: Gas Spot  
Sample Date: 07/13/2022 08:45  
Sample Conditions: 75.36 psig, @ 109.97 °F  
Method: GPA 2286  
Cylinder No: 1111-007907

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Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	24.73	168.00
<b>GPA 2172 Calculation:</b>		
<b>Calculated Gross BTU per ft<sup>3</sup> @ 14.73 psia &amp; 60°F</b>		
Real Gas Dry BTU	1231.7	9171.9
Water Sat. Gas Base BTU	1210.3	8973.9
Relative Density Real Gas	0.8572	5.8005
Compressibility Factor	0.9957	
Ideal, Gross HV - Wet	1205.1	
Ideal, Gross HV - Dry at 14.73 psia	1226.5	
Net BTU Dry Gas - real gas	1121	
Net BTU Wet Gas - real gas	1101	

**Comments:** H2S Field Content 5,727 ppm  
Mcf/day 756.30

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>
7/1/2022	0	802.12	0.00	
7/2/2022	270	809.87	8.00	Amine train B foamed causing carryover and plant to go sour
7/3/2022	754	754.38	24.00	Result from Amine Train B carryover event plant was down to regen Dehydration beds
7/4/2022	669	748.10	21.46	Result from Amine Train B carryover event plant was down to regen Dehydration beds
7/5/2022	56	675.04	2.01	Started to ramp volumes back up into the plant continuing to work out issue with Dehydration beds
7/6/2022	0	761.64	0.00	
7/7/2022	93	799.20	2.79	Agi Compressor issues resulting in plant at lower flow
7/8/2022	48	578.33	1.98	Agi Compressor issues resulting in plant at lower flow
7/9/2022	0	708.89	0.00	
7/10/2022	0	714.33	0.00	
7/11/2022	0	722.03	0.00	
7/12/2022	0	709.00	0.00	
7/13/2022	2	706.74	0.06	
7/14/2022	0	701.00	0.00	
7/15/2022	0	695.00	0.00	
7/16/2022	0	706.54	0.00	
7/17/2022	0	704.00	0.00	
7/18/2022	0	722.00	0.00	
7/19/2022	158	735.00	5.14	Tulsa Heaters onsite to change out stabilizer ring on original HMO heater H-1795 -
7/20/2022	0	728.00	0.00	
7/21/2022	86	533.26	3.87	HMO heater H-1795 continuing to go down with bad maxim valve
7/22/2022	115	518.62	5.31	HMO heater H-1795 continuing to have issues and found clog pilot and low fuel psi
7/23/2022	48	694.27	1.65	Loss of HMO flow causing plant to go sour
7/24/2022	0	760.00	0.00	
7/25/2022	0	706.84	0.00	
7/26/2022	0	680.52	0.00	
7/27/2022	0	672.79	0.00	
7/28/2022	0	718.31	0.00	
7/29/2022	0	756.65	0.00	
7/30/2022	0	737.06	0.00	
7/31/2022	0	727.25	0.00	
	<b>2298</b>	<b>21987</b>	<b>76.26</b>	

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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 140298

DEFINITIONS

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 140298
	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: <ul style="list-style-type: none"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul>
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QUESTIONS

Action 140298

**QUESTIONS**

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 140298
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b>	
<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	[30-025-48982] GUSTAVO FEE #005H
Incident Facility	Not answered.

<b>Determination of Reporting Requirements</b>	
<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 <b>at least 50 MCF</b> of natural gas vented and/or flared during this event	Yes
Did this vent or flare result in the release of <b>ANY</b> 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

<b>Equipment Involved</b>	
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.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
<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	6
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 140298

QUESTIONS (continued)

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 140298
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	07/02/2022
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	76

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: 2,298 Mcf   Recovered: 0 Mcf   Lost: 2,298 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	07/02/2022
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 140298

**ACKNOWLEDGMENTS**

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 140298
	Action Type: [C-129] Venting and/or Flaring (C-129)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	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 <b>complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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 140298

CONDITIONS

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 140298
	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.	9/1/2022