Certificate of Analysis

Number: 6030-21110293-003A

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

Dec. 21, 2021

Station Name:	Heisenberg Battery Sales	Sampled By:	Derek Sauder
Station Number:	50518	Sample Of:	Gas Spot
Station Location:	Steward Energy	Sample Date:	11/24/2021 02:00
Sample Point:	Meter run	Sample Conditions:	65.4 psig, @ 79.2 °F Ambient: 64 °F
Instrument:	6030_GC2 (Agilent GC-7890B)	Effective Date:	11/24/2021 02:00
Last Inst. Cal.:	12/02/2021 17:10 PM	Method:	GPA 2286
Analyzed:	12/21/2021 10:01:59 by KNF	Cylinder No:	5030-04966

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia		
Hydrogen Sulfide	0.000	1.27400	1.855		GPM TOTAL C2+	5.656
Nitrogen	4.820	4.92100	5.891		GPM TOTAL C3+	2.856
Methane	67.601	69.01600	47.313		GPM TOTAL iC5+	0.730
Carbon Dioxide	4.954	5.05800	9.512			
Ethane	10.242	10.45600	13.435	2.800		
Propane	4.897	5.00000	9.422	1.379		
Iso-butane	0.691	0.70500	1.751	0.231		
n-Butane	1.602	1.63600	4.063	0.516		
Iso-pentane	0.456	0.46600	1.437	0.171		
n-Pentane	0.450	0.45900	1.415	0.167		
Hexanes Plus	0.988	1.00900	3.906	0.392		
	96.701	100.00000	100.000	5.656		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8106	3.1115
Calculated Molecular Weight	23.40	90.12
Compressibility Factor	0.9962	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	1182	4783
Water Sat. Gas Base BTU	1162	4699
Ideal, Gross HV - Dry at 14.696 psia	1177.6	4782.6
Ideal, Gross HV - Wet	1157.1	0.000

Comments: H2S Field Content 12,744 ppm
Mcf/day 827.3

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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Frisco, TX 75034

Dec. 21, 2021

Station Name: Heisenberg Battery Sales
Station Number: 50518
Station Location: Steward Energy
Sample Point: Meter run
Analyzed: 12/06/2021 12:09:51 by ERG

Sampled By: Derek Sauder
Sample Of: Gas Spot
Sample Date: 11/24/2021 02:00
Sample Conditions: 65.4 psig, @ 79.2 °F
Method: GPA 2286
Cylinder No: 5030-04966

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Hydrogen Sulfide	1.274	1.855	
Nitrogen	4.921	5.891	
Methane	69.016	47.313	
Carbon Dioxide	5.058	9.512	
Ethane	10.456	13.435	2.800
Propane	5.000	9.422	1.379
Iso-Butane	0.705	1.751	0.231
n-Butane	1.636	4.063	0.516
Iso-Pentane	0.466	1.437	0.171
n-Pentane	0.459	1.415	0.167
i-Hexanes	0.255	0.924	0.102
n-Hexane	0.138	0.511	0.057
Benzene	0.144	0.494	0.041
Cyclohexane	0.057	0.205	0.019
i-Heptanes	0.166	0.656	0.067
n-Heptane	0.040	0.174	0.019
Toluene	0.055	0.217	0.018
i-Octanes	0.083	0.365	0.036
n-Octane	0.011	0.054	0.006
Ethylbenzene	0.016	0.069	0.006
Xylenes	0.011	0.042	0.004
i-Nonanes	0.019	0.099	0.009
n-Nonane	0.005	0.027	0.003
Decanes Plus	0.009	0.069	0.005
	100.000	100.000	5.656

Certificate of Analysis

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Dec. 21, 2021

Station Name:	Heisenberg Battery Sales	Sampled By:	Derek Sauder
Station Number:	50518	Sample Of:	Gas Spot
Station Location:	Steward Energy	Sample Date:	11/24/2021 02:00
Sample Point:	Meter run	Sample Conditions:	65.4 psig, @ 79.2 °F
Analyzed:	12/06/2021 12:09:51 by ERG	Method:	GPA 2286
		Cylinder No:	5030-04966

Calculated Physical Properties	**Total**	**C10+**
Calculated Molecular Weight	23.40	152.27
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	1182.1	8228.5
Water Sat. Gas Base BTU	1161.5	8054.0
Relative Density Real Gas	0.8106	5.2575
Compressibility Factor	0.9962	
Ideal, Gross HV - Wet	1157.1	
Ideal, Gross HV - Dry at 14.696 psia	1177.6	
Net BTU Dry Gas - real gas	1074	
Net BTU Wet Gas - real gas	1055	

Comments: H2S Field Content 12,744 ppm
Mcf/day 827.3

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.

Date	Gas Flare	Gas Prod	Approx Hrs	Midstream (Stakeholder) Plant/Gathering Upset Documentation
4/1/2022	104	183.16	13.57	Cornell down for Targa maintenance, Estimated 23 hrs down
4/2/2022	101	169.08	14.28	Cornell down for Targa maintenance, Estimated 23 hrs down
4/3/2022	110	173.47	15.29	Cornell down for Targa maintenance, Estimated 23 hrs down
4/4/2022	106	139.24	18.28	Cornell down for Targa maintenance, Estimated 23 hrs down
4/5/2022	199	257.16	18.57	Cornell down for Targa maintenance, Estimated 23 hrs down
4/6/2022	152	180.01	20.23	Cornell down for Targa maintenance, Estimated 23 hrs down
4/7/2022	122	151.60	19.30	Cornell down for Targa maintenance, Estimated 23 hrs down
4/8/2022	105	165.09	15.26	Cornell down for Targa maintenance, Estimated 23 hrs down
4/9/2022	134	151.05	21.33	Cornell down for Targa maintenance, Estimated 23 hrs down
4/10/2022	139	148.64	22.40	Cornell down for Targa maintenance, Estimated 23 hrs down
4/11/2022	135	146.72	22.03	Cornell down for Targa maintenance, Estimated 23 hrs down
4/12/2022	134	146.47	21.97	Cornell down due to Targa plant issues
4/13/2022	112	140.03	19.23	Cornell down due to Targa plant issues
4/14/2022	120	154.99	18.59	Cornell down due to Targa plant issues
4/15/2022	117	154.05	18.16	Cornell down due to Targa plant issues
4/16/2022	110	129.93	20.25	Cornell down due to Targa plant issues
4/17/2022	126	144.45	20.92	Cornell down due to Targa plant issues
4/18/2022	158	172.79	22.01	Cornell down due to Targa plant issues
4/19/2022	100	118.39	20.32	Start shutdown of Campo Viejo for Expansion Tie-ins
4/20/2022	133	138.24	23.14	Campo Viejo shutdown for Expansion Tie-ins
4/21/2022	152	153.25	23.85	Campo Viejo shutdown for Expansion Tie-ins
4/22/2022	136	155.41	21.08	Campo Viejo shutdown for Expansion Tie-ins
4/23/2022	167	167.17	24.00	Campo Viejo shutdown for Expansion Tie-ins
4/24/2022	126	126.42	24.00	Campo Viejo shutdown for Expansion Tie-ins
4/25/2022	134	133.90	24.00	Campo Viejo shutdown for Expansion Tie-ins
4/26/2022	141	140.82	24.00	Campo Viejo shutdown for Expansion Tie-ins
4/27/2022	153	153.33	24.00	Campo Viejo shutdown for Expansion Tie-ins
4/28/2022	118	126.78	22.35	Campo Viejo shutdown for Expansion Tie-ins
4/29/2022	112	143.80	18.71	Campo Viejo shutdown for Expansion Tie-ins
4/30/2022	91	126.49	17.30	Campo Viejo shutdown for Expansion Tie-ins
	3848	**4592**	**594.87**	

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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

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 113588
	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 113588

QUESTIONS

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 113588
	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	**[30-025-43753] HEISENBERG STATE COM #003H**
Incident Facility	*Not answered.*

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional 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, major 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	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	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	69
Nitrogen (N2) percentage, if greater than one percent	5
Hydrogen Sulfide (H2S) PPM, rounded up	1
Carbon Dioxide (C02) percentage, if greater than one percent	5
Oxygen (02) 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 (02) percentage quality requirement	*Not answered.*

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QUESTIONS (continued)

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 113588
	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	595

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: 3,848 Mcf | Recovered: 0 Mcf | Lost: 3,848 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

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 113588
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit a *Venting and/or Flaring* (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

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 113588
	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