



Certificate of Analysis

Number: 6030-21020197-002A

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

Feb. 25, 2021

Station Name: Heisenberg
Station Number: 50518
Station Location: Steward
Sample Point: Meter Run
Analyzed: 02/25/2021 13:21:20 by PGS

Sampled By: Cameron Rivera
Sample Of: Gas Spot
Sample Date: 02/23/2021 12:25
Sample Conditions: 57 psig, @ 81.1 °F
Method: GPA-2261M
Cylinder No: 5030-01146

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	1.123	1.643		GPM TOTAL C2+
Nitrogen	5.011	6.025		GPM TOTAL C3+
Methane	69.049	47.541		GPM TOTAL iC5+
Carbon Dioxide	4.828	9.119		
Ethane	10.617	13.701	2.843	
Propane	5.377	10.176	1.483	
Iso-Butane	0.712	1.776	0.233	
n-Butane	1.613	4.024	0.509	
Iso-Pentane	0.479	1.483	0.175	
n-Pentane	0.453	1.403	0.164	
Hexanes	0.318	1.176	0.131	
Heptanes Plus	0.420	1.933	0.205	
	100.000	100.000	5.743	

Calculated Physical Properties	Total	C7+
Relative Density Real Gas	0.8073	3.7019
Calculated Molecular Weight	23.30	107.22
Compressibility Factor	0.9962	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1185	5876
Water Sat. Gas Base BTU	1165	5773
Ideal, Gross HV - Dry at 14.696 psia	1180.6	5875.8
Ideal, Gross HV - Wet	1159.9	

Comments: H2S Field Content 11225 ppm
Mcf/day 807.5

Hydrocarbon 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>
6/30/2021		823		
6/29/2021		866.01		
6/28/2021		774		
6/27/2021		760.01		
6/26/2021	97	780.46	3.00	Residue C-1435 down with bad DNFT switch
6/25/2021		706.01		
6/24/2021	116	808.13	3.45	Residue C-1435 down with bad DNFT switch
6/23/2021		781.39		
6/22/2021	52	751.71	1.65	Inlet 1140 down on lube oil no flow
6/21/2021	101	739.25	3.29	Inlet 1140 down on lube oil no flow
6/20/2021	57	816.29	1.68	Inlet 1140 down on lube oil no flow
6/19/2021	17	848.1	0.48	Inlet 1140 down on lube oil no flow
6/18/2021		803		Inlet 1140 down on lube oil no flow
6/17/2021	6	751.9	0.19	Inlet 1140 down on lube oil no flow
6/16/2021	162	812.38	4.80	Inlet suction control valve issue, up and down till new positioner arrived and installed 6/17
6/15/2021	572	821.08	16.72	Inlet suction control valve issue, up and down till new positioner arrived and installed 6/17
6/14/2021	645	847.97	18.25	Inlet suction control valve issue, up and down till new positioner arrived and installed 6/17
6/13/2021	338	765.19	10.61	Inlet suction control valve issue, up and down till new positioner arrived and installed 6/17
6/12/2021	81	843.82	2.30	Upset in amine system causing plant to go off-spec on H2S
6/11/2021	138	723.21	4.59	Upset in amine system causing plant to go off-spec on H2S
6/10/2021	64	788.4	1.96	Upset in amine system causing plant to go off-spec on H2S
6/9/2021	125	783.47	3.84	Upset in amine system causing plant to go off-spec on H2S
6/8/2021	126	817.64	3.69	Upset in amine system causing plant to go off-spec on H2S
6/7/2021	52	764.91	1.63	Upset in amine system causing plant to go off-spec on H2S
6/6/2021	428	751.38	13.68	Inlet suction control valve blip causing to lose plant for a short time
6/5/2021	112	693.88	3.87	Inlet C-1110 down with electrical issue, Inlet C-1150 down a couple times with engine speed lolo
6/4/2021	14	741.35	0.46	Power outage causing loss of plant
6/3/2021	402	847.24	11.39	Plant and offloads are at Capacity
6/2/2021	394	813.86	11.61	Inlet C-1140 down with a bad ECM from the power outage
6/1/2021	7	767.81	0.21	Inlet C-1140 down with a bad ECM from the power outage
	4108	23593	123	

District I1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720**District II**811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720**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
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 56707

QUESTIONS

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 56707
	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 additional guidance.

Was or is this venting and/or flaring caused by an emergency or malfunction	Yes
Did or will this venting and/or flaring last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a venting and/or flaring 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 or will there be at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this venting and/or flaring 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 venting and/or flaring 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 (CO2) 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 Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

Date(s) and Time(s)

Date venting and/or flaring was discovered or commenced	06/02/2021
Time venting and/or flaring was discovered or commenced	12:00 AM
Time venting and/or flaring was terminated	12:00 PM
Cumulative hours during this event	123

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Not answered.
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Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance Separator Natural Gas Flared Released: 4,108 Mcf Recovered: 0 Mcf Lost: 4,108 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 or is this venting and/or flaring a result of downstream activity	No
Was notification of downstream activity received by you or your operator	Yes
Downstream OGRID that should have notified you or your operator	[329800] Stakeholder Gas Utility, LLC
Date notified of downstream activity requiring this venting and/or flaring	06/02/2021
Time notified of downstream activity requiring this venting and/or flaring	02:00 AM

Steps and Actions to Prevent Waste	
For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	True
Please explain reason for why this event was beyond your 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 venting and/or flaring	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 venting and/or flaring	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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CONDITIONS

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Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 56707
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
hpankratz	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.	10/19/2021