Certificate of Analysis

Number: 6030-21080217-001A

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

Aug. 25, 2021

Station Name:	Saul Goodman Battery	Sampled By:	Derek Sauder
Station Number:	40405	Sample Of:	Gas Spot
Station Location:	Steward	Sample Date:	08/21/2021 01:45
Sample Point:	Meter Run	Sample Conditions:	48.9 psig, @ 101.2 °F Ambient: 91 °F
Instrument:	6030_GC2 (Agilent GC-7890B)	Effective Date:	08/21/2021 01:45
Last Inst. Cal.:	07/20/2021 12:57 PM	Method:	GPA 2286
Analyzed:	08/25/2021 09:50:34 by KNF	Cylinder No:	5030-01746

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia		
Hydrogen Sulfide	0.000	0.90600	1.300		GPM TOTAL C2+	6.078
Nitrogen	4.645	4.64300	5.478		GPM TOTAL C3+	3.114
Methane	68.242	68.21700	46.087		GPM TOTAL iC5+	0.837
Carbon Dioxide	5.101	5.09900	9.450			
Ethane	11.071	11.06700	14.014	2.964		
Propane	5.422	5.42000	10.065	1.495		
Iso-butane	0.797	0.79700	1.951	0.261		
n-Butane	1.651	1.65000	4.039	0.521		
Iso-pentane	0.520	0.52000	1.580	0.190		
n-Pentane	0.542	0.54200	1.647	0.197		
Hexanes Plus	1.139	1.13900	4.389	0.450		
	99.130	100.00000	100.000	6.078		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8227	3.1454
Calculated Molecular Weight	23.75	91.10
Compressibility Factor	0.9960	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	1209	4851
Water Sat. Gas Base BTU	1188	4766
Ideal, Gross HV - Dry at 14.696 psia	1204.5	4851.0
Ideal, Gross HV - Wet	1183.5	0.000

Comments: H2S Field Content 9,059 ppm
Mcf/day 277.0

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.

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Aug. 25, 2021

Station Name: Saul Goodman Battery
Station Number: 40405
Station Location: Steward
Sample Point: Meter Run
Analyzed: 08/25/2021 08:58:14 by KNF

Sampled By: Derek Sauder
Sample Of: Gas Spot
Sample Date: 08/21/2021 01:45
Sample Conditions: 48.9 psig, @ 101.2 °F
Method: GPA 2286
Cylinder No: 5030-01746

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Hydrogen Sulfide	0.906	1.300	
Nitrogen	4.643	5.478	
Methane	68.217	46.087	
Carbon Dioxide	5.099	9.450	
Ethane	11.067	14.014	2.964
Propane	5.420	10.065	1.495
Iso-Butane	0.797	1.951	0.261
n-Butane	1.650	4.039	0.521
Iso-Pentane	0.520	1.580	0.190
n-Pentane	0.542	1.647	0.197
i-Hexanes	0.291	1.037	0.116
n-Hexane	0.166	0.591	0.067
Benzene	0.136	0.447	0.038
Cyclohexane	0.065	0.229	0.022
i-Heptanes	0.189	0.743	0.077
n-Heptane	0.048	0.203	0.022
Toluene	0.058	0.225	0.020
i-Octanes	0.101	0.458	0.046
n-Octane	0.014	0.065	0.007
Ethylbenzene	0.017	0.074	0.006
Xylenes	0.011	0.050	0.004
i-Nonanes	0.022	0.117	0.011
n-Nonane	0.006	0.033	0.004
Decanes Plus	0.015	0.117	0.010
	100.000	100.000	6.078

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Aug. 25, 2021

Station Name:	Saul Goodman Battery	Sampled By:	Derek Sauder
Station Number:	40405	Sample Of:	Gas Spot
Station Location:	Steward	Sample Date:	08/21/2021 01:45
Sample Point:	Meter Run	Sample Conditions:	48.9 psig, @ 101.2 °F
Analyzed:	08/25/2021 08:58:14 by KNF	Method:	GPA 2286
		Cylinder No:	5030-01746

Calculated Physical Properties	**Total**	**C10+**
Calculated Molecular Weight	23.75	153.25
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	1209.3	8253.1
Water Sat. Gas Base BTU	1188.2	8076.8
Relative Density Real Gas	0.8227	5.2913
Compressibility Factor	0.9960	
Ideal, Gross HV - Wet	1183.5	
Ideal, Gross HV - Dry at 14.696 psia	1204.5	
Net BTU Dry Gas - real gas	1099	
Net BTU Wet Gas - real gas	1080	

Comments: H2S Field Content 9,059 ppm
Mcf/day 277.0

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.

Date	Gas Flare	Gas Prod	Approx Hrs	Midstream (Stakeholder) Plant/Gathering Upset Documentation
6/30/2021	1	199	0.12	Residue C-1435 down with bad DNFT switch
6/29/2021		199		
6/28/2021		197		
6/27/2021	4	202	0.48	Inlet 1140 down on lube oil no flow
6/26/2021		198		
6/25/2021		199		
6/24/2021		200		
6/23/2021		200		
6/22/2021		188		
6/21/2021		215		
6/20/2021		199		
6/19/2021		201		
6/18/2021		202		
6/17/2021		201		
6/16/2021	14	203	1.66	Inlet suction control valve issue, up and down till new positioner arrived and installed 6/17
6/15/2021	142	197	17.30	Inlet suction control valve issue, up and down till new positioner arrived and installed 6/17
6/14/2021	111	200	13.32	Inlet suction control valve issue, up and down till new positioner arrived and installed 6/17
6/13/2021	54	205	6.32	Inlet suction control valve issue, up and down till new positioner arrived and installed 6/17
6/12/2021		200		
6/11/2021		201		
6/10/2021		198		
6/9/2021		198		
6/8/2021	50	192	6.25	Upset in amine system causing plant to go off-spec on H2S
6/7/2021		199		
6/6/2021	79	203	9.34	Inlet suction control valve blip causing to lose plant for a short time
6/5/2021	35	193	4.35	Inlet C-1110 down with eletrical issue, Inlet C-1150 down a couple times with engine speed lolo
6/4/2021		178		Power outage causing loss of plant
6/3/2021	38	191	4.77	Plant and offloads are at Capacity
6/2/2021	16	191	2.01	Inlet C-1140 down with a bad ECM from the power outage
6/1/2021		196		
	544	**5945**		

District I
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District II
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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 39410

QUESTIONS

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 39410
	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	**[30-025-45129] SAUL GOODMAN FEE #002H**
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 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	Producing Well
Additional details for Equipment Involved. Please specify	*Not answered.*

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	0
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.*

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	66

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 | Refinery | Natural Gas Flared | Released: 2,107 Mcf | Recovered: 0 Mcf | Lost: 2,107 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	Yes
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	11:45 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

Action 39410

CONDITIONS

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 39410
	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.	10/14/2021