Certificate of Analysis

Number: 6030-21050275-002A

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

May 28, 2021

Station Name:	Dog Bar Sales Check	Sampled By:	Cameron Rivera
Station Number:	146-2131	Sample Of:	Gas Spot
Station Location:	Steward	Sample Date:	05/25/2021 01:00
Sample Point:	Meter Run	Sample Conditions:	60.5 psig, @ 104.2 °F Ambient: 96 °F
Instrument:	6030_GC2 (Agilent GC-7890B)	Effective Date:	05/25/2021 01:00
Last Inst. Cal.:	05/18/2021 10:19 AM	Method:	GPA 2286
Analyzed:	05/28/2021 07:42:07 by KNF	Cylinder No:	5030-01289

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia		
Hydrogen Sulfide	0.000	1.02400	1.438		GPM TOTAL C2+	6.634
Nitrogen	4.668	4.70400	5.430		GPM TOTAL C3+	3.220
Methane	64.903	65.40000	43.231		GPM TOTAL iC5+	0.820
Carbon Dioxide	5.627	5.67000	10.282			
Ethane	12.649	12.74600	15.792	3.414		
Propane	5.740	5.78400	10.509	1.596		
Iso-butane	0.757	0.76300	1.827	0.250		
n-Butane	1.740	1.75300	4.198	0.554		
Iso-pentane	0.514	0.51800	1.540	0.190		
n-Pentane	0.511	0.51500	1.531	0.187		
Hexanes Plus	1.114	1.12300	4.222	0.443		
	98.223	100.00000	100.000	6.634		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8410	3.1420
Calculated Molecular Weight	24.27	91.00
Compressibility Factor	0.9958	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	1221	4845
Water Sat. Gas Base BTU	1200	4760
Ideal, Gross HV - Dry at 14.696 psia	1215.9	4844.7
Ideal, Gross HV - Wet	1194.7	0.000

Comments: H2S Field Content 10,240 ppm
Mcf/day 67.1

Report generated by: Krystle Fitzwater

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

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May 28, 2021

Station Name: Dog Bar Sales Check
Station Number: 146-2131
Station Location: Steward
Sample Point: Meter Run
Analyzed: 05/28/2021 09:47:18 by KNF

Sampled By: Cameron Rivera
Sample Of: Gas Spot
Sample Date: 05/25/2021 01:00
Sample Conditions: 60.5 psig, @ 104.2 °F
Method: GPA 2286
Cylinder No: 5030-01289

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Hydrogen Sulfide	1.024	1.438	
Nitrogen	4.704	5.430	
Methane	65.400	43.231	
Carbon Dioxide	5.670	10.282	
Ethane	12.746	15.792	3.414
Propane	5.784	10.509	1.596
Iso-Butane	0.763	1.827	0.250
n-Butane	1.753	4.198	0.554
Iso-Pentane	0.518	1.540	0.190
n-Pentane	0.515	1.531	0.187
i-Hexanes	0.289	1.004	0.115
n-Hexane	0.164	0.563	0.066
Benzene	0.136	0.439	0.038
Cyclohexane	0.063	0.218	0.021
i-Heptanes	0.189	0.726	0.077
n-Heptane	0.047	0.197	0.022
Toluene	0.059	0.225	0.020
i-Octanes	0.094	0.423	0.043
n-Octane	0.013	0.061	0.007
Ethylbenzene	0.016	0.071	0.006
Xylenes	0.011	0.047	0.004
i-Nonanes	0.022	0.110	0.011
n-Nonane	0.006	0.031	0.003
Decanes Plus	0.014	0.107	0.010
	100.000	100.000	6.634

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May 28, 2021

Station Name:	Dog Bar Sales Check	Sampled By:	Cameron Rivera
Station Number:	146-2131	Sample Of:	Gas Spot
Station Location:	Steward	Sample Date:	05/25/2021 01:00
Sample Point:	Meter Run	Sample Conditions:	60.5 psig, @ 104.2 °F
Analyzed:	05/28/2021 09:47:18 by KNF	Method:	GPA 2286
		Cylinder No:	5030-01289

Calculated Physical Properties	**Total**	**C10+**
Calculated Molecular Weight	24.27	157.75
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	1221.0	8551.8
Water Sat. Gas Base BTU	1199.7	8367.7
Relative Density Real Gas	0.8410	5.4466
Compressibility Factor	0.9958	
Ideal, Gross HV - Wet	1194.7	
Ideal, Gross HV - Dry at 14.696 psia	1215.9	
Net BTU Dry Gas - real gas	1110	
Net BTU Wet Gas - real gas	1091	

Comments: H2S Field Content 10,240 ppm
Mcf/day 67.1

Report generated by: Krystle Fitzwater

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	2	53.99	0.88	Residue C-1435 down with bad DNFT switch
6/29/2021	3	35.8	1.88	Residue C-1435 down with bad DNFT switch
6/28/2021	27	69.07	9.41	Residue C-1435 down with bad DNFT switch
6/27/2021	27	77.29	8.47	Residue C-1435 down with bad DNFT switch
6/26/2021	30	68.09	10.61	Residue C-1435 down with bad DNFT switch
6/25/2021	5	33.65	3.32	Residue C-1435 down with bad DNFT switch
6/24/2021	10	73.34	3.38	Residue C-1435 down with bad DNFT switch
6/23/2021	40	75.21	12.83	Residue C-1435 down with bad DNFT switch
6/22/2021	73	110.37	15.95	Inlet 1140 down on lube oil no flow
6/21/2021	73	120.08	14.61	Inlet 1140 down on lube oil no flow
6/20/2021	74	140.65	12.57	Inlet 1140 down on lube oil no flow
6/19/2021	74	148.01	12.00	Inlet 1140 down on lube oil no flow
6/18/2021	74	151.47	11.80	Inlet 1140 down on lube oil no flow
6/17/2021	76	147.52	12.29	Inlet 1140 down on lube oil no flow
6/16/2021	81	129.33	15.09	Inlet suction control valve issue, up and down till new positioner arrived and installed 6/17
6/15/2021	83	99.63	19.90	Inlet suction control valve issue, up and down till new positioner arrived and installed 6/17
6/14/2021	78	125.27	15.00	Inlet suction control valve issue, up and down till new positioner arrived and installed 6/17
6/13/2021	79	104.14	18.24	Inlet suction control valve issue, up and down till new positioner arrived and installed 6/17
6/12/2021	78	141.44	13.31	Upset in amine system causing plant to go off-spec on H2S
6/11/2021	89	120.93	17.65	Upset in amine system causing plant to go off-spec on H2S
6/10/2021	81	127.13	15.32	Upset in amine system causing plant to go off-spec on H2S
6/9/2021	76	123.37	14.86	Upset in amine system causing plant to go off-spec on H2S
6/8/2021	79	168.13	11.30	Upset in amine system causing plant to go off-spec on H2S
6/7/2021	82	195.49	10.13	Upset in amine system causing plant to go off-spec on H2S
6/6/2021	161	227.52	16.93	Inlet suction control valve blip causing to lose plant for a short time
6/5/2021	119	260.63	10.92	Inlet C-1110 down with eletrical issue, Inlet C-1150 down a couple times with engine speed lolo
6/4/2021	21	196.21	2.59	Power outage causing loss of plant
6/3/2021	199	230.05	20.77	Plant and offloads are at Capacity
6/2/2021	84	147.28	13.73	Inlet C-1140 down with a bad ECM from the power outage
6/1/2021	0	147.09	0.00	
	1980	**3848**	**346**	

District I
1625 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 56692

QUESTIONS

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 56692
	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	**[30-025-42873] DOG BAR 11 FEE #001H**
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	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	65
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	6
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	0
Nitrogen (N2) percentage quality requirement	0
Hydrogen Sufide (H2S) PPM quality requirement	0
Carbon Dioxide (C02) percentage quality requirement	0
Oxygen (02) percentage quality requirement	0

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	346

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: 1,980 Mcf | Recovered: 0 Mcf | Lost: 1,980 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	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

Action 56692

CONDITIONS

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 56692
	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