



Certificate of Analysis

Number: 6030-22070054-001A

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 06, 2022

Station Name: Babineaux 2H
Station Number: 57270138
Station Location: Steward
Sample Point: Meter Run
Instrument: 6030_GC2 (Agilent GC-7890B)
Last Inst. Cal.: 05/17/2022 7:56 AM
Analyzed: 07/06/2022 07:48:12 by KNF

Sampled By: Cameron Rivera
Sample Of: Gas Spot
Sample Date: 07/05/2022 10:30
Sample Conditions: 75.8 psia, @ 113 °F Ambient: 85 °F
Effective Date: 07/05/2022 10:30
Method: GPA 2286
Cylinder No: 5030-00621

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.93900	1.223		GPM TOTAL C2+	7.840
Nitrogen	5.342	5.35700	5.736		GPM TOTAL C3+	4.310
Methane	60.350	60.51600	37.111		GPM TOTAL iC5+	1.308
Carbon Dioxide	6.351	6.36800	10.713			
Ethane	13.101	13.13700	15.099	3.530		
Propane	6.939	6.95800	11.728	1.925		
Iso-butane	0.987	0.99000	2.199	0.326		
n-Butane	2.362	2.36900	5.263	0.751		
Iso-pentane	0.706	0.70800	1.953	0.261		
n-Pentane	0.770	0.77200	2.129	0.281		
Hexanes Plus	1.881	1.88600	6.846	0.766		
	98.789	100.00000	100.000	7.840		

Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	0.9070	3.2576
Calculated Molecular Weight	26.16	94.35
Compressibility Factor	0.9951	

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.73 psia & 60°F

Real Gas Dry BTU	1297	5018
Water Sat. Gas Base BTU	1275	4931
Ideal, Gross HV - Dry at 14.73 psia	1290.9	5018.2
Ideal, Gross HV - Wet	1268.4	0.000

Comments: H2S Field Content 9394 ppm
Mcf/day 354

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 06, 2022

Station Name: Babineaux 2H
Station Number: 57270138
Station Location: Steward
Sample Point: Meter Run
Analyzed: 07/06/2022 07:45:45 by KNF

Sampled By: Cameron Rivera
Sample Of: Gas Spot
Sample Date: 07/05/2022 10:30
Sample Conditions: 75.8 psia, @ 113 °F
Method: GPA 2286
Cylinder No: 5030-00621

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia
Hydrogen Sulfide	0.939	1.223	
Nitrogen	5.357	5.736	
Methane	60.516	37.111	
Carbon Dioxide	6.368	10.713	
Ethane	13.137	15.099	3.530
Propane	6.958	11.728	1.925
Iso-Butane	0.990	2.199	0.326
n-Butane	2.369	5.263	0.751
Iso-Pentane	0.708	1.953	0.261
n-Pentane	0.772	2.129	0.281
i-Hexanes	0.380	1.225	0.152
n-Hexane	0.222	0.748	0.093
Benzene	0.198	0.591	0.056
Cyclohexane	0.099	0.314	0.034
i-Heptanes	0.300	1.061	0.122
n-Heptane	0.086	0.328	0.040
Toluene	0.109	0.386	0.037
i-Octanes	0.198	0.812	0.090
n-Octane	0.038	0.164	0.019
Ethylbenzene	0.052	0.214	0.020
Xylenes	0.045	0.186	0.017
i-Nonanes	0.081	0.372	0.041
n-Nonane	0.030	0.154	0.017
Decanes Plus	0.048	0.291	0.028
	100.000	100.000	7.840



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July 06, 2022

Station Name: Babineaux 2H
Station Number: 57270138
Station Location: Steward
Sample Point: Meter Run
Analyzed: 07/06/2022 07:45:45 by KNFSampled By: Cameron Rivera
Sample Of: Gas Spot
Sample Date: 07/05/2022 10:30
Sample Conditions: 75.8 psia, @ 113 °F
Method: GPA 2286
Cylinder No: 5030-00621

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	26.16	144.43
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1297.3	7728.1
Water Sat. Gas Base BTU	1274.7	7556.4
Relative Density Real Gas	0.9070	4.9867
Compressibility Factor	0.9951	
Ideal, Gross HV - Wet	1268.4	
Ideal, Gross HV - Dry at 14.73 psia	1290.9	
Net BTU Dry Gas - real gas	1182	
Net BTU Wet Gas - real gas	1161	

Comments: H2S Field Content 9394 ppm
Mcf/day 354

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>
6/1/2022	81	313.77	6.20	NRU issues from power outages resulting in reduced flow
6/2/2022	90	320.04	6.72	NRU issues from power outages resulting in reduced flow
6/3/2022	221	349.88	15.15	Power outage at Campo - Estimated downtime
6/4/2022	197	288.25	16.38	Power outage at Campo - Estimated downtime
6/5/2022	229	327.39	16.81	NRU issues from power outages resulting in reduced flow
6/6/2022	197	284.38		NRU issues from power outages resulting in reduced flow
6/7/2022	197	459.65	10.29	NRU issues from power outage resulting in full NRU warmup, reduce flow on off spec waiver to Kinder Morgan
6/8/2022	134	297.40	10.84	NRU issues from power outage resulting in full NRU warmup, reduce flow on off spec waiver to Kinder Morgan
6/9/2022	123	316.09	9.34	NRU issues from power outage resulting in full NRU warmup, reduce flow on off spec waiver to Kinder Morgan
6/10/2022	126	294.19	10.25	NRU issues from power outage resulting in full NRU warmup, reduce flow on off spec waiver to Kinder Morgan
6/11/2022	126	333.20	9.05	NRU issues from power outage resulting in full NRU warmup, reduce flow on off spec waiver to Kinder Morgan
6/12/2022	82	307.32	6.43	NRU issues from power outage resulting in full NRU warmup, reduce flow on off spec waiver to Kinder Morgan
6/13/2022	81	302.82	6.42	NRU issues from power outage resulting in full NRU warmup, reduce flow on off spec waiver to Kinder Morgan
6/14/2022	112	299.00	9.02	NRU warmup and cooldown complete and working plant volume back up
6/15/2022	124	315.00	9.44	Continued working plant volumes back up, Refridge compressor issues and loss of fan blade on NRU causing reduced flow for estimated 10hrs
6/16/2022	155	310.00	12.01	Refridgeration compressor and NRU issues, estimated reduced flow
6/17/2022	69	320.00	5.18	Cut back inlet flow due to H2S spiking on Dehy bed, estimated reduced flow
6/18/2022	40	318.00	3.04	Multiple compressors up and down a couple times
6/19/2022	90	314.00	6.89	Refridgeration compressor vibration issues, stayed lower rate until fixed 6/21
6/20/2022	94	312.95	7.20	Refridgeration compressor vibration issues, stayed lower rate until fixed 6/20
6/21/2022	54	313.00	4.11	Campo Viejo started ramping up volume with Expansion project
6/22/2022	47	318.03	3.57	Campo Viejo started ramping up volume with Expansion project
6/23/2022	32	317.85	2.43	Campo Viejo started ramping up volume with Expansion project
6/24/2022	149	329.00	10.84	Tulsa heaters was tuning existing HMO heater causin plant to go sour Est.
6/25/2022	28	339.00	1.97	Plant to full capacity, continued tuning to maximze volumes
6/26/2022	0	362.00	0.00	
6/27/2022	0	349.35	0.00	
6/28/2022	0	368.56	0.00	
6/29/2022	0	345.65	0.00	
6/30/2022	0	359.51	0.00	
	2878	9785	199.58	

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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 129476

DEFINITIONS

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 129476
	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">• 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 129476

QUESTIONS

Operator: STEWART ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 129476
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Prerequisites	
<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	[30-025-48744] BABINEAUX FEE #002H
Incident Facility	Not answered.

Determination of Reporting Requirements	
<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 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 within 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	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	61
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	6
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 129476

QUESTIONS (continued)

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 129476
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	06/01/2022
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	200

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: 2,878 Mcf Recovered: 0 Mcf Lost: 2,878 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	06/01/2022
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

Action 129476

ACKNOWLEDGMENTS

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 129476
	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 complete 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 129476

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Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 129476
	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.	7/28/2022