



Certificate of Analysis

Number: 5030-21080736-001A

Midland Laboratory

2200 East I-20

Midland, TX 79706

Phone 432-689-7252

Station Name: LOVE SHACK SALES CHECK

Method: GPA 2286

Cylinder No: 5030-01380

Analyzed: 09/02/2021 17:07:18 by ARP

Sep. 03, 2021

Sampled By: BRIAN PLOWMAN

Sample Of: Gas Spot

Sample Date: 08/28/2021 13:50

Sample Conditions: 160 psig, @ 119 °F

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.010	0.014		GPM TOTAL C2+ 8.461
Nitrogen	1.370	1.547		GPM TOTAL C3+ 4.943
Carbon Dioxide	2.175	3.858		GPM TOTAL iC5+ 1.062
Methane	67.173	43.431		
Ethane	13.123	15.904	3.518	
Propane	8.570	15.231	2.367	
Iso-butane	1.287	3.015	0.422	
n-Butane	3.454	8.091	1.092	
Iso-pentane	0.892	2.594	0.327	
n-Pentane	0.935	2.719	0.340	
Hexanes Plus	1.011	3.596	0.395	
	100.000	100.000	8.461	

Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	0.8604	3.0269
Calculated Molecular Weight	24.81	87.67
Compressibility Factor	0.9950	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1409	4736
Water Sat. Gas Base BTU	1384	4654

Comments: H2S Field Content 100 ppm

Data reviewed by: Marco Barrientos

Quality Assurance:

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



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Components	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.010	0.014		GPM TOTAL C2+
Nitrogen	1.370	1.547		GPM TOTAL C3+
Methane	67.173	43.431		GPM TOTAL iC5+
Carbon Dioxide	2.175	3.858		
Ethane	13.123	15.904	3.518	
Propane	8.570	15.231	2.367	
Iso-Butane	1.287	3.015	0.422	
n-Butane	3.454	8.091	1.092	
Iso-Pentane	0.892	2.594	0.327	
n-Pentane	0.935	2.719	0.340	
Hexanes	0.536	1.808	0.210	
Heptanes Plus	0.475	1.788	0.185	
	100.000	100.000	8.461	

Calculated Physical Properties

	Total	C7+
Relative Density Real Gas	0.8604	3.2052
Calculated Molecular Weight	24.81	92.83
Compressibility Factor	0.9950	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1409.0	4932.0
Water Sat. Gas Base BTU	1384.4	4846.0

Comments: H2S Field Content 100 ppm

Data reviewed by: Marco Barrientos

Quality Assurance:

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Sampled By: BRIAN PLOWMAN

Sample Of: Gas Spot

Sample Date: 08/28/2021 13:50

Sample Conditions: 160 psig, @ 119 °F

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.010	0.014		GPM TOTAL C2+ 8.461
Nitrogen	1.370	1.547		
Carbon Dioxide	2.175	3.858		
Methane	67.173	43.431		
Ethane	13.123	15.904	3.518	
Propane	8.570	15.231	2.367	
Iso-Butane	1.287	3.015	0.422	
n-Butane	3.454	8.091	1.092	
Iso-Pentane	0.892	2.594	0.327	
n-Pentane	0.935	2.719	0.340	
i-Hexanes	0.346	1.131	0.130	
n-Hexane	0.190	0.677	0.080	
Benzene	0.025	0.079	0.007	
Cyclohexane	0.088	0.301	0.030	
i-Heptanes	0.209	0.775	0.083	
n-Heptane	0.036	0.144	0.017	
Toluene	0.018	0.065	0.006	
i-Octanes	0.088	0.358	0.037	
n-Octane	0.006	0.027	0.003	
Ethylbenzene	0.001	0.002	0.000	
Xylenes	0.002	0.007	0.001	
i-Nonanes	0.002	0.022	0.001	
n-Nonane	0.000	0.002	0.000	
Decane Plus	0.000	0.006	0.000	
	100.000	100.000	8.461	

Calculated Physical Properties

	Total	C10+
Relative Density Real Gas	0.8604	0.0000
Calculated Molecular Weight	24.81	0.00
Compressibility Factor	0.9950	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1409.0	0.000
Water Sat. Gas Base BTU	1384.4	0.000

Comments: H2S Field Content 100 ppm

Data reviewed by: Marco Barrientos

Quality Assurance:

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

FLARING SUMMARY

Battery	Date	Total Flare Vol (mcf)	Hrs Flared	Start		End	
El Campeon 214H	2/21/2022	2469	24	2/21/2022	0000	2/21/2022	2359

District I
1625 N. French Dr., Hobbs, NM 88240
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District II
811 S. First St., Artesia, NM 88210
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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

DEFINITIONS

Action 83569

DEFINITIONS

Operator: Titus Oil & Gas Production, LLC 420 Throckmorton St, Ste 1150 Fort Worth, TX 76012	OGRID: 373986
	Action Number: 83569
	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 83569

QUESTIONS

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	Action Number: 83569
	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	[30-025-48108] EL CAMPEON FEDERAL COM #214H
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 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	Well
Additional details for Equipment Involved. Please specify	Flaring gas due to high H2S while awaiting ultra fab install for well

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	67
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	1,400
Carbon Dioxide (CO2) percentage, if greater than one percent	2
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.

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QUESTIONS, Page 2

Action 83569

QUESTIONS (continued)

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	Action Number: 83569
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/21/2022
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	24

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Repair and Maintenance Well Natural Gas Flared Released: 2,469 Mcf Recovered: 0 Mcf Lost: 2,469 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	No
Was notification of downstream activity received by this operator	Not answered.
Downstream OGRID that should have notified this operator	Not answered.
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

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	Flaring gas due to high H2S while awaiting ultra fab install for well
Steps taken to limit the duration and magnitude of vent or flare	Standard PM. Worked with vendor to coordinate service time and minimize downtime
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Standard PM. No way to avoid periodic downtime while awaiting parts for install

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ACKNOWLEDGMENTS

Action 83569

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Operator: Titus Oil & Gas Production, LLC 420 Throckmorton St, Ste 1150 Fort Worth, TX 76012	OGRID: 373986
	Action Number: 83569
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☒	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.
☒	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

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	Action Number: 83569
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CONDITIONS

Created By	Condition	Condition Date
rdelong	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.	2/23/2022