Certificate of Analysis

Number: 6030-22110047-001A

Artesia Laboratory
200 E Main St.
Artesia, NM 88210
Phone 575-746-3481

Jerry Mathews
Spur Energy
1012 Marquez Place, Suite 106b
Santa Fe, NM 87505

Nov. 04, 2022

Station Name:	JG 16 State Com 20H	Sampled By:	Arnulfo Herrera
Station Number:	69410049	Sample Of:	Gas Spot
Station Location:	Spur	Sample Date:	10/27/2022
Sample Point:	Meter Run	Sample Conditions:	106 psig, @ 90 °F Ambient: 53 °F
Instrument:	6030_GC2 (Agilent GC-7890B)	Effective Date:	10/27/2022
Last Inst. Cal.:	09/12/2022 12:00 PM	Method:	GPA 2286
Analyzed:	11/03/2022 12:32:26 by EBH	Cylinder No:	1111-008061

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Nitrogen	2.354	2.41200	2.952		GPM TOTAL C2+	7.151
Methane	70.366	72.11400	50.542		GPM TOTAL C3+	3.570
Carbon Dioxide	0.597	0.61200	1.177		GPM TOTAL iC5+	0.789
Ethane	13.017	13.34000	17.525	3.581		
Propane	6.586	6.75000	13.004	1.867		
Iso-butane	0.826	0.84700	2.151	0.279		
n-Butane	1.960	2.00900	5.102	0.635		
Iso-pentane	0.461	0.47200	1.488	0.173		
n-Pentane	0.473	0.48500	1.529	0.176		
Hexanes Plus	0.936	0.95900	4.530	0.440		
	97.576	100.00000	100.000	7.151		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7932	3.7221
Calculated Molecular Weight	22.89	107.80
Compressibility Factor	0.9959	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1329	5760
Water Sat. Gas Base BTU	1306	5659
Ideal, Gross HV - Dry at 14.73 psia	1323.8	5759.7
Ideal, Gross HV - Wet	1300.8	0.000

Hydrocarbon 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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Station Name: JG 16 State Com 20H
Station Number: 69410049
Station Location: Spur
Sample Point: Meter Run
Analyzed: 11/03/2022 12:31:21 by EBH

Sampled By: Arnulfo Herrera
Sample Of: Gas Spot
Sample Date: 10/27/2022
Sample Conditions: 106 psig, @ 90 °F
Method: GPA 2286
Cylinder No: 1111-008061

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia
Hydrogen Sulfide	0.000	0.000	
Nitrogen	2.412	2.952	
Methane	72.114	50.542	
Carbon Dioxide	0.612	1.177	
Ethane	13.340	17.525	3.581
Propane	6.750	13.004	1.867
Iso-Butane	0.847	2.151	0.279
n-Butane	2.009	5.102	0.635
Iso-Pentane	0.472	1.488	0.173
n-Pentane	0.485	1.529	0.176
i-Hexanes	0.168	0.614	0.066
n-Hexane	0.087	0.305	0.033
Benzene	0.076	0.260	0.021
Cyclohexane	0.058	0.215	0.020
i-Heptanes	0.117	0.471	0.047
n-Heptane	0.021	0.092	0.010
Toluene	0.035	0.141	0.012
i-Octanes	0.070	0.329	0.032
n-Octane	0.011	0.055	0.006
Ethylbenzene	0.010	0.050	0.004
Xylenes	0.025	0.126	0.010
i-Nonanes	0.050	0.268	0.026
n-Nonane	0.027	0.149	0.015
Decanes Plus	0.204	1.455	0.138
	100.000	100.000	7.151

Certificate of Analysis

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Nov. 04, 2022

Station Name: JG 16 State Com 20H
Station Number: 69410049
Station Location: Spur
Sample Point: Meter Run
Analyzed: 11/03/2022 12:31:21 by EBH

Sampled By: Arnulfo Herrera
Sample Of: Gas Spot
Sample Date: 10/27/2022
Sample Conditions: 106 psig, @ 90 °F
Method: GPA 2286
Cylinder No: 1111-008061

Calculated Physical Properties	**Total**	**C10+**
Calculated Molecular Weight	22.89	160.16
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1329.3	8668.2
Water Sat. Gas Base BTU	1306.2	8482.3
Relative Density Real Gas	0.7932	5.5300
Compressibility Factor	0.9959	
Ideal, Gross HV - Wet	1300.8	
Ideal, Gross HV - Dry at 14.73 psia	1323.8	
Net BTU Dry Gas - real gas	1208	
Net BTU Wet Gas - real gas	1187	

Hydrocarbon Laboratory Manager

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

Name of well or facility	Lat	Long	Daily Volume of Flared Natural Gas (MCF/D)	Commencement	Duration	Proposed Remedy
JG 16 STATE NORTH COM TANK BATTERY	32.838219	-103.778721	300 MCF/D	12/25/2022	10-HOURS	INCREASED LINE PRESSURE

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District IV
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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

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 171781
	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 171781

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 171781
	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	*Unavailable.*
Incident Facility	**[fAPP2229958299] JG 16 State North Com Tank Battery**

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 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, minor 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	*Not answered.*
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	72
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	1
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.*

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QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 171781
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	12/25/2022
Time vent or flare was discovered or commenced	05:00 AM
Time vent or flare was terminated	03:00 PM
Cumulative hours during this event	10

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	Cause: Equipment Failure | Valve | Natural Gas Flared | Released: 300 Mcf | Recovered: 0 Mcf | Lost: 300 Mcf.
Other Released Details	*Not answered.*
Additional details for Measured or Estimated Volume(s). Please specify	KIMRAY VALVE.
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	Line pressure exceeding operating capacity.
Steps taken to limit the duration and magnitude of vent or flare	Once we became aware, we repaired kimray valve.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Increased kimray valve operating pressure.

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ACKNOWLEDGMENTS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 171781
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit a *Venting and/or Flaring* (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

Action 171781

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 171781
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
schapman01	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.	1/3/2023