



## 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

Station Number: 69410049

Station Location: Spur

Sample Point: Meter Run

Instrument: 6030\_GC2 (Agilent GC-7890B)

Last Inst. Cal.: 09/12/2022 12:00 PM

Analyzed: 11/03/2022 12:32:26 by EBH

Sampled By: Arnulfo Herrera

Sample Of: Gas Spot

Sample Date: 10/27/2022

Sample Conditions: 106 psig, @ 90 °F Ambient: 53 °F

Effective Date: 10/27/2022

Method: GPA 2286

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	100.0000	100.000	7.151		

## Calculated Physical Properties

Relative Density Real Gas Total 0.7932 C6+ 3.7221

Calculated Molecular Weight 22.89 107.80

Compressibility Factor 0.9959

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 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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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 EBHSampled 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



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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 EBHSampled 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

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Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	22.89	160.16
<b>GPA 2172 Calculation:</b>		
<b>Calculated Gross BTU per ft<sup>3</sup> @ 14.73 psia &amp; 60°F</b>		
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	294 MCF/D	10/28/2022	Continuous	Continue to comply with 19.15.27.8.C

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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 156297

DEFINITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 156297
	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"><li>this application's operator, hereinafter "this operator";</li><li>venting and/or flaring, hereinafter "vent or flare";</li><li>any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul>
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QUESTIONS

Action 156297

**QUESTIONS**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 156297
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b> <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	Unavailable.
Incident Facility	[fAPP2229958299] JG 16 State North Com Tank Battery

<b>Determination of Reporting Requirements</b> <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	No
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.
<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 <b>ANY</b> 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

<b>Equipment Involved</b>	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b> <i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	72
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	1
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 156297

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 156297
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	10/28/2022
Time vent or flare was discovered or commenced	02:00 PM
Time vent or flare was terminated	02:00 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: Pipeline Quality Specifications   Valve   Natural Gas Flared   Released: 294 Mcf   Recovered: 0 Mcf   Lost: 294 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	Gas is currently exceeded quality specifications from gatherer.
Steps taken to limit the duration and magnitude of vent or flare	Continue to comply with 19.15.27.8.C.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Continue to comply with 19.15.27.8.C.

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ACKNOWLEDGMENTS

Action 156297

**ACKNOWLEDGMENTS**

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	Action Number: 156297
	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 <b>complete</b> 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 156297

**CONDITIONS**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 156297
	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.	11/4/2022