



## Certificate of Analysis

Number: 6030-21100228-007A

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

Oct. 26, 2021

Station Name: Live Oak 20H  
 Station Number: N/A  
 Station Location: Spur  
 Sample Point: Casing  
 Type of Sample: Spot-Cylinder  
 Heat Trace Used: N/A  
 Sampling Method: Fill and Purge  
 Sampling Company: SPL  
 Analyzed: 10/26/2021 10:30:06 by KNF

Sampled By: Nathan Payne  
 Sample Of: Gas Spot  
 Sample Date: 10/20/2021 01:30  
 Sample Conditions: 357 psig Ambient: 82 °F  
 Effective Date: 10/20/2021 01:30  
 Method: GPA-2261M  
 Cylinder No: 1111-001290  
 Instrument: 6030\_GC2 (Agilent GC-7890B)  
 Last Inst. Cal.: 09/13/2021 15:05 PM

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.10000	0.170		GPM TOTAL C2+	4.212
Nitrogen	2.493	2.54955	3.562		GPM TOTAL C3+	1.665
Methane	79.352	81.15214	64.932		GPM TOTAL iC5+	0.313
Carbon Dioxide	1.199	1.22620	2.692			
Ethane	9.287	9.49768	14.244	2.547		
Propane	3.368	3.44440	7.575	0.952		
Iso-butane	0.406	0.41521	1.204	0.136		
n-Butane	0.815	0.83349	2.416	0.264		
Iso-pentane	0.219	0.22397	0.806	0.082		
n-Pentane	0.179	0.18306	0.659	0.067		
Hexanes Plus	0.366	0.37430	1.740	0.164		
	97.684	100.00000	100.000	4.212		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.6941	3.2176
Calculated Molecular Weight	20.05	93.19
Compressibility Factor	0.9970	

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.73 psia & 60°F

Real Gas Dry BTU	1157	5141
Water Sat. Gas Base BTU	1138	5052
Ideal, Gross HV - Dry at 14.73 psia	1153.9	5141.1
Ideal, Gross HV - Wet	1133.8	5051.6

Comments: H2S Field Content 0.1 %

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.

Name of well or facility	Lat	Long	Daily Volume of Flared Natural Gas (MCF/D)	Commencement	Duration	Proposed Remedy
SHELBY 23 TANK BATTERY	32.636495	-104.449015	1357 MCF/D	2/1/2022	Continuous	ACO Requested
ROSS RANCH 09.13.14 BATTERY	32.636187	-104.47781	962 MCF/D	2/1/2022	Continuous	ACO Requested
OSAGE BOYD 15 FED 09.12.13.14 TANK BATTERY	32.652839	-104.478905	881 MCF/D	2/1/2022	Continuous	ACO Requested
LAKEWOOD FEDERAL COM NORTH BATTERY	32.625808	-104.469155	2513 MCF/D	2/1/2022	Continuous	ACO Requested
LAKEWOOD FEDERAL COM SOUTH BATTERY	32.608649	-104.479201	994 MCF/D	2/1/2022	Continuous	ACO Requested
DORAMI 33 FEDERAL COM 2H.4H.9H TANK BATTERY	32.614416	-104.478493	628 MCF/D	2/1/2022	Continuous	ACO Requested
HUBER 10, 11, 12 FEDERAL OIL TANK BATTERY	32.610648	-104.472851	505 MCF/D	2/1/2022	Continuous	ACO Requested
LIVE OAK TANK BATTERY	32.63657	-104.46929	1250 MCF/D	2/1/2022	Continuous	Gas Rerouted
ROSE SOUTH TANK BATTERY	32.67021	-104.42768	2869 MCF/D	2/1/2022	Continuous	Gas Rerouted
NIRVANA TANK BATTERY	32.84504	-104.09012	1250 MCF/D	2/1/2022	Continuous	Pipeline Specs
BONE YARD 11 FEE TANK BATTERY	32.5957685	-104.4593576	121 MCF/D	2/1/2022	Continuous	Gas Rerouted
BRADLEY 8 FEE 2H TANK BATTERY	32.66864	-104.40662	295 MCF/D	2/1/2022	Continuous	Gas Rerouted
BRADLEY 8 FEE 3H TANK BATTERY	32.66848	-104.40279	156 MCF/D	2/1/2022	Continuous	Gas Rerouted
BRAGG 10 FEE 1H TANK BATTERY	32.6688	-104.37643	52 MCF/D	2/1/2022	Continuous	Gas Rerouted
CLYDESDALE 1 FEE 6H TANK BATTERY	32.686736	-104.4301336	175 MCF/D	2/1/2022	Continuous	Gas Rerouted
CLYDESDALE 1 FEE 1H TANK BATTERY	32.6961899	-104.430336	312 MCF/D	2/1/2022	Continuous	Gas Rerouted
FALABELLA 31 FEE 1H TANK BATTERY	32.6976433	-104.4286118	57 MCF/D	2/1/2021	Continuous	Gas Rerouted
LEE 3 FEE TANK BATTERY	32.68294	-104.37102	67 MCF/D	2/1/2022	Continuous	Gas Rerouted
PAINT 32 FEE TANK BATTERY	32.70285	-104.41207	450 MCF/D	2/1/2022	Continuous	Gas Rerouted
PATTON 5 FEE 2H TANK BATTERY	32.69414	-104.41225	106 MCF/D	2/1/2022	Continuous	Gas Rerouted
PATTON 5 FEE 8H TANK BATTERY	32.68356	-104.4117	68 MCF/D	2/1/2022	Continuous	Gas Rerouted
PINTO 36 STATE COM 1H TANK BATTERY	32.69751	-104.44541	198 MCF/D	2/1/2022	Continuous	Gas Rerouted
PINTO 36 STATE COM 4H TANK BATTERY	32.69744	-104.43249	198 MCF/D	2/1/2022	Continuous	Gas Rerouted
SHERMAN 4 FEE 6H TANK BATTERY	32.6829758	-104.3882675	109 MCF/D	2/1/2022	Continuous	Gas Rerouted
STONEWALL 9 FEE 1H TANK BATTERY	32.66901	-104.39391	121 MCF/D	2/1/2022	Continuous	Gas Rerouted

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**District II**  
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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**  
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DEFINITIONS  
  
Action 79090

DEFINITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 79090
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 79090

**QUESTIONS**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 79090
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

**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 Operator	[328947] Spur Energy Partners LLC
Incident Type	Flare
Incident Status	Closure Not Approved
Incident Well	Not answered.
Incident Facility	[fAPP2126536127] Live Oak Central Tank Battery
<i>Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.</i>	

**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	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, 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 <b>at least 50 MCF</b> 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

**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	81
Nitrogen (N2) percentage, if greater than one percent	3
Hydrogen Sulfide (H2S) PPM, rounded up	1,000
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 79090

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 79090
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/01/2022
Time vent or flare was discovered or commenced	05:00 PM
Time vent or flare was terminated	05:00 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: Midstream Scheduled Maintenance   Other (Specify)   Natural Gas Flared   Released: 1,250 Mcf   Recovered: 0 Mcf   Lost: 1,250 Mcf ]
Other Released Details	Cause:     Other (Specify)   Released: 0 (Unknown Released Amount)   Recovered: 0   Lost: 0 ]
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	[221115] FRONTIER FIELD SERVICES, LLC
Date notified of downstream activity requiring this vent or flare	01/28/2022
Time notified of downstream activity requiring this vent or flare	12:00 PM

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	Durango requested we flare so they can perform tie-in operations.
Steps taken to limit the duration and magnitude of vent or flare	Rerouted gas to other midstream companies as capacity allowed.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Rerouted gas to other midstream companies as capacity allowed.

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ACKNOWLEDGMENTS

Action 79090

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**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
<input checked="" type="checkbox"/>	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
<input checked="" type="checkbox"/>	I hereby certify the statements in this amending 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 79090

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	Action Number: 79090
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**CONDITIONS**

Created By	Condition	Condition Date
schapman01	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	2/7/2022