



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 ft³ @ 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	1545 MCF/D	10/19/2021	Continuous	ACO Requested
OSAGE BOYD 15 FED 09.12.13.14 TANK BATTERY	32.652839	-104.478905	1558 MCF/D	10/19/2021	Continuous	ACO Requested
LAKEWOOD FEDERAL COM NORTH BATTERY	32.625808	-104.469155	2833 MCF/D	10/19/2021	Continuous	ACO Requested
LAKEWOOD FEDERAL COM SOUTH BATTERY	32.608649	-104.479201	1598 MCF/D	10/19/2021	Continuous	ACO Requested
DORAMI 33 FEDERAL COM 2H.4H.9H TANK BATTERY	32.614416	-104.478493	889 MCF/D	10/19/2021	Continuous	ACO Requested
LIVE OAK TANK BATTERY	32.63657	-104.46929	859 MCF/D	10/19/2021	Continuous	ACO Requested
MORRIS BOYD TANK BATTERY	32.64057	-104.45889	1509 MCF/D	10/19/2021	Continuous	Gas Rerouted
GOODMAN 22 TANK BATTERY	32.64524	-104.47354	1402 MCF/D	10/19/2021	Continuous	Gas Rerouted
B&B ROSS RANCH OIL TANK BATTERY	32.648341	-104.479356	550 MCF/D	10/19/2021	Continuous	Gas Rerouted
ARKANSAS STATE 23 TANK BATTERY	32.64708	-104.45659	61 MCF/D	10/19/2021	Continuous	Gas Rerouted

District I1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720**District II**811 S. First St., Artesia, NM 88210
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
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 58977

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 58977
	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	Not answered.
Incident Facility	[fAPP2126536127] Live Oak Central Tank Battery

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 or is this venting and/or flaring caused by an emergency or malfunction	No
Did or will this venting and/or flaring last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a venting and/or flaring 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 or will there be at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this venting and/or flaring 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 venting and/or flaring 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	81
Nitrogen (N2) percentage, if greater than one percent	3
Hydrogen Sulfide (H2S) PPM, rounded up	10,000
Carbon Dioxide (CO2) percentage, if greater than one percent	1
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.

Date(s) and Time(s)

Date venting and/or flaring was discovered or commenced	10/19/2021
Time venting and/or flaring was discovered or commenced	12:00 AM
Time venting and/or flaring was terminated	12:00 AM
Cumulative hours during this event	24

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Not answered.
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Natural Gas Flared (Mcf) Details	Cause: Pipeline Quality Specifications Other (Specify) Natural Gas Flared Released: 859 Mcf Recovered: 0 Mcf Lost: 859 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 or is this venting and/or flaring a result of downstream activity	Not answered.
Was notification of downstream activity received by you or your operator	Not answered.
Downstream OGRID that should have notified you or your operator	Not answered.
Date notified of downstream activity requiring this venting and/or flaring	Not answered.
Time notified of downstream activity requiring this venting and/or flaring	Not answered.

Steps and Actions to Prevent Waste

For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	True
Please explain reason for why this event was beyond your operator's control	3rd party take away refusal due to capacity restraints.
Steps taken to limit the duration and magnitude of venting and/or flaring	Executed contract with midstream company to gather gas by 12/1/2021.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	Executed contract with midstream company to gather gas by 12/1/2021.

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CONDITIONS

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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.	11/1/2021