



# Certificate of Analysis

Number: 6030-21050225-001A

**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

May 26, 2021

Station Name:	Welch A 28 State CTB Flare	Sampled By:	Mike West
Station Number:	79410130	Sample Of:	Gas Spot
Station Location:	Spur	Sample Date:	05/21/2021
Sample Point:	Meter Run	Sample Conditions:	18 psig, @ 95.5 °F Ambient: 91 °F
Type of Sample:	Spot-Cylinder	Effective Date:	05/21/2021
Heat Trace Used:	N/A	Method:	GPA 2286
Sampling Method:	Fill and Purge	Cylinder No:	5030-01628
Sampling Company:	SPL	Instrument:	6030_GC2 (Agilent GC-7890B)
Analyzed:	05/26/2021 07:28:51 by KNF	Last Inst. Cal.:	05/18/2021 10:19 AM

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.000	0.40000	0.552		GPM TOTAL C2+ 8.881
Nitrogen	1.714	1.70600	1.935		GPM TOTAL C3+ 4.816
Methane	66.654	66.33600	43.095		GPM TOTAL iC5+ 1.078
Carbon Dioxide	0.738	0.73400	1.308		
Ethane	15.201	15.12800	18.420	4.065	
Propane	8.809	8.76700	15.655	2.427	
Iso-butane	1.206	1.20000	2.824	0.395	
n-Butane	2.907	2.89300	6.809	0.916	
Iso-pentane	0.717	0.71400	2.086	0.263	
n-Pentane	0.712	0.70900	2.071	0.259	
Hexanes Plus	1.420	1.41300	5.245	0.556	
	100.078	100.00000	100.000	8.881	

<b>Calculated Physical Properties</b>	<b>Total</b>	<b>C6+</b>
Relative Density Real Gas	0.8564	3.1508
Calculated Molecular Weight	24.69	91.25
Compressibility Factor	0.9950	
<b>GPA 2172 Calculation:</b>		
<b>Calculated Gross BTU per ft³ @ 14.73 psia &amp; 60°F</b>		
Real Gas Dry BTU	1430	4856
Water Sat. Gas Base BTU	1405	4772
Ideal, Gross HV - Dry at 14.73 psia	1423.0	4856.4
Ideal, Gross HV - Wet	1398.2	0.000

**Comments:** H2S Field Content 0.4 %  
 Mcf/day 549.8

Report generated by: Krystle Fitzwater

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	1830 MCF/D	6/19/2021	Continuous	ACO Requested
HUBER 10, 11, 12 FEDERAL OIL TANK BATTERY	32.610648	-104.472851	693 MCF/D	6/19/2021	Continuous	ACO Requested
ROSS RANCH 09.13.14 BATTERY	32.636187	-104.47781	1377 MCF/D	6/19/2021	Continuous	ACO Requested
DORAMI 33 FEDERAL COM 2H.4H.9H TANK BATTERY	32.614416	-104.478493	876 MCF/D	6/19/2021	Continuous	ACO Requested
OSAGE BOYD 15 FED 09.12.13.14 TANK BATTERY	32.652839	-104.478905	1654 MCF/D	6/19/2021	Continuous	ACO Requested
LAKEWOOD FEDERAL COM SOUTH BATTERY	32.608649	-104.479201	1887 MCF/D	6/19/2021	Continuous	ACO Requested
LAKEWOOD FEDERAL COM NORTH BATTERY	32.625808	-104.469155	2719 MCF/D	6/19/2021	Continuous	ACO Requested
WELCH A 28 10H.20H.50H CTB	32.8109796	-104.1694138	593 MCF/D	6/19/2021	Continuous	3rd party tie-in by end of week

**District I**  
 1625 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 34188

**QUESTIONS**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 34188
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<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 or is this venting or flaring caused by an emergency or malfunction	No
Did or will this venting 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 notification of a major venting or flaring	Yes, answer to "eight hours or more" suggests this is at least a minor event.
<b>The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during venting or flaring that is or may be a major or minor release under 19-13-297 NMAC.</b>	
Was there or will there be at least 50 MCF of natural gas vented or flared during this event	No
Did this venting 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

<b>Unregistered Facility Site</b>	
<i>Please provide the facility details, if the venting or flaring occurred or is occurring at a facility that does not have an Facility ID (F#) yet.</i>	
Facility or Site Name	Welch A 28 State Com 10H.20H.50H Tank Battery
Facility Type	Tank Battery - (TB)

<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	66
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	4,000
Carbon Dioxide (CO2) percentage, if greater than one percent	1
Oxygen (O2) percentage, if greater than one percent	0
<b>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</b>	
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.

<b>Date(s) and Time(s)</b>	
Date venting or flaring was discovered or commenced	06/19/2021
Time venting or flaring was discovered or commenced	12:00 AM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	06/20/2021
Time venting or flaring was terminated	12:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	24
Longest duration of cumulative hours within any 24-hour period during this event	24

<b>Measured or Estimated Volume of Vented or Flared Natural Gas</b>	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Pipeline Quality Specifications   Other (Specify)   Natural Gas Flared   Spilled: 0 Mcf   Recovered: 0 Mcf   Lost: 0 Mcf ]
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	593 mcf/day flared. "Was there or will there be at least 50 mcf of natural gas vented or flared during this event" doesn't seem to work when marked yes. Yes, there was over 50 mcf flared during this event.
Is this a gas only submission (i.e. only Mcf values reported)	More volume information must be supplied to determine if this will be treated as a "gas only" report.

<b>Venting or Flaring Resulting from Downstream Activity</b>	
Was or is this venting or flaring a result of downstream activity	Not answered.
Date notified of downstream activity requiring this venting or flaring	Not answered.
Time notified of downstream activity requiring this venting or flaring	Not answered.

<b>Steps and Actions to Prevent Waste</b>	
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	Delay in 3rd party tie-in.
Steps taken to limit the duration and magnitude of venting or flaring	Tie-in by 6/18 EOW
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Tie in by 6/18 EOW.

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CONDITIONS  
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	Action Number: 34188
	Action Type: [C-129] Venting and/or Flaring (C-129)

**CONDITIONS**

Created By	Condition	Condition Date
system	If the information provided in this report requires an amendment, submit a [C-129] Request to Amend Venting and/or Flaring Incident, utilizing your incident number from this event.	6/29/2021