



## 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<br>Mol % | Mol. %    | Wt. %   | GPM at<br>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 | 1718 MCF/D                                 | 10/29/2021   | Continuous | ACO Requested   |
| ROSS RANCH 09.13.14 BATTERY                 | 32.636187 | -104.47781  | 451 MCF/D                                  | 10/29/2021   | Continuous | ACO Requested   |
| OSAGE BOYD 15 FED 09.12.13.14 TANK BATTERY  | 32.652839 | -104.478905 | 1704 MCF/D                                 | 10/29/2021   | Continuous | ACO Requested   |
| LAKEWOOD FEDERAL COM NORTH BATTERY          | 32.625808 | -104.469155 | 2951 MCF/D                                 | 10/29/2021   | Continuous | ACO Requested   |
| LAKEWOOD FEDERAL COM SOUTH BATTERY          | 32.608649 | -104.479201 | 1508 MCF/D                                 | 10/29/2021   | Continuous | ACO Requested   |
| DORAMI 33 FEDERAL COM 2H.4H.9H TANK BATTERY | 32.614416 | -104.478493 | 890 MCF/D                                  | 10/29/2021   | Continuous | ACO Requested   |
| HUBER 10, 11, 12 FEDERAL OIL TANK BATTERY   | 32.610648 | -104.472851 | 725 MCF/D                                  | 10/29/2021   | Continuous | ACO Requested   |
| LIVE OAK TANK BATTERY                       | 32.63657  | -104.46929  | 2162 MCF/D                                 | 10/29/2021   | Continuous | ACO Requested   |
| JG STATE 16 #1 TANK BATTERY                 | 32.8284   | -103.77367  | 130 MCF/D                                  | 10/29/2021   | Continuous | Gas Rerouted    |
| JG STATE 16 #7 TANK BATTERY                 | 32.83604  | -103.77756  | 97 MCF/D                                   | 10/29/2021   | Continuous | Gas Rerouted    |
| RED LAKE 32 STATE TANK BATTERY              | 32.78446  | -104.29206  | 461 MCF/D                                  | 10/29/2021   | Continuous | Gas Rerouted    |

**District I**

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**District III**

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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**

QUESTIONS

Action 60655

**QUESTIONS**

|                                                                                 |                                                        |
|---------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>Spur Energy Partners LLC<br>9655 Katy Freeway<br>Houston, TX 77024 | OGRID:<br>328947                                       |
|                                                                                 | Action Number:<br>60655                                |
|                                                                                 | Action Type:<br>[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                                     | 82     |
| 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 | 10/29/2021 |
| 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. |
|----------------------------------|---------------|

|                                                                           |                                                                                                                                            |
|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Natural Gas Flared (Mcf) Details                                          | Cause: Pipeline Quality Specifications   Other (Specify)   Natural Gas Flared   Released: 2,162 Mcf   Recovered: 0 Mcf   Lost: 2,162 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  
  
Action 60655

CONDITIONS

|                                                                                 |                                                        |
|---------------------------------------------------------------------------------|--------------------------------------------------------|
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|                                                                                 | Action Number:<br>60655                                |
|                                                                                 | Action Type:<br>[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. | 11/8/2021      |