

# Analysis Certificate Report

## Lucid Energy Group-PURCHASER

4/16/2021 5:04 AM

3100 McKinnon St #800  
Dallas, TX 75201

PGAS Admin

|                        |                  |                                  |        |                         |                    |
|------------------------|------------------|----------------------------------|--------|-------------------------|--------------------|
| Analysis ID: 10380     |                  | Alternate ID:                    |        | Use Contract Values: No |                    |
| Name                   | Osage Boyd C.P.  | Company Name: Lucid Energy Group |        |                         |                    |
| Effective Date:        | 10/01/2020 08:00 | Saturated HV:                    | 1033.3 | Sample Date:            | 10/15/2020         |
| Valid Thru Date:       | 12/31/2078 00:00 | As Del. HV:                      | 1046.0 | Sample ID:              | 6030-20100158-002A |
| Fixed Edit Date:       | 01/01/1900 00:00 | Dry HV:                          | 1050.4 | Sample Type:            | Spot               |
| Last Update:           | 10/23/2020 14:58 | Measured HV:                     | 1050.4 | Sample Pressure Base:   | 14.730             |
| Data Acquisition:      | Manual Entry     | WOBBE:                           | 1362.9 | Sample Temperature:     | 77.0               |
| Data Source:           | Lab Analysis     | Water Content:                   | 0.5    | Sample Pressure:        | 107.0              |
| Real Relative Density: | 0.5940           | Status:                          | Active | Lab Code:               |                    |

| <u>Component</u> | <u>% Mol</u> | <u>GPM</u> | Dry Gravity       |
|------------------|--------------|------------|-------------------|
| Methane          | 94.4738      |            | Saturated Gravity |
| Ethane           | 2.8270       | 0.7576     |                   |
| Propane          | 0.6131       | 0.1693     |                   |
| I Butane         | 0.1106       | 0.0363     |                   |
| N Butane         | 0.1376       | 0.0435     |                   |
| I Pentane        | 0.0555       | 0.0203     |                   |
| N Pentane        | 0.0386       | 0.0140     |                   |
| Hexanes +        | 0.1831       | 0.0801     |                   |

|          |        |
|----------|--------|
| Nitrogen | 0.3713 |
| CO2      | 0.7394 |
| Oxygen   | 0.0000 |
| H2O      | 0.4500 |
| CO       | 0.0000 |
| H2S      | 0.0000 |
| Hydrogen | 0.0000 |
| Helium   | 0.0000 |
| Argon    | 0.0000 |

|       |          |        |
|-------|----------|--------|
| Total | 100.0000 | 1.1211 |
|-------|----------|--------|

Sample Comments:

Configuration Comments:

6.1.0.7 Auto Config Change Process

| 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  | 1632 MCF/D                                 | 7/29/2021    | Continuous | ACO Requested   |
| ROSS RANCH 09.13.14 BATTERY                 | 32.636187  | -104.47781   | 1420 MCF/D                                 | 7/29/2021    | Continuous | ACO Requested   |
| OSAGE BOYD 15 FED 09.12.13.14 TANK BATTERY  | 32.652839  | -104.478905  | 1149 MCF/D                                 | 7/29/2021    | Continuous | ACO Requested   |
| LAKEWOOD FEDERAL COM NORTH BATTERY          | 32.625808  | -104.469155  | 2365 MCF/D                                 | 7/29/2021    | Continuous | ACO Requested   |
| LAKEWOOD FEDERAL COM SOUTH BATTERY          | 32.608649  | -104.479201  | 1854 MCF/D                                 | 7/29/2021    | Continuous | ACO Requested   |
| DORAMI 33 FEDERAL COM 2H.4H.9H TANK BATTERY | 32.614416  | -104.478493  | 668 MCF/D                                  | 7/29/2021    | Continuous | ACO Requested   |
| HUBER 10, 11, 12, FED OIL TANK BATTERY      | 32.610648  | -104.472851  | 219 MCF/D                                  | 7/29/2021    | Continuous | ACO Requested   |
| PERE MARQUETTE 18 FEDERAL 1 TANK BATTERY    | 32.8410149 | -104.1203232 | 395 MCF/D                                  | 7/29/2021    | Continuous | Gas rerouted    |
| MORRIS BOYD TANK BATTERY                    | 32.6250267 | -104.4488373 | 50 MCD/D                                   | 7/29/2021    | Continuous | Gas rerouted    |

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**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**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 41167

**QUESTIONS**

|           |                                                                    |                |                                        |
|-----------|--------------------------------------------------------------------|----------------|----------------------------------------|
| Operator: | Spur Energy Partners LLC<br>9655 Katy Freeway<br>Houston, TX 77024 | OGRID:         | 328947                                 |
|           |                                                                    | Action Number: | 41167                                  |
|           |                                                                    | Action Type:   | [C-129] Venting and/or Flaring (C-129) |

**QUESTIONS****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 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 19.13.29.7 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                                                                            |

**Unregistered Facility Site**

Please provide the facility details, if the venting or flaring occurred or is occurring at a facility that does not have an Facility ID (##) yet.

|                       |                                            |
|-----------------------|--------------------------------------------|
| Facility or Site Name | Osage Boyd 15 Fed 09.12.13.14 Tank Battery |
| Facility Type         | Tank Battery - (TB)                        |

**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                                                                                                             | 94            |
| Nitrogen (N2) percentage, if greater than one percent                                                                                | 0             |
| 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             |
| <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. |

**Date(s) and Time(s)**

|                                                                                     |            |
|-------------------------------------------------------------------------------------|------------|
| Date venting or flaring was discovered or commenced                                 | 07/29/2021 |
| 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                                              | 07/30/2021 |
| 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         |

**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   Spilled: 0 Mcf   Recovered: 0 Mcf   Lost: 0 Mcf                                                                                |
| Other Released Details                                                 | Not answered.                                                                                                                                                                                                  |
| Additional details for Measured or Estimated Volume(s). Please specify | 1149 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.                                                                                                          |

**Venting or Flaring Resulting from Downstream Activity**

|                                                                        |               |
|------------------------------------------------------------------------|---------------|
| 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. |

| 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 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 or flaring                                         | Executed contract with midstream company to gather gas by 12/1/2021. |

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CONDITIONS  
  
Action 41167

CONDITIONS

|                                                                                 |                                                        |
|---------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>Spur Energy Partners LLC<br>9655 Katy Freeway<br>Houston, TX 77024 | OGRID:<br>328947                                       |
|                                                                                 | Action Number:<br>41167                                |
|                                                                                 | Action Type:<br>[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. | 8/11/2021      |