

# Analysis Certificate Report

## Lucid Energy Group-PURCHASER

7/16/2021 5:04 AM

3100 McKinnon St #800  
Dallas, TX 75201

PGAS Admin

|                        |                  |                                  |        |                         |                    |
|------------------------|------------------|----------------------------------|--------|-------------------------|--------------------|
| Analysis ID: 51949     |                  | Alternate ID:                    |        | Use Contract Values: No |                    |
| Name                   | SHERMAN 4 FEE #1 | Company Name: Lucid Energy Group |        |                         |                    |
| Effective Date:        | 05/01/2021 08:00 | Saturated HV:                    | 1289.9 | Sample Date:            | 05/24/2021         |
| Valid Thru Date:       | 12/31/2078 00:00 | As Del. HV:                      | 1290.5 | Sample ID:              | 6030-21050252-006A |
| Fixed Edit Date:       | 01/01/1900 00:00 | Dry HV:                          | 1311.3 | Sample Type:            | Spot               |
| Last Update:           | 06/01/2021 09:58 | Measured HV:                     | 1311.3 | Sample Pressure Base:   | 14.730             |
| Data Acquisition:      |                  | WOBBE:                           | 1456.7 | Sample Temperature:     | 109.0              |
| Data Source:           | Lab Analysis     | Water Content:                   | 1.7    | Sample Pressure:        | 75.0               |
| Real Relative Density: | 0.8104           | Status:                          | Active | Lab Code:               |                    |

| <u>Component</u> | <u>% Mol</u> | <u>GPM</u> | Dry Gravity       |
|------------------|--------------|------------|-------------------|
| Methane          | 68.1137      |            | Saturated Gravity |
| Ethane           | 13.8612      | 3.7241     |                   |
| Propane          | 6.3555       | 1.7590     |                   |
| I Butane         | 0.7646       | 0.2514     |                   |
| N Butane         | 1.6878       | 0.5346     |                   |
| I Pentane        | 0.5031       | 0.1848     |                   |
| N Pentane        | 0.3988       | 0.1452     |                   |
| Hexanes +        | 1.1457       | 0.5023     |                   |
|                  |              |            |                   |
| Nitrogen         | 1.2199       |            |                   |
| CO2              | 2.2935       |            |                   |
| Oxygen           | 0.0000       |            |                   |
| H2O              | 1.6900       |            |                   |
| CO               | 0.0000       |            |                   |
| H2S              | 1.9662       |            |                   |
| Hydrogen         | 0.0000       |            |                   |
| Helium           | 0.0000       |            |                   |
| Argon            | 0.0000       |            |                   |
| Total            | 100.0000     | 7.1014     |                   |

Sample Comments:

Configuration Comments:

| 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 IV**  
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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**

DEFINITIONS  
  
Action 79243

DEFINITIONS

|                                                                                     |                                                            |
|-------------------------------------------------------------------------------------|------------------------------------------------------------|
| Operator:<br><br>Spur Energy Partners LLC<br>9655 Katy Freeway<br>Houston, TX 77024 | OGRID:<br><br>328947                                       |
|                                                                                     | Action Number:<br><br>79243                                |
|                                                                                     | Action Type:<br><br>[C-129] Venting and/or Flaring (C-129) |

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 79243

**QUESTIONS**

|                                                                                 |                                                        |
|---------------------------------------------------------------------------------|--------------------------------------------------------|
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|                                                                                 | Action Number:<br>79243                                |
|                                                                                 | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**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 Well                                                                                                                                                             | Not answered.                                  |
| Incident Facility                                                                                                                                                         | [fAPP2134834392] Sherman 4 Fee 6H Tank Battery |

|                                                                                                                                                                                                                                                                                            |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <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 this vent or flare caused by an emergency or malfunction                                                                                                                                                                                                                               | Yes                                               |
| 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, minor 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 withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence                                                                                                             | No                                                |

|                                                           |               |
|-----------------------------------------------------------|---------------|
| <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                                                                                                             | 68            |
| Nitrogen (N2) percentage, if greater than one percent                                                                                | 1             |
| Hydrogen Sulfide (H2S) PPM, rounded up                                                                                               | 19,662        |
| Carbon Dioxide (CO2) percentage, if greater than one percent                                                                         | 2             |
| 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 79243

QUESTIONS (continued)

|                                                                                     |                                                            |
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|                                                                                     | Action Type:<br><br>[C-129] Venting and/or Flaring (C-129) |

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: 109 Mcf   Recovered: 0 Mcf   Lost: 109 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 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 79243

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|                                                                                 | Action Number:<br>79243                                |
|                                                                                 | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**ACKNOWLEDGMENTS**

|                                     |                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a <b>complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.                                                                                      |
| <input checked="" type="checkbox"/> | I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively. |
| <input checked="" type="checkbox"/> | I hereby certify the statements in this 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 79243

**CONDITIONS**

|                                                                                 |                                                        |
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|                                                                                 | 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. | 2/7/2022       |