

**FESCO, Ltd.**  
**1100 Fesco Ave. - Alice, Texas 78332**

**For:** Ameredev Operating, LLC  
 2901 Via Fortuna  
 Austin, Texas 78746

**Sample:** Nandina CTB

Sales Meter Run  
 Spot Gas Sample @ 78 psig & 96°F

Date Sampled: 06/03/2023

Job Number: 232371.005

**CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286**

| Un-Normalized       |              |              |              |
|---------------------|--------------|--------------|--------------|
| COMPONENT           | Mol%         | MOL%         | GPM          |
| Hydrogen Sulfide*   | -----        | 0.160        |              |
| Oxygen              | 0.001        | 0.001        |              |
| Nitrogen            | 1.194        | 1.215        |              |
| Carbon Dioxide      | 0.819        | 0.834        |              |
| Methane             | 75.340       | 76.658       |              |
| Ethane              | 10.180       | 10.358       | 2.836        |
| Propane             | 5.697        | 5.797        | 1.635        |
| Isobutane           | 0.927        | 0.943        | 0.316        |
| n-Butane            | 2.006        | 2.041        | 0.659        |
| 2-2 Dimethylpropane | 0.008        | 0.008        | 0.003        |
| Isopentane          | 0.571        | 0.581        | 0.218        |
| n-Pentane           | 0.498        | 0.506        | 0.188        |
| Hexanes             | 0.397        | 0.411        | 0.173        |
| Heptanes Plus       | <u>0.483</u> | <u>0.487</u> | <u>0.198</u> |
| Totals              | 98.121       | 100.000      | 6.226        |

**Computed Real Characteristics Of Heptanes Plus:**

Specific Gravity ----- 3.303 (Air=1)  
 Molecular Weight ----- 95.30  
 Gross Heating Value ----- 5111 BTU/CF

**Computed Real Characteristics Of Total Sample:**

Specific Gravity ----- 0.765 (Air=1)  
 Compressibility (Z) ----- 0.9960  
 Molecular Weight ----- 22.07  
 Gross Heating Value  
   Dry Basis ----- 1324 BTU/CF  
   Saturated Basis ----- 1301 BTU/CF

\*Hydrogen Sulfide tested on location by: Stain Tube Method (GPA 2377)  
 Results: 100.6 Gr/100 CF, 1600 PPMV or 0.160 Mol %

Base Conditions: 15.025 PSI & 60 Deg F

Sampled By: (16) D. Field  
 Analyst: LG  
 Processor: HB  
 Cylinder ID: T-6194

Certified: FESCO, Ltd. - Alice, Texas

Conan Pierce 361-661-7015

**CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286**  
**TOTAL REPORT**

| COMPONENT              | MOL %        | GPM          | WT %         |
|------------------------|--------------|--------------|--------------|
| Hydrogen Sulfide*      | 0.160        |              | 0.247        |
| Oxygen                 | 0.001        |              | 0.001        |
| Nitrogen               | 1.215        |              | 1.542        |
| Carbon Dioxide         | 0.834        |              | 1.663        |
| Methane                | 76.658       |              | 55.714       |
| Ethane                 | 10.358       | 2.836        | 14.110       |
| Propane                | 5.797        | 1.635        | 11.580       |
| Isobutane              | 0.943        | 0.316        | 2.483        |
| n-Butane               | 2.041        | 0.659        | 5.374        |
| 2,2 Dimethylpropane    | 0.008        | 0.003        | 0.026        |
| Isopentane             | 0.581        | 0.218        | 1.899        |
| n-Pentane              | 0.506        | 0.188        | 1.654        |
| 2,2 Dimethylbutane     | 0.007        | 0.003        | 0.027        |
| Cyclopentane           | 0.000        | 0.000        | 0.000        |
| 2,3 Dimethylbutane     | 0.046        | 0.019        | 0.180        |
| 2 Methylpentane        | 0.130        | 0.055        | 0.508        |
| 3 Methylpentane        | 0.081        | 0.034        | 0.316        |
| n-Hexane               | 0.147        | 0.062        | 0.574        |
| Methylcyclopentane     | 0.068        | 0.025        | 0.259        |
| Benzene                | 0.052        | 0.015        | 0.184        |
| Cyclohexane            | 0.069        | 0.024        | 0.263        |
| 2-Methylhexane         | 0.018        | 0.009        | 0.082        |
| 3-Methylhexane         | 0.022        | 0.010        | 0.100        |
| 2,2,4 Trimethylpentane | 0.012        | 0.006        | 0.062        |
| Other C7's             | 0.043        | 0.019        | 0.193        |
| n-Heptane              | 0.036        | 0.017        | 0.163        |
| Methylcyclohexane      | 0.049        | 0.020        | 0.218        |
| Toluene                | 0.036        | 0.012        | 0.150        |
| Other C8's             | 0.040        | 0.019        | 0.200        |
| n-Octane               | 0.011        | 0.006        | 0.057        |
| Ethylbenzene           | 0.003        | 0.001        | 0.014        |
| M & P Xylenes          | 0.006        | 0.002        | 0.029        |
| O-Xylene               | 0.002        | 0.001        | 0.010        |
| Other C9's             | 0.013        | 0.007        | 0.074        |
| n-Nonane               | 0.002        | 0.001        | 0.012        |
| Other C10's            | 0.004        | 0.002        | 0.026        |
| n-Decane               | 0.001        | 0.001        | 0.006        |
| Undecanes (11)         | <u>0.000</u> | <u>0.000</u> | <u>0.000</u> |
| Totals                 | 100.000      | 6.226        | 100.000      |

Computed Real Characteristics of Total Sample

Specific Gravity ----- 0.765 (Air=1)  
 Compressibility (Z) ----- 0.9960  
 Molecular Weight ----- 22.07

Gross Heating Value

Dry Basis ----- 1324 BTU/CF  
 Saturated Basis ----- 1301 BTU/CF

**Sample Date:** 06/03/2023

**Ambient Air Temp:** 79 °F

**Sample Time:** 12:35

**Heating Method Utilized:** Yes

**Analysis Date:** 06/10/2023

**Sampling Method:** Fill & Empty

**Analysis Time:** 05:44

**Device:** (GC) S15

**Sample Pressure:** 78 psig

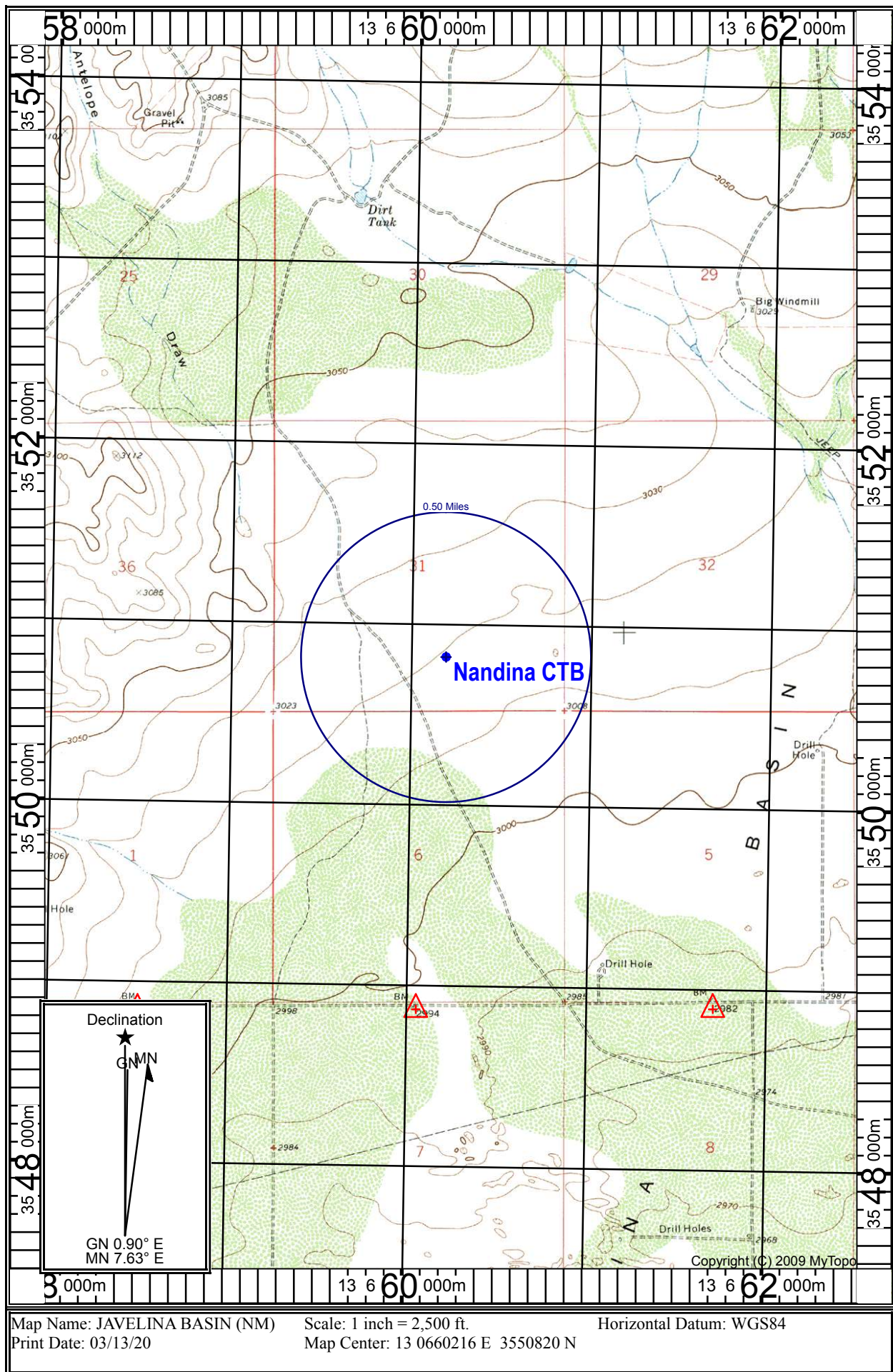
**Make & Model:** Shimadzu GC 2014

**Sample Temp:** 96 °F

**Last Verification Date:** 06/08/2023

**Sampling Flow Rate:** 3567 MCF/D

|            |             |                              |         |          |          |       |                           |                                                                   |                                                                |
|------------|-------------|------------------------------|---------|----------|----------|-------|---------------------------|-------------------------------------------------------------------|----------------------------------------------------------------|
| 10/1/2023  | Nan 1.5N    | HP Flare                     | 240.71  | 9:22 AM  | 11:01 PM | 0.11  | Malfunction               | Pinion has been having Compressor/Line Foaming Issues so the      | Non-Scheduled Maintenance or Malfunction                       |
| 10/1/2023  | Nandina     | VRU Discharge                | 473.14  | 12:01 AM | 11:05 PM | 22.29 | Flared more than 8 HRs    | We were getting constant O2 spikes from past events (VAC true     | Natural Gas Not Suitable for Transportation or Processing (O2) |
| 10/1/2023  | Pinestraw   | VRU Discharge                | 263.42  | 12:00 AM | 10:56 PM | 24.00 | Flared more than 8 HRs    | VRU gas was going to flare till the O2 tech would come calibrate  | Natural Gas Not Suitable for Transportation or Processing (O2) |
| 10/1/2023  | Red Bud     | LP - Vent flare/Blower Flare | 61.91   | 12:06 AM | 4:22 PM  | 12.10 | Flared more than 8 HRs    | Control room pushed oil into the tanks so they were being purg    | Natural Gas Not Suitable for Transportation or Processing (O2) |
| 10/2/2023  | Nandina     | VRU Discharge                | 434.53  | 12:02 AM | 11:30 PM | 21.95 | Flared more than 8 HRs    | We were getting constant O2 spikes from past events (VAC true     | Natural Gas Not Suitable for Transportation or Processing (O2) |
| 10/2/2023  | Pinestraw   | HP Flare                     | 668.50  | 9:56 AM  | 11:52 PM | 2.75  | Oxygen                    | To keep this reason simple, the heater had flooded out and the    | Natural Gas Not Suitable for Transportation or Processing (O2) |
| 10/2/2023  | Pinestraw   | VRU Discharge                | 105.27  | 12:00 AM | 9:28 AM  | 9.90  | Flared more than 8 HRs    | VRU gas was going to flare till the O2 tech would come calibrate  | Natural Gas Not Suitable for Transportation or Processing (O2) |
| 10/3/2023  | Azalea      | HP Flare                     | 625.38  | 12:16 PM | 11:37 PM | 0.31  | Malfunction               | Azalea 121 Separator had to serviced so gas was sent to flare to  | Non-Scheduled Maintenance or Malfunction                       |
| 10/3/2023  | Nandina     | VRU Discharge                | 288.97  | 12:01 AM | 11:19 PM | 16.27 | Flared more than 8 HRs    | We were getting constant O2 spikes from past events (VAC true     | Natural Gas Not Suitable for Transportation or Processing (O2) |
| 10/3/2023  | Pinestraw   | HP Flare                     | 955.77  | 12:15 AM | 11:50 PM | 3.96  | Malfunction               | To keep this reason simple, the heater had flooded out and the    | Natural Gas Not Suitable for Transportation or Processing (O2) |
| 10/3/2023  | Red Bud     | VRU Discharge                | 478.72  | 7:33 AM  | 11:51 PM | 14.87 | Flared more than 8 HRs    | Facility was getting O2 spikes after the tank blower gas was ser  | Natural Gas Not Suitable for Transportation or Processing (O2) |
| 10/4/2023  | Azalea      | HP Flare                     | 1157.72 | 12:37 PM | 11:37 PM | 1.74  | Malfunction               | According to CR, the Azalea separator had to serviced again bec   | Non-Scheduled Maintenance or Malfunction                       |
| 10/4/2023  | Nan 1.5N    | HP Flare                     | 134.89  | 7:25 AM  | 10:37 PM | 0.10  | Malfunction               | Pinion has been having Compressor/Line Foaming Issues so the      | Non-Scheduled Maintenance or Malfunction                       |
| 10/4/2023  | Nandina     | VRU Discharge                | 248.53  | 12:01 AM | 11:02 PM | 12.95 | Flared more than 8 HRs    | We were getting constant O2 spikes from past events (VAC true     | Natural Gas Not Suitable for Transportation or Processing (O2) |
| 10/4/2023  | Pinestraw   | HP Flare                     | 613.81  | 12:03 AM | 3:52 PM  | 2.30  | Malfunction               | To keep this reason simple, the heater had flooded out and the    | Natural Gas Not Suitable for Transportation or Processing (O2) |
| 10/4/2023  | Pinestraw   | VRU Discharge                | 240.38  | 12:07 AM | 4:21 PM  | 15.65 | Flared more than 8 HRs    | VRU gas was going to flare till the O2 tech would come calibrate  | Natural Gas Not Suitable for Transportation or Processing (O2) |
| 10/4/2023  | Red Bud     | VRU Discharge                | 310.22  | 12:00 AM | 4:22 PM  | 9.53  | Flared more than 8 HRs    | Facility was getting O2 spikes after the tank blower gas was ser  | Natural Gas Not Suitable for Transportation or Processing (O2) |
| 10/5/2023  | Amen Corner | LP - Vent flare/Blower Flare | 100.65  | 12:00 AM | 1:02 PM  | 8.07  | Flared more than 8 HRs    | VRUs kept faulting on high discharge due to the orifice plate siz | Insufficient Availability or Capacity                          |
| 10/5/2023  | Azalea      | HP Flare                     | 80.34   | 12:38 AM | 9:16 AM  | 0.59  | Oxygen                    | Seperator was still purging till early morning                    | Natural Gas Not Suitable for Transportation or Processing (O2) |
| 10/5/2023  | Nandina     | VRU Discharge                | 355.25  | 12:00 AM | 11:08 PM | 21.42 | Flared more than 8 HRs    | We were getting constant O2 spikes from past events (VAC true     | Natural Gas Not Suitable for Transportation or Processing (O2) |
| 10/6/2023  | Nan 1.5N    | HP Flare                     | 74.31   | 8:27 AM  | 8:48 AM  | 0.09  | Insufficient Availability | Pinion has been having Compressor/Line Foaming Issues so the      | Insufficient Availability or Capacity                          |
| 10/6/2023  | Nandina     | VRU Discharge                | 270.67  | 12:44 AM | 10:10 PM | 15.18 | Flared more than 8 HRs    | We were getting constant O2 spikes from past events (VAC true     | Natural Gas Not Suitable for Transportation or Processing (O2) |
| 10/7/2023  | Amen Corner | LP - Vent flare/Blower Flare | 51.17   | 12:18 AM | 10:50 AM | 4.10  | Insufficient Availability | VRUs kept faulting on high discharge due to the orifice plate siz | Insufficient Availability or Capacity                          |
| 10/7/2023  | Nandina     | VRU Discharge                | 64.05   | 5:30 AM  | 3:47 PM  | 3.28  | Oxygen                    | We were getting constant O2 spikes from past events (VAC true     | Natural Gas Not Suitable for Transportation or Processing (O2) |
| 10/11/2023 | Nan 1.5N    | HP Flare                     | 82.70   | 10:49 AM | 9:31 PM  | 0.62  | Insufficient Availability | Pinion lost Whitehorse so gas had to flared                       | Insufficient Availability or Capacity                          |



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**District IV**  
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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**

DEFINITIONS

Action 275817

DEFINITIONS

|                                                                              |                                                        |
|------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>AMEREDEV OPERATING, LLC<br>2901 Via Fortuna<br>Austin, TX 78746 | OGRID:<br>372224                                       |
|                                                                              | Action Number:<br>275817                               |
|                                                                              | Action Type:<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 275817

**QUESTIONS**

|                                                                              |                                                        |
|------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>AMEREDEV OPERATING, LLC<br>2901 Via Fortuna<br>Austin, TX 78746 | OGRID:<br>372224                                       |
|                                                                              | Action Number:<br>275817                               |
|                                                                              | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**QUESTIONS**

|                                                                                                                                                                                            |                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <b>Prerequisites</b><br>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                                                                                                                                                                              | Unavailable.             |
| Incident Facility                                                                                                                                                                          | [fAPP2203856979] Nandina |

|                                                                                                                                                                                                                                                                                            |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Determination of Reporting Requirements</b><br>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.                                                                                                      |                                                   |
| Was this vent or flare caused by an emergency or malfunction                                                                                                                                                                                                                               | No                                                |
| 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. |
| 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 at least 50 MCF 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 within 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><br>Please provide the mole percent for the percentage questions in this group. |               |
| Methane (CH4) percentage                                                                                                                                    | 77            |
| Nitrogen (N2) percentage, if greater than one percent                                                                                                       | 1             |
| 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             |
| 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. |

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QUESTIONS, Page 2

Action 275817

**QUESTIONS (continued)**

|                                                                              |                                                        |
|------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>AMEREDEV OPERATING, LLC<br>2901 Via Fortuna<br>Austin, TX 78746 | OGRID:<br>372224                                       |
|                                                                              | Action Number:<br>275817                               |
|                                                                              | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**QUESTIONS**

| Date(s) and Time(s)                            |            |
|------------------------------------------------|------------|
| Date vent or flare was discovered or commenced | 10/03/2023 |
| Time vent or flare was discovered or commenced | 12:01 AM   |
| Time vent or flare was terminated              | 11:19 PM   |
| Cumulative hours during this event             | 16         |

| Measured or Estimated Volume of Vented or Flared Natural Gas              |                                                                                                                             |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Natural Gas Vented (Mcf) Details                                          | Not answered.                                                                                                               |
| Natural Gas Flared (Mcf) Details                                          | Cause: Commissioning to Purge   Pipeline (Any)   Natural Gas Flared   Released: 289 Mcf   Recovered: 0 Mcf   Lost: 289 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            | No            |
| Was notification of downstream activity received by this operator | Not answered. |
| Downstream OGRID that should have notified this operator          | Not answered. |
| Date notified of downstream activity requiring this vent or flare | Not answered. |
| Time notified of downstream activity requiring this vent or flare | Not answered. |

| 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                                                      | We were getting constant O2 spikes from past events (VAC trucks pushing, losing blanketing, etc) making it take a lot longer for the O2 to purge from the tanks. |
| Steps taken to limit the duration and magnitude of vent or flare                                                                 | We choked back the wells to limit production.                                                                                                                    |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare                                                | We dedicate several personnel specifically deal with any oxygen issue hoping to reduce future flaring from oxygen purging.                                       |



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ACKNOWLEDGMENTS  
  
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**ACKNOWLEDGMENTS**

|                                                                              |                                                        |
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|                                                                              | Action Number:<br>275817                               |
|                                                                              | 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 275817

CONDITIONS

|                                                                              |                                                        |
|------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>AMEREDEV OPERATING, LLC<br>2901 Via Fortuna<br>Austin, TX 78746 | OGRID:<br>372224                                       |
|                                                                              | Action Number:<br>275817                               |
|                                                                              | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

CONDITIONS

| Created By | Condition                                                                                                                                                                          | Condition Date |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| cescayu    | 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. | 10/16/2023     |