

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 6184

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

Sample Time: 12:35

Analysis Date: 06/10/2023

Analysis Time: 05:44

Sample Pressure: 78 psig

Sample Temp: 96 °F

Sampling Flow Rate: 3567 MCF/D

Ambient Air Temp: 79 °F

Heating Method Utilized: Yes

Sampling Method: Fill & Empty

Device: (GC) S15

Make & Model: Shimadzu GC 2014

Last Verification Date: 06/08/2023

| | | | | | | | | | | | | | | | |
|---|----------------|----------------|-----------|------------|------------|---------------|------------------------------|---------|--------|----------|----------|-------|---------------------------------|--------------------------------------|--|
| Received by OCD: 11/6/2023 3:42:29 PM | | | | | | | | | | | | | | Page 3 of 8 | |
| PGPBE-231102-C-1290 | nAPP2330454556 | fAPP2304126884 | 11/2/2023 | 10/31/2023 | 10/30/2023 | Nan 1.5N | HP Flare | 887.34 | Flared | 5:04 AM | 5:34 PM | 1.34 | Repair/Maintenance | Pinion shut us in for high O2 so lin | |
| | nAPP2330454845 | fAPP2203856979 | 11/2/2023 | 10/31/2023 | 10/30/2023 | Nandina | HP Flare | 1283.81 | Flared | 4:54 AM | 6:51 PM | 8.41 | Flared more than 8 HRs | Pinion shut us in for high O2 so lin | |
| | nAPP2330455106 | fAPP2203856979 | 11/2/2023 | 10/31/2023 | 10/30/2023 | Nandina | VRU Discharge | 764.88 | Flared | 12:01 AM | 11:56 PM | 24.00 | Flared more than 8 HRs | Gas was being sent to flare to purg | |
| | nAPP2330648476 | fAPP2203927141 | 11/2/2023 | 10/31/2023 | 10/30/2023 | Pinestraw | HP Flare | 118.87 | Flared | 12:42 AM | 5:48 PM | 10.94 | Flared more than 8 HRs | We were sending facility gas to HF | |
| | nAPP2330455322 | fAPP2203928043 | 11/2/2023 | 10/31/2023 | 10/30/2023 | Red Bud | VRU Discharge | 998.56 | Flared | 12:00 AM | 11:07 PM | 23.98 | Flared more than 8 HRs | Gas was being sent to flare to purg | |
| UKVJW-231102-C-1290 | nAPP2330650476 | fAPP2203846035 | 11/2/2023 | 11/1/2023 | 10/31/2023 | Amen Corner | HP Flare | 264.81 | Flared | 8:58 AM | 11:09 PM | 1.24 | Emergency | Pinion lost power so our line pres | |
| ISOXW-231102-C-1290 | nAPP2330651676 | fAPP2203846035 | 11/2/2023 | 11/1/2023 | 10/31/2023 | Amen Corner | VRU Discharge | 169.68 | Flared | 12:00 AM | 8:29 AM | 8.48 | Flared more than 8 HRs | Flare amount is an estimate since | |
| 0I39L-231102-C-1290 | nAPP2330653027 | fAPP2304126884 | 11/2/2023 | 11/1/2023 | 10/31/2023 | Nan 1.5N | HP Flare | 177.53 | Flared | 9:04 AM | 11:58 PM | 0.24 | Emergency | Pinion lost power so our line pres | |
| | nAPP2330558021 | fAPP2203856979 | 11/2/2023 | 11/1/2023 | 10/31/2023 | Nandina | HP Flare | 553.94 | Flared | 3:05 AM | 11:38 PM | 4.32 | Emergency | Pinion lost power so our line pres | |
| 5BD0L-231102-C-1290 | nAPP2330653707 | fAPP2203856979 | 11/2/2023 | 11/1/2023 | 10/31/2023 | Nandina | VRU Discharge | 274.58 | Flared | 12:01 AM | 11:25 AM | 11.17 | Flared more than 8 HRs | Gas was being sent to flare to purg | |
| 9P0TJ-231102-C-1290 | nAPP2330655549 | fAPP2203927141 | 11/2/2023 | 11/1/2023 | 10/31/2023 | Pinestraw | HP Flare | 88.75 | Flared | 8:18 AM | 11:47 PM | 2.94 | Emergency | Pinion lost power so our line pres | |
| | nAPP2330558143 | fAPP2203928043 | 11/2/2023 | 11/1/2023 | 10/31/2023 | Red Bud | VRU Discharge | 616.21 | Flared | 12:00 AM | 3:25 PM | 15.43 | Flared more than 8 HRs | Gas was being sent to flare to purg | |
| | | | 11/2/2023 | 11/1/2023 | 11/1/2023 | Amen Corner | HP Flare | 308.69 | | | | 2.46 | | Pinion went down on plant ESD so | |
| | | | 11/2/2023 | 11/1/2023 | 11/1/2023 | Nan 1.5N | HP Flare | 462.79 | | | | 0.50 | | | |
| | | | 11/2/2023 | 11/1/2023 | 11/1/2023 | Pinestraw | HP Flare | 237.66 | | | | 6.04 | | Pinion went down on plant ESD so | |
| | | | 11/2/2023 | 11/1/2023 | 11/1/2023 | Amen Corner | VRU Discharge | 206.34 | | | | 10.32 | Flared more than 8 HRs | Based on the data, the divert valve | |
| | | | 11/2/2023 | 11/1/2023 | 11/1/2023 | Red Bud | VRU Discharge | 98.75 | | | | 4.68 | | Had an o2 spike because analyzer | |
| | | | 11/3/2023 | 11/2/2023 | 11/2/2023 | Nandina | LP - Vent flare/Blower Flare | 87.06 | | | | 5.72 | | | |
| | | | 11/3/2023 | 11/2/2023 | 11/2/2023 | Nan 1.5N | HP Flare | 75.78 | | | | 0.11 | | | |
| | | | 11/6/2023 | 11/3/2023 | 11/3/2023 | Nan 1.5N | HP Flare | 167.16 | | | | 0.19 | | Pinion lost some units so line pres | |
| | | | 11/6/2023 | 11/3/2023 | 11/3/2023 | Red Bud | VRU Discharge | 610.22 | | | | 15.02 | | We started getting high O2 around | |
| | | | 11/6/2023 | 11/4/2023 | 11/4/2023 | Nan 1.5N | HP Flare | 631.56 | | | | 0.99 | | Pinion was having foaming issues | |
| | | | 11/6/2023 | 11/4/2023 | 11/4/2023 | Pinestraw | HP Flare | 87.70 | | | | 3.10 | | Pinion was having foaming issues | |
| | | | 11/6/2023 | 11/4/2023 | 11/4/2023 | Red Bud | LP - Vent flare/Blower Flare | 62.18 | | | | 4.72 | | Based on the EHS summary and da | |
| | | | 11/6/2023 | 11/4/2023 | 11/4/2023 | Red Bud | VRU Discharge | 665.62 | | | | 17.48 | | North heater had high O2 and the | |
| | | | 11/6/2023 | 11/5/2023 | 11/5/2023 | Nan 1.5N | HP Flare | 258.21 | | | | 0.26 | | Pinion was having foaming/compr | |
| | | | 11/6/2023 | 11/5/2023 | 11/5/2023 | Pinestraw | HP Flare | 75.58 | | | | 3.43 | | | |
| | | 11/6/2023 | 11/5/2023 | 11/5/2023 | Red Bud | VRU Discharge | 385.74 | | | | 8.42 | | We had an O2 spike around midni | | |
| Released to Imaging: 11/6/2023 3:46:36 PM | | | | | | | | | | | | | | | |

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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 283204

DEFINITIONS

| | |
|--|---|
| Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746 | OGRID: 372224 |
| | Action Number: 283204 |
| | Action Type: [C-129] Amend Venting and/or Flaring (C-129A) |

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">• this application's operator, hereinafter "this operator";• venting and/or flaring, hereinafter "vent or flare";• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";• the statements in (and/or attached to) this, hereinafter "the statements in this";• and the past tense will be used in lieu of mixed past/present tense questions and statements. |
|--|

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QUESTIONS

Action 283204

QUESTIONS

| | |
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| | Action Number: 283204 |
| | Action Type: [C-129] Amend Venting and/or Flaring (C-129A) |

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 Operator | [372224] AMEREDEV OPERATING, LLC |
| Incident Type | Flare |
| Incident Status | Closure Not Approved |
| Incident Well | Unavailable. |
| Incident Facility | [fAPP2203856979] Nandina |
| Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application. | |

| | |
|---|---|
| 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 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, 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 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 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 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 |

| | |
|---|---------------|
| 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 | 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 283204

QUESTIONS (continued)

| | |
|--|----------------|
| Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746 | OGRID: |
| | 372224 |
| | Action Number: |
| | 283204 |
| Action Type: | |
| [C-129] Amend Venting and/or Flaring (C-129A) | |

QUESTIONS

| | |
|--|------------|
| Date(s) and Time(s) | |
| Date vent or flare was discovered or commenced | 10/30/2023 |
| Time vent or flare was discovered or commenced | 04:54 AM |
| Time vent or flare was terminated | 06:51 PM |
| Cumulative hours during this event | 8 |

| | |
|---|--|
| 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 Tank (Any) Natural Gas Flared Released: 1,284 Mcf Recovered: 0 Mcf Lost: 1,284 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 | |
| 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 | All facility gas was sent to flare to purge off O2 from our vessels. |
| Steps taken to limit the duration and magnitude of vent or flare | Our midstream provider shut in. The facility was under maintenance. |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare | Our midstream provider shut in so that we also shut in for maintenance. |

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ACKNOWLEDGMENTS

Action 283204

ACKNOWLEDGMENTS

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| | Action Number: 283204 |
| | Action Type: [C-129] Amend Venting and/or Flaring (C-129A) |

ACKNOWLEDGMENTS

| | |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC. |
| <input checked="" type="checkbox"/> | I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record. |
| <input checked="" type="checkbox"/> | I hereby certify the statements in this amending 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 283204

CONDITIONS

| | |
|--|---|
| Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746 | OGRID: 372224 |
| | Action Number: 283204 |
| | Action Type: [C-129] Amend Venting and/or Flaring (C-129A) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--|----------------|
| cescayu | If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event. | 11/6/2023 |