

## Natural Gas Analysis Report

GPA 2172-09/API 14.5 Report with GPA 2145-16 Physical Properties

## Sample Information

|                                  | Sample Information                                |
|----------------------------------|---------------------------------------------------|
| Sample Name                      | COLLIE 35-34-22-27 FEE 401H (62485290) 9-7-2021   |
| Effective/Start Date             | 10-1-2021                                         |
| WELL NAME                        |                                                   |
| Laboratory                       | D JURNEY                                          |
| Analyzer Type                    | NAT. GAS ANALYZER                                 |
| Analyzer Make & Model            | INFICON MICRO GC                                  |
| Last Calibration/Validation Date | 9-1-2021                                          |
| Sampling Flow Rate               |                                                   |
| Air Temperature                  | 96                                                |
| Heat Tracing                     | Heated Hose & Gasifier                            |
| Type of Sample                   | SPOT PORTABLE GC                                  |
| Sampling Method                  | FILL AND EMPTY                                    |
| Company Collecting Sample        | AKM Measurement                                   |
| Method Name                      | C9                                                |
| Injection Date                   | 2021-09-07 14:08:36                               |
| Report Date                      | 2021-09-07 14:17:40                               |
| EZReporter Configuration File    | BLM Onshore.Extended.GPA 2145-16.FlowCal.H2S.cfgx |
| Source Data File                 | 8afced6f-3d66-4b4b-bd7f-e535cd6cddf0              |
| NGA Phys. Property Data Source   | GPA Standard 2145-16 (FPS)                        |
| Data Source                      | INFICON Fusion Connector                          |

## Component Results

| Component Name | Peak Area | Raw Amount | Response Factor | Norm Mole% | Gross HV (Dry)<br>(BTU / Ideal cu.ft.) | Relative Gas Density (Dry) | GPM (Dry)<br>(Gal. / 1000 cu.ft.) |  |
|----------------|-----------|------------|-----------------|------------|----------------------------------------|----------------------------|-----------------------------------|--|
| Nitrogen       | 16908.8   | 1.1746     | 0.00006947      | 1.1689     | 0.0                                    | 0.01131                    | 0.000                             |  |
| Methane        | 844136.3  | 76.7818    | 0.00009096      | 76.4073    | 769.3                                  | 0.42322                    | 0.000                             |  |
| CO2            | 3518.0    | 0.2042     | 0.00005803      | 0.2032     | 0.0                                    | 0.00309                    | 0.000                             |  |
| Ethane         | 196283.1  | 11.1211    | 0.00005666      | 11.0669    | 195.2                                  | 0.11490                    | 2.955                             |  |
| H2S            | 0.0       | 0.0000     | 0.00000000      | 0.0000     | 0.0                                    | 0.00000                    | 0.000                             |  |
| Propane        | 142609.0  | 5.8513     | 0.00004103      | 5.8228     | 146.0                                  | 0.08865                    | 1.602                             |  |
| iso-butane     | 50019.3   | 0.8730     | 0.00001745      | 0.8687     | 28.2                                   | 0.01743                    | 0.284                             |  |
| n-Butane       | 122252.2  | 2.1316     | 0.00001744      | 2.1212     | 69.0                                   | 0.04257                    | 0.668                             |  |
| iso-pentane    | 36462.8   | 0.5536     | 0.00001518      | 0.5509     | 22.0                                   | 0.01372                    | 0.201                             |  |
| n-Pentane      | 43708.4   | 0.6528     | 0.00001494      | 0.6496     | 26.0                                   | 0.01618                    | 0.235                             |  |
| hexanes        | 40239.0   | 0.4797     | 0.00001192      | 0.4774     | 22.6                                   | 0.01420                    | 0.196                             |  |
| heptanes       | 40156.0   | 0.3866     | 0.00000963      | 0.3847     | 21.1                                   | 0.01331                    | 0.177                             |  |
| octanes        | 26032.0   | 0.2105     | 0.00000809      | 0.2095     | 13.1                                   | 0.00826                    | 0.107                             |  |
| nonanes+       | 9746.0    | 0.0692     | 0.00000710      | 0.0689     | 4.8                                    | 0.00305                    | 0.039                             |  |
| Total:         |           | 100.4901   |                 | 100.0000   | 1317.3                                 | 0.76990                    | 6.464                             |  |

## Results Summary

| Result                                   | Dry      | Sat.   |  |
|------------------------------------------|----------|--------|--|
| Total Un-Normalized Mole%                | 100.4901 |        |  |
| Pressure Base (psia)                     | 14.650   |        |  |
| Temperature Base (Deg. F)                | 60.00    |        |  |
| Flowing Temperature (Deg. F)             | 124.0    |        |  |
| Flowing Pressure (psia)                  | 44.0     |        |  |
| Gross Heating Value (BTU / Ideal cu.ft.) | 1317.3   | 1294.2 |  |
| Gross Heating Value (BTU / Real cu.ft.)  | 1322.7   | 1300.1 |  |
| Relative Density (G), Real               | 0.7728   | 0.7705 |  |

## Monitored Parameter Report

| Parameter                  | Value    | Lower Limit | Upper Limit | Status |  |
|----------------------------|----------|-------------|-------------|--------|--|
| Total un-normalized amount | 100.4901 | 97.0000     | 103.0000    | Pass   |  |

**District I**1625 N. French Dr., Hobbs, NM 88240  
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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  
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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 59622

**QUESTIONS**

|                                                                                              |                                                        |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:<br>246289                                       |
|                                                                                              | Action Number:<br>59622                                |
|                                                                                              | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**QUESTIONS****Prerequisites**

Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.

|                   |                                             |
|-------------------|---------------------------------------------|
| Incident Well     | [30-015-45643] COLLIE 35 34 22 27 FEE #401H |
| Incident Facility | Not answered.                               |

**Determination of Reporting Requirements**

Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.

|                                                                                                                                                                                                                                                                                              |                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Was or is this venting and/or flaring caused by an emergency or malfunction                                                                                                                                                                                                                  | Yes                                               |
| Did or will this venting and/or flaring last eight hours or more cumulatively within any 24-hour period from a single event                                                                                                                                                                  | Yes                                               |
| Is this considered a submission for a venting and/or flaring event                                                                                                                                                                                                                           | Yes, 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 or will there be at least 50 MCF of natural gas vented and/or flared during this event                                                                                                                                                                                             | Yes                                               |
| Did this venting and/or flaring result in the release of ANY liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water | No                                                |
| Was the venting and/or flaring within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence                                                                                                      | No                                                |

**Equipment Involved**

|                                                           |                        |
|-----------------------------------------------------------|------------------------|
| Primary Equipment Involved                                | Gas Compressor Station |
| 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 | 0  |
| Oxygen (O2) percentage, if greater than one percent          | 0  |

If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.

|                                                     |               |
|-----------------------------------------------------|---------------|
| Methane (CH4) percentage quality requirement        | Not answered. |
| Nitrogen (N2) percentage quality requirement        | Not answered. |
| Hydrogen Sulfide (H2S) PPM quality requirement      | Not answered. |
| Carbon Dioxide (CO2) percentage quality requirement | Not answered. |
| Oxygen (O2) percentage quality requirement          | Not answered. |

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

|                                                         |            |
|---------------------------------------------------------|------------|
| Date venting and/or flaring was discovered or commenced | 10/29/2021 |
| Time venting and/or flaring was discovered or commenced | 12:00 AM   |
| Time venting and/or flaring was terminated              | 07:45 PM   |
| Cumulative hours during this event                      | 20         |

**Measured or Estimated Volume of Vented or Flared Natural Gas**

|                                  |               |
|----------------------------------|---------------|
| Natural Gas Vented (Mcf) Details | Not answered. |
|----------------------------------|---------------|

|                                                                           |                                                                                                                                  |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Natural Gas Flared (Mcf) Details                                          | Cause: High Line Pressure   Gas Compressor Station   Natural Gas Flared   Released: 146 Mcf   Recovered: 0 Mcf   Lost: 146 Mcf ] |
| Other Released Details                                                    | Not answered.                                                                                                                    |
| Additional details for Measured or Estimated Volume(s). Please specify    | Not answered.                                                                                                                    |
| Is this a gas only submission (i.e. only significant Mcf values reported) | Yes, according to supplied volumes this appears to be a "gas only" report.                                                       |

**Venting or Flaring Resulting from Downstream Activity**

|                                                                            |                                                     |
|----------------------------------------------------------------------------|-----------------------------------------------------|
| Was or is this venting and/or flaring a result of downstream activity      | Yes                                                 |
| Was notification of downstream activity received by you or your operator   | No                                                  |
| Downstream OGRID that should have notified you or your operator            | [328710] San Mateo Black River Oil Pipeline II, LLC |
| Date notified of downstream activity requiring this venting and/or flaring | Not answered.                                       |
| Time notified of downstream activity requiring this venting and/or flaring | Not answered.                                       |

**Steps and Actions to Prevent Waste**

|                                                                                                                                |                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control. | True                                                                                       |
| Please explain reason for why this event was beyond your operator's control                                                    | Flared due to the San Mateo Compressor Station being down.                                 |
| Steps taken to limit the duration and magnitude of venting and/or flaring                                                      | Coordinated with San Mateo's control room to get an operator out to start the compressors. |
| Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring                                     | San Mateo is taking steps to winterize units.                                              |

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CONDITIONS  
  
Action 59622

CONDITIONS

|                                                                                              |                                                        |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:<br>246289                                       |
|                                                                                              | Action Number:<br>59622                                |
|                                                                                              | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

CONDITIONS

| Created By | Condition                                                                                                                                                                          | Condition Date |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| ohair      | If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event. | 11/4/2021      |