

## 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 402H (62490308) 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 13:58:18                               |
| Report Date                      | 2021-09-07 14:07:31                               |
| EZReporter Configuration File    | BLM Onshore.Extended.GPA 2145-16.FlowCal.H2S.cfgx |
| Source Data File                 | 4f0d7b1b-9e75-479c-8e61-217c929bd234              |
| 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       | 14524.0   | 1.0090     | 0.00006947      | 1.0009     | 0.0                                    | 0.00968                    | 0.000                             |  |
| Methane        | 804329.1  | 73.1610    | 0.00009096      | 72.5780    | 730.7                                  | 0.40201                    | 0.000                             |  |
| CO2            | 2436.6    | 0.1414     | 0.00005803      | 0.1403     | 0.0                                    | 0.00213                    | 0.000                             |  |
| Ethane         | 232144.4  | 13.1530    | 0.00005666      | 13.0481    | 230.2                                  | 0.13547                    | 3.486                             |  |
| H2S            | 0.0       | 0.0000     | 0.00000000      | 0.0000     | 0.0                                    | 0.00000                    | 0.000                             |  |
| Propane        | 176734.8  | 7.2515     | 0.00004103      | 7.1937     | 180.4                                  | 0.10952                    | 1.980                             |  |
| iso-butane     | 58075.6   | 1.0136     | 0.00001745      | 1.0055     | 32.6                                   | 0.02018                    | 0.329                             |  |
| n-Butane       | 144058.1  | 2.5118     | 0.00001744      | 2.4918     | 81.0                                   | 0.05001                    | 0.785                             |  |
| iso-pentane    | 40027.9   | 0.6077     | 0.00001518      | 0.6029     | 24.0                                   | 0.01502                    | 0.220                             |  |
| n-Pentane      | 48202.6   | 0.7200     | 0.00001494      | 0.7142     | 28.5                                   | 0.01779                    | 0.259                             |  |
| hexanes        | 42735.0   | 0.5095     | 0.00001192      | 0.5054     | 24.0                                   | 0.01504                    | 0.208                             |  |
| heptanes       | 43889.0   | 0.4226     | 0.00000963      | 0.4192     | 23.0                                   | 0.01450                    | 0.193                             |  |
| octanes        | 28185.0   | 0.2279     | 0.00000809      | 0.2261     | 14.1                                   | 0.00892                    | 0.116                             |  |
| nonanes+       | 10497.0   | 0.0745     | 0.00000710      | 0.0739     | 5.2                                    | 0.00327                    | 0.042                             |  |
| Total:         |           | 100.8034   |                 | 100.0000   | 1373.8                                 | 0.80354                    | 7.615                             |  |

## Results Summary

| Result                                   | Dry      | Sat.   |  |
|--|----------|--------|--|
| Total Un-Normalized Mole%                | 100.8034 |        |  |
| Pressure Base (psia)                     | 14.650   |        |  |
| Temperature Base (Deg. F)                | 60.00    |        |  |
| Flowing Temperature (Deg. F)             | 129.0    |        |  |
| Flowing Pressure (psia)                  | 47.0     |        |  |
| Gross Heating Value (BTU / Ideal cu.ft.) | 1373.8   | 1349.7 |  |
| Gross Heating Value (BTU / Real cu.ft.)  | 1380.1   | 1356.5 |  |
| Relative Density (G), Real               | 0.8069   | 0.8040 |  |

## Monitored Parameter Report

| Parameter                  | Value    | Lower Limit | Upper Limit | Status |  |
|----------------------------|----------|-------------|-------------|--------|--|
| Total un-normalized amount | 100.8034 | 97.0000     | 103.0000    | Pass   |  |

**District I**

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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 64487

**QUESTIONS**

|  |  |
|--|--|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:<br>246289                                       |
|  | Action Number:<br>64487                                |
|  | 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   | [30-015-47294] COLLIE 35 34 22 27 FEE #402H |
| Incident Facility   | Not answered.                               |

|  |   |
|--|---|
| <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 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  | No  |
| Is this considered a submission for a venting and/or flaring 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 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  |

|   |                        |
|---|------------------------|
| <b>Equipment Involved</b>                                 |                        |
| Primary Equipment Involved                                | Gas Compressor Station |
| 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   | 73            |
| 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             |
| <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. |

|   |            |
|---|------------|
| <b>Date(s) and Time(s)</b>                              |            |
| Date venting and/or flaring was discovered or commenced | 11/26/2021 |
| Time venting and/or flaring was discovered or commenced | 02:15 PM   |
| Time venting and/or flaring was terminated              | 04:45 PM   |
| Cumulative hours during this event                      | 2          |

|   |               |
|---|---------------|
| <b>Measured or Estimated Volume of Vented or Flared Natural Gas</b> |               |
| Natural Gas Vented (Mcf) Details                                    | Not answered. |

|   |  |
|---|--|
| Natural Gas Flared (Mcf) Details  | Cause: High Line Pressure   Gas Compressor Station   Natural Gas Flared   Released: 61 Mcf   Recovered: 0 Mcf   Lost: 61 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 high line pressure caused by San Mateo's compressor station going down. |
| Steps taken to limit the duration and magnitude of venting and/or flaring  | Called San Mateo.   |
| Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring                                     | Replaced vibration switch on unit.  |

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CONDITIONS  
  
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CONDITIONS

|  |  |
|--|--|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:<br>246289                                       |
|  | Action Number:<br>64487                                |
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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. | 12/1/2021      |