LABORATORY SERVICES Natural Gas Analysis
www.permianls.com
575.397.3713 2609 W Marland Hobbs NM 88240

# C6+ Gas Analysis Report

| 12253G | Gouda 605H | Gouda 605H |
|---|---|---|
| Sample Point Code | Sample Point Name | Sample Point Location |

| Laboratory Services | 2021044353 | 1874 | F Sanchez - Spot |
|---|---|---|---|
| Source Laboratory | Lab File No | Container Identity | Sampler |

| USA | USA | USA | Default |
|---|---|---|---|
| District | Area Name | Field Name | Facility Name |

| Aug 3, 2021 | Aug 3, 2021 | Aug 4, 2021 13:05 | Aug 5, 2021 |
|---|---|---|---|
| Date Sampled | Date Effective | Date Received | Date Reported |

| | | Luis | 193 @ 131 |
|---|---|---|---|
| Ambient Temp (°F) | Flow Rate (Mcf) | Analyst | Press PSI @ Temp °F Source Conditions |

| Innospec | Centennial |
|---|---|
| Operator | Lab Source Description |

| Component | Normalized Mol % | Un-Normalized Mol % | GPM |
|---|---|---|---|
| H2S (H2S) | 0.0000 | 0 | |
| Nitrogen (N2) | 1.5470 | 1.54706 | |
| CO2 (CO2) | 0.1060 | 0.10583 | |
| Methane (C1) | 69.7960 | 69.79476 | |
| Ethane (C2) | 14.5370 | 14.53718 | 3.8870 |
| Propane (C3) | 7.8040 | 7.80424 | 2.1490 |
| I-Butane (IC4) | 0.9670 | 0.96748 | 0.3160 |
| N-Butane (NC4) | 2.6080 | 2.60786 | 0.8220 |
| I-Pentane (IC5) | 0.6010 | 0.60089 | 0.2200 |
| N-Pentane (NC5) | 0.7010 | 0.70128 | 0.2540 |
| Hexanes Plus (C6+) | 1.3330 | 1.33342 | 0.5780 |
| TOTAL | 100.0000 | 100.0000 | 8.2260 |

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

### Analyzer Information

| | |
|---|---|
| Device Type: | Device Make: |
| Device Model: | Last Cal Date: |

### Gross Heating Values (Real, BTU/ft³)

| 14.696 PSI @ 60.00 Â°F | | 14.73 PSI @ 60.00 Â°F | |
|---|---|---|---|
| Dry | Saturated | Dry | Saturated |
| 1,400.5 | 1,377.6 | 1,403.7 | 1,380.8 |

### Calculated Total Sample Properties

GPA2145-16 *Calculated at Contract Conditions

| Relative Density Real | Relative Density Ideal |
|---|---|
| 0.8235 | 0.8200 |

Molecular Weight
23.7488

### C6+ Group Properties

Assumed Composition

C6 - 60.000% C7 - 30.000% C8 - 10.000%

Field H2S
0 PPM

**PROTREND STATUS:**
Passed By Validator on Aug 6, 2021

**DATA SOURCE:**
Imported

**PASSED BY VALIDATOR REASON:**
First sample taken @ this point, composition looks reasonable

**VALIDATOR:**
Dustin Armstrong

**VALIDATOR COMMENTS:**
OK

***Preliminary Production Data***

| Wellname | ProductionDate | Gas Flare |
|---|---|---|
| Gouda Fed Com #605H | 9/1/2021 | 1414 |
| Gouda Fed Com #605H | 9/2/2021 | 1884 |
| Gouda Fed Com #605H | 9/3/2021 | 1320 |
| Gouda Fed Com #605H | 9/4/2021 | 1338 |
| Gouda Fed Com #605H | 9/5/2021 | 991 |
| Gouda Fed Com #605H | 9/6/2021 | 1088 |
| Gouda Fed Com #605H | 9/7/2021 | 0 |
| Gouda Fed Com #605H | 9/8/2021 | 0 |
| Gouda Fed Com #605H | 9/9/2021 | 0 |
| Gouda Fed Com #605H | 9/10/2021 | 0 |

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**District III**
1000 Rio Brazos Rd., Aztec, NM 87410
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**District IV**
1220 S. St Francis Dr., Santa Fe, NM 87505
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

QUESTIONS

Action 46896

## QUESTIONS

| | |
|---|---|
| Operator:<br>CENTENNIAL RESOURCE PRODUCTION, LLC<br>1001 17th Street, Suite 1800<br>Denver, CO 80202 | OGRID:<br>372165 |
| | Action Number:<br>46896 |
| | 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 | **[30-025-48617] GOUDA FEDERAL COM #605H** |
| 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 addional guidance.* | |
| Was or is this venting and/or flaring caused by an emergency or malfunction | No |
| 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, 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 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 | 70 |
| Nitrogen (N2) percentage, if greater than one percent | 2 |
| Hydrogen Sulfide (H2S) PPM, rounded up | 0 |
| Carbon Dioxide (C02) percentage, if greater than one percent | 0 |
| Oxygen (02) 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 Sufide (H2S) PPM quality requirement | *Not answered.* |
| Carbon Dioxide (C02) percentage quality requirement | *Not answered.* |
| Oxygen (02) percentage quality requirement | *Not answered.* |

| **Date(s) and Time(s)** | |
|---|---|
| Date venting and/or flaring was discovered or commenced | 09/01/2021 |
| Time venting and/or flaring was discovered or commenced | 04:30 AM |
| Time venting and/or flaring was terminated | 11:59 PM |
| Cumulative hours during this event | 15 |

| **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: 1,414 Mcf \| Recovered: 0 Mcf \| Lost: 1,414 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 | No |
| Was notification of downstream activity received by you or your operator | *Not answered.* |
| Downstream OGRID that should have notified you or your operator | *Not answered.* |
| 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. | False |
| Please explain reason for why this event was beyond your operator's control | *Not answered.* |
| Steps taken to limit the duration and magnitude of venting and/or flaring | We have Choked back our well to prevent high line pressure. |
| Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring | We are working on another way to get our gas to sales. Please see attached spreadsheet with the dates 9.1.21 - 9.6.21 with over 500 flare all for 24 hour days. |

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CONDITIONS

Action 46896

## CONDITIONS

| | |
|---|---|
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**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| kcastillo | 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. | 9/8/2021 |