



Test Report

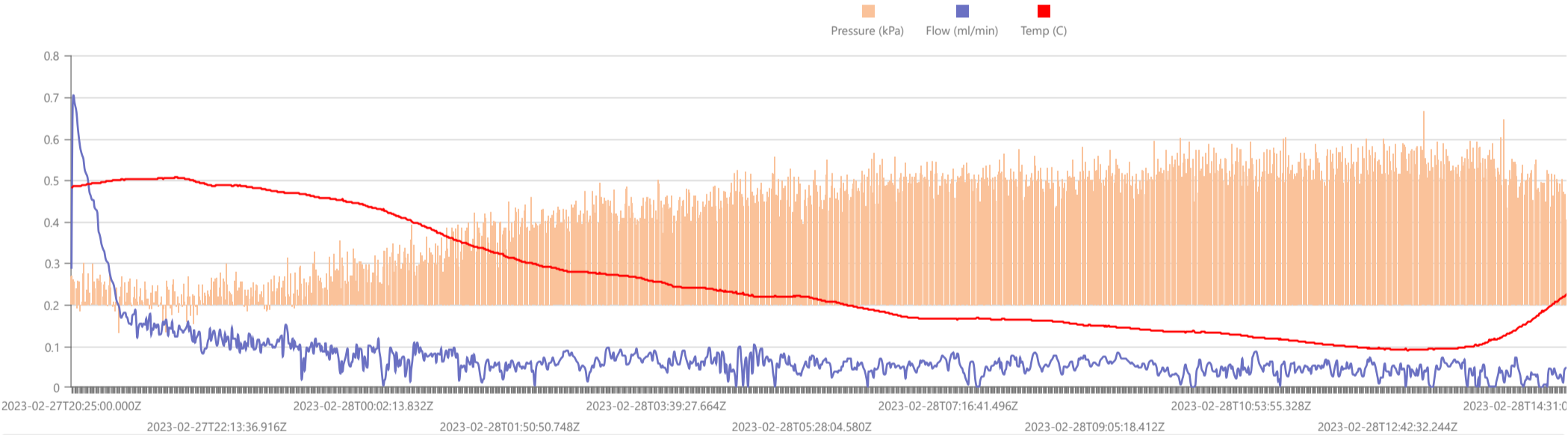
|   |  |
|---|--|
| Start Date: Mon Feb 27 2023 20:25:00 GMT+0000 (Coordinated Universal Time)<br>End Date: Tue Feb 28 2023 18:19:21 GMT+0000 (Coordinated Universal Time)<br>Device: VB100-0020<br>Well Licensee: 30-015-02136<br>Well Name: Artesia Metex 041<br>UWI: 30-015-02136<br>Well License Number: 30-015-02136<br>Surface Location: State of NM<br>Bottom Hole Location: Unknown | Test Operator: Sean O. Jacobson<br>Authorized By: State of NM<br>Test Reason: IJJA Pre Plugging<br>Scope Of Work: 12 Hour<br>AFE Number: 52100-0000072986<br>GPS: 32.72092,-104.22246<br>Notes: GTG<br>Prepared By: Curtis Shuck - QMS |
|---|--|

Flow / Pressure Test

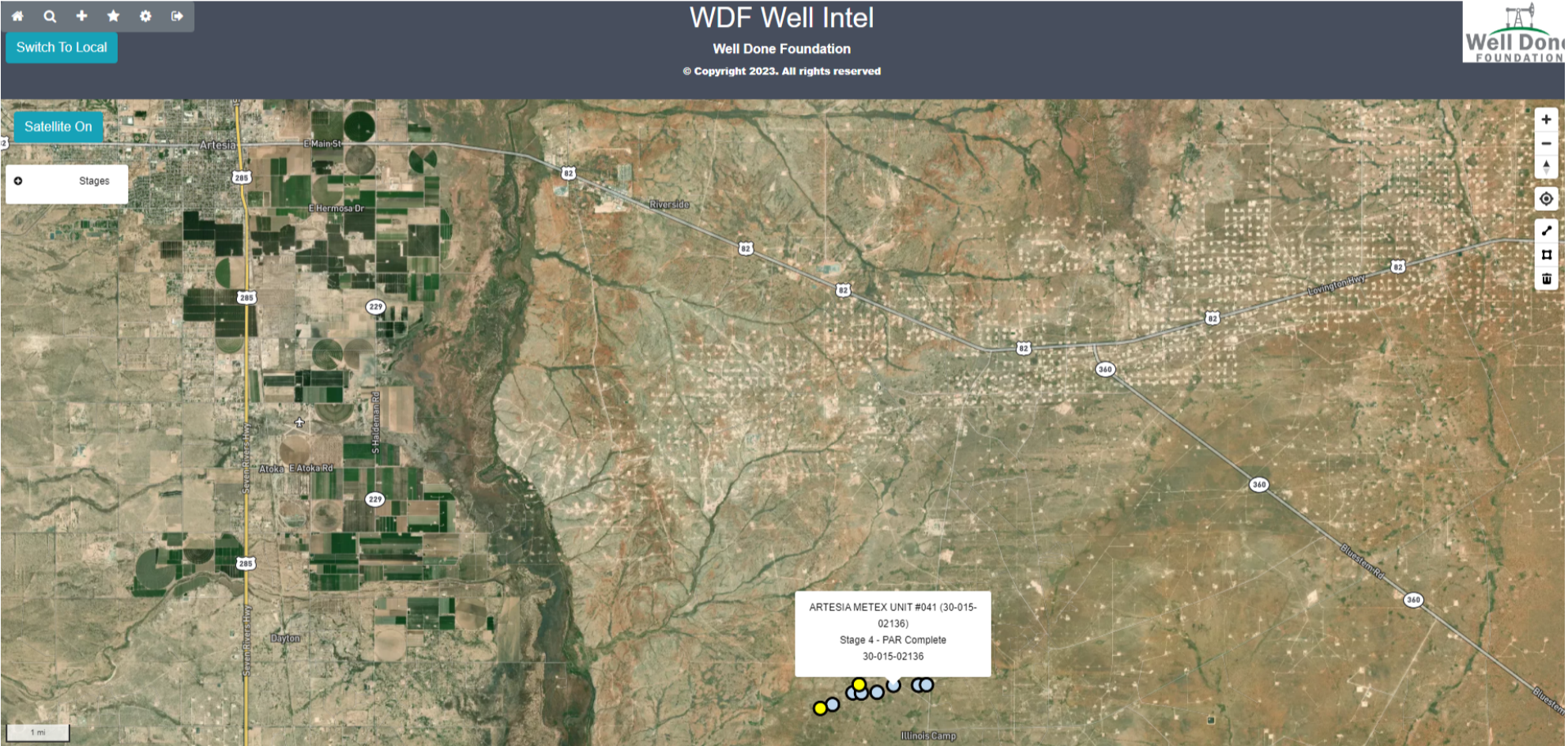
|  |                                    |                                    |   |                               |
|--|------------------------------------|------------------------------------|---|-------------------------------|
| Flow Duration<br>21 hrs 53 minutes<br>Duration | Average Flowrate<br>0.0697<br>m3/d | Average Pressure<br>2.1594<br>kPag | Average Flow Temperature<br>13.6388<br>°C | Average CH4 Mass<br>0.01 g/hr |
|--|------------------------------------|------------------------------------|---|-------------------------------|

**Methane Calculation:** 717 grams CH4 per cubic meter (717 g/m³ x 0.0697 m³/day = 49.97 g/day total /24 = 2.08 g/hour x 0.00627 (methane concentration) = **0.01 g/hour CH4**). **Methane, gas** weighs 0.000717 *gram per cubic centimeter* or 0.717 *kilgram per cubic meter*, i.e. density of *methane, gas* is equal to 0.717 kg/m³; at 0°C (32°F or 273.15K) at standard atmospheric pressure. In imperial or US customary measurement system, the density is equal to 0.0448 *pound per cubic foot* [lb/ft³], or 0.0004144 *ounce per cubic inch* [oz/inch³].

Flow / Pressure / Temperature Timeseries

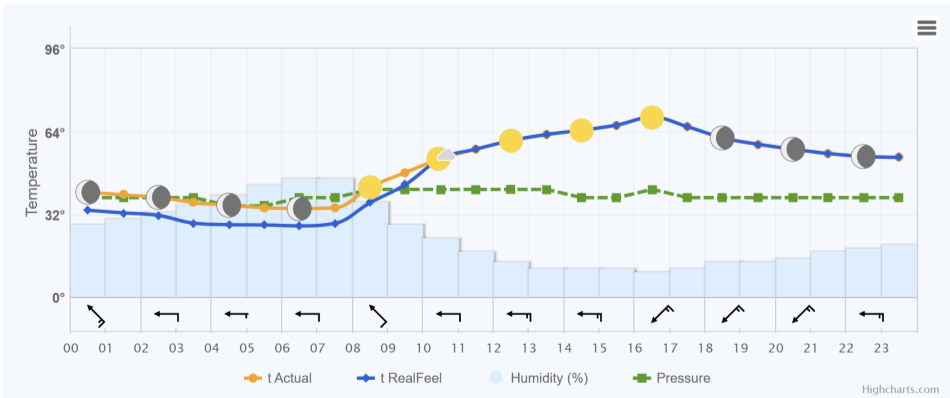


| # | Date       | Note   |
|---|------------|--|
| 1 | 2023-06-27 | ces: On location with the WDF Measure 1 Team. Take site photos, inspect cement, perform Field Gas Analysis, collect Gas Sample for Laboratory analysis, place green ribbon on well bore. WILDCAT OUT!  |
| 2 | 2023-03-11 | Arrived ~11:50am 3/11/2023. Rigged down flow test. SP VB #44   |
| 3 | 2023-03-10 | Arrived 12:47pm3/10/2023. Rigged up flow test. SP VB #44   |
| 4 | 2023-02-28 | Arrived 12:45pm 2/28/2023. Rigged down flow test.  |
| 5 | 2023-02-27 | Arrived 11:18am 2/27/2023. Rigged up Ventbuster #20 for flow testing.  |
| 6 | 2022-07-29 | ces: gas at this well. The well head casing has been cemented with a 4 x 5' concrete pad surrounding the casing vent and the well head. 2 3/8" casing above the slips to an old school gas valve. This is a gas well. Good access. Steel flow lines. |

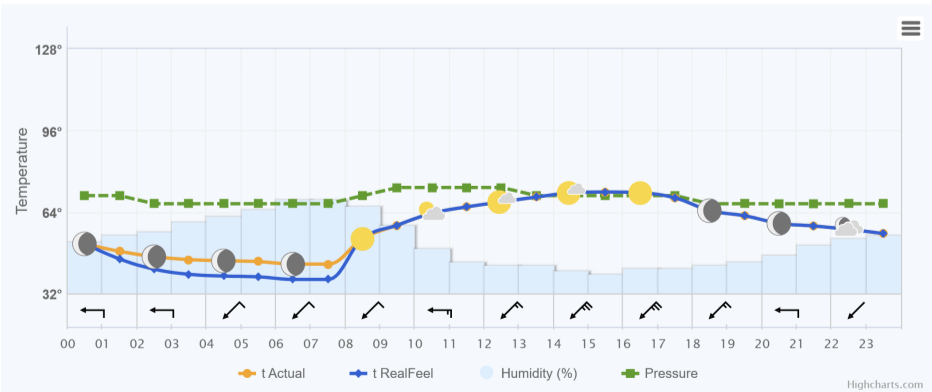


Weather Observations :

Hourly forecast for 27.02.2023



Hourly forecast for 28.02.2023





www.permianls.com  
575.397.3713 2609 W Marland Hobbs NM 88240

## C6+ Gas Analysis Report

|                             |                           |                          |  |
|-----------------------------|---------------------------|--------------------------|--|
| <b>16146G</b>               | <b>Artesia Metex #41</b>  | <b>Artesia Metex #41</b> |  |
| Sample Point Code           | Sample Point Name         | Sample Point Location    |  |
| <b>Laboratory Services</b>  | <b>2023064924</b>         | <b>Tedlar Bag</b>        | <b>SOJ - Spot</b>                                |
| Source Laboratory           | Lab File No               | Container Identity       | Sampler  |
| <b>USA</b>                  | <b>USA</b>                | <b>USA</b>               | <b>New Mexico</b>                                |
| District                    | Area Name                 | Field Name               | Facility Name                                    |
| <b>Feb 27, 2023 13:12</b>   | <b>Feb 27, 2023 13:12</b> | <b>Mar 2, 2023 07:22</b> | <b>Mar 6, 2023</b>                               |
| Date Sampled                | Date Effective            | Date Received            | Date Reported                                    |
| <b>System Administrator</b> |                           |                          |  |
| <b>Ambient Temp (°F)</b>    | <b>Flow Rate (Mcf)</b>    | <b>Analyst</b>           | <b>Press PSI @ Temp °F<br/>Source Conditions</b> |
| <b>Well Done Foundation</b> |                           | <b>NG</b>                |  |
| Operator                    |                           | Lab Source Description   |  |

| Component          | Normalized Mol % | Un-Normalized Mol % | GPM    |
|--------------------|------------------|---------------------|--------|
| H2S (H2S)          | 0.0000           | 0                   |        |
| Nitrogen (N2)      | 98.9070          | 98.908              |        |
| CO2 (CO2)          | 0.0710           | 0.071               |        |
| Methane (C1)       | 0.6270           | 0.627               |        |
| Ethane (C2)        | 0.1310           | 0.131               | 0.0350 |
| Propane (C3)       | 0.0560           | 0.056               | 0.0150 |
| I-Butane (IC4)     | 0.0000           | 0                   | 0.0000 |
| N-Butane (NC4)     | 0.0180           | 0.018               | 0.0060 |
| I-Pentane (IC5)    | 0.0000           | 0                   | 0.0000 |
| N-Pentane (NC5)    | 0.0000           | 0                   | 0.0000 |
| Hexanes Plus (C6+) | 0.1900           | 0.19                | 0.0820 |
| TOTAL              | 100.0000         | 100.0010            | 0.1380 |

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

| Analyzer Information |                   |                |              |
|----------------------|-------------------|----------------|--------------|
| Device Type:         | Gas Chromatograph | Device Make:   | Shimadzu     |
| Device Model:        | GC-2014           | Last Cal Date: | Feb 13, 2023 |

| Gross Heating Values (Real, BTU/ft³) |           |                       |           |
|--------------------------------------|-----------|-----------------------|-----------|
| 14.696 PSI @ 60.00 Å°F               |           | 14.73 PSI @ 60.00 Å°F |           |
| Dry                                  | Saturated | Dry                   | Saturated |
| 20.5                                 | 21.00     | 20.5                  | 21.00     |

| Calculated Total Sample Properties            |                        |
|---|------------------------|
| GPA2145-16 *Calculated at Contract Conditions |                        |
| Relative Density Real                         | Relative Density Ideal |
| 0.9699  | 0.9700                 |
| Molecular Weight                              |                        |
| 28.0907                                       |                        |

| C6+ Group Properties |              |              |
|----------------------|--------------|--------------|
| Assumed Composition  |              |              |
| C6 - 60.000%         | C7 - 30.000% | C8 - 10.000% |

|           |
|-----------|
| Field H2S |
| 0 PPM     |

**PROTREND STATUS:** Passed By Validator on Mar 7, 2023  
**DATA SOURCE:** Imported

**PASSED BY VALIDATOR REASON:**  
Close enough to be considered reasonable.

**VALIDATOR:**  
Brooke Rush  
**VALIDATOR COMMENTS:**  
OK

| Source      | Date                | Notes               |
|-------------|---------------------|---------------------|
| Brooke Rush | Mar 7, 2023 2:21 pm | Methane = 6,270 PPM |

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
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  
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 295383

DEFINITIONS

|   |   |
|---|---|
| Operator:<br>CANYON E & P COMPANY<br>251 O'Connor Ridge Blvd.<br>Irving, TX 75038 | OGRID:<br>269864  |
|   | Action Number:<br>295383  |
|   | Action Type:<br>[UF-OMA] Pre-Plug Methane Monitoring (UF-OMA-MMA) |

DEFINITIONS

The Orphan Well Mitigation Activity (OMA) forms are a subset of the OCD's forms exclusively designed for activities related to State of New Mexico's contracted plugging and reclamation activities. Specifically, these forms are used for orphan wells or associated facilities which are in a "Reclamation Fund Approved" status. This status represents wells or facilities where the OCD has acquired a hearing order allowing the OCD to perform plugging or reclamation on wells and associated facilities that no longer have a viable operator to perform the necessary work. These forms are not to be utilized for any other purpose.

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
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  
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 295383

**QUESTIONS**

|   |   |
|---|---|
| Operator:<br>CANYON E & P COMPANY<br>251 O'Connor Ridge Blvd.<br>Irving, TX 75038 | OGRID:<br>269864  |
|   | Action Number:<br>295383  |
|   | Action Type:<br>[UF-OMA] Pre-Plug Methane Monitoring (UF-OMA-MMA) |

**QUESTIONS**

|                            |  |
|----------------------------|--|
| <b>Prerequisites</b>       |  |
| [OGRID] Well Operator      | [269864] CANYON E & P COMPANY          |
| [API] Well Name and Number | [30-015-02136] ARTESIA METEX UNIT #041 |
| Well Status                | Plugged (not released)                 |

**Monitoring Event Information***Please answer all the questions in this group.*

|                    |                             |
|--------------------|-----------------------------|
| Reason For Filing  | Pre-Plug Methane Monitoring |
| Date of monitoring | 02/27/2023                  |
| Latitude           | 32.72092                    |
| Longitude          | -104.22246                  |

**Monitoring Event Details***Please answer all the questions in this group.*

|   |              |
|---|--------------|
| Flow rate in cubic meters per day (m³/day)        | 0.06         |
| Test duration in hours (hr)                       | 21.9         |
| Average flow temperature in degrees Celsius (°C)  | 13.6         |
| Average gauge flow pressure in kilopascals (kPag) | 2.1          |
| Methane concentration in part per million (ppm)   | 6,270        |
| Methane emission rate in grams per hour (g/hr)    | 0.01         |
| Testing Method                                    | Steady State |

**Monitoring Contractor***Please answer all the questions in this group.*

|                               |                          |
|-------------------------------|--------------------------|
| Name of monitoring contractor | Well Done New Mexico LLC |
|-------------------------------|--------------------------|