



Pre Plugging Methane Quantification Test Report

Report Prepared By Curtis Shuck

Start Date: Sat Mar 22 2025 23:58:27 GMT+0000
 (Coordinated Universal Time)
 End Date: Sun Mar 23 2025 02:35:42 GMT+0000
 (Coordinated Universal Time)
 Test Time Subset: 2025-03-22T23:58:31.000Z -
 2025-03-23T02:34:31.000Z
 Device: VB100-0054
 Well Licensee: NMOCD
 Well Name: TOLMAC 002
 UWI: 20-005-61551
 Well License Number: 30-030-61551
 Surface Location: State of New Mexico
 Bottom Hole Location: Unknown
 Test Operator: CES QMS
 Authorized By: NMOCD
 Test Reason: EMERGENCY
 Scope Of Work: IIJA - 2 HOUR
 AFE Number: 79785
 GPS: 33.48467,-104.35696
 Notes: BIG LEAKER

Orphan Well Flow Test Results

| Average Flowrate 718.3317 scf/hr | Average Flow Temperature 70.61 °F | Average Flow Pressure 0.0266 psi | Flow Duration 156 min | Methane Concentration 84.1497 % | Methane Emissions 11608.44 g/hr | Benzene N/A ppm |
|--|---|--|-----------------------------|---------------------------------------|---------------------------------------|-----------------------|
|--|---|--|-----------------------------|---------------------------------------|---------------------------------------|-----------------------|

Annual Emission Rate = $(\bar{Q} \text{measured}) \times (\text{Concmeasured}) \times p \times 0.454 \times 8,760$

Methane Calculation:

$(\bar{Q} \text{measured}) 718.3317 \text{ scf/hr} \times (\text{Concmeasured}) 0.8415 = 604.47400387 \text{ scf CH4/hr}$
 $\text{Methane Flow} \times (p) \times 0.423 \times 0.454 \times 8,760 = 101689.9344 \text{ CH4 kg/yr Emission Rate}$

Where:

Q_{measured} - scf/hr total measured flow

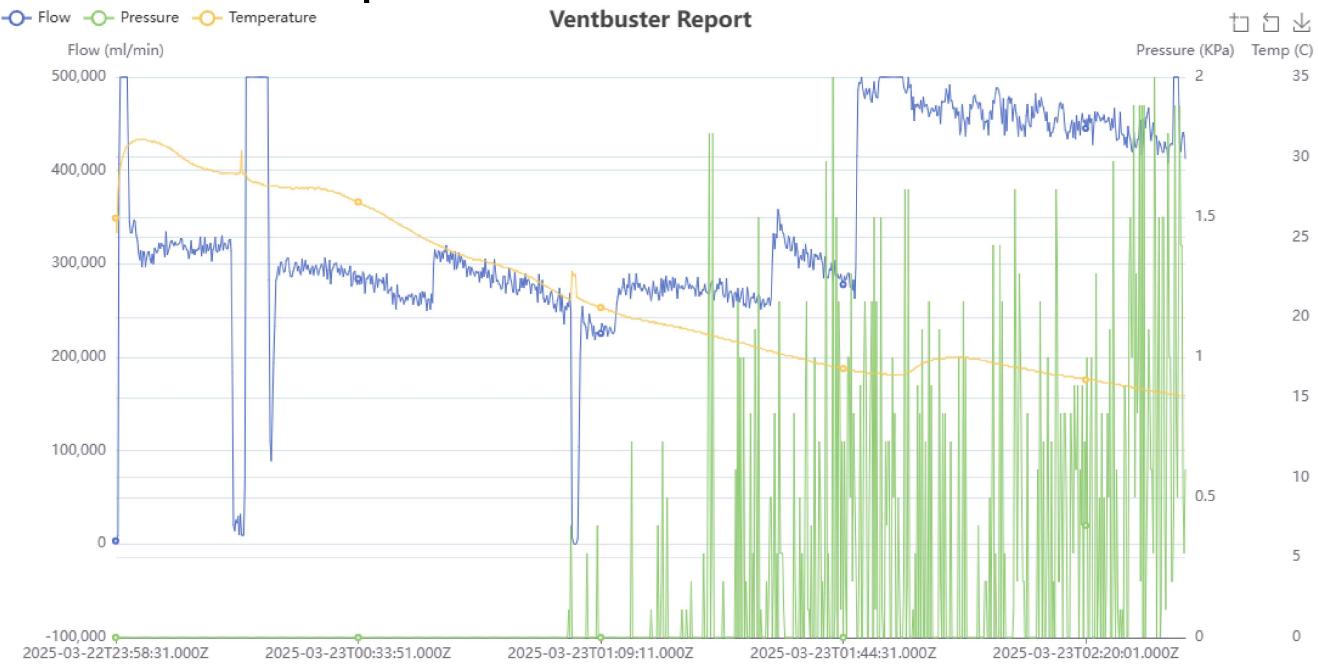
$\text{Conc}_{\text{measured}}$ - methane concentration measured

p - 0.0423 methane density at 1 atm; 60° F

0.454 - Conversion from lb to kg

8760 - Conversion from hr to yr

Flow/Pressure/Temperature Timeseries



Site Photos

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Action 535176

DEFINITIONS

| | |
|--|---|
| Operator: | OGRID: |
| Well Done New Mexico LLC (OPG Vendor) 333 Main St Shelby, MT 59474 | 333567 |
| | Action Number: 535176 |
| | Action Type: [UF-OMA] Pre-Plug Methane Monitoring (UF-OMA-MMA) |

DEFINITIONS

The OCD Mitigation Activity (OMA) forms are a subset of the OCD's forms exclusively designed for activities related to State of New Mexico's contracted evaluation, plugging, decommissioning, remediation, salvage and reclamation activities. Specifically, these forms are typically used where the OCD has acquired a hearing order allowing the OCD to perform mitigation activities on wells and associated facilities that no longer have an authorized or viable operator to perform the necessary work. These forms are not to be utilized for any other purpose.

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QUESTIONS

Action 535176

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| Operator: Well Done New Mexico LLC (OPG Vendor) 333 Main St Shelby, MT 59474 | OGRID: 333567 Action Number: 535176 Action Type: [UF-OMA] Pre-Plug Methane Monitoring (UF-OMA-MMA) |
|---|---|

QUESTIONS

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|----------------------------|--|
| Prerequisites | |
| [OGRID] Well Operator | [330522] Acacia Operating Company, LLC |
| [API] Well Name and Number | [30-005-61551] TOLMAC STATE #002 |
| 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 | 03/22/2025 |
| Latitude | 33.4846611 |
| Longitude | -104.3569031 |

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

| | |
|---|--------------|
| Flow rate in cubic meters per day (m ³ /day) | 17,239.00 |
| Test duration in hours (hr) | 2.0 |
| Average flow temperature in degrees Celsius (°C) | 21.1 |
| Average gauge flow pressure in kilopascals (kPag) | 0.2 |
| Methane concentration in part per million (ppm) | 841,497 |
| Methane emission rate in grams per hour (g/hr) | 11,608.44 |
| Testing Method | Steady State |

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

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|-------------------------------|--------------------------|
| Name of monitoring contractor | WELL DONE NEW MEXICO LLC |
|-------------------------------|--------------------------|