



## 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	Average Flow Temperature	Average Flow Pressure	Flow Duration	Methane Concentration	Methane Emissions	Benzene
<b>718.3317</b> scf/hr	<b>70.61</b> °F	<b>0.0266</b> psi	<b>156</b> min	<b>84.1497</b> %	<b>11608.44</b> g/hr	<b>N/A</b> ppm

Annual Emission Rate =  $(\bar{X}Q_{measured}) \times (Conc_{measured}) \times p \times 0.454 \times 8,760$

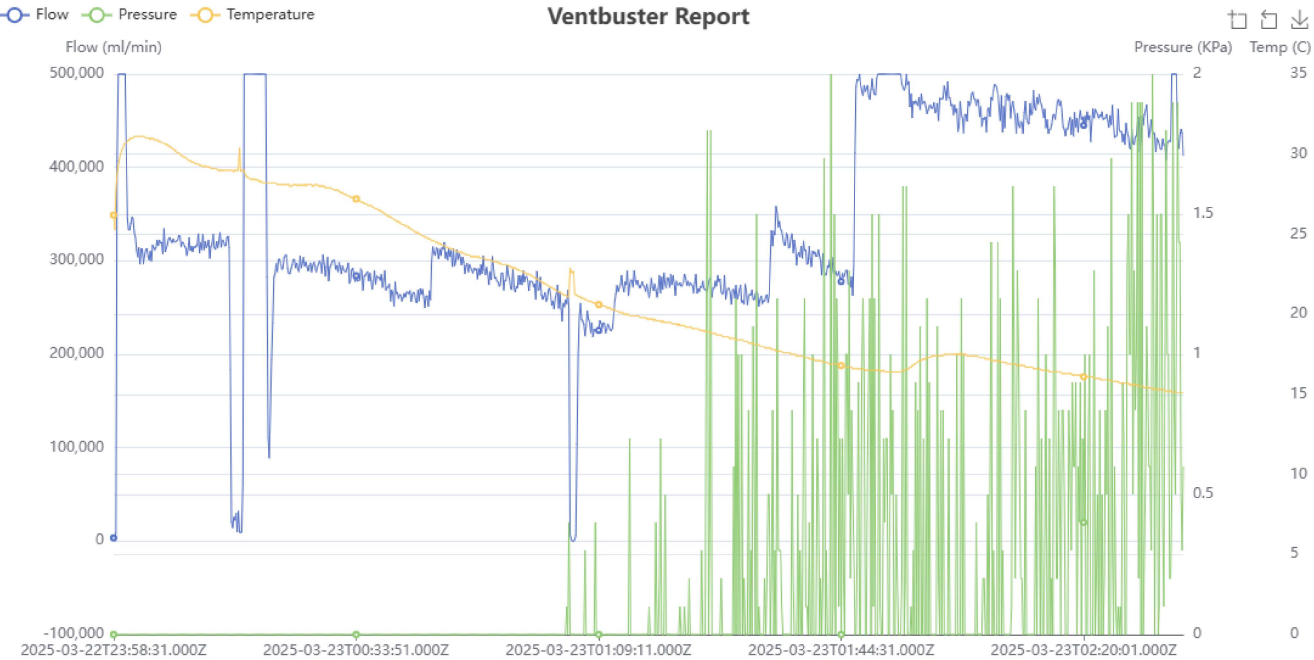
#### Methane Calculation:

$(\bar{X}Q_{measured})$  718.3317 scf/hr x  $(Conc_{measured})$  0.8415 = 604.47400387 scf CH<sub>4</sub>/hr  
 Methane Flow x  $(p)$  x .0423 x .454 x 8,760 = 101689.9344 CH<sub>4</sub> kg/yr Emission Rate

#### Where:

$Q_{measured}$  - scf/hr total measured flow  
 $Conc_{measured}$  - 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

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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)

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

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	Action Type: [UF-OMA] Pre-Plug Methane Monitoring (UF-OMA-MMA)

QUESTIONS

<b>Prerequisites</b>	
[OGRID] Well Operator	[330522] Acacia Operating Company, LLC
[API] Well Name and Number	[30-005-61551] TOLMAC STATE #002
Well Status	Plugged (not released)

<b>Monitoring Event Information</b>	
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

<b>Monitoring Event Details</b>	
Please answer all the questions in this group.	
Flow rate in cubic meters per day (m³/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

<b>Monitoring Contractor</b>	
Please answer all the questions in this group.	
Name of monitoring contractor	WELL DONE NEW MEXICO LLC