



Pre Plugging Methane Quantification Test Report

Report Prepared By Curtis Shuck

Start Date: Sun Jan 28 2024 00:29:09 GMT+0000
 (Coordinated Universal Time)
End Date: Sun Jan 28 2024 22:46:41 GMT+0000
 (Coordinated Universal Time)
Test Time Subset: 2024-01-28T00:28:34.270Z -
 2024-01-28T22:44:14.010Z
Device: VB100-0070
Well Licensee: NMOCD
Well Name: Stevens B 7 001
UWI: 30-025-10663
Well License Number: 30-025-10663
Surface Location: Unknown
Bottom Hole Location: 3465
Test Operator: ces QMS
Authorized By: NMOCD
Test Reason: IJJA PRE PLUG
Scope Of Work: 12- hour
AFE Number: LEA24.001
GPS: 32.32351,-103.20718
Notes: GTG

Orphan Well Flow Test Results

Average Flowrate	Average Flow Temperature	Average Flow Pressure	Flow Duration	Methane Concentration	Methane Emissions	Benzene
17.1808 scf/hr	52.2 °F	0.5034 psi	1335.66 min	70.87 %	233.83 g/hr	1 ppm

Annual Emission Rate = ($\bar{x}Q_{measured}$) x (Conc $_{measured}$) x p x 0.454 x 8,760

Methane Calculation:

($\bar{x}Q_{measured}$) 17.1808 scf/hr x (Conc $_{measured}$) 0.7087 = 12.176059 scf CH₄/hr

Methane Flow x (p) x .0423 x .454 x 8,760 = 2048.3508 CH₄ kg/yr Emission Rate

Where:

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

Conc $_{measured}$ - methane concentration measured

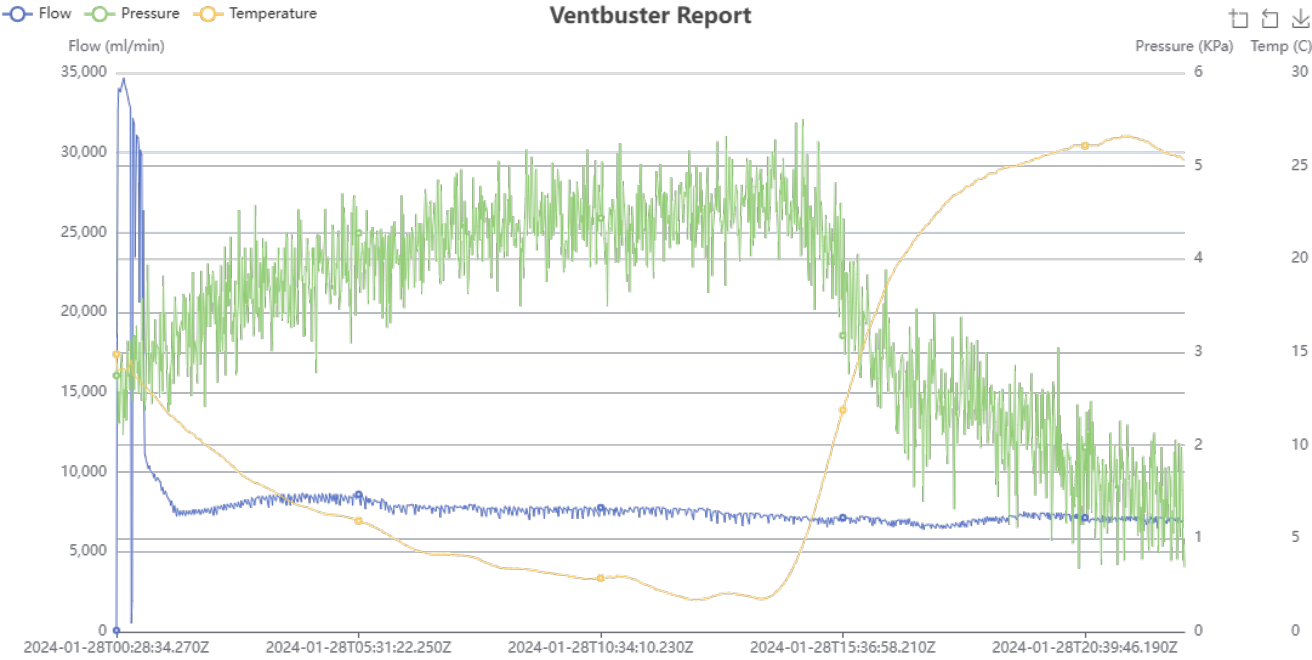
p - 0.0423 methane density at 1 atm; 60° F

0.454 - Conversion from lb to kg

8760 - Conversion from hr to yr

Flow/Pressure/Temperature Timeseries

Ventbuster Report



Site Photos



20069G		STEVENS B7 #001 PRE PLUG		STEVENS B7 #001 PRE PLUG	
Sample Point Code		Sample Point Name		Sample Point Location	
Laboratory Services		2024084093		BAG	
Source Laboratory		Lab File No		Container Identity	
USA		USA		CES - Spot	
District		Area Name		Sampler	
Jan 27, 2024 17:45		Jan 1, 2024		Feb 1, 2024 15:09	
Date Sampled		Date Effective		Date Received	
Feb 5, 2024					
Date Reported					
Luis					
Ambient Temp (°F)		Flow Rate (Mcf)		Analyst	
				Press PSI @ Temp °F	
				Source Conditions	
Well Done Foundation				NG	
Operator				Lab Source Description	

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	14.2020	14.2023	
CO2 (CO2)	0.0210	0.0214	
Methane (C1)	70.8680	70.86664	
Ethane (C2)	8.7470	8.74709	2.3390
Propane (C3)	3.8480	3.84807	1.0600
I-Butane (IC4)	0.4600	0.45976	0.1500
N-Butane (NC4)	1.1230	1.1233	0.3540
I-Pentane (IC5)	0.2430	0.24325	0.0890
N-Pentane (NC5)	0.2310	0.23123	0.0840
Hexanes Plus (C6+)	0.2570	0.25695	0.1110
TOTAL	100.0000	100.0000	4.1870

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:	Jan 29, 2024

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
1,054.8	1,037.7	1,057.2	1,040.1
Calculated Total Sample Properties			
GPA2145-16 *Calculated at Contract Conditions			
Relative Density Real		Relative Density Ideal	
0.7332		0.7315	
Molecular Weight			
21.1852			
C6+ Group Properties			
Assumed Composition			
C6 - 60.000%	C7 - 30.000%	C8 - 10.000%	
Field H2S			
0 PPM			

PROTREND STATUS:

Passed By Validator on Feb 6, 2024

DATA SOURCE:

Imported

PASSED BY VALIDATOR REASON:

First sample taken @ this point, composition looks reasonable

VALIDATOR:

Ashley Russell

VALIDATOR COMMENTS:

NITROGEN AT 14%

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 522466

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Operator: Well Done New Mexico LLC (OPG Vendor) 333 Main St Shelby, MT 59474	OGRID: 333567
	Action Number: 522466
	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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QUESTIONS

Prerequisites	
[OGRID] Well Operator	[142624] ROCA PRODUCTION INC.
[API] Well Name and Number	[30-025-10663] STEVENS B 7 #001
Well Status	Reclamation Fund Approved

Monitoring Event Information	
Please answer all the questions in this group.	
Reason For Filing	Pre-Plug Methane Monitoring
Date of monitoring	01/28/2024
Latitude	32.3234673
Longitude	-103.19664

Monitoring Event Details	
Please answer all the questions in this group.	
Flow rate in cubic meters per day (m³/day)	11.76
Test duration in hours (hr)	22.2
Average flow temperature in degrees Celsius (°C)	11.2
Average gauge flow pressure in kilopascals (kPag)	3.5
Methane concentration in part per million (ppm)	708,680
Methane emission rate in grams per hour (g/hr)	329.76
Testing Method	Steady State

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