

Pre-Plugging Methane Emissions Monitoring Report

Jennifer Chaveroo SA Unit 25

Prepared by TS-Nano, Inc.
For NM Energy, Minerals and Natural Resources Department, Oil Conservation Division PO# 52100-0000078682

Well information

ID #: 30-041-10655 Coordinates: 33.68183, -103.4948
Name: Jennifer Chaveroo SA Unit 25 Surface Location: Roosevelt County





Measurement notes

Device used: Ventbuster device VB100-0138

Test operator: Jr Molina

Gas sample taken from well: 1/13/25 13:00 Ventbuster connected to well: 1/13/25 14:34

Continuous monitoring of well flowrate, pressure,

and temperature

Hourly measurement of weather data

Ventbuster disconnected from well: 1/14/25 14:02

Notes: No remarkable observations

Gas sample delivered to laboratory: 1/20/25

Laboratory Name/Location: Laboratory Services / Hobbs, NM



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Measurement data

Wellhead pressure (kPa gage)*: less than detection limit (<10 kPa)

Average flow rate (Sm³/d): 0.001

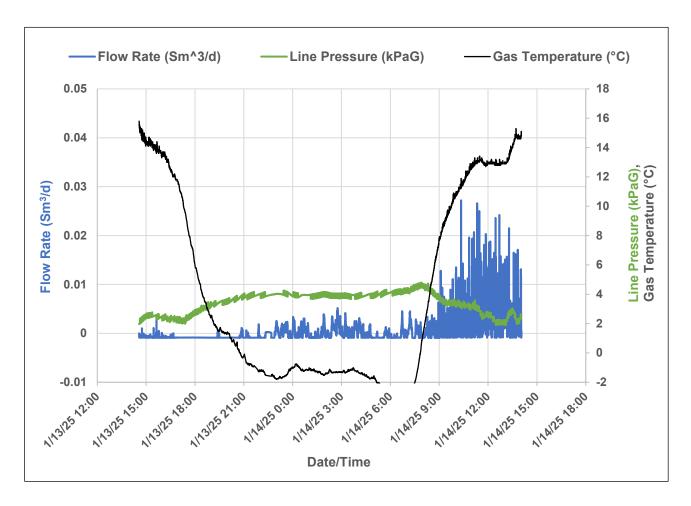
Average methane mass flow rate (g/hr)

using methane % from lab analysis: 0.00

Methane mass flowrate calculation

Variable	Unit	Value
Pressure (P)	kPaA	Std pressure, 101.3 KPaA
Volumetric flow (V)	Std m^3/day	Measured from the Unit
% methane	% (methane/gas)	Measured from lab sample
Temperature (T)	Kelvin	Std temperature, 288.13 K
Gas constant (R)	m^3 Pa/(K mol)	8.3144626
Molecular weight of methane (Mw)	g/mole	16.04

$$Mass\,flow\,of\,\,methane\,\, \left(\frac{g}{hr}\right) = \frac{\%, methane}{100\%} *V*P*\frac{Mw}{R\,T}*\frac{1000}{24}$$



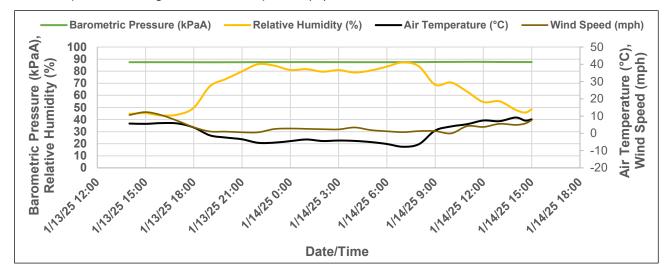


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Weather data

Precipitation during measurement period (in): 0.000



	Air	Relative	Barometric	Wind
	Temperature	Humidity	Pressure	Speed
Date and Time	(°C)	(%)	(kPaA)	(mph)
1/13/2025 14:00	5.7	44.7	87.47	10.6
1/13/2025 15:00	5.5	45.3	87.47	12.3
1/13/2025 16:00	5.9	43.3	87.47	10.5
1/13/2025 17:00	5.7	44.1	87.47	7.2
1/13/2025 18:00	3.4	49.8	87.44	3.5
1/13/2025 19:00	-1.2	67.5	87.40	1.1
1/13/2025 20:00	-2.4	73.6	87.44	1.0
1/13/2025 21:00	-3.4	79.9	87.47	0.6
1/13/2025 22:00	- 5.5	85.8	87.50	0.6
1/13/2025 23:00	-5.4	84.6	87.50	2.5
1/14/2025 0:00	-4.5	81.0	87.54	2.8
1/14/2025 1:00	-3.6	81.7	87.54	2.6
1/14/2025 2:00	-4.4	79.6	87.50	2.4
1/14/2025 3:00	-4.2	80.9	87.50	2.3
1/14/2025 4:00	-4.4	78.9	87.47	3.4
1/14/2025 5:00	-5.1	80.6	87.47	1.9
1/14/2025 6:00	-6.2	83.8	87.47	1.2
1/14/2025 7:00	-7.8	87.3	87.50	0.7
1/14/2025 8:00	-6.2	83.9	87.50	1.3
1/14/2025 9:00	1.6	68.8	87.64	1.3
1/14/2025 10:00	4.0	70.6	87.71	0.0
1/14/2025 11:00	5.3	63.0	87.74	4.2
1/14/2025 12:00	7.4	54.5	87.74	3.7

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



23363G	jennifer chaveroo sa unit #25	jennifer chaveroo sa unit #25			
Sample Point Code	Sample Point Name	Sample Point Location			

Laborato	y Services	2025104905	bag		JR Molina - Spot						
Source L	aboratory	Lab File No	Lab File No Container Identity			Lab File No Container Identity					
USA		USA	USA		New Mexico						
District		Area Name	Facility Name								
Jan 13,	2025	Jan 1, 2025		Jan 20, 2025 14:46	Jan 21, 2025						
Date Sampled		Date Effective		Date Received	Date Reported						
		System Administrator									
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst		@ Temp °F Conditions							
TS-N	ano				NG						
Opera	ator	_			Lab Source Description						

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	98.6880	98.688	
CO2 (CO2)	0.0410	0.041	
Methane (C1)	0.0000	0	
Ethane (C2)	0.0000	0	0.0000
Propane (C3)	0.0110	0.011	0.0030
I-Butane (IC4)	0.0000	0	0.0000
N-Butane (NC4)	0.0000	0	0.0000
I-Pentane (IC5)	0.0000	0	0.0000
N-Pentane (NC5)	0.0000	0	0.0000
Hexanes Plus (C6+)	1.2600	1.26	0.5470
TOTAL	100.0000	100.0000	0.5500

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:	Sep 9, 2024			

Gross Heating Values (Real, BTU/ft³)							
14.696 PSI @ 60.00 °F 14.73 PSI @ 60.00 °F							
Dry	Saturated	Dry	Saturated				
65.1	65.0	65.3	65.2				
	Calculated Total Sample Properties						
GPA2145-16 *Calculated at Contract Conditions							
Relative Density Real Relative Density Ideal							

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

0.9958

PROTREND STATUS: DATA SOURCE: Passed By Validator on Jan 21, 2025 Imported PASSED BY VALIDATOR REASON:

Close enough to be considered reasonable. VALIDATOR:

0.9958

Molecular Weight 28.8429

Ashley Russell **VALIDATOR COMMENTS:**

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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 424748

DEFINITIONS

Operator:	OGRID:				
RIDGEWAY ARIZONA OIL CORP.	164557				
575 N. Dairy Ashford	Action Number:				
Houston, TX 77079	424748				
	Action Type:				
	[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.

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QUESTIONS

Action 424748

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Operator:	OGRID:
RIDGEWAY ARIZONA OIL CORP.	164557
575 N. Dairy Ashford	Action Number:
Houston, TX 77079	424748
	Action Type:
	[UF-OMA] Pre-Plug Methane Monitoring (UF-OMA-MMA)

QUESTIONS

Prerequisites							
[OGRID] Well Operator	[164557] RIDGEWAY ARIZONA OIL CORP.						
[API] Well Name and Number	[30-041-10655] JENNIFER CHAVEROO SA UNIT #025						
Well Status	Active						

Monitoring Event Information	
Please answer all the questions in this group.	
Reason For Filing	Pre-Plug Methane Monitoring
Date of monitoring	01/13/2025
Latitude	33.68183
Longitude	-103.49480

Monitoring Event Details		
Please answer all the questions in this group.		
Flow rate in cubic meters per day (m³/day)	0.00	
Test duration in hours (hr)	23.5	
Average flow temperature in degrees Celsius (°C)	4.3	
Average gauge flow pressure in kilopascals (kPag)	3.4	
Methane concentration in part per million (ppm)	0	
Methane emission rate in grams per hour (g/hr)	0.00	
Testing Method	Steady State	

Monitoring Contractor	
Please answer all the questions in this group.	
Name of monitoring contractor	TS-Nano, Inc.