



Pre-Plugging Methane Emissions Monitoring Report

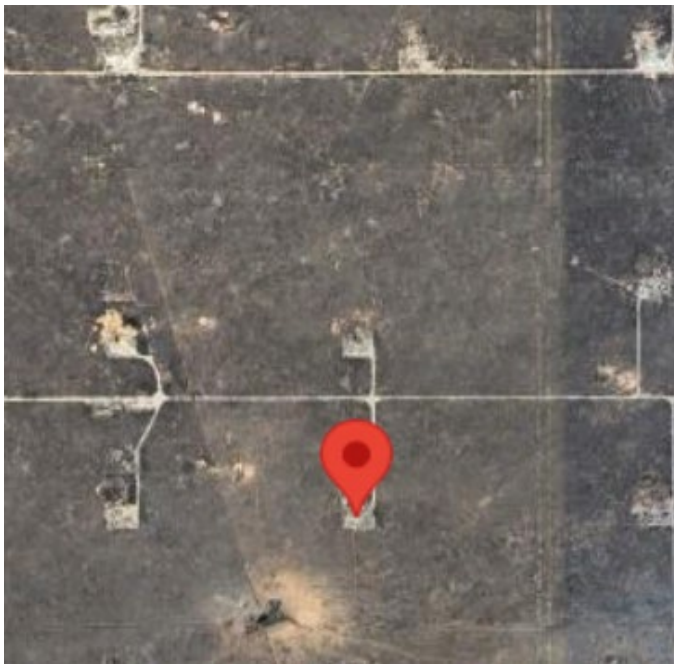
Jennifer Chaveroo SA Unit 12

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

Well information

ID #: 30-041-10612
Name: Jennifer Chaveroo SA Unit 12

Coordinates: 33.68815, -103.49922
Surface Location: Roosevelt County



Measurement notes

Device used: Ventbuster device VB100-0139

Test operator: JR Molina

Gas sample taken from well: 12/3/24 12:15

Ventbuster connected to well: 12/3/24 13:01

Continuous monitoring of well flowrate, pressure, and temperature

Hourly measurement of weather data

Ventbuster disconnected from well: 12/4/24 14:06

Notes: all valves not in line with flowmeter were shut and no leakage was apparent.

Gas sample delivered to laboratory: 12/6/24

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): 0.014

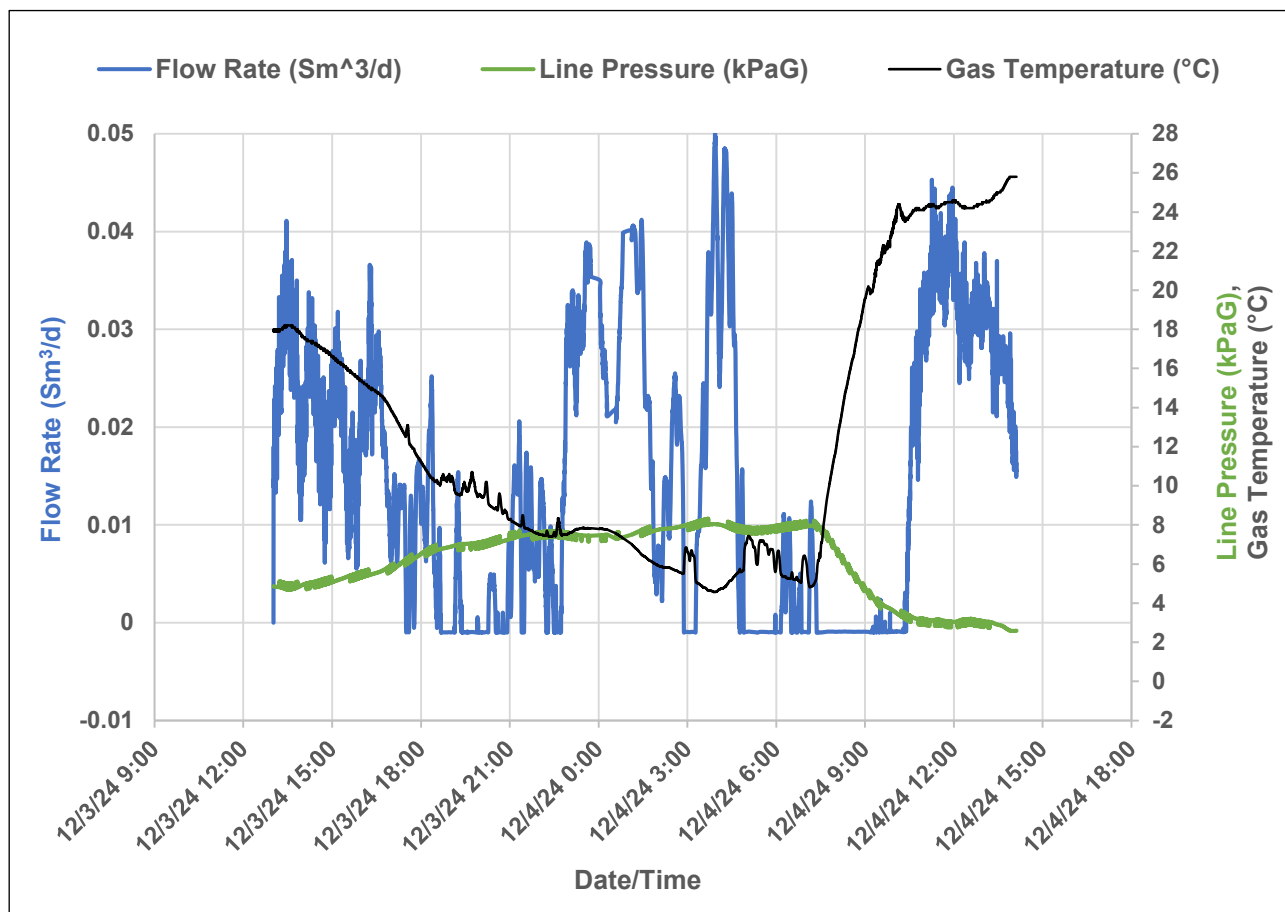
Average methane mass flow rate (g/hr)

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

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





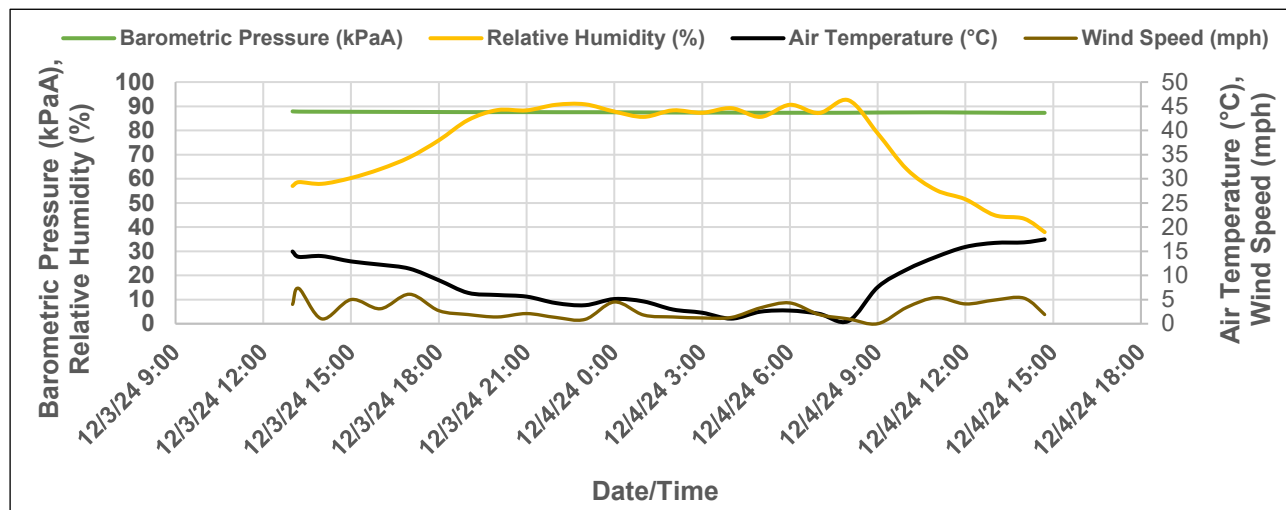
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Weather data

Precipitation during measurement period (in): 0.000



Date and Time	Air Temperature (°C)	Relative Humidity (%)	Barometric Pressure (kPaA)	Wind Speed (mph)
12/3/2024 13:00	14.9	57.0	87.88	4.0
12/3/2024 13:12	13.8	58.6	87.78	7.3
12/3/2024 14:00	14.0	57.9	87.74	1.0
12/3/2024 15:00	12.9	60.3	87.71	5.0
12/3/2024 16:00	12.2	64.0	87.67	3.1
12/3/2024 17:00	11.4	68.9	87.64	6.1
12/3/2024 18:00	9.0	75.9	87.61	2.7
12/3/2024 19:00	6.4	84.3	87.57	1.9
12/3/2024 20:00	5.9	88.4	87.57	1.4
12/3/2024 21:00	5.6	88.3	87.57	2.1
12/3/2024 22:00	4.3	90.6	87.54	1.3
12/3/2024 23:00	3.8	90.8	87.54	0.9
12/4/2024 0:00	5.1	87.8	87.50	4.5
12/4/2024 1:00	4.6	85.6	87.44	1.8
12/4/2024 2:00	2.9	88.3	87.40	1.4
12/4/2024 3:00	2.3	87.3	87.37	1.2
12/4/2024 4:00	1.1	89.2	87.37	1.3
12/4/2024 5:00	2.5	85.6	87.30	3.3
12/4/2024 6:00	2.7	90.6	87.30	4.3
12/4/2024 7:00	2.1	87.2	87.30	1.9
12/4/2024 8:00	0.6	92.5	87.30	1.0
12/4/2024 9:00	7.6	78.8	87.40	0.0
12/4/2024 10:00	11.2	63.9	87.44	3.4



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575.397.3713 2609 W Marland Hobbs NM 88240

C6+ Gas Analysis Report

23024G	Jennifer Chaveroo SA Unit #12	Jennifer Chaveroo SA Unit #12	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2024102514	BAG	JR Molina - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Dec 2, 2024	Dec 1, 2024	Dec 6, 2024 11:04	Dec 9, 2024
Date Sampled	Date Effective	Date Received	Date Reported
System Administrator			
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	Press PSI @ Temp °F
			Source Conditions
TS-Nano			NG
Operator	Lab Source Description		

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	99.9560	99.956	
CO2 (CO2)	0.0440	0.044	
Methane (C1)	0.0000	0	
Ethane (C2)	0.0000	0	0.0000
Propane (C3)	0.0000	0	0.0000
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+)	0.0000	0	0.0000
TOTAL	100.0000	100.0000	0.0000

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
0	0.9	0	0.9

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
0.9674	0.9675
Molecular Weight	
28.0204	

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

PROTREND STATUS: Passed By Validator on Dec 10, 2024
DATA SOURCE: Imported
PASSED BY VALIDATOR REASON: First sample taken @ this point, composition looks reasonable
VALIDATOR: Ashley Russell
VALIDATOR COMMENTS: OK

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

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oecd/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 418672

DEFINITIONS

Operator: RIDGEWAY ARIZONA OIL CORP. 575 N. Dairy Ashford Houston, TX 77079	OGRID: 164557
	Action Number: 418672
	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 418672

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	Action Number: 418672
	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	[30-041-10612] JENNIFER CHAVEROO SA UNIT #012
Well Status	Active

Monitoring Event Information	
<i>Please answer all the questions in this group.</i>	
Reason For Filing	Pre-Plug Methane Monitoring
Date of monitoring	12/03/2024
Latitude	33.68815
Longitude	-103.49920

Monitoring Event Details	
<i>Please answer all the questions in this group.</i>	
Flow rate in cubic meters per day (m ³ /day)	0.01
Test duration in hours (hr)	25.1
Average flow temperature in degrees Celsius (°C)	13.0
Average gauge flow pressure in kilopascals (kPag)	6.1
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	
<i>Please answer all the questions in this group.</i>	
Name of monitoring contractor	TS-Nano, Inc.