



Pre-Plugging Methane Emissions Monitoring Report

Jennifer Chaxeroo SA Unit 005F

Prepared by TS-Nano, Inc.

For NM Energy, Minerals and Natural Resources Department, Oil Conservation Division

PO# 52100-0000078682

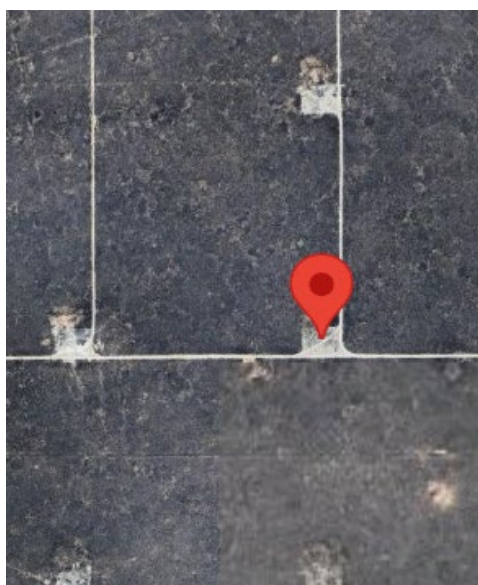
Well information

ID #: 30-041-10667

Coordinates: 33.69551, -103.48943

Name: Jennifer Chaxeroo SA Unit 005F

Surface Location: Roosevelt County



Measurement notes

Device used: Ventbuster device VB100-0138

Test operator: Jay Kitowski

Gas sample taken from well: 11/25/24 13:00

Ventbuster connected to well: 11/25/24 13:41

Continuous monitoring of well flowrate, pressure,
and temperature

Hourly measurement of weather data

Ventbuster disconnected from well: 11/26/24 12:58

Notes: No remarkable observations

Gas sample delivered to laboratory: 11/27/24

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 (Sm^3/d): 0.005

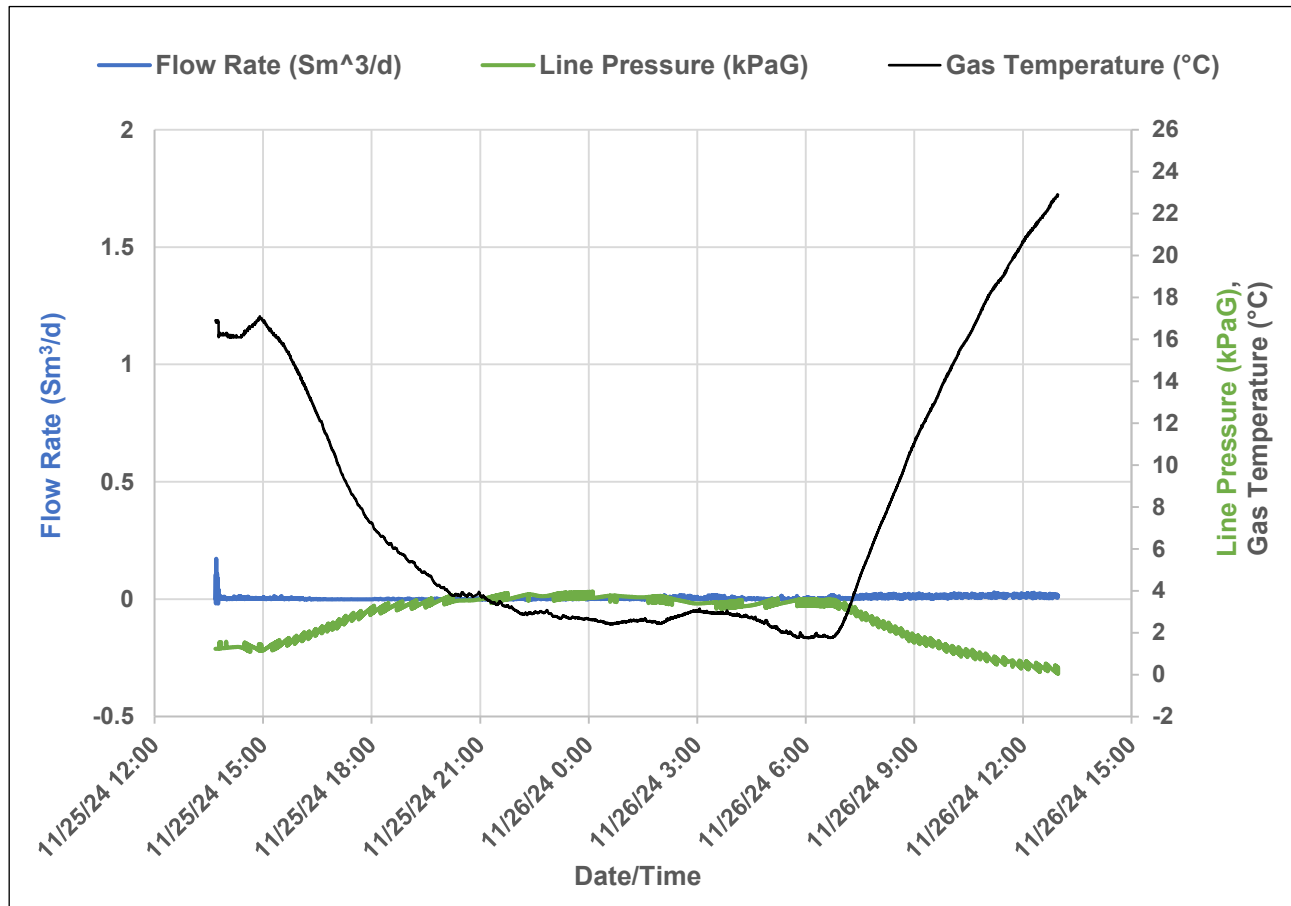
Average methane mass flow rate (g/hr)

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)	$\text{m}^3 \text{ Pa}/(\text{K mol})$	8.3144626
Molecular weight of methane (Mw)	g/mole	16.04

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



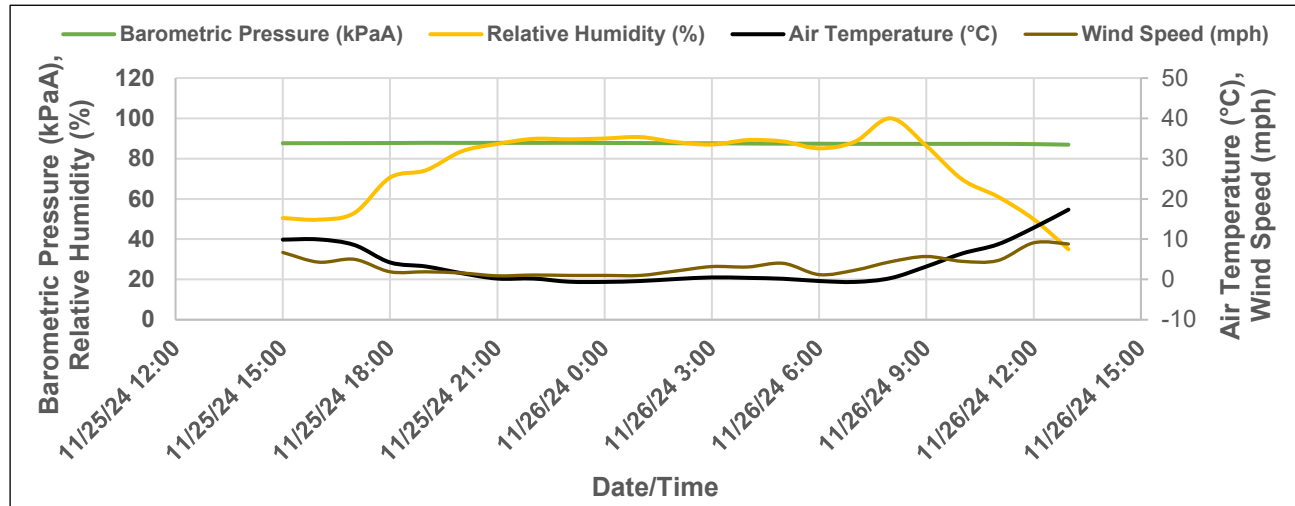


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Weather data

Precipitation during measurement period (in): 0.000



Date and Time	Air Temperature (°C)	Relative Humidity (%)	Barometric Pressure (kPaA)	Wind Speed (mph)
11/25/2024 15:00	9.9	50.5	87.64	6.7
11/25/2024 16:00	9.9	49.7	87.67	4.3
11/25/2024 17:00	8.6	53.0	87.71	5.0
11/25/2024 18:00	4.2	70.6	87.74	1.9
11/25/2024 19:00	3.2	74.2	87.84	1.9
11/25/2024 20:00	1.6	83.6	87.81	1.6
11/25/2024 21:00	0.2	87.3	87.84	0.9
11/25/2024 22:00	0.2	89.8	87.81	1.1
11/25/2024 23:00	-0.6	89.6	87.84	1.0
11/26/2024 0:00	-0.6	90.0	87.78	1.0
11/26/2024 1:00	-0.4	90.7	87.74	1.0
11/26/2024 2:00	0.1	88.2	87.64	2.1
11/26/2024 3:00	0.5	87.0	87.61	3.2
11/26/2024 4:00	0.4	89.2	87.50	3.1
11/26/2024 5:00	0.2	88.5	87.44	4.0
11/26/2024 6:00	-0.4	85.1	87.40	1.2
11/26/2024 7:00	-0.6	88.4	87.33	2.3
11/26/2024 8:00	0.3	100.0	87.33	4.4
11/26/2024 9:00	3.2	86.3	87.33	5.7
11/26/2024 10:00	6.4	69.7	87.33	4.5
11/26/2024 11:00	8.7	61.1	87.33	4.7
11/26/2024 12:00	12.8	49.9	87.20	9.1
11/26/2024 12:58	17.3	35.0	86.93	8.8



22948G

Sample Point Code

30-041-10667

Sample Point Name

Jennifer Chaverro #005F

Sample Point Location

Laboratory Services

Source Laboratory

2024102064

Lab File No

BAG

Container Identity

Jay Kitowski - Spot

Sampler

USA

District

USA

Area Name

USA

Field Name

New Mexico

Facility Name

Nov 27, 2024

Date Sampled

Nov 1, 2024

Date Effective

Nov 27, 2024 09:08

Date Received

Dec 2, 2024

Date Reported

Luis

Ambient Temp (°F)

Flow Rate (Mcf)

Analyst

Press PSI @ Temp °F
Source Conditions

TS-Nano

Operator

NG

Lab Source Description

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	99.7740	99.729	
CO2 (CO2)	0.0540	0.05402	
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)	0.0240	0.02365	0.0080
I-Pentane (IC5)	0.0360	0.03604	0.0130
N-Pentane (NC5)	0.0000	0	0.0000
Hexanes Plus (C6+)	0.1120	0.11224	0.0490
TOTAL	100.0000	99.9549	0.0700

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 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
8.0	8.7	8.0	8.7

Calculated Total Sample Properties

GPA2145-16 *Calculated at Contract Conditions

Relative Density Real	Relative Density Ideal
0.9707	0.9708
Molecular Weight	
28.1182	

C6+ Group Properties

Assumed Composition

C6 - 60.000% C7 - 30.000% C8 - 10.000%

PROTREND STATUS:

Passed By Validator on Dec 3, 2024

DATA SOURCE:

Imported

PASSED BY VALIDATOR REASON:

First sample taken @ this point, composition looks reasonable

VALIDATOR:

Ashley Russell

VALIDATOR COMMENTS:

OK



575.397.3713 2609 W Marland Hobbs, NM 88240

Relinquished by Jay Kitowski 		Date: 11.27.24 Time: 10:00 am		Received by:		Phone Result: ☐ Yes ☐ No Add'l Phone:	
Relinquished by		Date:		Received by:		Email Result: ☐ Yes ☐ No	
Deliver by: (circle one)		Sample Condition		Checked by		REMARKS:	
Cooler Bus Other:		Cool Intact		(Initials)			
Yes ☐ No ☐		Yes ☐ No ☐					

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 418559

DEFINITIONS

Operator: RIDGEWAY ARIZONA OIL CORP. 575 N. Dairy Ashford Houston, TX 77079	OGRID: 164557
	Action Number: 418559
	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 418559

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QUESTIONS

Prerequisites	
[OGRID] Well Operator	[164557] RIDGEWAY ARIZONA OIL CORP.
[API] Well Name and Number	[30-041-10667] JENNIFER CHAVEROO SA UNIT #005F
Well Status	Active

Monitoring Event Information	
Please answer all the questions in this group.	
Reason For Filing	Pre-Plug Methane Monitoring
Date of monitoring	11/25/2024
Latitude	33.69551
Longitude	-103.48900

Monitoring Event Details	
Please answer all the questions in this group.	
Flow rate in cubic meters per day (m³/day)	0.01
Test duration in hours (hr)	23.3
Average flow temperature in degrees Celsius (°C)	7.8
Average gauge flow pressure in kilopascals (kPag)	2.7
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.