



Pre-Plugging Methane Emissions Monitoring Report

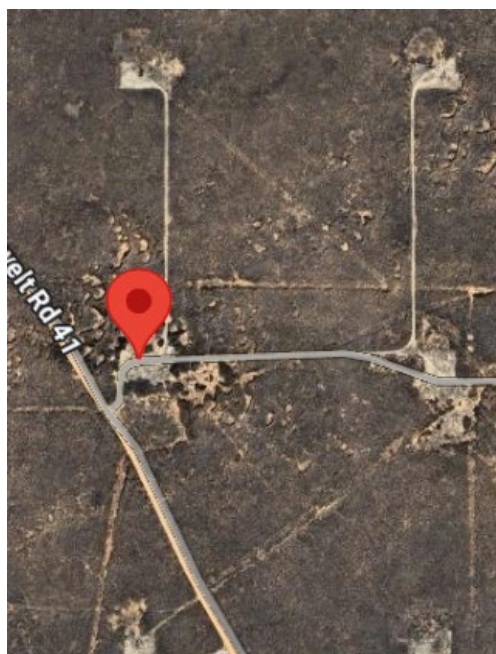
Haley Chaveroo 15

Prepared by TS-Nano, Inc.
For NM Energy, Minerals and Natural Resources Department, Oil Conservation Division
PO# 52100-0000079762

Well information

ID #: 30-041-10170
Name: Haley Chaveroo 15

Coordinates: 33.66586, -103.57732
Surface Location: Roosevelt County



Measurement notes

Device used: Ventbuster device VB100-0138

Test operator: Dwayne Smith

Gas sample taken from well: 4/17/25 11:00

Ventbuster connected to well: 5/15/25 10:37

Continuous monitoring of well flowrate, pressure,
and temperature

Hourly measurement of weather data

Ventbuster disconnected from well: 5/16/25 7:14

Notes: No significant wellhead pressure.

Gas sample delivered to laboratory: 4/22/25

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 (Sm^3/d): 0.000

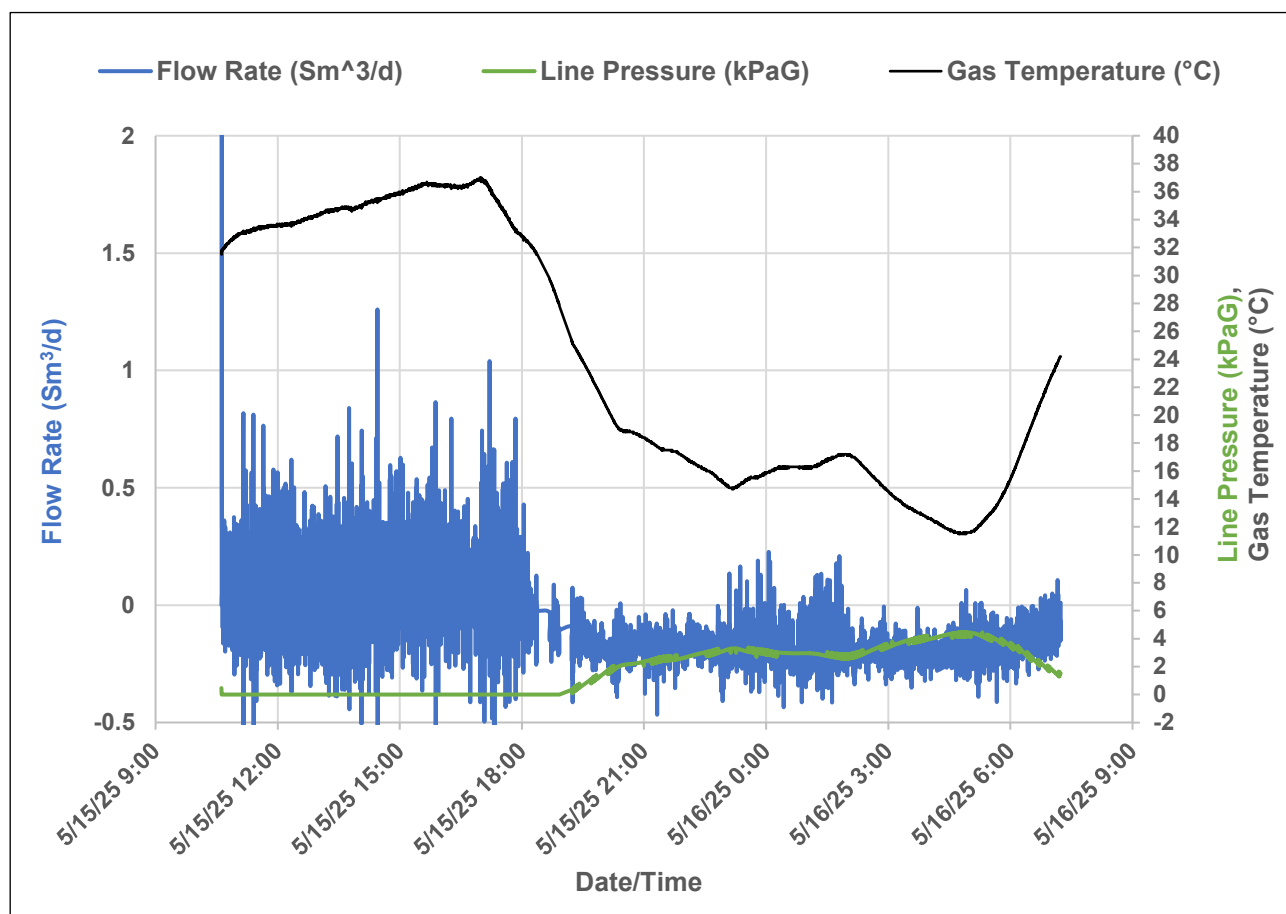
Average methane mass flow rate (g/hr)

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

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



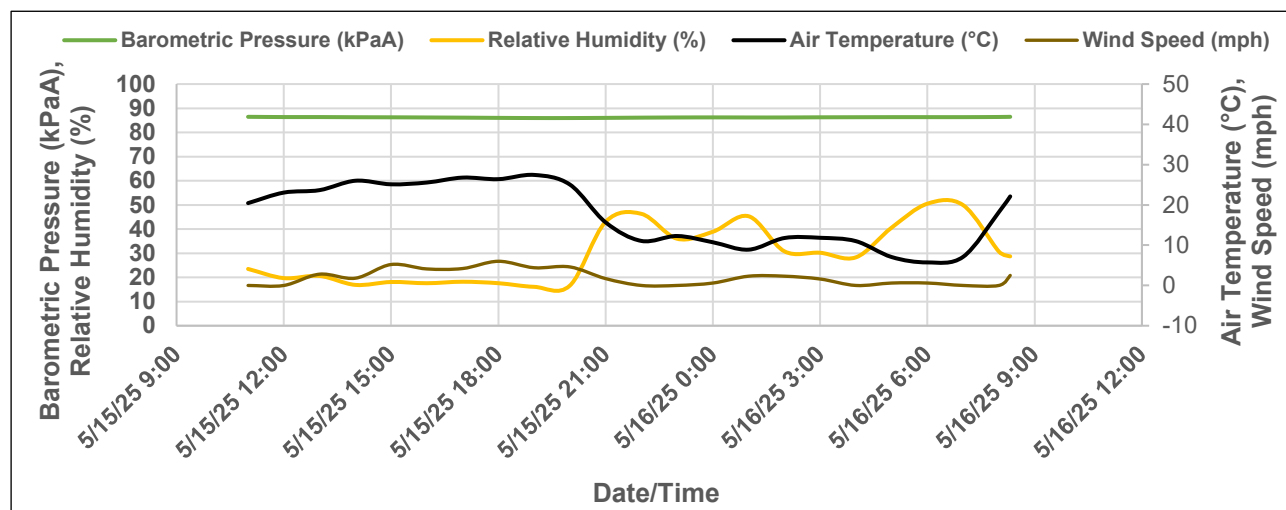
**TS-NANO**

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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)
5/15/2025 11:00	20.4	23.5	86.45	0.0
5/15/2025 12:00	23.1	19.7	86.35	0.0
5/15/2025 13:00	23.7	20.6	86.35	2.8
5/15/2025 14:00	26.0	16.9	86.29	1.8
5/15/2025 15:00	25.1	18.1	86.25	5.2
5/15/2025 16:00	25.6	17.6	86.18	4.1
5/15/2025 17:00	26.8	18.2	86.12	4.2
5/15/2025 18:00	26.4	17.6	86.01	6.0
5/15/2025 19:00	27.4	16.1	85.95	4.4
5/15/2025 20:00	25.1	16.6	85.95	4.6
5/15/2025 21:00	15.7	43.0	86.01	1.7
5/15/2025 22:00	11.1	46.3	86.12	0.0
5/15/2025 23:00	12.3	36.0	86.18	0.0
5/16/2025 0:00	10.7	38.9	86.22	0.6
5/16/2025 1:00	8.9	45.3	86.18	2.3
5/16/2025 2:00	11.8	30.8	86.18	2.3
5/16/2025 3:00	11.8	30.2	86.25	1.6
5/16/2025 4:00	11.0	28.3	86.29	0.0
5/16/2025 5:00	7.1	40.6	86.32	0.6
5/16/2025 6:00	5.7	50.5	86.32	0.6
5/16/2025 7:00	7.1	49.9	86.32	0.0
5/16/2025 8:00	18.2	30.7	86.39	0.0
5/16/2025 8:19	22.1	28.7	86.45	2.5



24241G	30-041-10170	HALEY CHAVEROO #15	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2025110365	BAG	JAY KITOWSKI - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Apr 17, 2025	Apr 1, 2025	Apr 22, 2025 10:04	Apr 28, 2025
Date Sampled	Date Effective	Date Received	Date Reported
Admin			
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)	70.1740	70.1729	
CO2 (CO2)	0.0870	0.08729	
Methane (C1)	27.8780	27.8784	
Ethane (C2)	1.3530	1.35281	0.3620
Propane (C3)	0.2460	0.24648	0.0680
I-Butane (IC4)	0.0000	0	0.0000
N-Butane (NC4)	0.0510	0.05063	0.0160
I-Pentane (IC5)	0.0000	0	0.0000
N-Pentane (NC5)	0.0000	0	0.0000
Hexanes Plus (C6+)	0.2110	0.21147	0.0920
TOTAL	100.0000	100.0000	0.5380

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:	Mar 14, 2025

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
325.3	320.7	326.1	321.4

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
0.8602	0.8599
Molecular Weight	
24.9103	

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

Field H2S
0 PPM

PROTREND STATUS:

Passed By Validator on Apr 29, 2025

DATA SOURCE:

Imported

PASSED BY VALIDATOR REASON:

First sample taken @ this point, composition looks reasonable

VALIDATOR:

Ashley Russell

VALIDATOR COMMENTS:

OK

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

www.permianls.com

575.397.3713 2609 W Marland Hobbs, NM 88240

Company Name: TS- Nano, Inc.										BILL TO			Analysis Request																		
Project Manager: John Stormont										PO #:																					
Address: 5901 Indian School Rd. NE										Company: TS- Nano, Inc.																					
City: Albuquerque				State: NM			Zip: 87110			Attn: Jay Kitowski																					
Phone #: 505-907-4095				Email: jstormont@ts-nano.com						Address: Same																					
Project #:				Project Owner:						City:																					
Project Name:				State:						Zip:																					
Project Location: RIDGEWAY ARIZONA OIL CORPORATION										Phone #: 505-464-4836																					
Sampler Name:										Email: jkitowski@ts-nano.com																					
Lab I.D.	Sample I.D.	(S)POT or (C)OMP	# Container	Matrix						Preserve			Sampling		C-6+ RGA	C-10+ Ext															
				Groundwater	Wastewater	GAS	Oil	Solid	Other	Acid/Base	Ice/Cool	Other	Date	Time																	
30-041-10174	HALEY CHAVEROO 001	S	1 TEDLAR			X							4.21.2025	7:00 AM	X																
30-041-10172	HALEY CHAVEROO 002	S	1 TEDLAR			X							4.21.2025	7:00 AM	X																
30-041-10137	HALEY CHAVEROO #14	S	1 TEDLAR			X							4.21.2025	7:00 AM	X																
30-041-10170	HALEY CHAVEROO #15	S	1 TEDLAR			X							4.21.2025	7:00 AM	X																

Relinquished by Jay Kitowski		Date: 04/21/25		Received by:		Phone Result: ☐ Yes ☐ No Add'l Phone:	
<i>Jay Kitowski</i>		Time: 7 am				Email Result: ☐ Yes ☐ No	
Relinquished by		Date:		Received by:		REMARKS:	
		Time:					
Deliver by: (circle one)				Sample Condition		Checked by	
				Cool Intact		(Initials)	
Sampler - UPS - Bus - other:				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 466106

DEFINITIONS

Operator: RIDGEWAY ARIZONA OIL CORP. 575 N. Dairy Ashford Houston, TX 77079	OGRID: 164557
	Action Number: 466106
	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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Santa Fe, NM 87505

QUESTIONS

Action 466106

QUESTIONS

Operator: RIDGEWAY ARIZONA OIL CORP. 575 N. Dairy Ashford Houston, TX 77079	OGRID: 164557
	Action Number: 466106
	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	[30-041-10170] HALEY CHAVEROO SA UNIT #015
Well Status	Active

Monitoring Event Information*Please answer all the questions in this group.*

Reason For Filing	Pre-Plug Methane Monitoring
Date of monitoring	05/15/2025
Latitude	33.66586
Longitude	-103.57700

Monitoring Event Details*Please answer all the questions in this group.*

Flow rate in cubic meters per day (m ³ /day)	0.00
Test duration in hours (hr)	20.6
Average flow temperature in degrees Celsius (°C)	23.7
Average gauge flow pressure in kilopascals (kPag)	1.8
Methane concentration in part per million (ppm)	278,784
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.
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