

Pre-Plugging Methane Emissions Monitoring Report

Haley Chaveroo 17

Prepared by TS-Nano, Inc.
For NM Energy, Minerals and Natural Resources Department, Oil Conservation Division PO# 52100-000079762

Well information

ID #: 30-041-10171 *Name:* Haley Chaveroo 17





Coordinates: 33.66219, -103.5731

Measurement notes

Device used: Ventbuster device VB100-0138

Test operator: Dwayne Smith

Gas sample taken from well: 5/22/25 9:30 Ventbuster connected to well: 5/27/25 8:48

Continuous monitoring of well flowrate, pressure,

and temperature

Hourly measurement of weather data

Ventbuster disconnected from well: 5/28/25 7:25

Notes: No remarkable observations

Gas sample delivered to laboratory: 5/30/25

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): 0.203

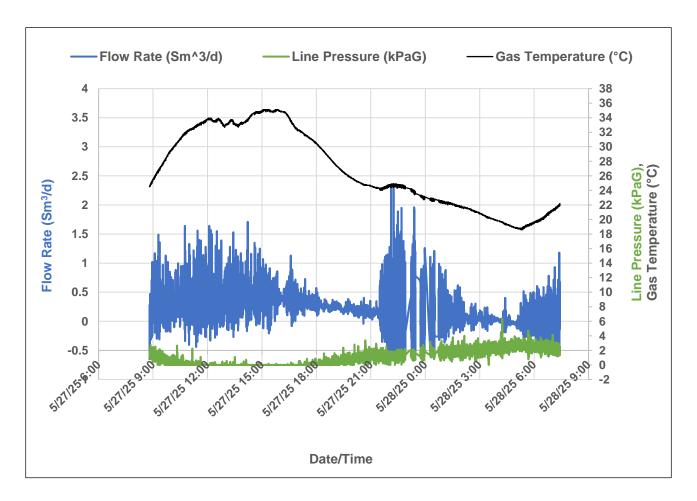
Average methane mass flow rate (g/hr)

using methane % from lab analysis: 0.02

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
$$\left(\frac{g}{hr}\right) = \frac{\%, methane}{100\%} * V * P * \frac{Mw}{RT} * \frac{1000}{24}$$



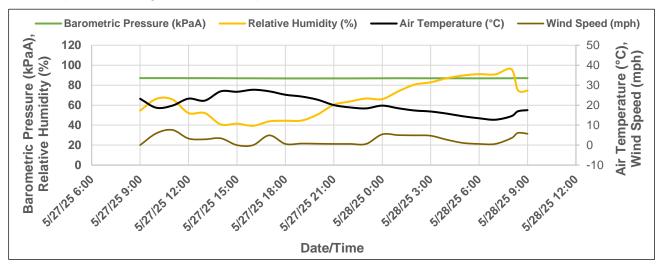


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Weather data

Precipitation during measurement period (in): 0.000



	Air	Relative	Barometric	Wind
	Temperature	Humidity	Pressure	Speed
Date and Time	(°C)	(%)	(kPaA)	(mph)
5/27/2025 9:00	23.2	54.5	87.10	0.0
5/27/2025 10:00	18.7	66.3	87.10	5.9
5/27/2025 11:00	19.8	65.7	87.10	7.6
5/27/2025 12:00	23.3	52.1	87.06	3.3
5/27/2025 13:00	22.3	52.1	87.06	2.9
5/27/2025 14:00	26.9	40.7	87.03	3.4
5/27/2025 15:00	26.7	41.5	86.96	0.0
5/27/2025 16:00	27.7	39.4	86.93	0.0
5/27/2025 17:00	26.9	43.8	86.86	4.9
5/27/2025 18:00	25.2	44.4	86.79	0.6
5/27/2025 19:00	24.3	44.6	86.79	8.0
5/27/2025 20:00	22.7	50.7	86.79	0.7
5/27/2025 21:00	20.1	60.4	86.83	0.6
5/27/2025 22:00	18.9	63.7	86.83	0.6
5/27/2025 23:00	18.4	66.7	86.89	0.6
5/28/2025 0:00	19.8	66.1	86.93	5.4
5/28/2025 1:00	18.4	73.9	87.00	5.0
5/28/2025 2:00	17.3	80.6	86.96	4.9
5/28/2025 3:00	16.8	82.9	86.96	4.7
5/28/2025 4:00	15.8	87.0	86.96	2.7
5/28/2025 5:00	14.4	89.7	86.93	1.1
5/28/2025 6:00	13.4	91.1	86.89	0.6
5/28/2025 7:00	12.7	90.8	86.93	0.6





 25040G
 30-041-10171
 HALEY CHAVEROO #17

 Sample Point Code
 Sample Point Name
 Sample Point Location

Laborator	y Services	2025113068	BAG	D	DWAYNE SMITH - Spot					
Source L	aboratory	Lab File No	Container Ide	ntity	Sampler					
USA		USA	USA		New Mexico					
District		Area Name	Field Name		Facility Name					
May 22,	2025	May 1, 2025		May 30, 2025 14:34	Jun 2, 2025					
Date San	npled	Date Effective		Date Received	Date Reported					
		Admin								
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)	92.3490	92.3496	
CO2 (CO2)	0.0000	0	
Methane (C1)	0.4150	0.41458	
Ethane (C2)	1.4710	1.47095	0.3930
Propane (C3)	2.9980	2.99832	0.8260
I-Butane (IC4)	0.6080	0.60778	0.1990
N-Butane (NC4)	1.2810	1.28078	0.4040
I-Pentane (IC5)	0.3950	0.39499	0.1440
N-Pentane (NC5)	0.2710	0.27057	0.0980
Hexanes Plus (C6+)	0.2120	0.21238	0.0920
TOTAL	100.0000	100.0000	2.1560

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

∆nalyzer	Information
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Device Type: Gas Chromatograph Device Make: Shimadzu
Device Model: GC-2014 Last Cal Date: May 27, 2025

Gross Heating Values (Real, BTU/ft³)									
14.696 PSI	@ 60.00 °F	14.73 PSI @	∮ 60.00 °F						
Dry	Saturated	Dry	Saturated						
205.5	202.9	206.0	203.4						

Calculated Total Sample Properties

GPA2145-16 *Calculated at Contract Conditions

Relative Density Real Relative Density Ideal 1.0180 1.0177

Molecular Weight

Molecular Weight 29.4770

C6+ Group Properties

Assumed Composition

> Field H2S **O PPM**

PROTREND STATUS:

DATA SOURCE:

Passed By Validator on Jun 2, 2025 Imported

PASSED BY VALIDATOR REASON:

First sample taken @ this point, composition looks reasonable

VALIDATOR:

Alexus Sepeda

VALIDATOR COMMENTS:

OK



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: TS- Na	ano, Inc.											В	ILL TO							Analy	ysis Re	quest			
Project Manager: John Stormont						PO #:																			
Address: 5901 Indian S										Company: TS- Nano, Inc.															
City: Albuquerque		State	e: NM			Zip: 8	37110			Attn: Jay Kitowski															
Phone #: 505-907-4095 Email: jstormont@ts-nano.com								Addr	ess: S	ame															
Project #:		Proje	ect Owner:							City:															
Project Name:										State	:		Zip:												
Project Location:										Phon	e #: 5	05-46	4-4836												
Sampler Name:										Email	: jkito	wski(@ts-nano.co	om											
						Ма	trix			Pr	eser	ve	Sam	oling											
Lab I.D.	Sample I.D.	(S)POT or (C)OMP	# Container	Groudwater	Wastewater	GAS	Oil	Solid	Other	Acid/Base	Ice/Cool	Other	Date	Time	C-6+ RGA	C-10+ Ext									
						Х					_				Х										
	HALEY CHAVEROO #13	S	BAG			Х							30-May	2PM	Х										
	HALEY CHAVEROO #25		BAG			Х							30-May		Х										
	HALEY CHAVEROO #17		BAG			Х							30-May	2PM	Х										
	HALEY CHAVEROO #19		BAG			Χ							30-May	2PM	Х										
	HALEY CHAVEROO #41	S	BAG			Х							30-May	2PM	Х										
	HALEY CHAVEROO #18		BAG			Х							30-May		Х										
	HALEY CHAVEROO #24		BAG			Х							30-May		Х										
	HALEY CHAVEROO #28	S	BAG			Х							30-May		Х										
		S	BAG			Х							30-May		Х										
	HALEY CHAVEROO #40	_	BAG			Х							30-May		Х										
													,												
	HALEY CHAVEROO #36		BAG			X							30-May		Χ										
	HALEY CHAVEROO #39		BAG			Х							30-May		Х										
	HALEY CHAVEROO #33		BAG			Х							30-May		Х									\dashv	
	HALEY CHAVEROO #34		BAG			Х							30-May		Х								$\vdash \vdash$		
	HALEY CHAVEROO #35	S	BAG			Χ							30-May	2PM	Х										
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Durine Smit	30-May-25			Recei	ved b	y:							Phone Resu		님	Yes	님		Add'l	Phone	:				
													Email Resul	t:		Yes		No							
Relinquished by	Date:			Recei	ved b	y:							REMARKS:												
	Time:																								
Deliver by: (circle one)							le Con	dition			ecked	-													
						ol		Int		(I	nitials	5)													
Sampler - UPS - Bu	s - other:				Yes	_		Yes																	
					No			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 472176

DEFINITIONS

Operator:	OGRID:
RIDGEWAY ARIZONA OIL CORP.	164557
575 N. Dairy Ashford	Action Number:
Houston, TX 77079	472176
	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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Action 472176

QUESTIONS

Operator:	OGRID:
RIDGEWAY ARIZONA OIL CORP.	164557
575 N. Dairy Ashford	Action Number:
Houston, TX 77079	472176
	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	[30-041-10171] HALEY CHAVEROO SA UNIT #017							
Well Status	Active							

Monitoring Event Information							
Please answer all the questions in this group.							
Reason For Filing	Pre-Plug Methane Monitoring						
Date of monitoring	05/27/2025						
Latitude	33.66219						
Longitude	-103.57310						

Monitoring Event Details							
Please answer all the questions in this group.							
Flow rate in cubic meters per day (m³/day)	0.20						
Test duration in hours (hr)	22.6						
Average flow temperature in degrees Celsius (°C)	26.8						
Average gauge flow pressure in kilopascals (kPag)	1.1						
Methane concentration in part per million (ppm)	4,150						
Methane emission rate in grams per hour (g/hr)	0.02						
Testing Method	Steady State						

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