

# **Pre-Plugging Methane Emissions Monitoring Report**

Haley Chaveroo #22

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

# Well information

*ID #:* 30-041-10232 *Name:* Haley Chaveroo #22





Coordinates: 33.662369, -103.55117

# **Measurement notes**

Device used: VentMedic #DC9447 Test operator: Dwayne Smith

Gas sample taken from well: 5/20/25 9:00 VentMedic connected to well: 5/20/25 9:53

Continuous monitoring of well flowrate, pressure, temperature, and methane concentration Hourly measurement of weather data

VentMedic disconnected from well: 5/21/25 15:51

Notes: No remarkable observations

Gas sample delivered to laboratory: 5/23/25

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 (L/min): 0.003

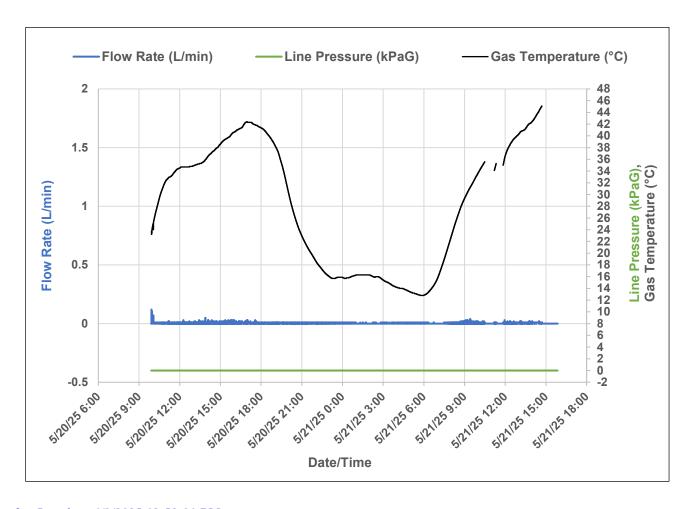
Average methane mass flow rate (g/hr)

using methane % from lab analysis: 0.024 using methane % from sensor in unit: 0.003

# Methane mass flowrate calculation

Variable	Unit	Value
Pressure (P)	kPaA	Measured from the Unit
Volumetric flow (V)	L gas/min	Measured from the Unit
% methane	% (methane/gas)	Measured from Unit or sample
Temperature (T)	Kelvin	Measured from the Unit
Gas constant (R)	Atmosphere·L/(mole·Kelvin)	0.0821
Molecular weight of methane (Mw)	g/mole	16.04

Mass flow of methane 
$$\left(\frac{g}{hr}\right) = \frac{\%, methane}{100\%} * V * P * \frac{Mw}{RT} * \frac{60}{101.3}$$



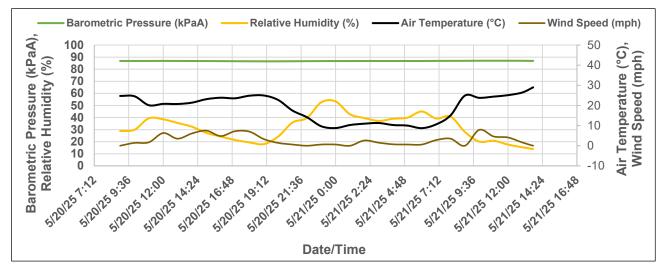


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# Weather data

Precipitation during measurement period (in): 0.000



	Air	Relative	Barometric	Wind
	Temperature	Humidity	Pressure	Speed
Date and Time	(°C)	(%)	(kPaA)	(mph)
5/20/2025 9:00	24.7	28.8	86.83	0.0
5/20/2025 10:00	24.6	29.9	86.83	1.4
5/20/2025 11:00	20.1	39.4	86.83	1.7
5/20/2025 12:00	20.8	38.5	86.86	6.3
5/20/2025 13:00	20.7	35.5	86.83	3.5
5/20/2025 14:00	21.4	32.4	86.79	6.1
5/20/2025 15:00	23.1	27.3	86.76	7.5
5/20/2025 16:00	23.8	24.3	86.69	4.8
5/20/2025 17:00	23.6	21.4	86.62	7.2
5/20/2025 18:00	24.8	19.4	86.56	7.0
5/20/2025 19:00	24.9	18.0	86.52	3.3
5/20/2025 20:00	22.7	24.2	86.52	1.4
5/20/2025 21:00	17.4	35.9	86.59	0.6
5/20/2025 22:00	14.2	39.6	86.66	0.0
5/20/2025 23:00	9.7	52.6	86.73	0.6
5/21/2025 0:00	8.8	53.3	86.76	0.6
5/21/2025 1:00	10.3	42.7	86.76	0.0
5/21/2025 2:00	10.9	39.6	86.79	2.6
5/21/2025 3:00	11.3	37.2	86.79	1.5
5/21/2025 4:00	10.3	39.0	86.79	0.7
5/21/2025 5:00	10.0	39.9	86.79	0.6
5/21/2025 6:00	8.7	45.0	86.79	0.6
5/21/2025 7:00	10.6	39.2	86.86	2.8
5/21/2025 8:00	15.1	40.8	86.89	3.5
5/21/2025 9:00	24.9	28.1	86.93	0.0





30-041-10232 24927G HALEY CHAVEROO #22 Sample Point Code Sample Point Name Sample Point Location **Laboratory Services** 2025112712 BAG **DWAYNE SMITH - Spot** Container Identity Lab File No Source Laboratory Sampler USA **USA USA** New Mexico District Area Name Field Name Facility Name May 20, 2025 May 27, 2025 May 1, 2025 May 27, 2025 08:23 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 Lab Source Description Operator Gross Heating Values (Real, BTU/ft3) Normalized **Un-Normalized** Component **GPM** 14.696 PSI @ 60.00 °F Mol % Mol % 14.73 PSI @ 60.00 °F Drv Saturated Drv Saturated 0.0000 H2S (H2S) 0 280.6 276.7 281.2 277.3 72.5750 72.576 Nitrogen (N2) Calculated Total Sample Properties 0.0340 0.0341 CO2 (CO2) GPA2145-16 \*Calculated at Contract Conditions Relative Density Real Relative Density Ideal 27,2990 27,299 Methane (C1) 0.8561 0.8559 Molecular Weight 0.0110 0.0105 0.0030 Ethane (C2) 24.7947 0.0000 0 0.0000 Propane (C3) C6+ Group Properties 0.0000 0 0.0000 I-Butane (IC4) Assumed Composition 0.0000 0.0000 0 C6 - 60.000% N-Butane (NC4) C7 - 30.000% C8 - 10.000% 0.0175 0.0070 0.0180 Field H2S I-Pentane (IC5) 0 PPM N-Pentane (NC5) 0.0260 0.0262 0.0090 0.0370 0.0367 0.0160 Hexanes Plus (C6+) PROTREND STATUS: **DATA SOURCE:** 0.0350 Passed By Validator on May 27, 2025 Imported **TOTAL** 100.0000 100.0000 PASSED BY VALIDATOR REASON: Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172 First sample taken @ this point, composition looks reasonable VALIDATOR: Analyzer Information

Analyzer Information

Device Type: Device Make:
Device Model: Last Cal Date:

Alexus Sepeda

# **VALIDATOR COMMENTS:**

Nitrogen at 70%

Page 5 of 7



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

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

Company Name: TS- Nano, Inc. Project Manager: John Stormont Address: 5901 Indian School Rd. NE City: Albuquerque State: NM Phone #: 505-907-4095 Project Name: Project Name: Project Location: Sampler Name:  HALEY CHAVEROO #28 HALEY CHAVEROO #28 HALEY CHAVEROO #18 HALEY CHAVEROO #35 HALEY CHAVEROO #35 HALEY CHAVEROO #35 HALEY CHAVEROO #36 HALEY CHAVEROO #31 HALEY CHAVEROO #31 HALEY CHAVEROO #31 HALEY CHAVEROO #37 HALEY CHAVEROO #37 HALEY CHAVEROO #38 HALEY CHAVEROO #38 HALEY CHAVEROO #38 HALEY CHAVEROO #38 HALEY CHAVEROO #30 S BAG		Mastewater (	Mat	trix	Solid		Attn: Addre City: State Phon Email	Jay Ki ess: Sa : e #: 50	towsl ame 05-46 wski(	Date  23-May	Time  1:45PM 1:45PM 1:45PM 1:45PM 1:45PM 1:45PM 1:45PM 1:45PM 1:45PM	X X X X X X X X X X X X X X X X X X X	C-10+ Ext								
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Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

DEFINITIONS

Action 472142

## **DEFINITIONS**

Operator:	OGRID:
RIDGEWAY ARIZONA OIL CORP.	164557
575 N. Dairy Ashford	Action Number:
Houston, TX 77079	472142
	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.

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

QUESTIONS

Action 472142

# **QUESTIONS**

Operator:	OGRID:
RIDGEWAY ARIZONA OIL CORP.	164557
575 N. Dairy Ashford	Action Number:
Houston, TX 77079	472142
	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	[30-041-10232] HALEY CHAVEROO SA UNIT #022
Well Status	Temporary Abandonment (expired)

Monitoring Event Information					
Please answer all the questions in this group.					
Reason For Filing	Pre-Plug Methane Monitoring				
Date of monitoring	05/20/2025				
Latitude	33.66237				
Longitude	-103.55117				

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)	30.0				
Average flow temperature in degrees Celsius (°C)	27.9				
Average gauge flow pressure in kilopascals (kPag)	0.0				
Methane concentration in part per million (ppm)	272,990				
Methane emission rate in grams per hour (g/hr)	0.02				
Testing Method	Steady State				

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