

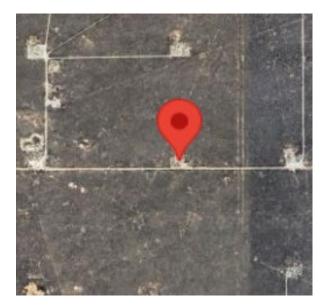
Pre-Plugging Methane Emissions Monitoring Report

Jennifer Chaveroo SA Unit 8

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

Well information

ID #:30-041-10578Coordinates:33.69538, -103.50358Name:Jennifer Chaveroo SA Unit 8Surface Location:Roosevelt County





Measurement notes

Device used: Ventbuster device VB100-0139

Test operator: Jay Kitowski

Gas sample taken from well: 11/26/24 13:05 Ventbuster connected to well: 11/26/24 15:36

Continuous monitoring of well flowrate, pressure,

and temperature

Hourly measurement of weather data

Ventbuster disconnected from well: 11/27/24 11:43

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

was apparent.

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 (Sm³/d): 0.015

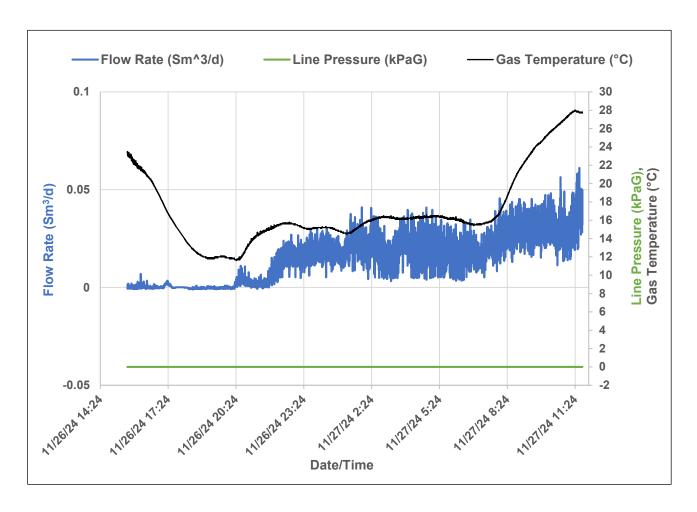
Average methane mass flow rate (g/hr)

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				

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



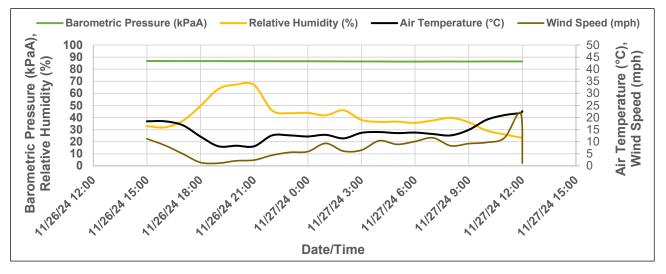


Pre-Plugging Methane Emissions Monitoring Report

Jennifer Chaveroo SA Unit 8

Weather data

Precipitation during measurement period (in): 0.000



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	Air	Relative	Barometric	Wind	
	Temperature	Humidity	Pressure	Speed	
Date and Time	(°C)	(%)	(kPaA)	(mph)	
11/26/2024 15:00	18.4	32.9	86.79	11.2	_
11/26/2024 16:00	18.4	31.9	86.76	8.5	
11/26/2024 17:00	16.8	37.2	86.73	5.0	
11/26/2024 18:00	12.1	49.6	86.73	1.4	
11/26/2024 19:00	8.1	63.6	86.73	1.1	
11/26/2024 20:00	8.3	67.3	86.66	2.1	
11/26/2024 21:00	8.1	66.8	86.66	2.4	
11/26/2024 22:00	12.6	45.9	86.62	4.4	
11/26/2024 23:00	12.6	43.6	86.59	5.6	
11/27/2024 0:00	12.2	43.9	86.59	5.9	
11/27/2024 1:00	12.8	41.8	86.52	9.3	
11/27/2024 2:00	11.4	46.0	86.45	6.1	
11/27/2024 3:00	13.7	38.0	86.42	6.5	
11/27/2024 4:00	14.0	36.4	86.39	10.4	
11/27/2024 5:00	13.6	36.6	86.32	8.9	
11/27/2024 6:00	13.8	35.6	86.32	10.1	
11/27/2024 7:00	13.2	37.6	86.35	11.6	
11/27/2024 8:00	12.6	39.7	86.39	8.3	
11/27/2024 9:00	14.9	36.1	86.35	9.2	
11/27/2024 10:00	19.1	29.2	86.45	9.7	
11/27/2024 11:00	21.0	26.0	86.45	11.6	
11/27/2024 11:53	21.9	23.4	86.45	21.9	
11/27/2024 12:00	22.6	23.3	86.42	1.2	

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22946G	30-041-10578	Jennifer Chaveroo #8
Sample Point Code	Sample Point Name	Sample Point Location

Laborator	y Services	2024102062	BAG		Jay Kitowski - Spot					
Source L	aboratory	Lab File No	Lab File No Container Identity							
USA		USA	USA		New Mexico					
District		Area Name	Field Name		Facility Name					
Nov 27,	2024	Nov 1, 2024		Nov 27, 2024	, 2024 09:03 Dec 2, 2					
Date Sam	npled	Date Effective		Date Receive	ed	Date Reported				
		System Administrator								
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst		@ Temp °F Conditions						
TS-Na	ano					NG				
Opera	ator	_			Lab So	urce Description				

Component	Normalized Mol %	Un-Normalized Mol %	GPM		
H2S (H2S)	0.0000	0			
Nitrogen (N2)	99.4880	99.489			
CO2 (CO2)	0.0880	0.088			
Methane (C1)	0.0000	0			
Ethane (C2)	0.0620	0.062	0.0170		
Propane (C3)	0.0850	0.085	0.0230		
I-Butane (IC4)	0.0090	0.009	0.0030		
N-Butane (NC4)	0.0400	0.04	0.0130		
I-Pentane (IC5)	0.0000	0	0.0000		
N-Pentane (NC5)	0.0000	0	0.0000		
Hexanes Plus (C6+)	0.2280	0.228	0.0990		
TOTAL	100.0000	100.0010	0.1550		

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)								
	@ 60.00 °F	14.73 PSI @ 60.00 °F						
Dry	Saturated	Dry	Saturated					
16.6	17.2	16.6	17.2					
Calculated Total Sample Properties								

calculated Total Sample Troperties								
GPA2145-16 *Calculated at Contract Conditions								
Relative Density Real	Relative Density Ideal							
0.9736	0.9737							
Molecular Weight								
28.2058								

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

PROTREND STATUS: DATA SOURCE: Passed By Validator on Dec 3, 2024 Imported

PASSED BY VALIDATOR REASON:

First sample taken @ this point, composition looks reasonable

VALIDATOR:

Ashley Russell

VALIDATOR COMMENTS:

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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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	e: NM			Zip: 8	37110			Attn:	Jay K	itow	ski		1									
Phone #: 505-907-409	95	Ema	il: jstormor	nt@ts	-nanc	.com				Addr	ess: S	ame			1									
Project #:		Proj	ect Owner:							City:														
Project Name:										State	:		Zip:		1									
Project Location:										Phon	e #: 5	05-4	64-4836											
Sampler Name:										Emai	l: jkito	wsk	i@ts-nano	.com										
						Ma	trix			Pr	eser	ve	Sam	pling										
Lab I.D.	Sample I.D.	(S)POT or (C)OMP	# Container	Groudwater	Wastewater	GAS	Oil	Solid	Other	Acid/Base	lce/Cool	Other	Date	Time	C-6+ RGA	C-10+ Ext								
200 1121	J.C. SA Unit #8	S	1 Tedlar	ΙŬ		Х	-				_		11.27.24	10:00AM	Х									
	J.C. SA Unit #11	S	1 Tedlar			Х							11.27.24	10:00AM	Х									
		S	1 Tedlar			Х							11.27.24	10:00AM	Х									
	J.C. SA Unit #3	S	1 Tedlar			Х							11.16.24	10:00AM	Х									
	J.C. SA Unit #5	S	1 Tedlar			Х							11.16.24	10:00AM	Х									
	J.C. SA Unit #2	S	1 Tedlar			Х							11.16.24	10:00AM	Χ									
	J.C. SA Unit #7	S	1 Tedlar			Х							11.27.24	10:00AM	Х									
								İ																
								Ī																
			•				•																	
Relinquished by Jay K	itowski Date: 11.2	7.24		Recei	ved b	y:							Phone Res	ult:		Yes	No	Add'l F	Phone	:				
Time: 10:00 am									Email Resu	lt:		Yes	No											
Relinquished by Date: Received by:							REMARKS:																	
	Time:																							
Deliver by: (circle one)				'	:	Sampl	e Con	dition		Che	ecked	by												
Cool Intact						nitials	_																	
Sampler - UPS - Bus - other: Yes No					Yes		''		,															

Released to Imaging: 1/8/2025 12:51:48 PM

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 418591

DEFINITIONS

Operator:	OGRID:
RIDGEWAY ARIZONA OIL CORP.	164557
575 N. Dairy Ashford	Action Number:
Houston, TX 77079	418591
	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 418591

QUESTIONS

Operator:	OGRID:
RIDGEWAY ARIZONA OIL CORP.	164557
575 N. Dairy Ashford	Action Number:
Houston, TX 77079	418591
	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	[30-041-10578] JENNIFER CHAVEROO SA UNIT #008	
Well Status	Active	

Monitoring Event Information	
Please answer all the questions in this group.	
Reason For Filing	Pre-Plug Methane Monitoring
Date of monitoring	11/26/2024
Latitude	33.69538
Longitude	-103.50400

Monitoring Event Details		
Please answer all the questions in this group.		
Flow rate in cubic meters per day (m³/day)	0.02	
Test duration in hours (hr)	20.1	
Average flow temperature in degrees Celsius (°C)	17.1	
Average gauge flow pressure in kilopascals (kPag)	0.0	
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.