



Pre-Plugging Methane Emissions Monitoring Report

Humble Tucker #001

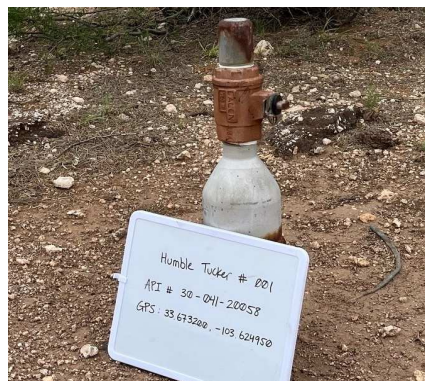
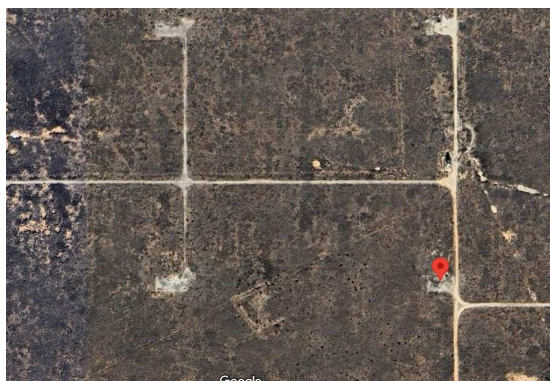
Prepared by TS-Nano, Inc.

For NM Energy, Minerals and Natural Resources Department, Oil Conservation Division
PO# 52100-0000077175

Well information

ID #: 30-041-20058
Name: Humble Tucker #001

Coordinates: 33.67338, -103.62494
Surface Location: Roosevelt County



Measurement notes

Device used: VentMedic #DC9447

Test operator: Jay Kitowski

Gas sample taken from well: 6/19/24 13:45

VentMedic connected to well: 6/19/24 14:31

Continuous monitoring of well flowrate, pressure,
and temperature

Hourly measurement of weather data

VentMedic disconnected from well: 6/20/24 11:51

Notes: Shut-in pressure of 2760 kPa (400 psi); with well shut-in, slight
audible hissing sound noted below well head valve.

Gas sample delivered to laboratory: 6/21/24

Laboratory Name/Location: Laboratory Services / Hobbs, NM



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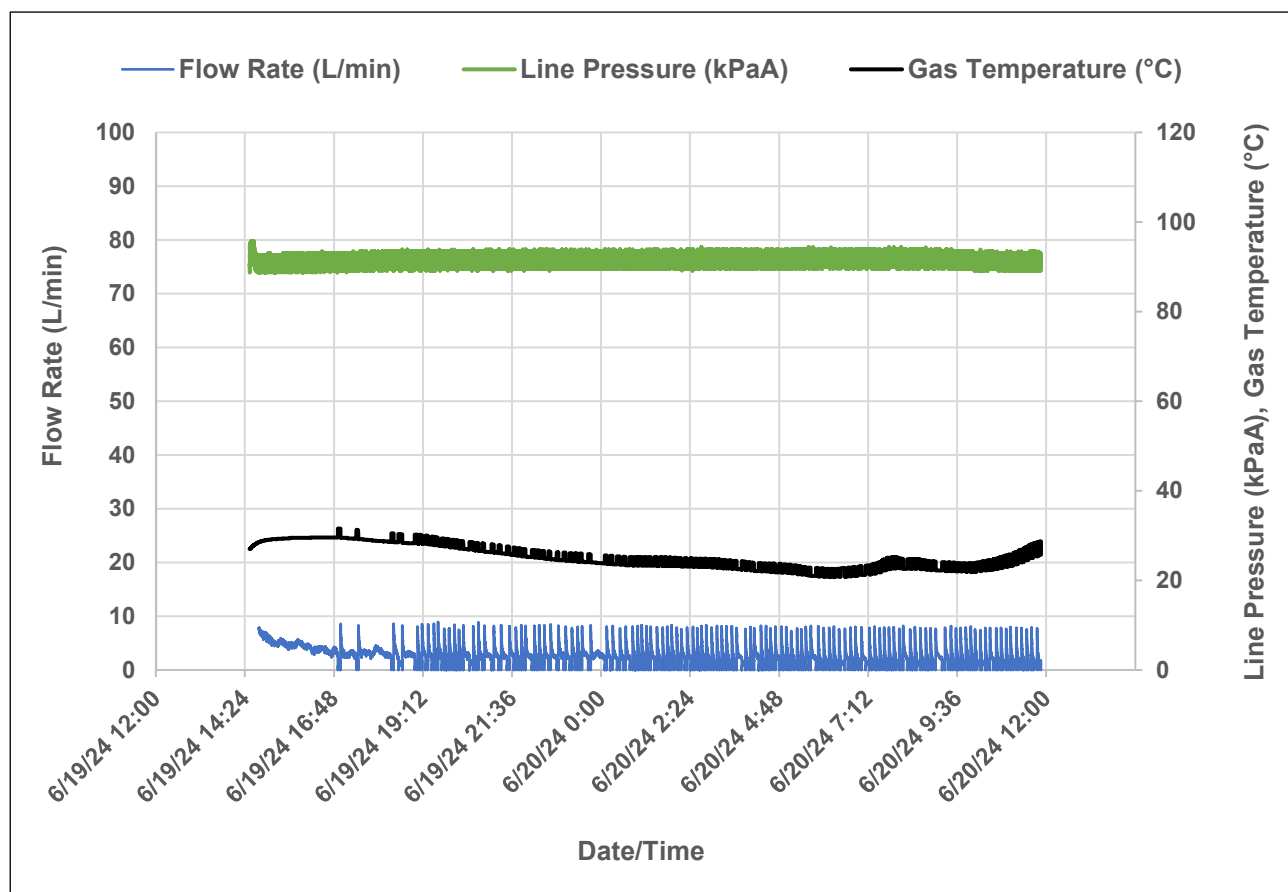
Measurement data

Wellhead pressure (kPa gage)*: 2760 kPa (400 psi)
 Average flow rate (L/min): 2.962
 Average methane mass flow rate (g/hr)
 using methane % from lab analysis: 0.00

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

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



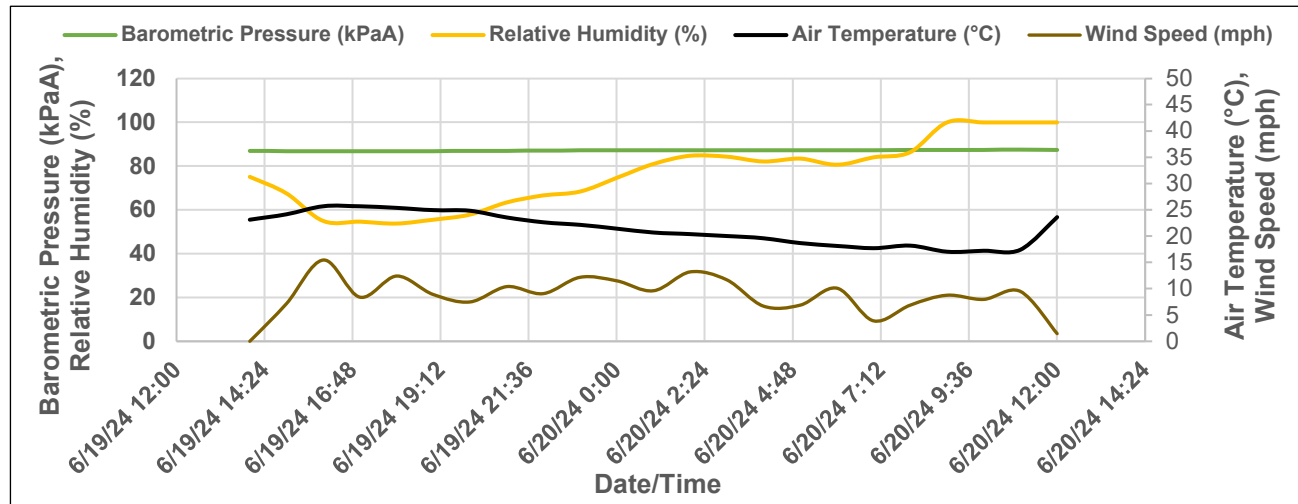


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Weather data

Precipitation during measurement period (in): 0.001



Date and Time	Air Temperature (°C)	Relative Humidity (%)	Barometric Pressure (kPaA)	Wind Speed (mph)
6/19/2024 14:00	23.2	75.1	86.93	0.0
6/19/2024 15:00	24.2	67.5	86.86	7.2
6/19/2024 16:00	25.7	54.9	86.83	15.5
6/19/2024 17:00	25.7	54.6	86.86	8.4
6/19/2024 18:00	25.4	53.8	86.83	12.4
6/19/2024 19:00	24.9	55.6	86.86	8.9
6/19/2024 20:00	24.8	57.9	86.93	7.5
6/19/2024 21:00	23.6	63.4	87.00	10.4
6/19/2024 22:00	22.7	66.6	87.06	9.1
6/19/2024 23:00	22.2	68.4	87.17	12.2
6/20/2024 0:00	21.4	74.6	87.17	11.5
6/20/2024 1:00	20.7	81.0	87.17	9.6
6/20/2024 2:00	20.4	84.7	87.17	13.2
6/20/2024 3:00	20.1	84.3	87.17	11.7
6/20/2024 4:00	19.6	82.1	87.17	6.7
6/20/2024 5:00	18.7	83.4	87.17	6.9
6/20/2024 6:00	18.2	80.6	87.20	10.1
6/20/2024 7:00	17.7	84.0	87.23	3.9
6/20/2024 8:00	18.2	86.4	87.33	6.9
6/20/2024 9:00	17.1	100.0	87.40	8.8
6/20/2024 10:00	17.2	100.0	87.44	8.0
6/20/2024 11:00	17.4	100.0	87.50	9.5
6/20/2024 12:00	23.6	100.0	87.40	1.5



21498G		API#30-041-20058		HUMBLE TUCKER #001	
Sample Point Code		Sample Point Name		Sample Point Location	
Laboratory Services		2024092974		TEDLAR BAG	
Source Laboratory		Lab File No		Container Identity	
USA		USA		USA	
District		Area Name		Field Name	
Jun 19, 2024 13:45		Jun 1, 2024		Jun 21, 2024 12:13	
Date Sampled		Date Effective		Date Received	
		Admin			
Ambient Temp (°F)		Flow Rate (Mcf)		Press PSI @ Temp °F	
		Analyst		Source Conditions	
TS-Nano				NG	
Operator				Lab Source Description	

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	99.9550	99.95482	
CO2 (CO2)	0.0000	0	
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)	0.0000	0	0.0000
I-Pentane (IC5)	0.0000	0	0.0000
N-Pentane (NC5)	0.0000	0	0.0000
Hexanes Plus (C6+)	0.0450	0.04518	0.0190
TOTAL	100.0000	100.0000	0.0190

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:	Jun 3, 2024

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 Å°F		14.63 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
2.3	3.1	2.3	3.1
Calculated Total Sample Properties			
GPA2145-16 *Calculated at Contract Conditions			
Relative Density Real		Relative Density Ideal	
0.9681		0.9682	
Molecular Weight			
28.0427			
C6+ Group Properties			
Assumed Composition			
C6 - 60.000%	C7 - 30.000%	C8 - 10.000%	
Field H2S			
0 PPM			

PROTREND STATUS:

Passed By Validator on Jun 25, 2024

DATA SOURCE:

Imported

PASSED BY VALIDATOR REASON:

First sample taken @ this point, composition looks reasonable

VALIDATOR:

Ashley Russell

VALIDATOR COMMENTS:

OK



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575.397.3713 2609 W Marland Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

Relinquished by John Stormont	Date: 6/21/24 Time: 12:13	Received by: Jess Shepker	Phone Result: ☐ Yes ☐ No Add'l Phone: ☐ Yes ☐ No
Relinquished by	Date: Time:	Received by:	Email Result: X Yes ☐ No jstormont@ts-nano.com
Deliver by: (circle one) Sampler - UPS - Bus - other:		Sample Condition Cool Intact Yes ☐ Yes ☐ No ☐ No ☐	Checked by (Initials)
REMARKS:			

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

DEFINITIONS

Action 369395

DEFINITIONS

Operator: RIDGEWAY ARIZONA OIL CORP. 575 N. Dairy Ashford Houston, TX 77079	OGRID: 164557
	Action Number: 369395
	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 369395

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Operator: RIDGEWAY ARIZONA OIL CORP. 575 N. Dairy Ashford Houston, TX 77079	OGRID: 164557
	Action Number: 369395
	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	[30-041-20058] HUMBLE TUCKER #001
Well Status	Active

Monitoring Event Information	
Please answer all the questions in this group.	
Reason For Filing	Pre-Plug Methane Monitoring
Date of monitoring	06/19/2024
Latitude	33.67338
Longitude	-103.62494

Monitoring Event Details	
Please answer all the questions in this group.	
Flow rate in cubic meters per day (m³/day)	4.27
Test duration in hours (hr)	21.3
Average flow temperature in degrees Celsius (°C)	25.4
Average gauge flow pressure in kilopascals (kPag)	4.6
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.