Test Report

Start Date: Sat Mar 11 2023 17:54:21 GMT+0000 (Coordinated Universal Time)
End Date: Sun Mar 12 2023 17:46:42 GMT+0000 (Coordinated Universal Time)
Device: VB100-0040
Well Licensee: 30-015-00948
Well Name: Artesia Metex 039
UWI: 30-015-00948
Well License Number: 30-015-00948
Surface Location: State of NM
Bottom Hole Location: Unknown

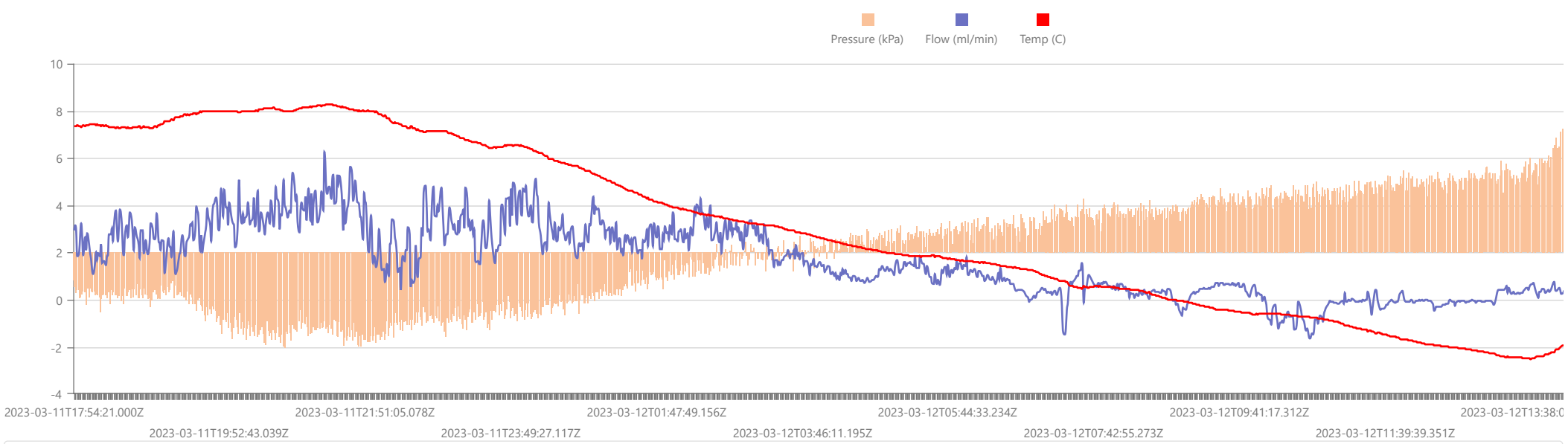
Test Operator: Sean O. Jacobson
Authorized By: State of NM
Test Reason: IIJA Pre Plugging
Scope Of Work: 12 Hour
AFE Number: 52100-0000072986
GPS: 32.71921,-104.23113
Notes: GTG
Prepared By: Curtis Shuck - QMS

Flow / Pressure Test

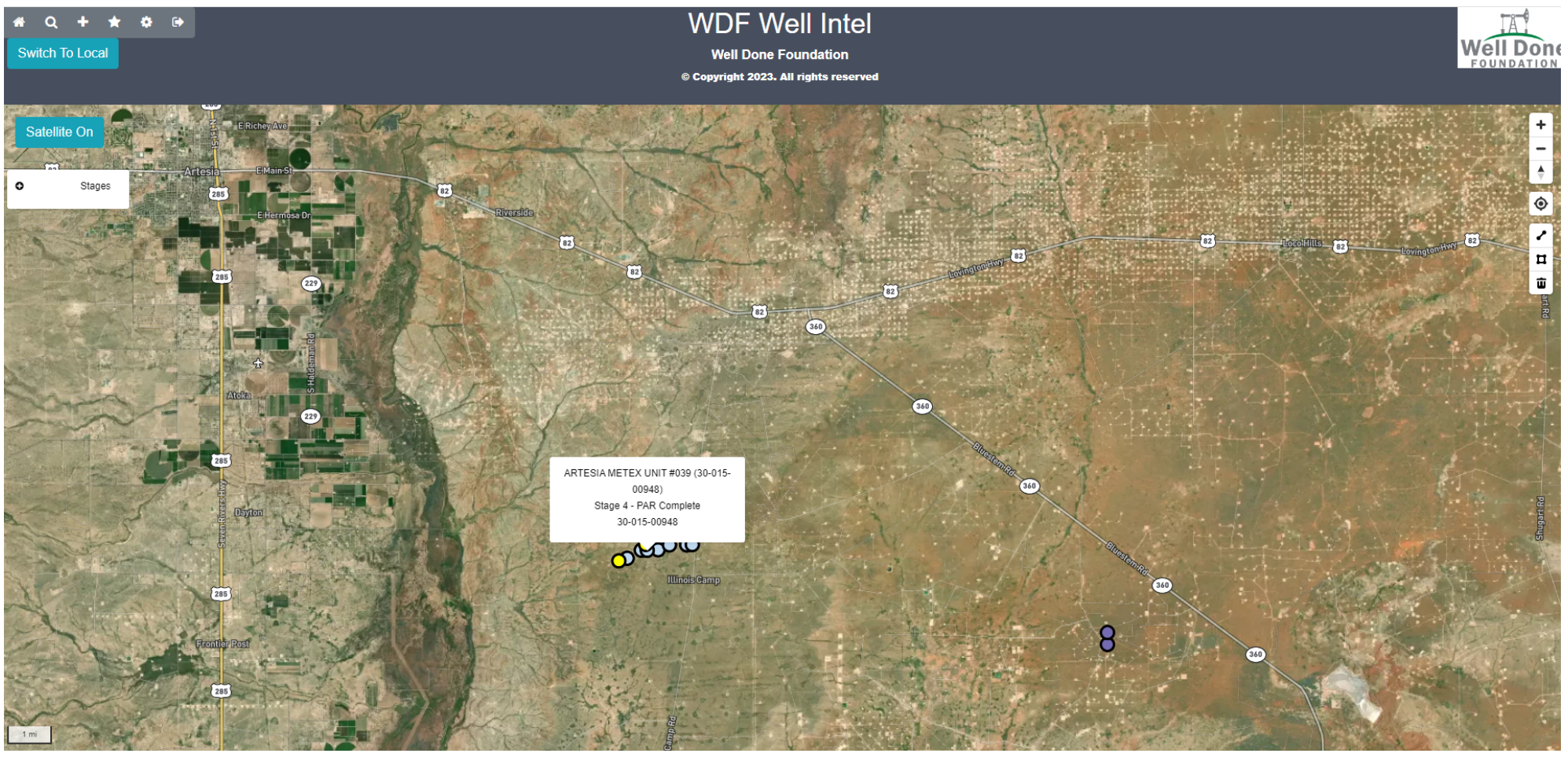
Flow Duration	Average Flowrate	Average Pressure	Average Flow Temperature	Average CH4 Mass
23 hrs 50 minutes	1.2420	0.4241	22.5159	0.00 g/hr
Duration	m3/d	kPag	°C	

Methane Calculation: 717 grams CH4 per cubic meter (717 g/m^3 x 1.2420 m^3/day = 890.51 g/day total /24 = 37.10 g/hour x 0 (methane concentration) = **0.00 g/hour CH4**). **Methane, gas** weighs 0.000717 *gram per cubic centimeter* or 0.717 *kilgram per cubic meter*, i.e. density of *methane, gas* is equal to 0.717 kg/m^3; at 0°C (32°F or 273.15K) at standard atmospheric pressure. In imperial or US customary measurement system, the density is equal to 0.0448 *pound per cubic foot* [lb/ft^3], or 0.0004144 *ounce per cubic inch* [oz/inch^3].

Flow / Pressure / Temperature Timeseries



#	Date	Note
1	2023-06-27	ces: On location with WDF Measure 1. Site photos, field gas analysis and collect gas sample for Laboratory analysis. Please green ribbon at wellhead. WILDCAT OUT!
2	2023-03-12	Arrived 11:47am 3/12/2023. Rigged down flow test. SP VB #40
3	2023-03-11	Arrived 10:53am 3/11/2023. Restarted flow test as requested by control. VB #40
4	2023-03-10	Arrived 11:54am 3/10/2023. Rigged up flow test. SP VB #40
5	2023-02-27	Arrived 12:28am 2/27/2023. Rigged down flow test.
6	2023-02-26	Arrived 11:55am 2/26/2023. Rigged up Ventbuster #40 for flow testing.



March 11, 2023

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	+54°	+54°	26.1	SW 9.4	88%
Morning	+55°	+55°	26.1	SW 11.2	25%
Day	+81°	+81°	26.2	W 19.5	13%
Evening	+68°	+68°	26.1	W 13	19%

March 12, 2023

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	+55°	+55°	26.2	NW 10.1	32%
Morning	+43°	+37°	26.2	N 7.2	81%
Day	+66°	+66°	26.3	SW 14.5	22%
Evening	+63°	+63°	26.3	E 12.8	23%

LABORATORY SERVICES Natural Gas Analysis
www.permianls.com
575.397.3713 2609 W Marland Hobbs NM 88240

C6+ Gas Analysis Report

16145G	Artesia Metex #39	Artesia Metex #39
Sample Point Code	Sample Point Name	Sample Point Location

Laboratory Services	2023064923	Tedlar Bag	SOJ - Spot
Source Laboratory	Lab File No	Container Identity	Sampler

USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name

Feb 27, 2023 12:34	Feb 27, 2023 12:34	Mar 2, 2023 07:20	Mar 6, 2023
Date Sampled	Date Effective	Date Received	Date Reported

		System Administrator	
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	Press PSI @ Temp °F Source Conditions

Well Done Foundation	NG
Operator	Lab Source Description

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	99.1860	99.186	
CO2 (CO2)	0.1070	0.107	
Methane (C1)	0.0000	0	
Ethane (C2)	0.0910	0.091	0.0240
Propane (C3)	0.1640	0.164	0.0450
I-Butane (IC4)	0.0350	0.035	0.0110
N-Butane (NC4)	0.0800	0.08	0.0250
I-Pentane (IC5)	0.0410	0.041	0.0150
N-Pentane (NC5)	0.0390	0.039	0.0140
Hexanes Plus (C6+)	0.2570	0.257	0.1110
TOTAL	100.0000	100.0000	0.2450

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

Gross Heating Values (Real, BTU/ft³)

14.696 PSI @ 60.00 Â°F		14.73 PSI @ 60.00 Â°F	
Dry	Saturated	Dry	Saturated
26.00	26.4	26.1	26.5

Calculated Total Sample Properties

GPA2145-16 *Calculated at Contract Conditions

Relative Density Real	Relative Density Ideal
0.9768	0.9769

Molecular Weight: 28.2962

C6+ Group Properties

Assumed Composition: C6 - 60.000% C7 - 30.000% C8 - 10.000%

Field H2S: 0 PPM

PROTREND STATUS:
Passed By Validator on Mar 7, 2023

DATA SOURCE:
Imported

PASSED BY VALIDATOR REASON:
Close enough to be considered reasonable.

VALIDATOR:
Brooke Rush

VALIDATOR COMMENTS:
OK

Analyzer Information

Device Type:	Gas Chromatograph	Device Make:	Shimadzu
Device Model:	GC-2014	Last Cal Date:	Feb 13, 2023

Source	Date	Notes
Brooke Rush	Mar 7, 2023 2:21 pm	Methane = 0 PPM

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

Operator: CANYON E & P COMPANY 251 O'Connor Ridge Blvd. Irving, TX 75038	OGRID: 269864
	Action Number: 295381
	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 295381

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	Action Number: 295381
	Action Type: [UF-OMA] Pre-Plug Methane Monitoring (UF-OMA-MMA)

QUESTIONS

Prerequisites	
[OGRID] Well Operator	**[269864] CANYON E & P COMPANY**
[API] Well Name and Number	**[30-015-00948] ARTESIA METEX UNIT #039**
Well Status	**Plugged (not released)**

Monitoring Event Information *Please answer all the questions in this group.*	
Reason For Filing	**Pre-Plug Methane Monitoring**
Date of monitoring	03/11/2023
Latitude	32.71921
Longitude	-104.23113

Monitoring Event Details *Please answer all the questions in this group.*	
Flow rate in cubic meters per day (m^3/day)	1.24
Test duration in hours (hr)	23.9
Average flow temperature in degrees Celsius (°C)	22.5
Average gauge flow pressure in kilopascals (kPag)	0.4
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	Well Done New Mexico LLC