



Test Report

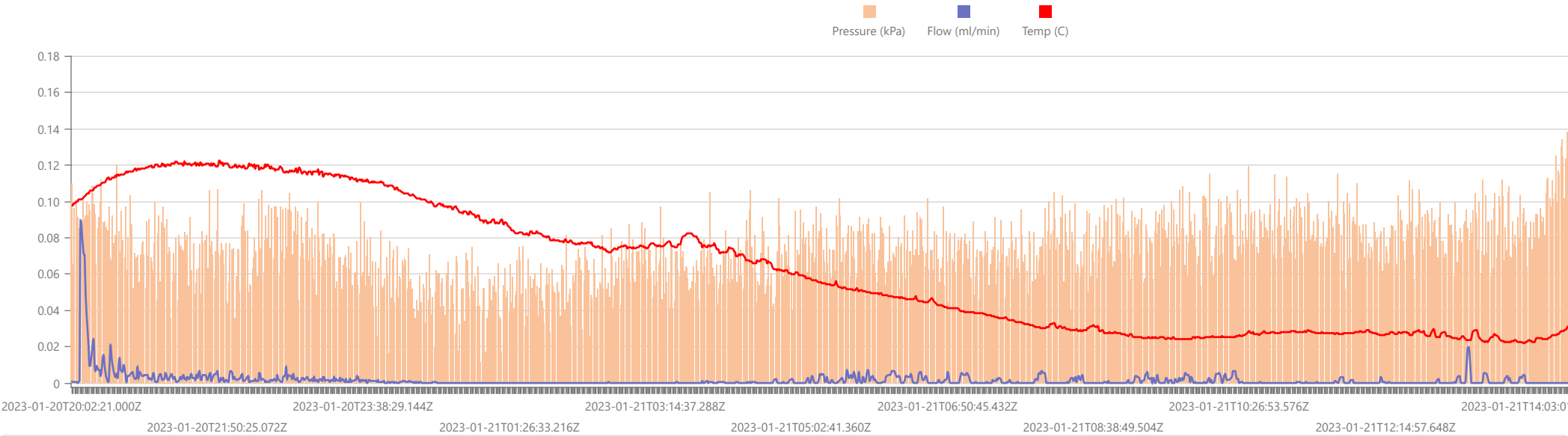
Start Date: Fri Jan 20 2023 20:02:21 GMT+0000 (Coordinated Universal Time) End Date: Sat Jan 21 2023 17:50:05 GMT+0000 (Coordinated Universal Time) Device: VB100-0024 Well Licensee: 30-005-20077 Well Name: Cato San Andres Unit 118 UWI: 30-005-20077 Well License Number: 30-005-20077 Surface Location: State of NM Bottom Hole Location: Unknown	Test Operator: Sean O. Jacobson Authorized By: State of NM Test Reason: IJJA Pre Plugging Scope Of Work: 12 Hour AFE Number: 52100-00000073108 GPS: 33.61441,-103.86121 Notes: GTG Prepared By: Curtis Shuck - QMS
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Flow / Pressure Test

Flow Duration 21 hrs 46 minutes Duration	Average Flowrate 0.0012 m3/d	Average Pressure 2.0099 kPag	Average Flow Temperature 6.1337 °C	Average CH4 Mass 0.00 g/hr
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Methane Calculation: 717 grams CH4 per cubic meter (717 g/m³ x 0.0012 m³/day = 0.86 g/day total /24 = 0.04 g/hour x 0.00335 (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/m³; 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/ft³], or 0.0004144 *ounce per cubic inch* [oz/inch³].

Flow / Pressure / Temperature Timeseries



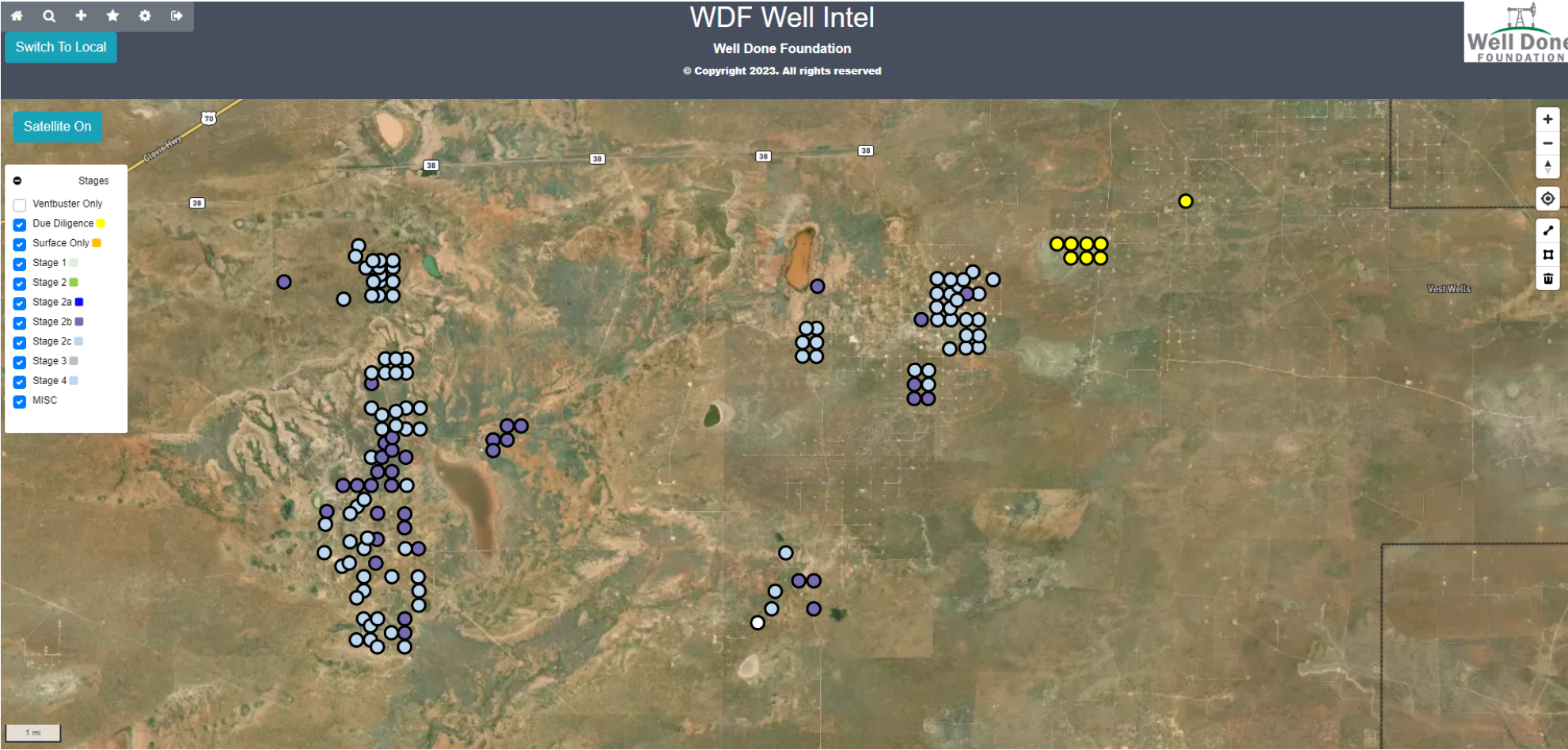
#	Date	Note
1	2023-06-29	ces: On location with WDF Measure 1 to perform post plugging methane testing. We had a Thunderstorm that flooded the well location after the collection of the gas sample and before we could take photos. Non detect on any methane. Placed green ribbon at the wellsite. WILDCAT OUT!
2	2023-01-21	Arrived 10:52am January 21st, 2023. Rigged down ventbuster.
3	2023-01-20	Arrived January 20th, 2023. Conducted field gas analysis then collected gas sample. Decided to double rig. Rigged up ventbuster #40 (2") and ventbuster #24 (1") for flow testing.

January 20, 2023

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	+36°	+30°	26.3	▲ S 8.1	43%
Morning	+30°	+25°	26.3	◀ E 6.7	59%
Day	+61°	+61°	26.3	▲ S 13.2	20%
Evening	+50°	+50°	26.3	▲ S 6.3	34%

January 21, 2023

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	+37°	+30°	26.3	▲ NW 11	34%
Morning	+28°	+21°	26.3	▲ NW 8.5	43%
Day	+48°	+43°	26.3	▲ NW 16.1	21%
Evening	+41°	+36°	26.3	▼ N 7.4	27%





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575.397.3713 2609 W Marland Hobbs NM 88240

C6+ Gas Analysis Report

15884G	CSAU #118	CSAU #118	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2023063323	Tedlar Bag	SOJ - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Jan 20, 2023 13:34	Jan 20, 2023 13:34	Jan 27, 2023 10:43	Jan 30, 2023
Date Sampled	Date Effective	Date Received	Date Reported
Torrance			
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)	98.3680	98.36811	
CO2 (CO2)	0.0460	0.04578	
Methane (C1)	0.3350	0.335	
Ethane (C2)	0.1570	0.15726	0.0420
Propane (C3)	0.1260	0.12619	0.0350
I-Butane (IC4)	0.0320	0.03155	0.0100
N-Butane (NC4)	0.1130	0.11255	0.0360
I-Pentane (IC5)	0.0770	0.07664	0.0280
N-Pentane (NC5)	0.0880	0.08849	0.0320
Hexanes Plus (C6+)	0.6580	0.65843	0.2850
TOTAL	100.0000	100.0000	0.4680

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:	Jan 23, 2023

Source	Date	Notes
Brooke Rush	Jan 31, 2023 9:28 pm	Methane = 3,350 PPM

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
54.6	54.5	54.7	54.6

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
0.9857	0.9857
Molecular Weight	
28.5495	

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

Field H2S
0 PPM

PROTREND STATUS:

Passed By Validator on Jan 31, 2023

DATA SOURCE:

Imported

PASSED BY VALIDATOR REASON:

First sample taken @ this point, composition looks reasonable

VALIDATOR:

Brooke Rush

VALIDATOR COMMENTS:

OK

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 295391

DEFINITIONS

Operator: CANO PETRO OF NEW MEXICO, INC. 801 Cherry Street Fort Worth, TX 76102	OGRID: 248802
	Action Number: 295391
	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 295391

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Operator: CANO PETRO OF NEW MEXICO, INC. 801 Cherry Street Fort Worth, TX 76102	OGRID: 248802
	Action Number: 295391
	Action Type: [UF-OMA] Pre-Plug Methane Monitoring (UF-OMA-MMA)

QUESTIONS

Prerequisites	
[OGRID] Well Operator	[248802] CANO PETRO OF NEW MEXICO, INC.
[API] Well Name and Number	[30-005-20077] CATO SAN ANDRES UNIT #118
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	01/20/2023
Latitude	33.61441
Longitude	-103.86121

Monitoring Event Details

Please answer all the questions in this group.

Flow rate in cubic meters per day (m³/day)	0.00
Test duration in hours (hr)	21.7
Average flow temperature in degrees Celsius (°C)	6.1
Average gauge flow pressure in kilopascals (kPag)	2.0
Methane concentration in part per million (ppm)	3,350
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 Foundation New Mexico LLC
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