



Test Report

Start Date: Sat Mar 04 2023 17:54:10 GMT+0000 (Coordinated Universal Time)
 End Date: Sun Mar 05 2023 18:08:39 GMT+0000 (Coordinated Universal Time)
 Device: VB100-0054
 Well Licensee: 30-005-28016
 Well Name: Cato San Andres 573
 UWI: 30-005-28016
 Well License Number: 30-005-28016
 Surface Location: State of NM
 Bottom Hole Location: Unknown

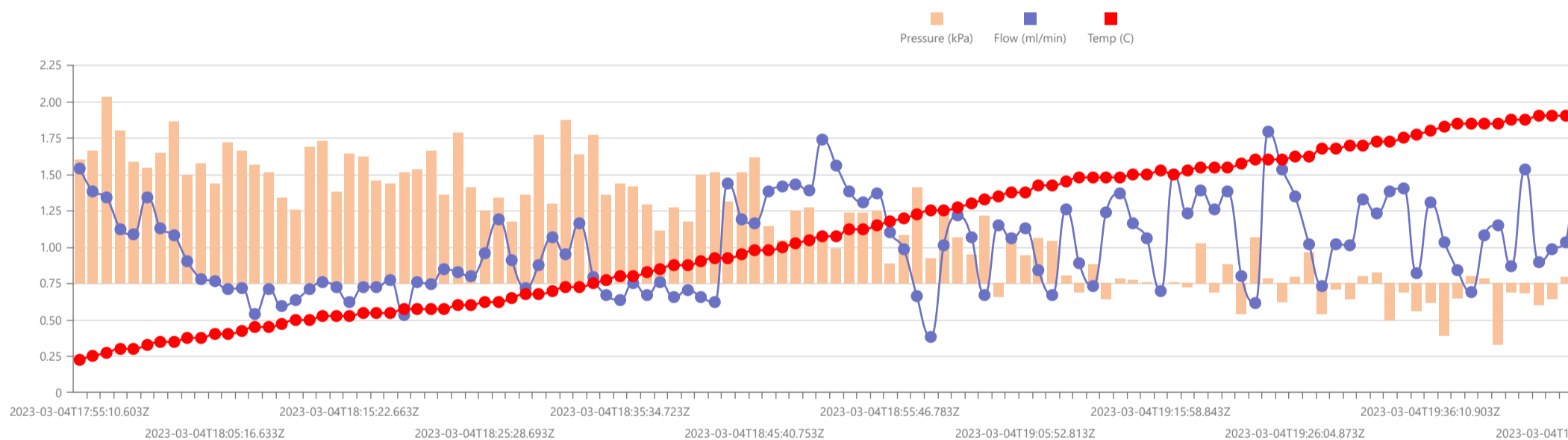
Test Operator: Sean O. Jacobson
 Authorized By: State of NM
 Test Reason: IJA Pre Plugging
 Scope Of Work: 12 Hour
 AFE Number: 52100-0000073108
 GPS: 33.62341,-103.84953
 Notes: GTG
 Prepared By: Curtis Shuck, QMS

Flow / Pressure Test

Flow Duration 2 hrs 20 minutes Duration	Average Flowrate 1.0351 m3/d	Average Pressure 0.5547 kPag	Average Flow Temperature 25.0307 °C	Average CH4 Mass 0.60 g/hr CH4 Concentration 19,500 ppm
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Methane Calculation: 717 grams CH4 per cubic meter ($717 \text{ g/m}^3 \times 1.0351 \text{ m}^3/\text{day} = 742.17 \text{ g/day total} / 24 = 30.92 \text{ g/hour} \times 0.0195 \text{ (methane concentration)} = 0.60 \text{ g/hour CH4}$). Methane, gas weighs 0.000717 gram per cubic centimeter or 0.717 kilogram 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	2023-03-05	Arrived 11:07am 3/5/2023. Rigged down flow test. SP
2	2023-03-04	Arrived 10:30am 3/4/2023. Stopped flow test. Flipped to high flow. Started new test.
3	2023-03-03	Arrived 11:24am 3/3/2023. Rigged Up Ventbuster #54 for flow testing.

Weather in Roswell, March 4

Weather Forecast for March 4 in Roswell, New Mexico - temperature, wind, atmospheric pressure, humidity and precipitations. Detailed hourly weather chart.

March 02	March 03	Select date: 📅	March 05	March 06
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March 04, 2023

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	☾ +45°	+39°	26.1	↖ NW 9.4	27%
Morning	☀️ +36°	+30°	26.3	↘ N 5.8	43%
Day	☀️ +63°	+63°	26.3	↘ SE 8.3	12%
Evening	☾ +61°	+61°	26.3	↗ S 11.6	14%

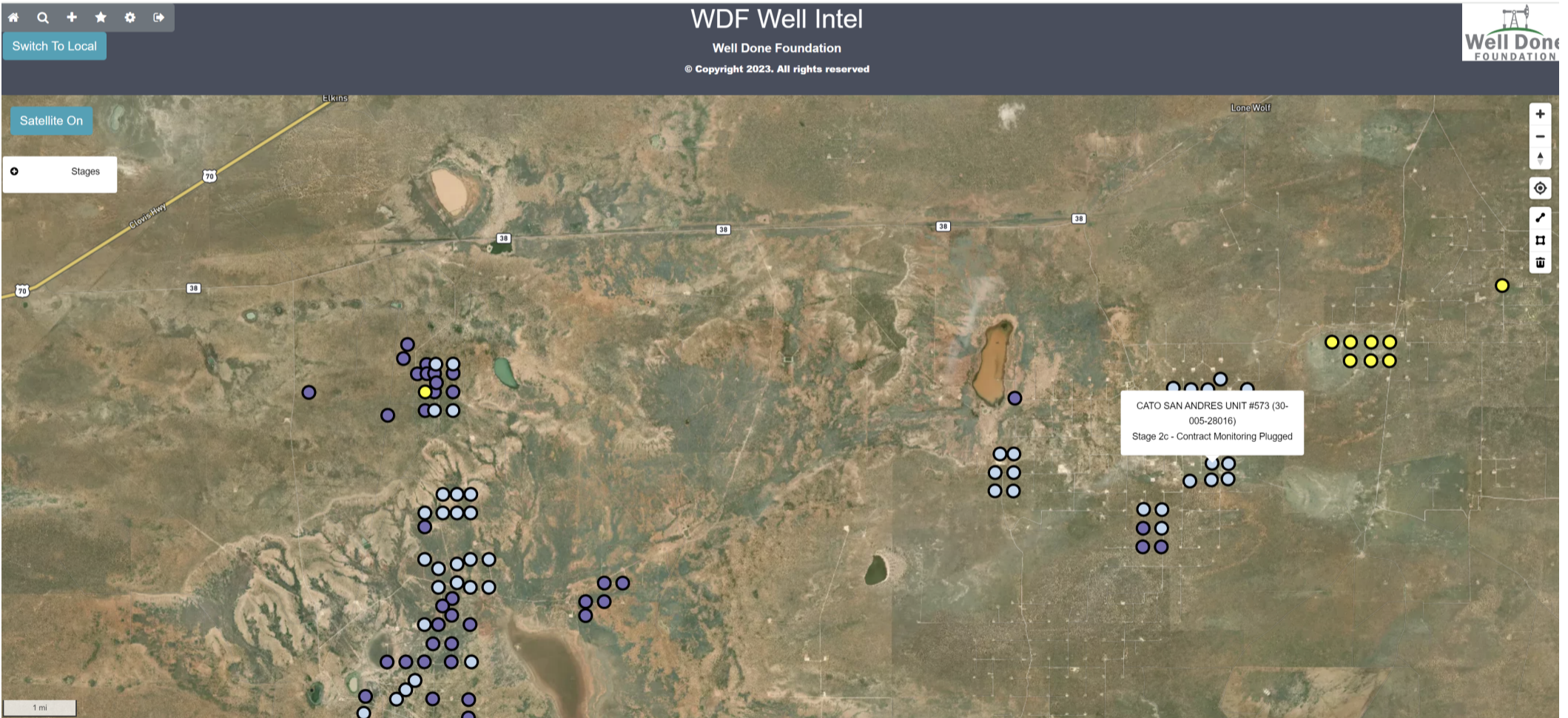
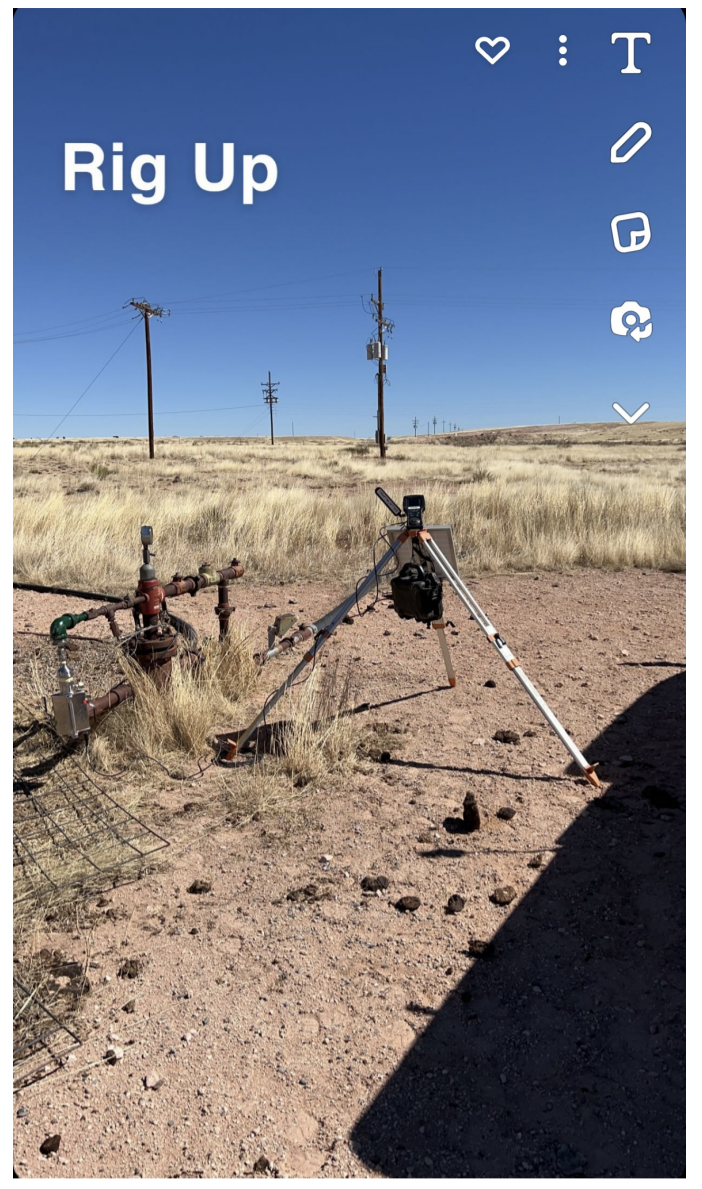
Weather in Roswell, March 5

Weather Forecast for March 5 in Roswell, New Mexico - temperature, wind, atmospheric pressure, humidity and precipitations. Detailed hourly weather chart.

March 03	March 04	Select date: 📅	March 06	March 07
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March 05, 2023

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	☾ +43°	+39°	26.2	↙ SW 4.9	21%
Morning	☀️ +39°	+34°	26.2	↗ S 7.8	30%
Day	☀️ +77°	+77°	26.3	↙ SW 14.3	7%
Evening	☁️ +64°	+64°	26.3	↘ W 9.6	9%





16224G	CSAU #573 Pre Plug		CSA #573
Sample Point Code	Sample Point Name		Sample Point Location
Laboratory Services	2023065368	Tedlar Bag	SOJ - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Mar 3, 2023 11:28	Mar 3, 2023 11:28	Mar 9, 2023 11:44	Mar 9, 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)	78.2060	78.2057	
CO2 (CO2)	2.3230	2.32318	
Methane (C1)	1.9500	1.95016	
Ethane (C2)	5.4760	5.47567	1.4640
Propane (C3)	7.2070	7.20737	1.9850
I-Butane (IC4)	1.0160	1.01586	0.3320
N-Butane (NC4)	2.1900	2.19017	0.6900
I-Pentane (IC5)	0.6330	0.63266	0.2310
N-Pentane (NC5)	0.4950	0.49539	0.1790
Hexanes Plus (C6+)	0.5040	0.50383	0.2190
TOTAL	100.0000	100.0000	5.1000

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
475.1	467.9	476.2	469.000

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
1.0790	1.0777
Molecular Weight	
31.2148	

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 13, 2023
DATA SOURCE: Imported

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

VALIDATOR: Brooke Rush
VALIDATOR COMMENTS: OK

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:	Feb 13, 2023

Source	Date	Notes
Brooke Rush	Mar 13, 2023 9:12 am	Methane = 19,500 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

Action 278352

DEFINITIONS

Operator: CANO PETRO OF NEW MEXICO, INC. 801 Cherry Street Fort Worth, TX 76102	OGRID: 248802
	Action Number: 278352
	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.

District I1625 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
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QUESTIONS

Action 278352

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Operator: CANO PETRO OF NEW MEXICO, INC. 801 Cherry Street Fort Worth, TX 76102	OGRID: 248802
	Action Number: 278352
	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	[30-005-28016] CATO SAN ANDRES UNIT #573
Well Status	Reclamation Fund Approved

Monitoring Event Information*Please answer all the questions in this group.*

Reason For Filing	Pre-Plug Methane Monitoring
Date of monitoring	03/04/2023
Latitude	33.62341
Longitude	-103.84953

Monitoring Event Details*Please answer all the questions in this group.*

Flow rate in cubic meters per day (m ³ /day)	1.03
Test duration in hours (hr)	2.4
Average flow temperature in degrees Celsius (°C)	25.0
Average gauge flow pressure in kilopascals (kPag)	0.5
Methane concentration in part per million (ppm)	19,500
Methane emission rate in grams per hour (g/hr)	0.60
Testing Method	Steady State

Monitoring Contractor*Please answer all the questions in this group.*

Name of monitoring contractor	Well Done New Mexico LLC
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