



Test Report

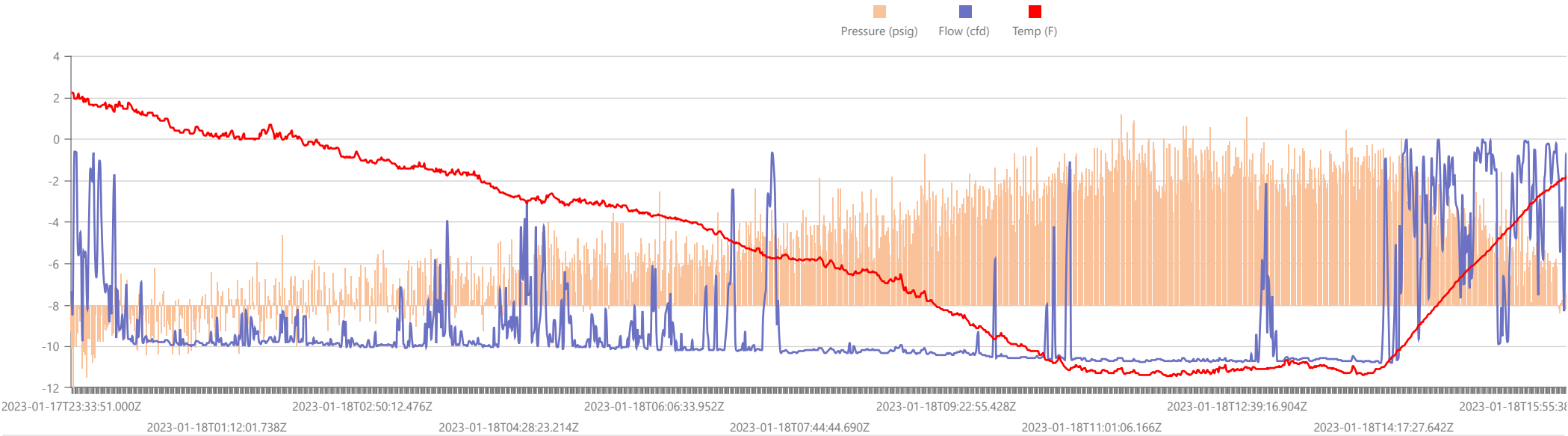
Start Date: Tue Jan 17 2023 23:33:51 GMT+0000 (Coordinated Universal Time) End Date: Wed Jan 18 2023 19:21:55 GMT+0000 (Coordinated Universal Time) Device: VB100-0049 Well Licensee: 30-005-20010 Well Name: Cato San Andres Unit 101 UWI: 30-005-20010 Well License Number: 30-005-20010 Surface Location: 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: 33.61802,-103.89604 Notes: GTG Prepared By: Curtis Shuck - QMS
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Flow / Pressure Test

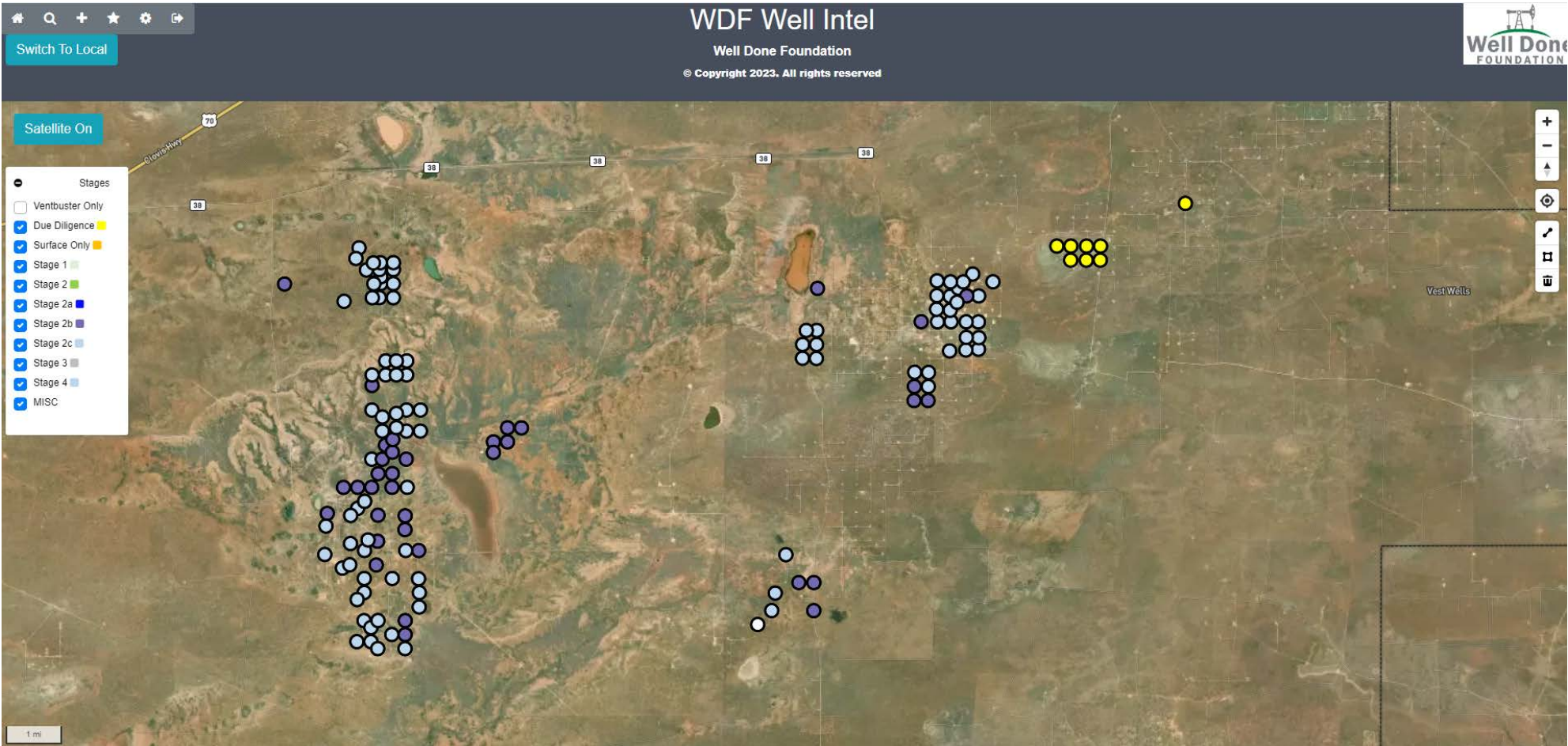
Flow Duration 19 hrs 47 minutes Duration	Average Flowrate 0.00 m3/d	Average Pressure 0.1412 psig	Average Flow Temperature 43.8884 °F	Average CH4 Mass 0.00 g/hr
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Methane Calculation: 717 grams CH4 per cubic meter (717 g/m³ x -0.2326 m³/day = -166.77 g/day total /24 = -6.95 g/hour x 0.00517 (methane concentration) = **-0.04 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 monitoring. perform field gas analysis. collect gas sample for Laboratory analysis. place green ribbon at monument cap. Photos. WILDCAT OUT!
2	2023-01-18	Stopped test and rigged down VB100-49. Secure location and place green ribbon.
3	2023-01-17	Arrived at 4:12pm January 17th, 2023. Conducted field gas analysis and collected gas sample. Then rigged ventbuster #49 for flow testing.



January 17, 2023

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	+52°	+52°	26.1	► W 12.1	60%
Morning	+48°	+46°	26.1	↙ SW 6.5	67%
Day	+63°	+63°	26.1	▲ S 14.3	46%
Evening	+55°	+55°	26.1	↙ SW 10.1	44%

January 18, 2023

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	+45°	+37°	26.1	► W 15.9	45%
Morning	+34°	+25°	26.1	► W 11	34%
Day	+52°	+52°	26.1	► W 27.5	14%
Evening	+46°	+39°	26.2	► W 15	24%



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575.397.3713 2609 W Marland Hobbs NM 88240

C6+ Gas Analysis Report

17171G	CSA #101 (Pre-Plug)	CSA #101 (Pre-Plug)	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2023069953	BAG	CES - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
May 26, 2023 18:19	May 26, 2023 18:19	Jun 8, 2023 07:11	Jun 9, 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)	98.5080	98.508	
CO2 (CO2)	0.0750	0.075	
Methane (C1)	0.5170	0.517	
Ethane (C2)	0.1600	0.16	0.0430
Propane (C3)	0.1260	0.126	0.0350
I-Butane (IC4)	0.0270	0.027	0.0090
N-Butane (NC4)	0.0670	0.067	0.0210
I-Pentane (IC5)	0.0390	0.039	0.0140
N-Pentane (NC5)	0.0450	0.045	0.0160
Hexanes Plus (C6+)	0.4360	0.436	0.1890
TOTAL	100.0000	100.0000	0.3270

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 5, 2023

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
40.1	40.4	40.2	40.5

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
0.9783	0.9783
Molecular Weight	
28.3366	

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 12, 2023

DATA SOURCE:

Imported

PASSED BY VALIDATOR REASON:

Close enough to be considered reasonable.

VALIDATOR:

Luis Cano

VALIDATOR COMMENTS:

OK

Source	Date	Notes
Luis Cano	Jun 12, 2023 9:16 am	Methane: 5,170 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 295390

DEFINITIONS

Operator: CANO PETRO OF NEW MEXICO, INC. 801 Cherry Street Fort Worth, TX 76102	OGRID: 248802
	Action Number: 295390
	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 295390

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Operator: CANO PETRO OF NEW MEXICO, INC. 801 Cherry Street Fort Worth, TX 76102	OGRID: 248802
	Action Number: 295390
	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	[30-005-20010] CATO SAN ANDRES UNIT #101
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	01/17/2023
Latitude	33.61802
Longitude	-103.89604

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)	19.7
Average flow temperature in degrees Celsius (°C)	7.0
Average gauge flow pressure in kilopascals (kPag)	0.1
Methane concentration in part per million (ppm)	5,170
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
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