

Orphan Well Pre Plugging Methane Quantification Report

Start Date: Thu Jan 26 2023 20:52:19 GMT+0000 (Coordinated Universal Time) End Date: Sat Jan 28 2023 22:50:36 GMT+0000 (Coordinated Universal Time) Device: VB100-0020

Well Licensee: 30-005-27983
Well Name: Cato San Andres Unit 535
UWI: 30-005-27983
Well License Number: 30-005-27983
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: 52100-00000073108 GPS: 33.63411,-103.84556 Notes: GTG Prepared By: Curtis Shuck, QMS

Flow / Pressure Test

Flow Duration
49 hrs 56 minutes
Duration

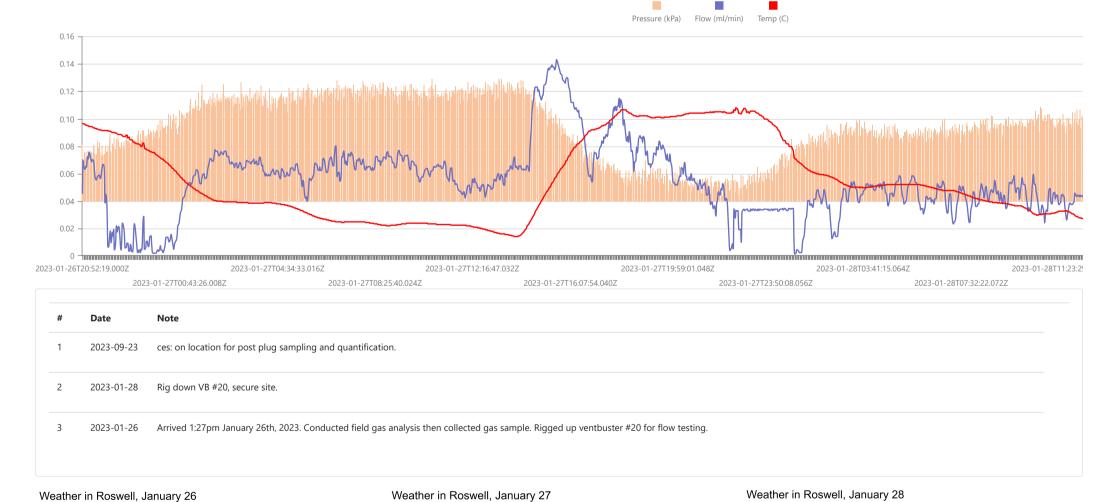
Average Flowrate 0.0554 m3/d Average Pressure
2.2260
kPag

Average Flow Temperature 6.1808

Average CH4 Mass
0.00 g/hr
CH4 Concentration
0.00 ppm

Methane Calculation: 717 grams CH4 per cubic meter (717 g/m 3 x 0.0554 m 3 /day = 39.72 g/day total /24 = 1.66 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



Weather Forecast for January 26 in Roswell, New Mexico - temperature, wind, atmospheric pressure, humidity and precipitations. Detailed hourly weather chart. January 24 January 25 Select date: 🎹 January 26, 2023 🔴 +28° 82% 26.6 Night Morning **+25**° +19° 26.7 ▲ NW 3.6 85% +41° Day Evening +36 +28° 26.6 **▼** sw 7.8 53%

Weather Forecast for January 27 in Roswell, New Mexico - temperature, wind, atmospheric pressure, humidity and precipitations January 25 Select date: 🎹 January 27, 2023 RealFeel °F Humidity +23° 45% Night +18° ▲s 4.5 26.5 +21° +14° **∢** E 4.5 43% +48° A ≈ 6.3 Day +46° 26.4 22% 42%

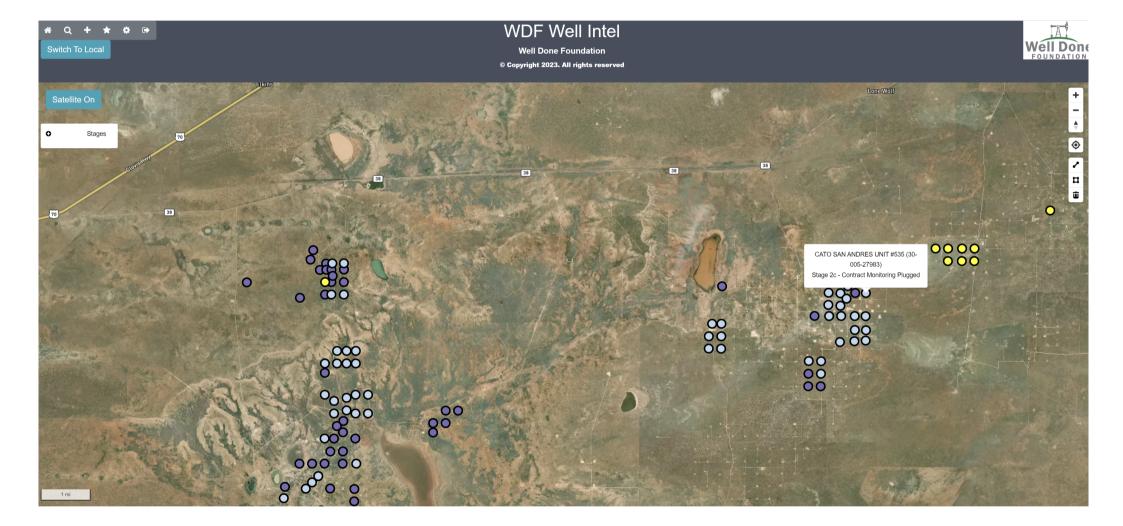
January 28, 2023 Wind speed mph Night +28° +23° 26.2 ▲s 4.9 55% +23° +169 26.2 ▲ NW 6.5 66% Morning Day ← +57° +57° 26.3 ► SE 5.8 23% (+50° Evening 26.2

Weather Forecast for January 28 in Roswell, New Mexico - temperature, wind, atmospheric pressure, humidity and precipitations Detailed hourly weather chart.









www.permianls.com 575.397.3713 2609 W Marland Hobbs NM 88240



15889G		CSAU #535 Pre Plug					CSA #535		
Sample Point Code		Sample Point Name				Sample	e Point Location		
Labor	- L		2022052	220		To disc Do a		601 6	
Laboratory Services		2023063328		Tedlar Bag		SOJ - Spot			
Soul	rce Laboratory	/	Lab File	NO	Co	ontainer Identity		Sample	er ·
USA			USA		USA		New Mexico		
District			Area Name		Fie	ld Name		Facility Name	
Jan 26, 2023 13:35			Jan 26, 2023 13:35			2023 10:54		Jan 30, 2023	
Date Sampled			Date Effective		Date	e Received		Date Reported	
			System Admi						
Ambient Temp (°F) Flow Rate (Mcf)			Analys	t		Press PSI @ Temp °F Source Conditions			
Well Dor	ne Foundat	ion						NG	
	Operator					_		Lab Source Des	scription
Component	:	Normalized Mol %	Un-Normalized Mol %	GPM		Gros	ss Heating Valu	-	ΓU/ft³) PSI @ 60.00 °F
1130 (1130)		0.0000	0		-	Dry	Saturated	Dry	Saturated
H2S (H2S)			 		┥	25.00	25.4	25.1	25.5
Nitrogen (N2)		99.0130	99.012		4	Cal	culated Total S	Sample Prop	erties
CO2 (CO2)		0.4810	0.481		4		A2145-16 *Calculated		
Methane (C1)		0.0000	0			Relative Dens 0.980		Relat	tive Density Ideal 0.9805
Ethane (C2)		0.0000	0	0.0000		Molecular V			
Propane (C3)		0.0290	0.029	0.0080		28.40	03		
I-Butane (IC4)		0.0000	0	0.0000		C6+ Group Properties Assumed Composition			
N-Butane (NC4)		0.0160	0.016	0.0050		C6 - 60.000%		•	C8 - 10.000%
I-Pentane (IC	25)	0.0000	0	0.0000			Field		
N-Pentane (NC5)		0.0000	0	0.0000			0 P	PM	
Hexanes Plus (0	C6+)	0.4610	0.461	0.2000		PROTREND STATUS:		DATA	A SOURCE:
TOTAL		100.0000	99.9990	0.2130		Passed By Validator	on Jan 31, 20	23 Impo	orted
Method(s): Gas C6+ - GPA 22	61, Extended G	as - GPA 2286, Calcula	tions - GPA 2172			PASSED BY VALIDATO Close enough to be		sonable.	
	Α	nalyzer Informa	tion			VALIDATOR:			
] "			e Make: Shimadzu			Brooke Rush VALIDATOR COMMEN	TS:		
Device Model: GC-2	2014	Last C	al Date: Jan 23,	2023		OK			
Source	Dat	te	Notes						
Brooke Rush	Jan 31, 20	023 9:06 pm	Methane = 0 PPM						

<u>District I</u> 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

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 280507

DEFINITIONS

Operator:	OGRID:
CANO PETRO OF NEW MEXICO, INC.	248802
801 Cherry Street	Action Number:
Fort Worth, TX 76102	280507
	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

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QUESTIONS

Prerequisites		
[OGRID] Well Operator	[248802] CANO PETRO OF NEW MEXICO, INC.	
[API] Well Name and Number	[30-005-27983] CATO SAN ANDRES UNIT #535	
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	01/26/2023		
Latitude	33.6340218		
Longitude	-103.8455734		

Monitoring Event Details			
Please answer all the questions in this group.			
Flow rate in cubic meters per day (m³/day)	0.06		
Test duration in hours (hr)	49.9		
Average flow temperature in degrees Celsius (°C)	6.1		
Average gauge flow pressure in kilopascals (kPag)	2.2		
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	