

Orphan Well Pre Plugging Methane Quantification Report

Start Date: Thu Jan 26 2023 18:49:14 GMT+0000 (Coordinated Universal Time) End Date: Sat Jan 28 2023 22:32:21 GMT+0000 (Coordinated Universal Time) Device: VB100-0029

Well Licensee: 30-005-27985 Well Name: Cato San Andres Unit 533 UWI: 30-005-27985 Well License Number: 30-005-27985 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: 33.63258,-103.85240 Notes: GTG Prepared By: Curtis Shuck, QMS

Flow / Pressure Test

Flow Duration
51 hrs 40 minutes
Duration

Average Flowrate 0.0048 m3/d Average Pressure -5.9542 kPag Average Flow Temperature $1.5985 \\ ^{\circ}\text{C}$

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 0.0048 m 3 /day = 3.44 g/day total /24 = 0.14 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

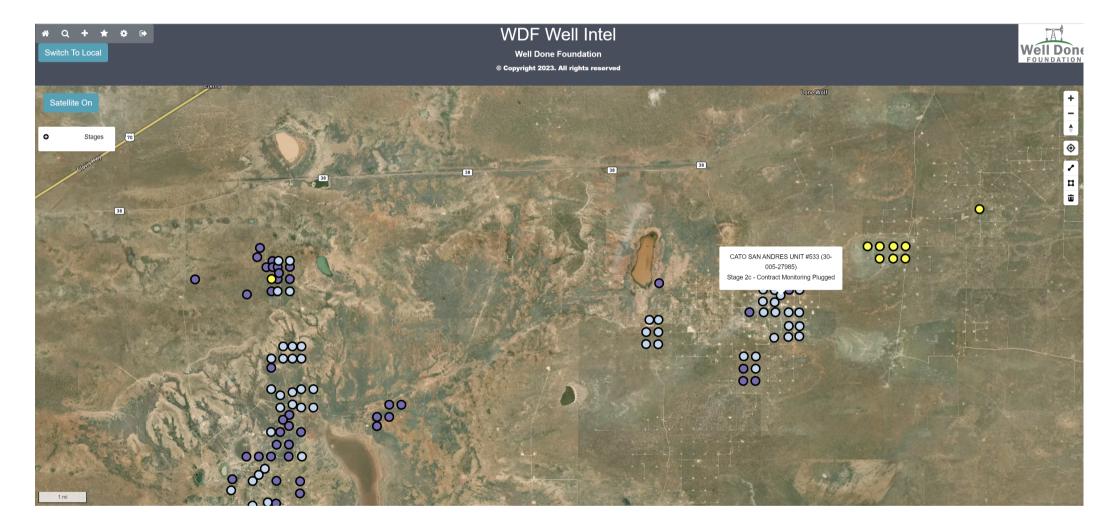


Weather Forecast for January 26 in Roswell, New Mexico - temperature, wind, atmospheric pressure, humidity and precipitations. Detailed hourly weather chart.				Weather Forecast for January 27 in Roswell, New Mexico - temperature, wind, atmospheric pressure, humidity and precipitations. Detailed hourly weather chart.				Weather Forecast for January 28 in Roswell, New Mexico - temperature, wind, atmospheric pressure, humidity and precipitations. Detailed hourly weather chart.									
January	24 January 2	25 Sele	ect date: 🎁	January 27	January 28	January	January 26	Select	date: 🏢	January 28	January 29	January	26 January	27 Selec	t date: 🎁	January 29	January 30
January 26	, 2023					January 27	, 2023					January 28,	2023				
	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity		Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity		Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHo		Humidity
Night	(+28°	+21°	26.6	▲ NW 4.9	82%	Night	(+23°	+18°	26.5	▲ s 4.5	45%	Night	- +28°	+23°	26.2	▲ s 4.9	55%
Morning	(+25°	+19°	26.7	▲ NW 3.6	85%	Morning	+21°	+14°	26.5	∢ E 4.5	43%	Morning	- +23°	+16°	26.2	▲ NW 6.5	66%
Day	+41°	+37°	26.7	∢ sw 7.8	32%	Day	+48°	+46°	26.4	▲ s 6.3	22%	Day	← +57°	+57°	26.3	➤ SE 5.8	23%
Evening	(+36°	+28°	26.6	▼ sw 7.8	53%	Evening	(+41°	+37°	26.3	▲ s 6.3	42%	Evening	(+50°	+46°	26.2	► w 7.8	34%











15892G		CSAU #533 Pre Plug					CSA #533		
Sample Point Code	Sample Point Name				Sample Poi	int Location			
Labouatom / Con	viene	2022062	221	Todley Dog		CO1 Coat			
Laboratory Ser Source Laborator		2023063		Tedlar Bag Container Identity		SOJ - Spot Sampler			
	ы у		NO	•		·			
USA		USA	_	USA Field Name		New Mexico Facility Name			
District		Area Name				•			
Jan 26, 2023 11:	37		2023 11:37 e Effective		2023 11:00 Received	Jan 30, 2023 Date Reported			
Date Sampled				Date i	Received	Dat	е керопеи		
Ambient Town (OF)	Flour Date (Mef.)	Torrand		Press PSI @ Temp °F	_				
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	L	Source Conditions					
Well Done Found	ation					NG			
Operator					L	ab Source Descrip	otion		
Component	Normalized Mol %	Un-Normalized Mol %	GPM	Gross 14.696 PSI @ 60.	_	es (Real, BTU/1	ft³) @ 60.00 °F		
H2S (H2S)	0.0000	0		Dry 19.2	Saturated 19.7	Dry 19.2	Saturated 19.7		
Nitrogen (N2)	99.4160	99.41533							
CO2 (CO2)	0.0490	0.04924			Calculated Total Sample Properties GPA2145-16 *Calculated at Contract Conditions				
Methane (C1)	0.0000	0		Relative Density		Relative Density Ideal 0.9740			
Ethane (C2)	0.0970	0.09693	0.0260	0.9739 Molecular Wei	ight	0.	9740		
Propane (C3)	0.1460	0.14561	0.0400	28.212	5				
I-Butane (IC4)	0.0230	0.02312	0.0080	i	C6+ Group Properties				
N-Butane (NC4)	0.0470	0.04732	0.0150	C6 - 60.000%	Assumed Co	•	8 - 10.000%		
I-Pentane (IC5)	0.0000	0	0.0000	1	Field F				
N-Pentane (NC5)	0.0000	0	0.0000	i	0 PPM				
Hexanes Plus (C6+)	0.2220	0.22245	0.0960	PROTREME STATUS	PROTREND STATUS: DATA SOURCE		NIDCE.		
TOTAL	100.0000	100.0000	0.1850	PROTREND STATUS: DATA SOIl Passed By Validator on Jan 31, 2023 Importer					
Method(s): Gas C6+ - GPA 2261, Extended	Gas - GPA 2286, Calcula	ations - GPA 2172		PASSED BY VALIDATOR First sample taken @		mposition look	s reasonable		
Device Type: Gas Chromato Device Model: GC-2014	· .	ation e Make: Shimadz al Date: Jan 23, 2		VALIDATOR: Brooke Rush VALIDATOR COMMENTS OK					
	oate	Notes	\						
Brooke Rush Jan 31,	2023 8:18 bm	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 278203

DEFINITIONS

Operator:	OGRID:				
CANO PETRO OF NEW MEXICO, INC.	248802				
801 Cherry Street	Action Number:				
Fort Worth, TX 76102	278203				
	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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801 Cherry Street	Action Number:				
Fort Worth, TX 76102	278203				
	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	[30-005-27985] CATO SAN ANDRES UNIT #533				
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	01/26/2023				
Latitude	33.63258				
Longitude	-103.85240				

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)	51.6				
Average flow temperature in degrees Celsius (°C)	1.5				
Average gauge flow pressure in kilopascals (kPag)	-5.9				
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				