

Test Report

Start Date: Fri May 26 2023 23:36:32 GMT+0000 (Coordinated Universal Time) End Date: Sat May 27 2023 23:38:27 GMT+0000 (Coordinated Universal Time) Device: VB100-0054

Well Licensee: EMNRD OCD
Well Name: Cato San Andres 069
UWI: 30-005-10586
Well License Number: 30-005-10586
Surface Location: CHAVES
Bottom Hole Location: unknown

Test Operator: ces
Authorized By: OCD
Test Reason: IIJA PRE Plug
Scope Of Work: 12-HOUR
AFE Number: 52100-0000073108
GPS: 33.62529,-103.89598
Notes: Casing
Prepared By: Curtis Shuck

Flow / Pressure Test

Flow Duration
24 hrs 1 minutes
Duration

Average Flowrate 23.2956

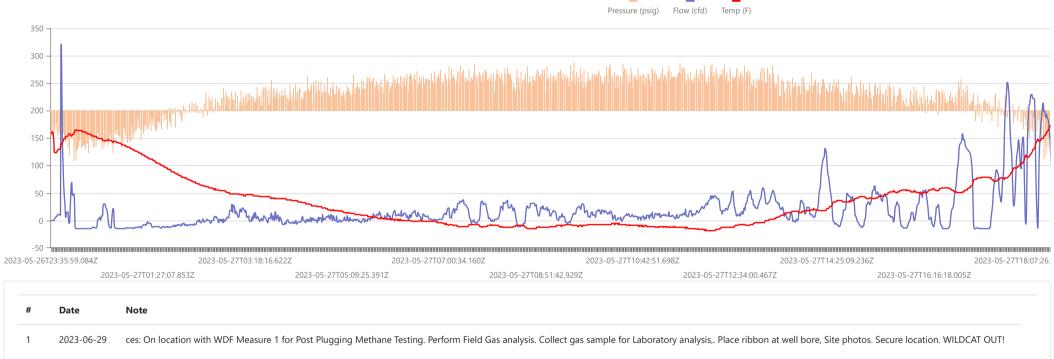
Average Pressure
0.0373
psig

Average Flow Temperature 76.4854

Average CH4 Mass 1.62 g/hr

Methane Calculation: 717 grams CH4 per cubic meter (717 g/m³ x 0.6597 m³/day = 473.00 g/day total /24 = 19.71 g/hour x 0.08239 (methane concentration) = **1.62 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 for Post Plugging Methane Testing. Perform Field Gas analysis. Collect gas sample for Laboratory analysis,. Place ribbon at well bore, Site photos. Secure location. WILDCAT OUT!
2	2023-05-28	ces: On location with WDF Measure 1. Stop active test. Rig down VBI-54. Secure location. WILDCAT OUT!
3	2023-05-27	ces: On location with WDF Measure 1. Take site photos. Perform Field Gas Analysis. Collect Gas Samples for Pre Plug Laboratory analysis. Rig up VB100-54 for 12-hour test. Secure locaiton.

Receiped by QCD: 12/17/2023 8:46:49 PM intel_data_client







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May 25, 2023

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	(+73°	+73°	26.3	▲ s 9.6	58%
Morning	← +63°	+63°	26.3	➤ SE 8.5	77%
Day	🧽 +81°	+81°	26.4	A s 13	35%
Evening	(+82°	+82°	26.4	► SE 14.3	38%

May 26, 2023

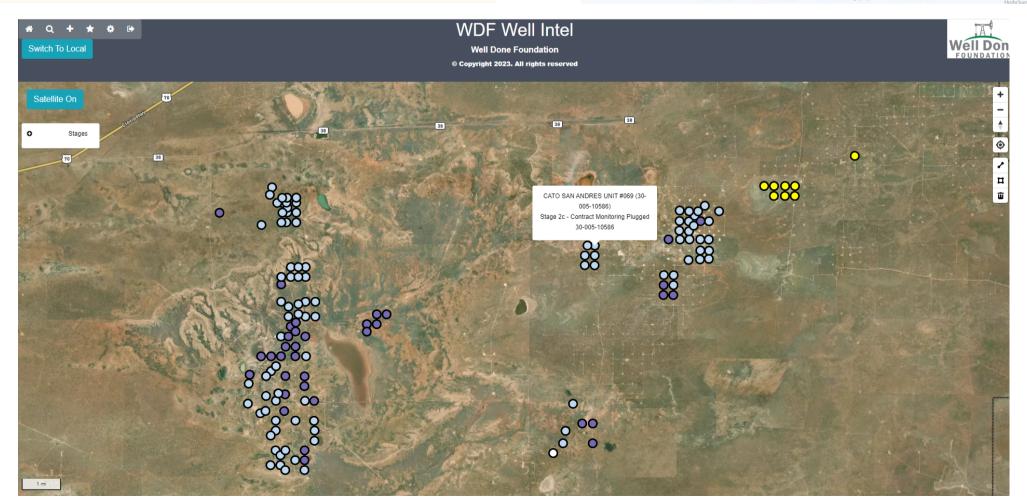
	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	♣ +72°	+72°	26.4	► SE 11.6	70%
Morning	→ +68°	+68°	26.5	► SE 10.7	73%
Day	♣ +75°	+75°	26.4	▲s 15.7	39%
Evening	(+82°	+82°	26.4	► SE 16.8	37%

Hourly forecast for 25.05.2023



Hourly forecast for 26.05.2023







171700			CSA #069 (Pre	Plug)			CSA #0	069 (Pre Plug)	
Sample Point Code				Sample Point Na				Sample	e Point Location
Labor	atory Servi	ces	20230699	952	BAG	<u> </u>		CES - S	Spot
Sour	rce Laboratory	/	Lab File N	10	Container Identity USA Field Name			Sampler New Mexico Facility Name	
USA			USA	_					
District			Area Name						
	2023 17:0	0		2023 17:00			023 07:09		
Date	e Sampled		Date	e Effective		Date I	Received		Date Reported
			System Admir				_		
Ambient Temp (°F)	Flo	ow Rate (Mcf)	Analyst			SI @ Temp °F ce Conditions			
Well Dor	ne Foundat	ion						NG	
C	Operator					_	L	_ab Source Des	scription
Component	t	Normalized Mol %	Un-Normalized Mol %	GPM		Gross 14.696 PSI @ 60.	Heating Valu		ΓU/ft³) β PSI @ 60.00 °F
H2S (H2S)		0.0000	0		7	Dry 210.7	Saturated 208.000	Dry 211.2	Saturated 208.5
Nitrogen (N2	2)	87.1200	87.119		┑ ├─		ulated Total S		
CO2 (CO2))	0.0530	0.053		1		145-16 *Calculated		
Methane (C1	1)	8.2430	8.243		-	Relative Density		Relat	tive Density Ideal
Ethane (C2))	1.9790	1.979	0.5290	1	0.9666 Molecular We	ight		0.9663
Propane (C3	3)	1.1540	1.154	0.3180	┑┝	27.986	6		
I-Butane (IC-	4)	0.1580	0.158	0.0520	-		C6+ Group Assumed Co	-	
N-Butane (NC	C4)	0.3700	0.37	0.1170	-	C6 - 60.000%	C7 - 30.	•	C8 - 10.000%
I-Pentane (IC	C5)	0.0690	0.069	0.0250	i		Field I		
N-Pentane (N	C5)	0.0990	0.099	0.0360			0 PF	M	
Hexanes Plus (0	C6+)	0.7550	0.755	0.3280		END STATUS:		DAT	A SOURCE:
TOTAL		100.0000	99.9990	1.4050		d By Validator o	on Jun 12, 202		orted
Method(s): Gas C6+ - GPA 220	261, Extended G	as - GPA 2286, Calcula	ations - GPA 2172			D BY VALIDATOR enough to be c		sonable.	
, ·	A Chromatogr 2014	•	ation e Make: Shimadzı Cal Date: Jun 5, 20		VALIDA Luis Ca	ATOR:	(Dr4	22/
					OK	TOR COMPLETE	J.		
Source	Dat	te	Notes						

Jun 14, 2023 10:13 p

Luis Cano

Jun 12, 2023 9:16 am Methane: 82,430 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 295389

DEFINITIONS

Operator:	OGRID:
CANO PETRO OF NEW MEXICO, INC.	248802
801 Cherry Street	Action Number:
Fort Worth, TX 76102	295389
	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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CANO PETRO OF NEW MEXICO, INC.	248802
801 Cherry Street	Action Number:
Fort Worth, TX 76102	295389
	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	[30-005-10586] CATO SAN ANDRES UNIT #069		
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	05/26/2023			
Latitude	33.62529			
Longitude	-103.89598			

Monitoring Event Details				
Please answer all the questions in this group.				
Flow rate in cubic meters per day (m³/day)	0.66			
Test duration in hours (hr)	24.0			
Average flow temperature in degrees Celsius (°C)	24.7			
Average gauge flow pressure in kilopascals (kPag)	0.3			
Methane concentration in part per million (ppm)	82,430			
Methane emission rate in grams per hour (g/hr)	1.60			
Testing Method	Steady State			

Monitoring Contractor			
Please answer all the questions in this group.			
Name of monitoring contractor	Well Done New Mexico LLC		