

Test Report

Start Date: Fri Mar 10 2023 18:45:04 GMT+0000 (Coordinated Universal Time) End Date: Sat Mar 11 2023 18:13:53 GMT+0000 (Coordinated Universal Time) Device: VB100-0054

Well Licensee: 30-015-00950 Well Name: Artesia Metex 038 **UWI**: 30-015-00950 Well License Number: 30-015-00950 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: 52100-0000072986 GPS: 32.71917,-104.23335 Notes:

Prepared By: Curtis Shuck - QMS

Flow / Pressure Test

Flow Duration 23 hrs 27 minutes Duration

Average Flowrate 5.1841 cfd

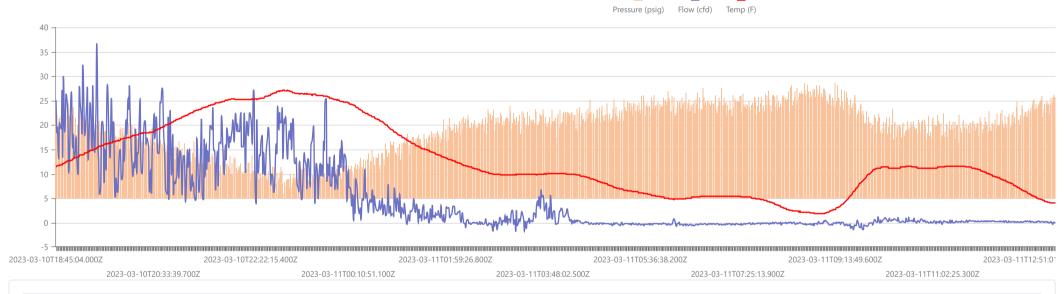
Average Pressure 0.5170 psig

Average Flow Temperature 69.8986

Average CH4 Mass 0.04 g/hr

Methane Calculation: 717 grams CH4 per cubic meter (717 g/m³ x 0.1468 m³/day = 105.26 g/day total /24 = 4.39 g/hour x 0.00982 (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].

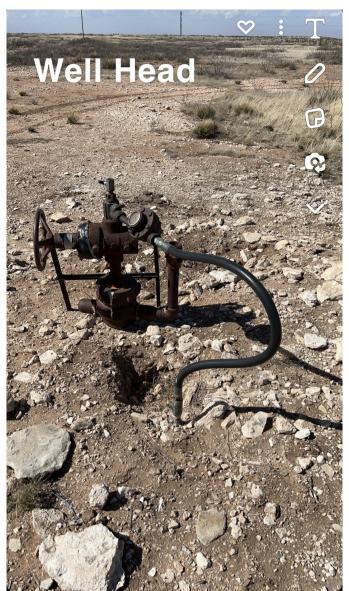
Flow / Pressure / Temperature Timeseries



#	Date	Note
1	2023-05-27	ces: On location with Measure1 for post plug sampling. Cement to within 9" of top of casing. Collect gas sample for Lab Analysis. Place green ribbon at casing. OK for cutoff.
2	2023-03-11	Arrived 11:12am 3/11/2023. Rigged down flow test. SP VB #54
3	2023-03-10	Arrived 11:31am 3/10/2023. Rigged up flow test. SP VB #54
4	2023-03-10	Arrived 11:54am 3/10/2023. Rigged up flow test. SP VB #40
5	2023-02-27	Arrived 12:13am 2/27/2023. Rigged down flow test.
6	2023-02-26	Arrived 11:34am 2/26/2023. Rigged up Ventbuster #16 for flow testing.









March	10,	2023
		Atm

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	+46°	+41°	26.5	◄	89%
Morning	(+45°	+39°	26.5	∢ E 10.1	84%
Day	(+59°	+59°	26.3	▲ s 15.2	49%
Evening	€ +61°	+61°	26.2	▲ s 11.6	58%

March 11, 2023

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	-54°	+54°	26.1	∢ sw 9.4	88%
Morning	+55°	+55°	26.1	∢ sw 11.2	25%
Day	+81°	+81°	26.2	► w 19.5	13%
Evening	(+68°	+68°	26.1	► w 13	19%

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161440	G .			Artesia Metex	#38			Artesia N	Metex #38
Sample Point Code				Sample Point Na	ame			Sample Po	int Location
Labor	atory Servi	ces	2023064922 Lab File No USA Area Name		Tedlar	Tedlar Bag		SOJ - Spo	t
Sou	rce Laborator	у			Container	Identity		Sampler	
USA					USA Field Name			New Mexico	0
District								Facility Name	
Feb 27,	2023 12:2	0	Feb 27,	2023 12:20		Mar 2	, 2023 07:19	.023 07:19 Mar 6, 20	
Date	Sampled		Date	e Effective		Date Received		Da	te Reported
			System Admi	nistrator					
Ambient Temp (°F)	Flo	ow Rate (Mcf)	Analys	t		PSI @ Temp °F rce Conditions			
Well Do	ne Foundat	tion						NG	
(Operator						ı	Lab Source Descrip	otion
Component	<u> </u>	Normalized Mol %	Un-Normalized Mol %	GPM		Gro 14.696 PSI @	oss Heating Valu		[ft³) I @ 60.00 °F
H2S (H2S)		0.0000	0		7	Dry	Saturated	Dry	Saturated
Nitrogen (N	2)	98.0150	98.015		ऻ	40.1	40.3	40.2	40.4
CO2 (CO2)	ı	0.0860	0.086		i		alculated Total S GPA2145-16 *Calculated		
Methane (C		0.9820	0.982		7	Relative De			Density Ideal
Ethane (C2	-	0.3370	0.337	0.0900	1	0.97 Molecular		0.	.9731
Propane (C3		0.1610	0.161	0.0440	╡	28.1	879		
I-Butane (IC	<u>* </u>	0.0210	0.021	0.0070	-		C6+ Group	Properties	
N-Butane (NO	-	0.0470	0.047	0.0150	┪╽	C6 60 0000	Assumed Co	•	20 10 0000/
`	•	0.0000	0.017	0.0000	┪╞═	C6 - 60.000%	6 C7 - 30.		28 - 10.000%
I-Pentane (IC		0.0180	0.018	0.0070	┥		0 PI		
N-Pentane (N		 	 		┥╚				
Hexanes Plus (26+)	0.3330	0.333	0.1440		REND STATUS:		DATA SO	
		100.0000	100.0000	0.3070	Passed By Validator on Mar 7, 2023 Imported PASSED BY VALIDATOR REASON:		ea		
Method(s): Gas C6+ - GPA 22	61, Extended G	ias - GPA 2286, Calcula	ations - GPA 2172				e considered rea	sonable.	
		nalyzer Informa	ition			ATOR: ce Rush			
1 ''	Chromatogr	•	Make: Shimadz			ATOR COMME	NTS:		
Device Model: GC-2	2014	Last C	al Date: Feb 13,	2023	Ј ок				
Source	Da	te	Notes						
Brooke Rush	Mar 7, 20	23 2:22 pm	Methane = 9,820	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 295380

DEFINITIONS

Operator:	OGRID:
CANYON E & P COMPANY	269864
251 O'Connor Ridge Blvd.	Action Number:
Irving, TX 75038	295380
	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 295380

QUESTIONS

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	Action Type:
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QUESTIONS

Prerequisites			
[OGRID] Well Operator	[269864] CANYON E & P COMPANY		
[API] Well Name and Number	[30-015-00950] ARTESIA METEX UNIT #038		
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	03/10/2023		
Latitude	32.71917		
Longitude	-104.23335		

Monitoring Event Details			
Please answer all the questions in this group.			
Flow rate in cubic meters per day (m³/day)	0.01		
Test duration in hours (hr)	23.5		
Average flow temperature in degrees Celsius (°C)	20.0		
Average gauge flow pressure in kilopascals (kPag)	0.5		
Methane concentration in part per million (ppm)	9,820		
Methane emission rate in grams per hour (g/hr)	0.04		
Testing Method	Steady State		

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