



Test Report

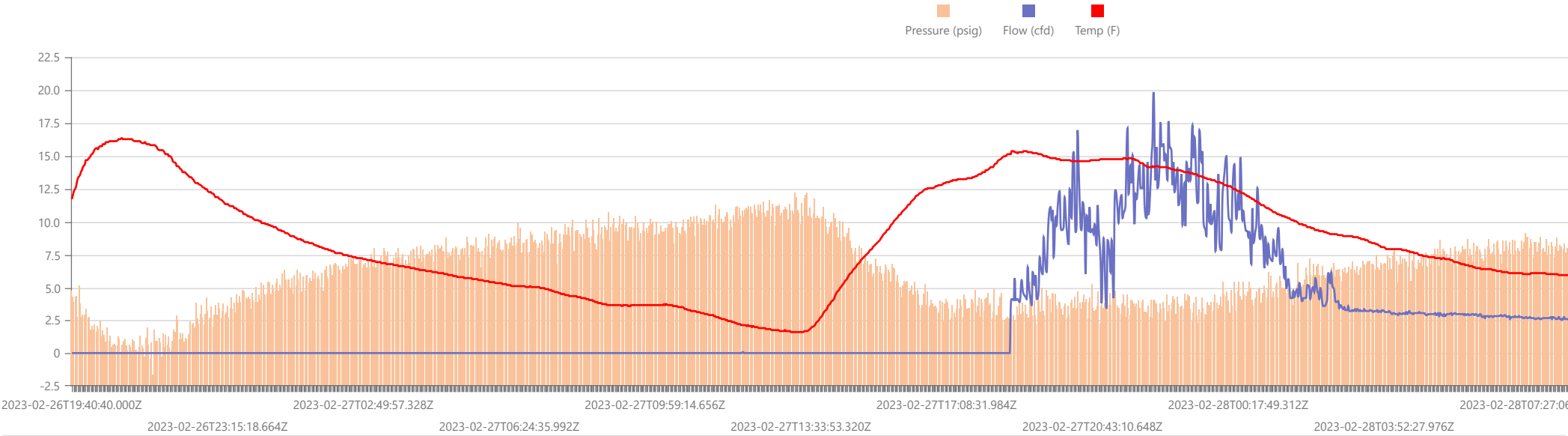
Start Date: Sun Feb 26 2023 19:40:40 GMT+0000 (Coordinated Universal Time) End Date: Tue Feb 28 2023 18:05:15 GMT+0000 (Coordinated Universal Time) Device: VB100-0044 Well Licensee: 30-015-00954 Well Name: Artesia Metex 040 UWI: 30-015-00954 Well License Number: 30-015-00954 Surface Location: State of NM Bottom Hole Location: Unknown	Test Operator: Sean O. Jacobson Authorized By: State of NM Test Reason: I/JA Pre Plugging Scope Of Work: 12 Hour AFE Number: 52100-0000072986 GPS: 32.71930,-104.22683 Notes: GTG Prepared By: Curtis Shuck
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Flow / Pressure Test

Flow Duration 46 hrs 22 minutes <small>Duration</small>	Average Flowrate 2.8636 <small>cfd</small>	Average Pressure 0.7118 <small>psig</small>	Average Flow Temperature 54.6386 <small>°F</small>	Average CH4 Mass 0.01 g/hr
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Methane Calculation: 717 grams CH4 per cubic meter (717 g/m³ x 0.0811 m³/day = 58.15 g/day total /24 = 2.42 g/hour x 0.005 (methane concentration) = **0.01 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	2023-06-27	ces: WDF Measure 1 on location to take site photos, perform Field Gas Analysis and collect gas sample for Laboratory analysis post plugging. Non-detect. All clear to cut and place monument prior to backfill. WILDCAT OUT!
2	2023-04-03	ces: On location to collect a gas Sample for Lab analysis.
3	2023-03-11	Arrived 11:35am 3/11/2023. Rigged down flow test. SP VB #16
4	2023-03-10	Arrived 12:31pm 3/10/2023. Rigged up flow test. SP VB #44
5	2023-02-28	Arrived 11:04am 2/28/2023. Rigged down flow test.
6	2023-02-26	Arrived 12:26pm 2/26/2023. Rigged up Ventbuster #44 for flow testing.





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575.397.3713 2609 W Marland Hobbs NM 88240

C6+ Gas Analysis Report

16531G	Artesia Meter #040	Artesia Meter #040	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2023066623	Tedlar Bag	CES - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Apr 3, 2023 18:50	Apr 3, 2023 18:50	Apr 5, 2023 14:39	Apr 10, 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)	97.6590	97.659	
CO2 (CO2)	0.0000	0	
Methane (C1)	0.5000	0.5	
Ethane (C2)	0.0630	0.063	0.0170
Propane (C3)	0.0660	0.066	0.0180
I-Butane (IC4)	0.0110	0.011	0.0040
N-Butane (NC4)	0.0390	0.039	0.0120
I-Pentane (IC5)	0.0270	0.027	0.0100
N-Pentane (NC5)	0.0410	0.041	0.0150
Hexanes Plus (C6+)	1.5940	1.594	0.6920
TOTAL	100.0000	100.0000	0.7680

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:	Feb 13, 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
94.2	93.6	94.4	93.8

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
1.0032	1.0031
Molecular Weight	
29.0494	

C6+ Group Properties		
Assumed Composition		
C6 - 60.000%	C7 - 30.000%	C8 - 10.000%

Field H2S
0 PPM

PROTREND STATUS:

Passed By Validator on Apr 11, 2023

DATA SOURCE:

Imported

PASSED BY VALIDATOR REASON:

First sample taken @ this point, composition looks reasonable

VALIDATOR:

Rush

VALIDATOR COMMENTS:

OK

Source	Date	Notes
	Apr 11, 2023 8:29 am	Methane = 5,000 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 295382

DEFINITIONS

Operator: CANYON E & P COMPANY 251 O'Connor Ridge Blvd. Irving, TX 75038	OGRID: 269864
	Action Number: 295382
	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	[269864] CANYON E & P COMPANY
[API] Well Name and Number	[30-015-00954] ARTESIA METEX UNIT #040
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	02/26/2023
Latitude	32.71930
Longitude	-104.22683

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)	46.2
Average flow temperature in degrees Celsius (°C)	19.0
Average gauge flow pressure in kilopascals (kPag)	0.7
Methane concentration in part per million (ppm)	5,000
Methane emission rate in grams per hour (g/hr)	0.01
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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