



Test Report

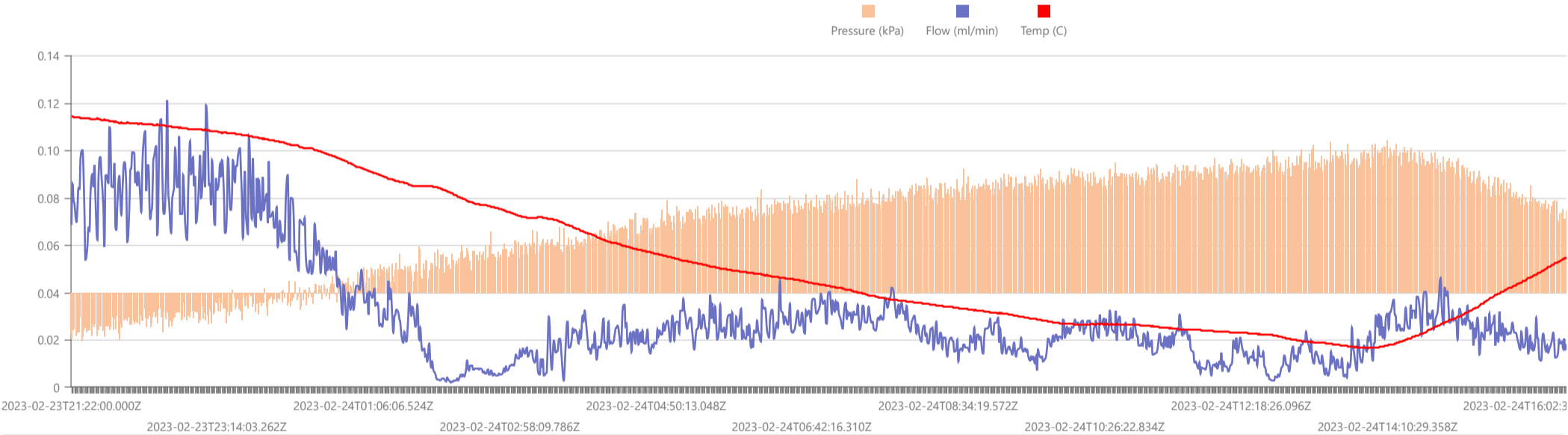
<div>Start Date: Thu Feb 23 2023 21:22:00 GMT+0000 (Coordinated Universal Time)</div> <div>End Date: Fri Feb 24 2023 19:57:58 GMT+0000 (Coordinated Universal Time)</div> <div>Device: VB100-0040</div> <div>Well Licensee: 30-005-60817</div> <div>Well Name: Barknet 001</div> <div>UWI: 30-005-60817</div> <div>Well License Number: 30-005-60817</div> <div>Surface Location: State of NM</div> <div>Bottom Hole Location: Unknown</div>	<div>Test Operator: Sean O. Jacobson</div> <div>Authorized By: State of NM</div> <div>Test Reason: IJJA Pre Plugging</div> <div>Scope Of Work: 12 Hour</div> <div>AFE Number: 52100-0000072998</div> <div>GPS: 33.63362,-104.03390</div> <div>Notes: GTG</div> <div>Prepared By: Curtis Shuck, QMS</div>
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Flow / Pressure Test

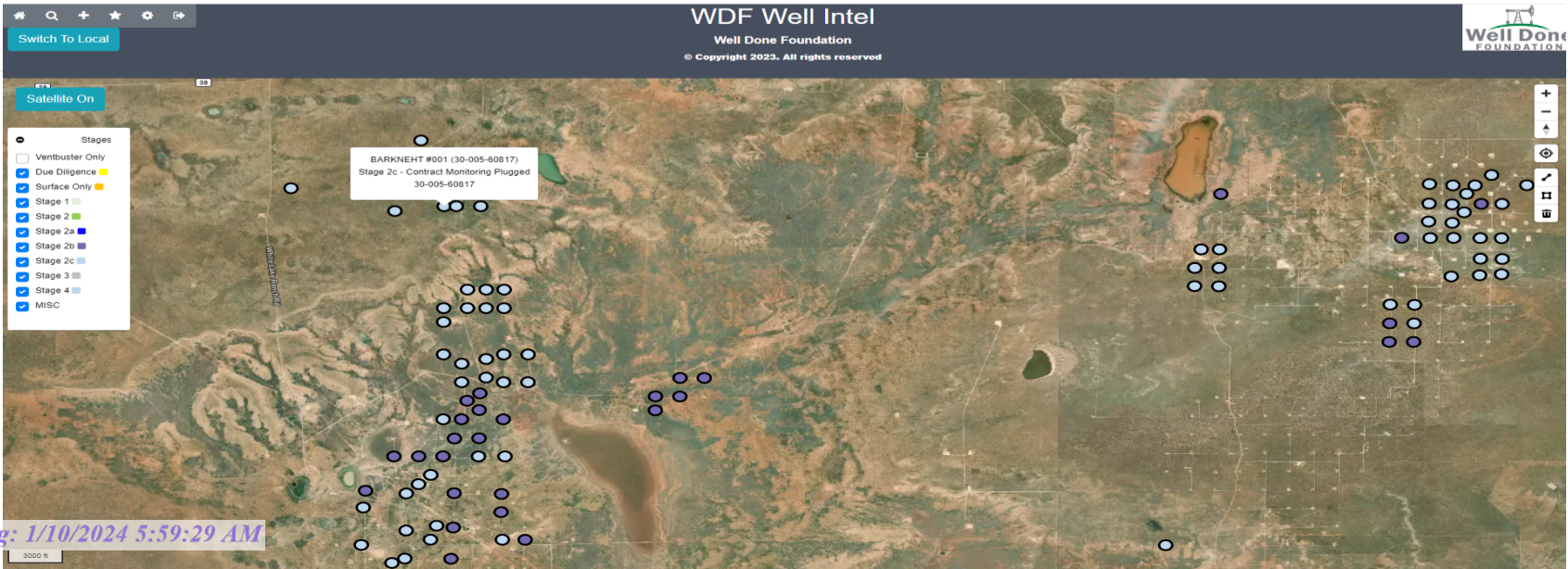
<div>Flow Duration</div> <div>22 hrs 35 minutes</div> <div>Duration</div>	<div>Average Flowrate</div> <div>0.0282</div> <div>m3/d</div>	<div>Average Pressure</div> <div>2.6357</div> <div>kPag</div>	<div>Average Flow Temperature</div> <div>9.8864</div> <div>°C</div>	<div>Average CH4 Mass</div> <div>0.00 g/hr</div>
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**Methane Calculation:** 717 grams CH4 per cubic meter (717 g/m³ x 0.0282 m³/day = 20.22 g/day total /24 = 0.84 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/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	2023-03-08	Arrived 12:55pm 3/8/2023. Rigged down flow test and collected Dorothy. VB #16
2	2023-03-07	Arrived 2:41pm 3/7/2023. Transported Dorothy to well via SxS. Dug in and sealed with surrounding earth. Rigged up flow test. SP. VB #16
3	2023-03-07	Took Toto to well and dug in/sealed with surrounding earth.
4	2023-02-24	Arrived 12:30pm 2/24/2023. Rigged down flow test.
5	2023-02-23	Arrived 1:25pm 2/23/2023. Rigged up Ventbuster #40 for flow testing.







16099G	Barknet #001 Pre Plug	Barknet #001	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2023064662	Tedlar Bag	S.O. Jacobson - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Feb 23, 2023	Feb 23, 2023	Feb 27, 2023 10:54	Mar 1, 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)	99.7110	99.711	
CO2 (CO2)	0.0630	0.063	
Methane (C1)	0.0000	0	
Ethane (C2)	0.0370	0.037	0.0100
Propane (C3)	0.0240	0.024	0.0070
I-Butane (IC4)	0.0000	0	0.0000
N-Butane (NC4)	0.0000	0	0.0000
I-Pentane (IC5)	0.0000	0	0.0000
N-Pentane (NC5)	0.0000	0	0.0000
Hexanes Plus (C6+)	0.1650	0.165	0.0720
TOTAL	100.0000	100.0000	0.0890

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
9.7	10.4	9.7	10.4

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
0.9714	0.9715
Molecular Weight	
28.1356	

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

Field H2S
0 PPM

**PROTREND STATUS:**  
 Passed By Validator on Mar 3, 2023

**DATA SOURCE:**  
 Imported

**PASSED BY VALIDATOR REASON:**  
 Close enough to be considered reasonable.

**VALIDATOR:**  
 Luis Cano

**VALIDATOR COMMENTS:**  
 OK

Source	Date	Notes
Luis Cano	Mar 3, 2023 8:00 am	Methane: 0 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 301894

DEFINITIONS

Operator: CANYON E & P COMPANY 251 O'Connor Ridge Blvd. Irving, TX 75038	OGRID: 269864
	Action Number: 301894
	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 301894

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QUESTIONS

Prerequisites	
[OGRID] Well Operator	[269864] CANYON E & P COMPANY
[API] Well Name and Number	[30-005-60817] BARKNEHT #001
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	02/23/2023
Latitude	33.63362
Longitude	-104.03390

Monitoring Event Details	
Please answer all the questions in this group.	
Flow rate in cubic meters per day (m³/day)	0.02
Test duration in hours (hr)	22.5
Average flow temperature in degrees Celsius (°C)	9.8
Average gauge flow pressure in kilopascals (kPag)	2.6
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