Regeived by OCD: 1/10/2024 5:55:31 AM intel_data_client intel_data_client



Test Report

Start Date: Thu Feb 23 2023 21:22:00 GMT+0000 (Coordinated Universal Time)
End Date: Fri Feb 24 2023 19:57:58 GMT+0000 (Coordinated Universal Time)
Proving: VB100-0040

Device: VB100-0040 Well Licensee: 30-005-60817 Well Name: Barknet 001 UWI: 30-005-60817

Well License Number: 30-005-60817 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: 52100-0000072998 GPS: 33.63362,-104.03390 Notes: GTG

Prepared By: Curtis Shuck, QMS

°C

Flow / Pressure Test

Released to Imaging: 1/10/2024 5:59:29 AM

Flow Duration
22 hrs 35 minutes

22 hrs 35 minutes

Average Flowrate 0.0282

m3/d

Average Pressure 2.6357 kPag Average Flow Temperature 9.8864

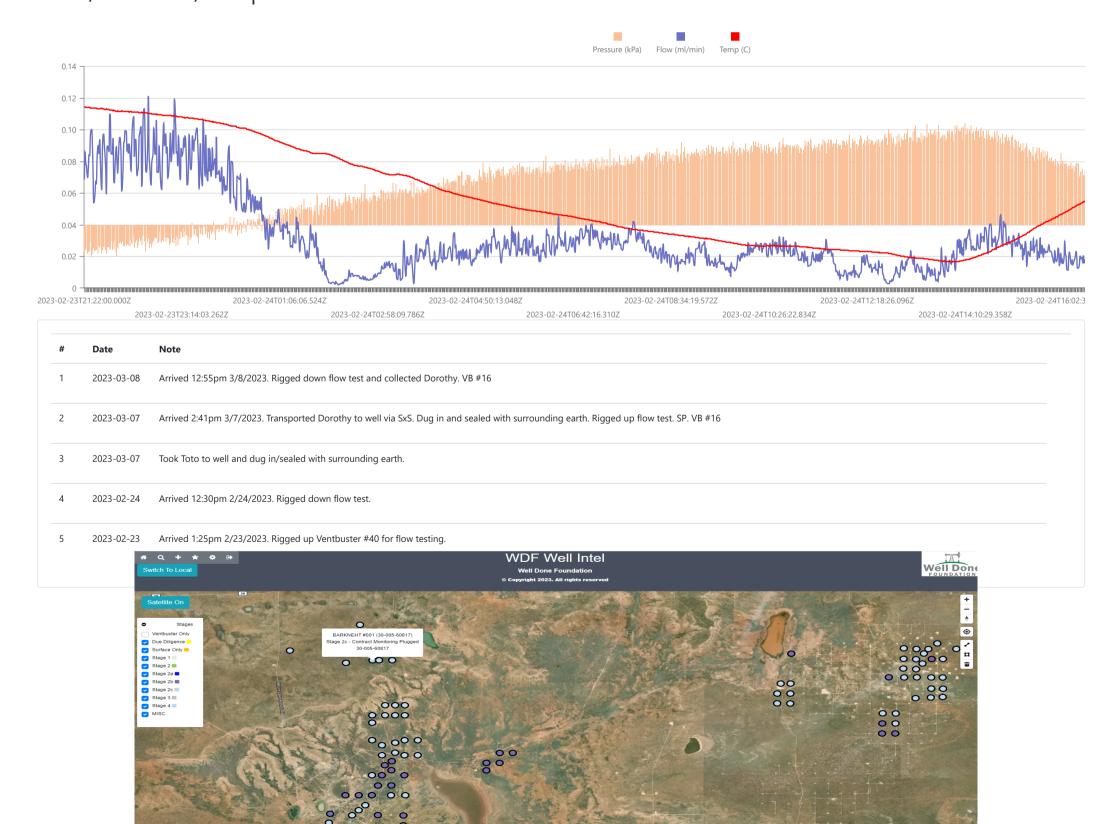
0.00 g/hr

Average CH4 Mass

1/2

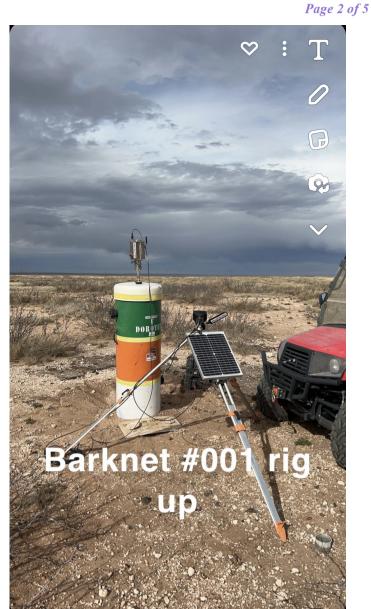
Methane Calculation: 717 grams CH4 per cubic meter (717 g/m 3 x 0.0282 m 3 /day = 20.22 g/day total /24 = 0.84 g/hour x 0 (methane concentration) = **0.00** g/hour CH4). **Methane, gas** weighs 0.000717 gram per cubic centimeter or 0.717 kilgram per cubic meter, i.e. density of methane, gas is equal to 0.717 kg/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









Well Done Foundation

www.permianls.com 575.397.3713 2609 W Marland Hobbs NM 88240

C6+ Gas Analysis Report February 23, 2023

Evening

Barknet	Barknet #0	001	
Sample Poir	Sample Point Name		cation
2022054552	Tadlan Dan	CO Jasahaan Caa	
2023064662	rediar Bag	S.O. Jacobson - Spo	στ
Lab File No	Container Identity	Sampler	
	Sample Poii 2023064662	2023064662 Tedlar Bag	Sample Point Name Sample Point Lo 2023064662 Tedlar Bag S.O. Jacobson - Spo

USA USA USA New Mexico Feb 23, 2023 Feb 23, 2023 Feb 27, 2023 10:54 Mar 1, 2023 Date Sampled Date Effective

Ambient Temp (°F) Press PSI @ Temp °F

	Night
- Spot	Morning
0	Day

+63° +57°

Hourly forecast for 23.02.2023

Atmospheric conditions and temperature °F

🗀 +41°

+34°

+28° 26.2 ▲ NW 4.9 +63° 26.3 +57° 26.4

RealFeel °F

+37°

Atmospheric pressure inHg

26.1

▼ sw 25.7 20% ▲ s 11.9 28%

Humidity

47%

55%

Wind speed mph

∢ sw 6.9

Lab Source Description

Gross Heating Values (Real, BTU/ft³)

·			
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

Luis Cano

	Analyz		
Device Type: Device Model:	Gas Chromatograph GC-2014	Device Make: Last Cal Date:	Shimadzu Feb 13, 2023
Source	Date	Notes	

Mar 3, 2023 8:00 am Methane: 0 PPM

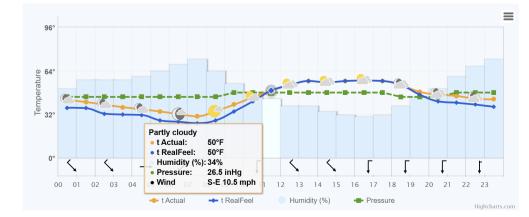
14.696 PSI (14.696 PSI @ 60.00 °F		PSI @ 60.00 °F
Dry	Saturated	Dry	Saturated
9.7	10.4	9.7	10.4
C	alculated Total S	ample Prop	erties
	GPA2145-16 *Calculated	at Contract Con	ditions
Relative De	ensity Real	Relat	tive Density Ideal
0.9	714		0.9715
	Molecular Weight		
28.1	.356		
C6+ Group Properties Assumed Composition			
C6 - 60.000°	C6 - 60.000% C7 - 30.000% C8 - 10.000%		
	Field H2S		
	0 PF	PM	
PROTREND STATUS: Passed By Validator on Mar 3, 2023 Imported			
PASSED BY VALIDATE Close enough to be		sonable.	

VALIDATOR COMMENTS: ___ ок

t Actual: Humidity (%): 20%
Pressure: 26.3 inHg
Wind S-W 25.7 mph Wind 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 → t RealFeel Humidity (%)

February 24, 2023

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	• +41°	+37°	26.4	▲ ≈ 7.6	45%
Morning	(+30°	+25°	26.4	∢ E 5.8	57%
Day	← +57°	+57°	26.5	► SE 9.8	30%
Evening	€ +48°	+46°	26.4	▲ s 6	35%





16099G		Barknet #001 Pre Plug Barknet #			net #001		
Sample Point Coo	de	Sample Point Name				Sample F	Point Location
Laborato	ry Services	2023064	662	Tedlar Bag	S	S.O. Jacobson	- Spot
Source I	Laboratory	Lab File I	No —	Container Identity		Sampler	
USA		USA		USA		New Mexico	
District		Area Name	_	Field Name		Facility Nam	ne
Feb 23,	2023	Feb	23, 2023	Feb	27, 2023 10:54	M	lar 1, 2023
Date Sar	mpled	Date	e Effective		Date Received	D	ate Reported
		System Admir	nistrator				
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	:	Press PSI @ Temp Source Condition			
Well Done I	Foundation					NG	
Oper	ator	-				_ab Source Descr	iption
Component	Normalized	Un-Normalized	GPM		Gross Heating Valu	es (Real, BTL	J/ft³)
Component	Mol %	Mol %	GPIM	⊣ ∣	SI @ 60.00 °F		SI @ 60.00 °F
H2S (H2S)	0.0000	0		Dry 9.7	Saturated 10.4	Dry 9.7	Saturated 10.4
Nitrogen (N2)	99.7110	99.711			Calculated Total S		
CO2 (CO2)	0.0630	0.063			GPA2145-16 *Calculated		
Methane (C1)	0.0000	0			Density Real		e Density Ideal 0.9715
Ethane (C2)	0.0370	0.037	0.0100		ular Weight	,).9/15
Propane (C3)	0.0240	0.024	0.0070	28	3.1356		
I-Butane (IC4)	0.0000	0	0.0000	-	C6+ Group	Properties	
N-Butane (NC4)	0.0000	0	0.0000	C6 - 60.00	Assumed Co	•	C9 10 0000/
, ,	0.0000	0	0.0000	<u> </u>	00% C7 - 30.		C8 - 10.000%
I-Pentane (IC5)		· ·		- 	0 Pl		
N-Pentane (NC5)	0.0000	0	0.0000	- 			
Hexanes Plus (C6+	0.1650	0.165	0.0720	PROTREND STATE			SOURCE:
TOTAL	100.0000	100.0000	0.0890	Passed By Valid	ator on Mar 3, 202	23 Impor	ted
Method(s): Gas C6+ - GPA 2261, E	Extended Gas - GPA 2286, Calcu	lations - GPA 2172			be considered rea	sonable.	
	Analyzer Inform	ation		VALIDATOR:			
l ''		ce Make: Shimadz		Luis Cano VALIDATOR COM	MENTS:		
Device Model: GC-201	4 Last	Cal Date: Feb 13, 3	2023	OK			
Source	Date	Notes					
Luis Cano Ma	ar 3, 2023 8:00 am	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 301894

DEFINITIONS

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

District III

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QUESTIONS

Action 301894

QUESTIONS

Operator:	OGRID:
CANYON E & P COMPANY	269864
251 O'Connor Ridge Blvd.	Action Number:
Irving, TX 75038	301894
	Action Type:
	[UF-OMA] Pre-Plug Methane Monitoring (UF-OMA-MMA)

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