



Test Report

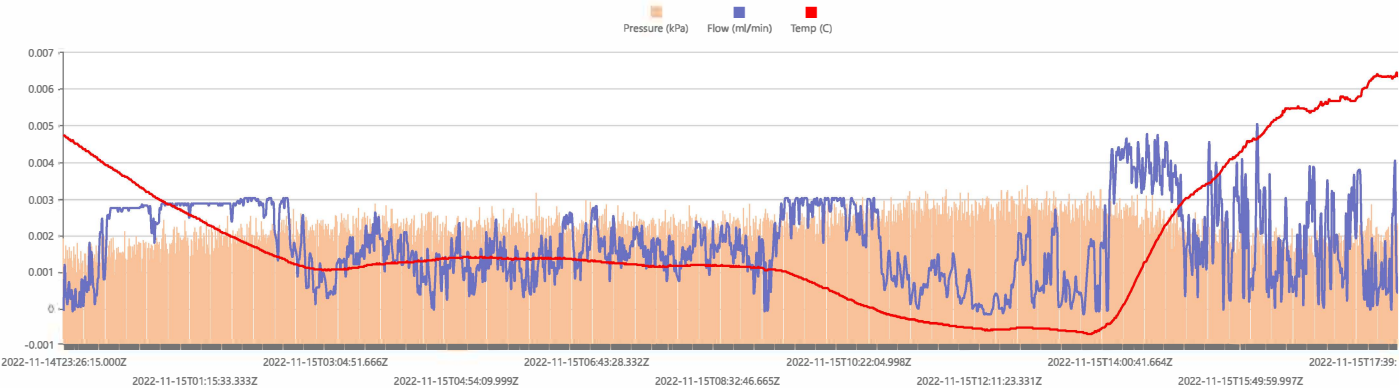
Start Date: Mon Nov 14 2022 23:26:15 GMT+0000 (Coordinated Universal Time) End Date: Tue Nov 15 2022 18:02:34 GMT+0000 (Coordinated Universal Time) Device: VB100-0044 Well Licensee: NMOCD Well Name: Double L Queen Unit #02P UWI: 30-005-20337 Well License Number: 30-005-20337 Surface Location: Bogle Bottom Hole Location: unknown	Test Operator: f.v Authorized By: NMOCD Test Reason: IJA PRE PLUG Scope Of Work: 12-Hour AFE Number: 52100-00000072370 / APWS22.001 GPS: 33.04777,-103.96353 Notes: Tubing Flow Monitoring Prepared By: Curtis Shuck, QMS
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Flow / Pressure Test

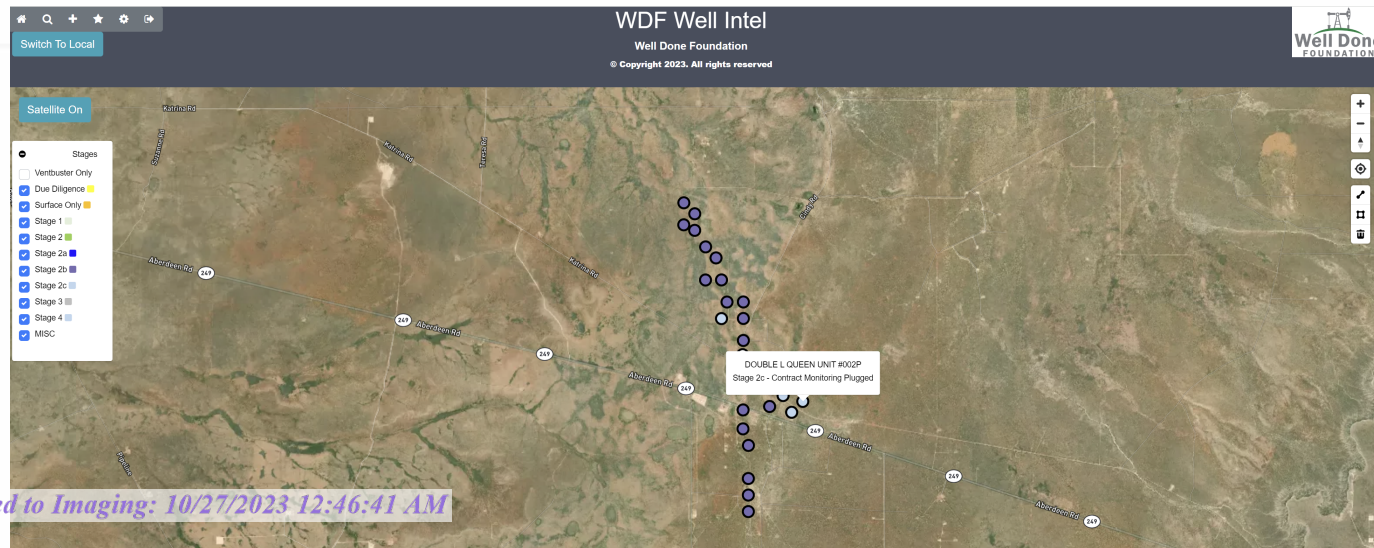
Flow Duration 18 hrs 35 minutes Duration	Average Flowrate 0.0018 m3/d	Average Pressure 6.4950 kPag	Average Flow Temperature 1.9317 °C	Average CH4 Mass 0.01 g/hr
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**Methane Calculation:** 717 grams CH4 per cubic meter (717 g/m<sup>3</sup> x 0.0018 m<sup>3</sup>/day = 1.29 g/day total /24 = 0.05 g/hour x 0.10792 (methane concentration) = **0.01 g/hour CH4**). **Methane, gas** weighs 0.000717 gram per cubic centimeter or 0.717 kilogram per cubic meter, i.e. density of methane, gas is equal to 0.717 kg/m<sup>3</sup>; 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<sup>3</sup>], or 0.0004144 ounce per cubic inch [oz/inch<sup>3</sup>].

Flow / Pressure / Temperature Timeseries







#	Date	Note
1	2023-09-22	ces: On location for post plugging methane quantification. Field Gas is non-detectable. Collect gas sample for lab analysis. Rig up Semtech High Flow. Cement is ~4' 2" from top of wellhead. Place Green Ribbon. Take site photos. WILDCAT OUT!
2	2022-11-14	CES: WDF Measure 1 on site. Photos. GPS update. Gas Sample. Rig up CB100-44 for a 12-hour test.









## November 14, 2022

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	 +39°	+32°	29.8	▲ S 12.8	60%
Morning	 +37°	+27°	30	▼ N 25.9	70%
Day	 +46°	+39°	30.1	▼ N 18.1	42%
Evening	 +39°	+34°	30.2	◀ E 7.2	56%

## November 15, 2022

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	 +30°	+25°	30.2	▼ SE 6.5	69%
Morning	 +27°	+27°	30.3	▼ SE 2.5	74%
Day	 +46°	+45°	30.3	▼ SE 5.4	34%
Evening	 +37°	+32°	30.3	▲ S 7.4	48%



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## C6+ Gas Analysis Report

15338G	Double L Queen #02 Pre Plug		Double L Queen #02P
Sample Point Code	Sample Point Name		Sample Point Location
Laboratory Services	2022060362	Tedlar Bag	FV - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Nov 14, 2022 14:51	Nov 14, 2022 14:51	Nov 18, 2022 07:37	Nov 18, 2022
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)	78.1080	78.108	
CO2 (CO2)	0.0620	0.062	
Methane (C1)	10.7920	10.792	
Ethane (C2)	3.2950	3.295	0.8810
Propane (C3)	3.5710	3.571	0.9840
I-Butane (IC4)	0.6480	0.648	0.2120
N-Butane (NC4)	1.6020	1.602	0.5050
I-Pentane (IC5)	0.4520	0.452	0.1650
N-Pentane (NC5)	0.4300	0.43	0.1560
Hexanes Plus (C6+)	1.0400	1.04	0.4510
TOTAL	100.0000	100.0000	3.3540

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:	Sep 26, 2022

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
420.7	414.3	421.7	415.3

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
1.0062	1.0054
Molecular Weight	
29.1180	

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

Field H2S
2 PPM

**PROTREND STATUS:** Passed By Validator on Nov 18, 2022  
**DATA SOURCE:** Imported

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

**VALIDATOR:**  
Luis Cano  
**VALIDATOR COMMENTS:**  
OK

Source	Date	Notes
Luis Cano	Nov 18, 2022 4:13 pm	Methane: 107,920 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 280016

DEFINITIONS

Operator: CANYON E & P COMPANY 251 O'Connor Ridge Blvd. Irving, TX 75038	OGRID: 269864
	Action Number: 280016
	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 280016

**QUESTIONS**

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	Action Number: 280016
	Action Type: [UF-OMA] Pre-Plug Methane Monitoring (UF-OMA-MMA)

**QUESTIONS**

<b>Prerequisites</b>	
[OGRID] Well Operator	[269864] CANYON E & P COMPANY
[API] Well Name and Number	[30-005-20337] DOUBLE L QUEEN UNIT #002P
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	11/14/2022
Latitude	33.04777
Longitude	-103.96353

**Monitoring Event Details**

Please answer all the questions in this group.

Flow rate in cubic meters per day (m³/day)	0.00
Test duration in hours (hr)	18.5
Average flow temperature in degrees Celsius (°C)	1.9
Average gauge flow pressure in kilopascals (kPag)	6.5
Methane concentration in part per million (ppm)	107,920
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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