



Pre Plugging Test Report

Start Date: Thursday, November 17th, 2022, 12:30 PM MST
End Date: Friday, November 18th, 2022, 2:02 PM MST
Device: VB100-0044
Well Licensee: NMOCD
Well Name: Double L Queen #01R
UWI: 30-005-60117
Well License Number: 30-005-60117
Surface Location: Chaves County - Bogle
Bottom Hole Location: unknown

Test Operator: Francis Vernwald
Authorized By: nmocd
Test Reason: IJJA Pre Plug
Scope Of Work: 12-hr
AFE Number: NMOCD0038AA / APWS22.001
GPS: 33.03233,-103.97414
Notes: GTG - Monitoring casing flow

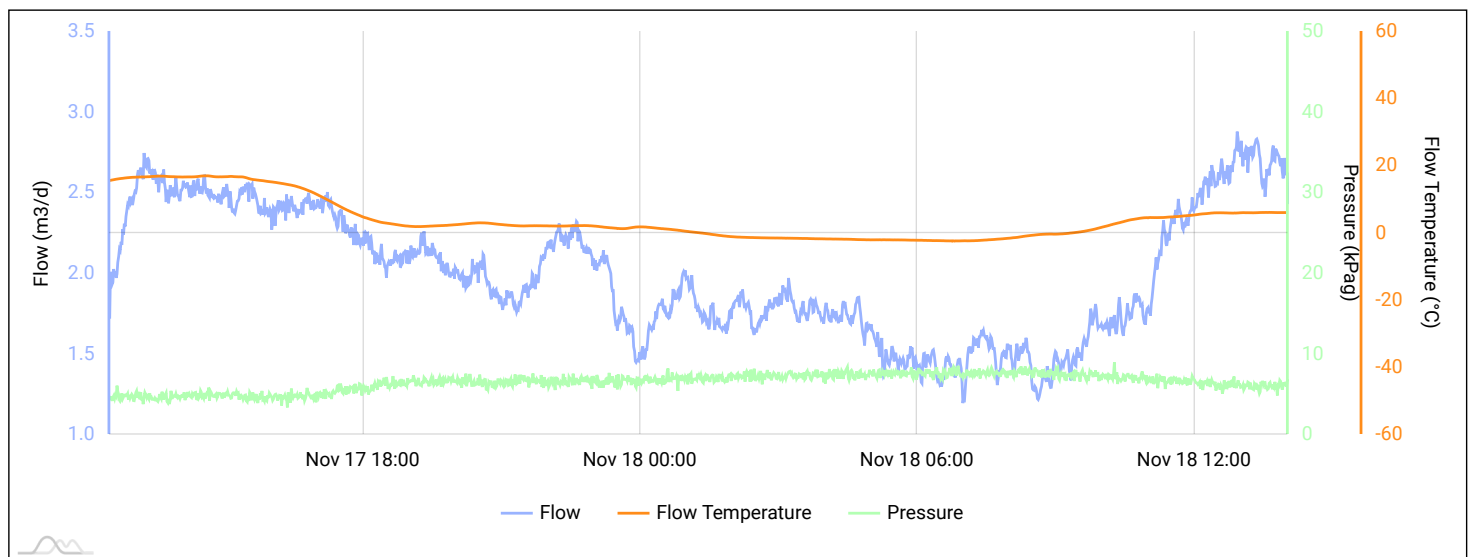
Orphan Well Flow Test

Average Flowrate 2.00 m3/d	Average Flow Temperature 4.1 °C	Average Flow Pressure 6.5 kPag	Flow Duration 25.5 hours	Methane Concentration 34,750 ppm Total Explosive Gas 39,620 ppm	Methane Emissions 1.60 g/ hour
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Methane Calculations

- ¹ Methane Calculation: 554 grams CH₄ per cubic meter (554 x 2.00 m3/day = 1,108.00 g/day total / 24 = 46.16 g/hour x 0.034750 (methane concentration) = **1.60 g/hour CH₄**). **Methane, gas** weighs 0.000554 gram per cubic centimeter or 0.554 kilogram per cubic meter, i.e. density of methane, gas is equal to 0.554 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 0.0346 pound per cubic foot [lb/ft³], or 0.0003202 ounce per cubic inch [oz/inch³].

Flow/Pressure/Temperature Timeseries



Field Notes

Well Done

FOUNDATION

Well Site

Info

Well File

Images

Well Data

Regulatory

Field Notes

Live Data View

Access

Remove Well

Date

01/15/2023

New Note

Required

Add

#	Date	Note
1	2022-11-17	ces: On location with WDF #measure1 team at DLQ_01R. Update GPS coordinates. Take site photos. Collect gas sample for Lab analysis. Rig up VB100-044 for a 12-hour methane flow test.
2	2022-11-18	FV: return to DLQ_01R to collect gas sample 2 and rig down VB100-044. Secure location. WILDCAT OUT!



DLQ #01R - North View



DLQ #01R - East View



DLQ #01R - West View



15367G	Double L Queen #01R		Double L Queen #01R
Sample Point Code	Sample Point Name		Sample Point Location
Laboratory Services	2022060525	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 17, 2022 12:13	Nov 17, 2022 12:13	Nov 22, 2022 14:53	Nov 23, 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)	96.0110	96.01	
CO2 (CO2)	0.0270	0.027	
Methane (C1)	3.4750	3.475	
Ethane (C2)	0.1500	0.15	0.0400
Propane (C3)	0.0480	0.048	0.0130
I-Butane (IC4)	0.0000	0	0.0000
N-Butane (NC4)	0.0130	0.013	0.0040
I-Pentane (IC5)	0.0000	0	0.0000
N-Pentane (NC5)	0.0000	0	0.0000
Hexanes Plus (C6+)	0.2760	0.276	0.1200
TOTAL	100.0000	99.9990	0.1770

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
53.7	53.7	53.8	53.8

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
0.9597	0.9597
Molecular Weight	
27.7963	

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

Field H2S
0 PPM

PROTREND STATUS: Passed By Validator on Nov 23, 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 23, 2022 2:26 pm	Methane: 34,750 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 302417

DEFINITIONS

Operator: CANYON E & P COMPANY 251 O'Connor Ridge Blvd. Irving, TX 75038	OGRID: 269864
	Action Number: 302417
	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	[30-005-60117] DOUBLE L QUEEN UNIT #001R
Well Status	Reclamation Fund Approved

Monitoring Event Information*Please answer all the questions in this group.*

Reason For Filing	Pre-Plug Methane Monitoring
Date of monitoring	11/17/2022
Latitude	33.03233
Longitude	-103.97414

Monitoring Event Details*Please answer all the questions in this group.*

Flow rate in cubic meters per day (m³/day)	2.00
Test duration in hours (hr)	25.5
Average flow temperature in degrees Celsius (°C)	4.1
Average gauge flow pressure in kilopascals (kPag)	6.5
Methane concentration in part per million (ppm)	34,750
Methane emission rate in grams per hour (g/hr)	1.60
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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