Pre Plugging Test Report

Start Date: Wednesday, November 16th, 2022, 3:26 PM MST
End Date: Thursday, November 17th, 2022, 11:28 AM MST
Device: VB100-0029
Well Licensee: NMOCD
Well Name: Double L Queen #01D
UWI: 30-005-60146
Well License Number: 30-005-60146
Surface Location: Chaves County - Bogle
Bottom Hole Location: unknown

Test Operator: Francis Vernwald
Authorized By: NMOCD
Test Reason: IIJA PRE PLUG
Scope Of Work: 12-hr
AFE Number: NMOCD0038AA / APWS22.001
GPS: 33.03502,-103.97419
Notes: GTG _ Monitoring tubing flow

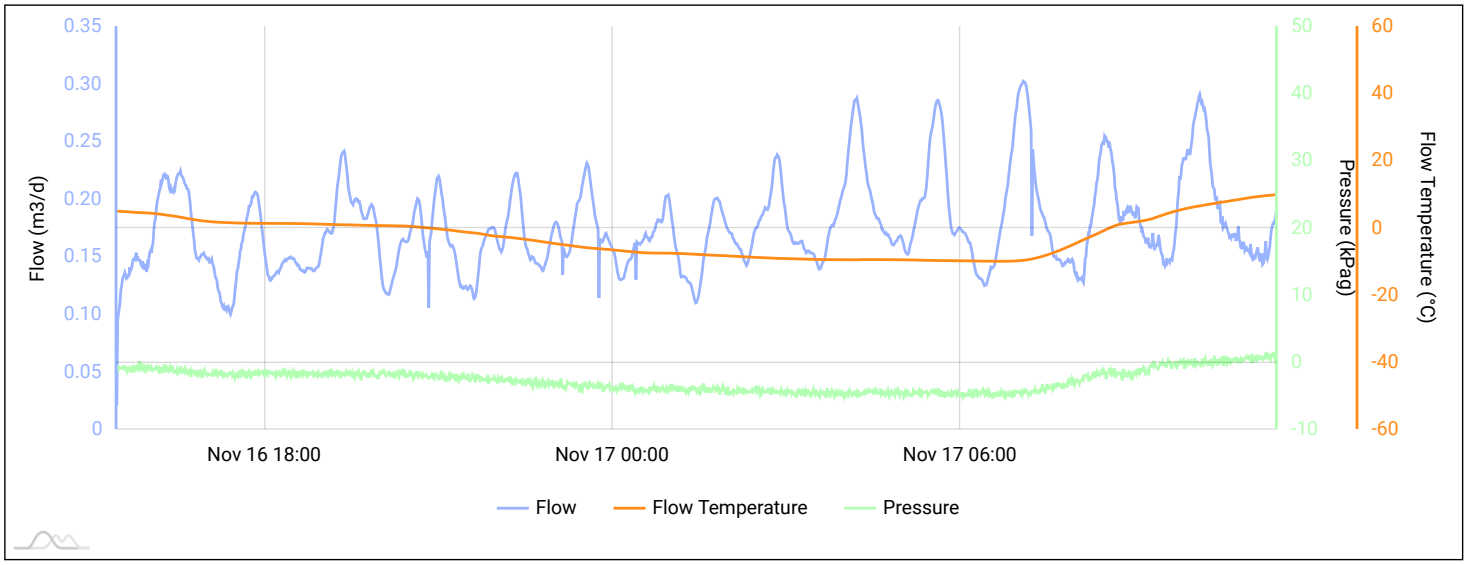
Orphan Well Flow Test

Average Flowrate	Average Flow Temperature	Average Flow Pressure	Flow Duration	Methane Concentration	Methane Emissions
0.18 m3/d	**-2.7** °C	**-2.7** kPag	**20.0** hours	**96,730** ppm Total Explosive Gas **230,880** ppm	**0.40** grams/hour

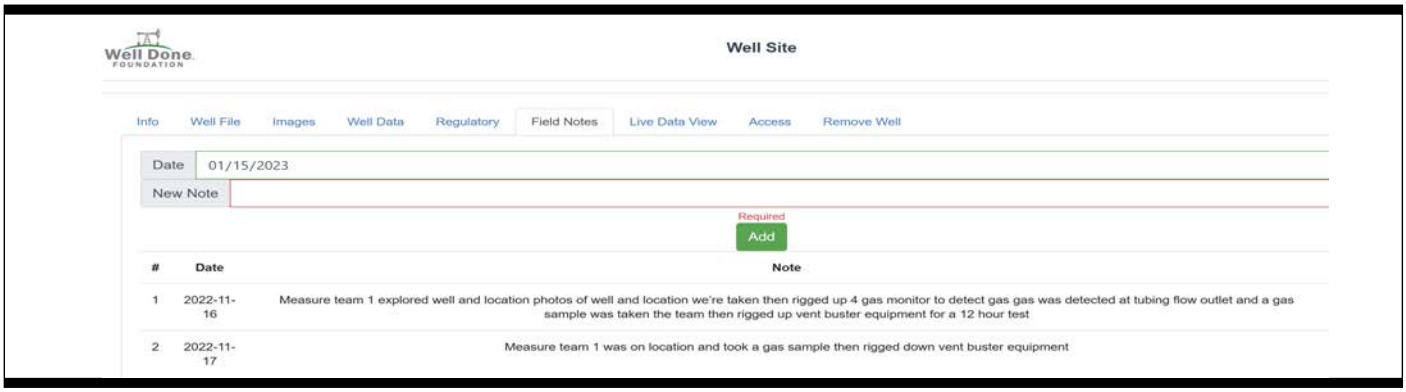
Methane Calculations

- [1] Methane Calculation: 554 grams CH4 per cubic meter (554 x 0.18 m3/day = 99.72 g/day total /24 = 4.15 g/hour x 0.096730 (methane concentration) = **0.40 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/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 0.0346 *pound per cubic foot* [lb/ft^3], or 0.0003202 *ounce per cubic inch* [oz/inch^3] .

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	2022-11-16	Measure team 1 explored well and location photos of well and location we're taken then rigged up 4 gas monitor to detect gas gas was detected at tubing flow outlet and a gas sample was taken the team then rigged up vent buster equipment for a 12 hour test
2	2022-11-17	Measure team 1 was on location and took a gas sample then rigged down vent buster equipment

DLQ #01D - North Facing

DLQ #01D - East Facing

DLQ #01D - South Facing

LABORATORY SERVICES Natural Gas Analysis
www.permianls.com
575.397.3713 2609 W Marland Hobbs NM 88240

C6+ Gas Analysis Report

15370G	Double L Queen #01D	Double L Queen #01D
Sample Point Code	Sample Point Name	Sample Point Location

Laboratory Services	2022060540	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 16, 2022 15:00	Nov 16, 2022 15:00	Nov 23, 2022 08:52	Nov 23, 2022
Date Sampled	Date Effective	Date Received	Date Reported

		Torrance	
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)	76.8850	76.88573	
CO2 (CO2)	0.0270	0.02654	
Methane (C1)	9.6730	9.67251	
Ethane (C2)	7.2660	7.26602	1.9430
Propane (C3)	3.2960	3.29569	0.9080
I-Butane (IC4)	0.3600	0.35986	0.1180
N-Butane (NC4)	0.7420	0.7419	0.2340
I-Pentane (IC5)	0.2180	0.21808	0.0800
N-Pentane (NC5)	0.2180	0.21822	0.0790
Hexanes Plus (C6+)	1.3150	1.31546	0.5700
TOTAL	100.0000	100.0000	3.9320

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

Gross Heating Values (Real, BTU/ft³)

14.696 PSI @ 60.00 Â°F		14.73 PSI @ 60.00 Â°F	
Dry	Saturated	Dry	Saturated
431.5	425.1	432.5	426.1

Calculated Total Sample Properties

GPA2145-16 *Calculated at Contract Conditions

Relative Density Real	Relative Density Ideal
0.9993	0.9984

Molecular Weight: 28.9205

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 23, 2022

DATA SOURCE:
Imported

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

VALIDATOR:
Luis Cano

VALIDATOR COMMENTS:
ok

Analyzer Information

Device Type:	Gas Chromatograph	Device Make:	Shimadzu
Device Model:	GC-2014	Last Cal Date:	Sep 26, 2022

Source	Date	Notes
Luis Cano	Nov 23, 2022 2:36 pm	Methane: 96,730 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

Operator: CANYON E & P COMPANY 251 O'Connor Ridge Blvd. Irving, TX 75038	OGRID: 269864
	Action Number: 302416
	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 302416

QUESTIONS

Operator: CANYON E & P COMPANY 251 O'Connor Ridge Blvd. Irving, TX 75038	OGRID: 269864
	Action Number: 302416
	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	**[30-005-60146] DOUBLE L QUEEN UNIT #001D**
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	11/16/2022
Latitude	33.03502
Longitude	-103.97419

Monitoring Event Details *Please answer all the questions in this group.*	
Flow rate in cubic meters per day (m^3/day)	0.18
Test duration in hours (hr)	20.0
Average flow temperature in degrees Celsius (°C)	-2.7
Average gauge flow pressure in kilopascals (kPag)	-2.7
Methane concentration in part per million (ppm)	96,730
Methane emission rate in grams per hour (g/hr)	0.40
Testing Method	Steady State

Monitoring Contractor *Please answer all the questions in this group.*	
Name of monitoring contractor	Well Done New Mexico LLC