Pre Plugging Test Report

Start Date: Wednesday, August 24th, 2022, 2:58 PM MDT
End Date: Thursday, August 25th, 2022, 11:42 AM MDT
Device: VB100-0035
Well Licensee: NMOCD
Well Name: Twin Lakes SA 65-F
UWI: 30-005-60293
Well License Number: 30-005-60293
Surface Location: private
Bottom Hole Location: unknown

Test Operator: ces
Authorized By: NMOCD
Test Reason: IIJA PRE PLUG
Scope Of Work: 12-Hour
AFE Number: NMOCD038AA / APWS22.001
GPS: 33.563826,-104.0430933
Notes: GTG

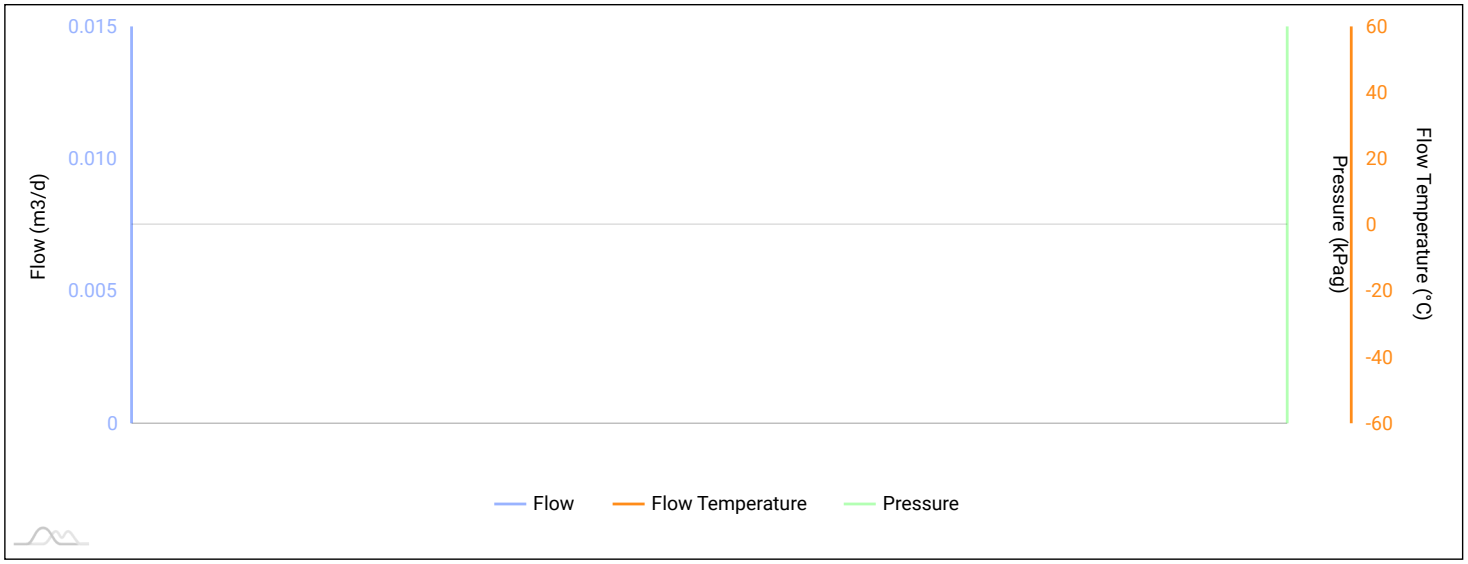
Orphan Well Flow Test

Average Flowrate	Average Flow Temperature	Average Flow Pressure	Flow Duration	Methane Concentration	Methane Emission
0.00	**24.0**	**1.3**	**19.8** hours	**0** ppm Total Explosive Gas **940** ppm	**0.0** g/hour

Methane Calculations

- [1] Methane Calculation: 717 grams CH4 per cubic meter (717 x 0.00 m3/day = 0.00 g/day total /24 = 0.00 g/hour x 0.00 (methane concentration) = **0.00 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^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 0.044 *pound per cubic foot* [lb/ft^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 04/23/2023

New Note

Required

Add

#	Date	Note
1	2022-08-25	Rig down VB100-035. Secure well. Set green flag. Wildcat out!
2	2022-08-24	ces: Rig up VB100-035. Pull gas sample for lab analysis. Update GPS.

Site Photos

Wellhead

Methane Monitoring

Weather Observations

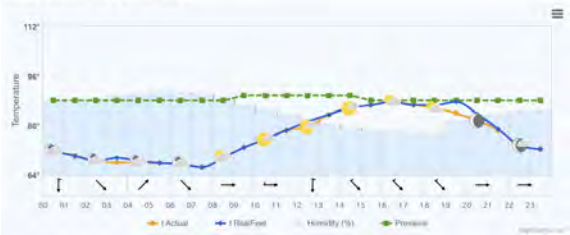
August 24, 2022

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	+70°	+70°	26.5	SE 6	73%
Morning	+66°	+66°	26.5	NE 5.8	82%
Day	+84°	+84°	26.6	SE 6.7	51%
Evening	+84°	+88°	26.5	NE 4.9	55%

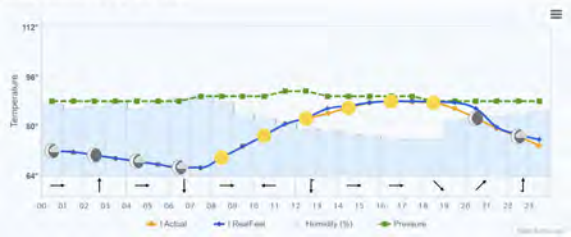
August 25, 2022

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	+72°	+72°	26.5	N 4.7	67%
Morning	+66°	+66°	26.6	NW 3.4	81%
Day	+84°	+86°	26.6	SE 5.1	45%
Evening	+86°	+88°	26.5	NE 5.4	56%

Hourly forecast for 24.08.2022



Hourly forecast for 25.08.2022



Ventbuster Instruments Inc. Disclaimer:

The Ventbuster® is a high precision atmospheric vent gas meter. Since it is deployed into testing scenarios and conditions beyond our control, we are not liable for, or make warranties, as to the resultant test information. Any decisions, interpretations, or conclusions made from the test results are the sole responsibility and discretion of the User.

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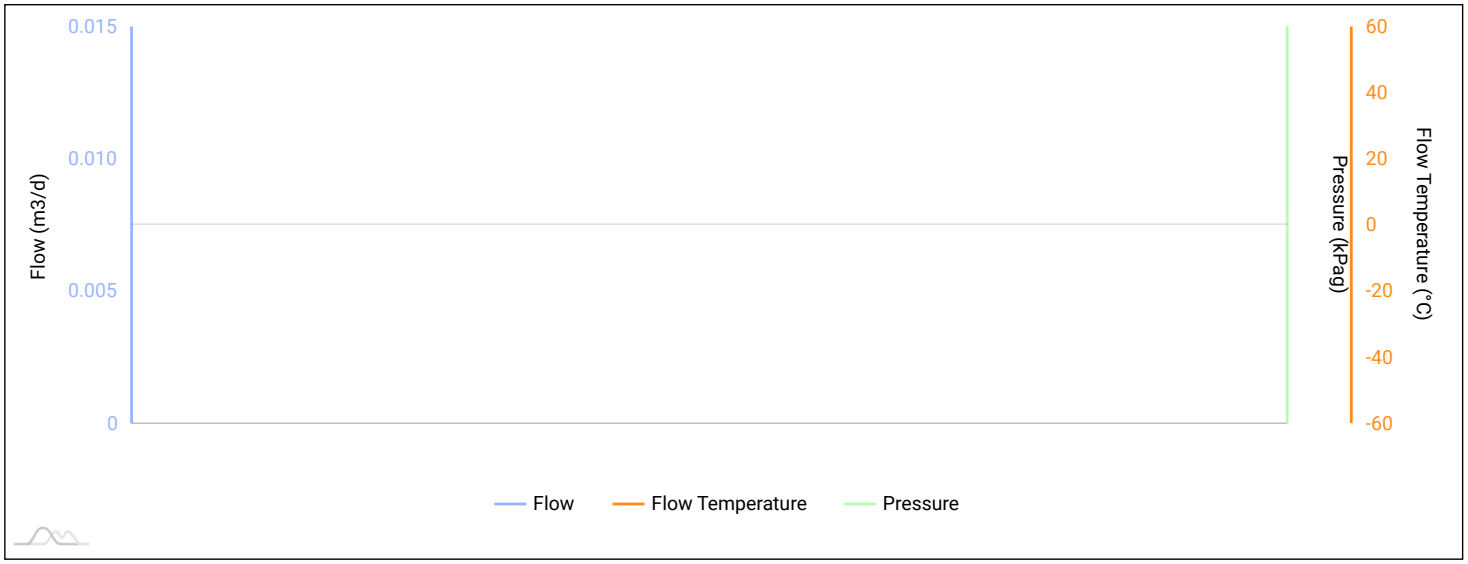

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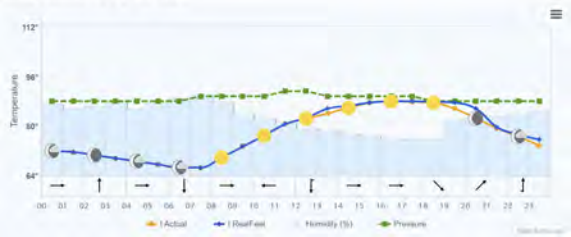

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LABORATORY SERVICES Natural Gas Analysis
www.permianls.com
575.397.3713 2609 W Marland Hobbs NM 88240

C6+ Gas Analysis Report

Sample Point Code	Sample Point Name	Sample Point Location
14789G	Twin Lakes #65	Twin Lakes #65

Source Laboratory	Lab File No	Container Identity	Sampler
Laboratory Services	2022057480	Tedlar Bag	Stacy - Spot

District	Area Name	Field Name	Facility Name
USA	USA	USA	Default

Date Sampled	Date Effective	Date Received	Date Reported
Aug 24, 2022 14:15	Aug 24, 2022 14:15	Aug 30, 2022 08:24	Aug 30, 2022

Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	Press PSI @ Temp °F Source Conditions
		Torrance	

Operator	Lab Source Description
Well Done Foundation	NG

Component	Mol %	GPM
H2S (H2S)	0.0000	
Nitrogen (N2)	99.8030	
CO2 (CO2)	0.1030	
Methane (C1)	0.0000	
Ethane (C2)	0.0250	0.0070
Propane (C3)	0.0000	0.0000
I-Butane (IC4)	0.0000	0.0000
N-Butane (NC4)	0.0000	0.0000
I-Pentane (IC5)	0.0000	0.0000
N-Pentane (NC5)	0.0060	0.0020
Hexanes Plus (C6+)	0.0630	0.0270
TOTAL	100.0000	0.0360

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
3.9	4.7	3.9	4.7

Calculated Total Sample Properties

GPA2145-16 *Calculated at Contract Conditions

Relative Density Real	Relative Density Ideal
0.9692	0.9693

Molecular Weight
28.0741

C6+ Group Properties

Assumed Composition

C6 - 60.000% C7 - 30.000% C8 - 10.000%

Field H2S
0 PPM

PROTREND STATUS:
Passed By Validator on Aug 31, 2022

DATA SOURCE:
Imported

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

VALIDATOR:
Luis Cano

VALIDATOR COMMENTS:
ok

Source	Date	Notes
Brooke Rush	Aug 31, 2022 11:10 am	Methane= N/D

Released to Imaging: 4/23/2023 12:04:08 PM

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:	OGRID:
BLUE SKY NM, INC. 7941 Katy Freeway Houston, TX 77024	300825
	Action Number: 209905
	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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Energy, Minerals and Natural Resources
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QUESTIONS

Action 209905

QUESTIONS

Operator: BLUE SKY NM, INC. 7941 Katy Freeway Houston, TX 77024	OGRID: 300825
	Action Number: 209905
	Action Type: [UF-OMA] Pre-Plug Methane Monitoring (UF-OMA-MMA)

QUESTIONS

Prerequisites	
[OGRID] Well Operator	**[300825] BLUE SKY NM, INC.**
[API] Well Name and Number	**[30-005-60293] TWIN LAKES SAN ANDRES UNIT #065**
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	08/24/2022
Latitude	33.563826
Longitude	-104.0430933

Monitoring Event Details *Please answer all the questions in this group.*	
Flow rate in cubic meters per day (m^3/day)	0.00
Test duration in hours (hr)	19.8
Average flow temperature in degrees Celsius (°C)	24.0
Average gauge flow pressure in kilopascals (kPag)	1.3
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