



Test Report

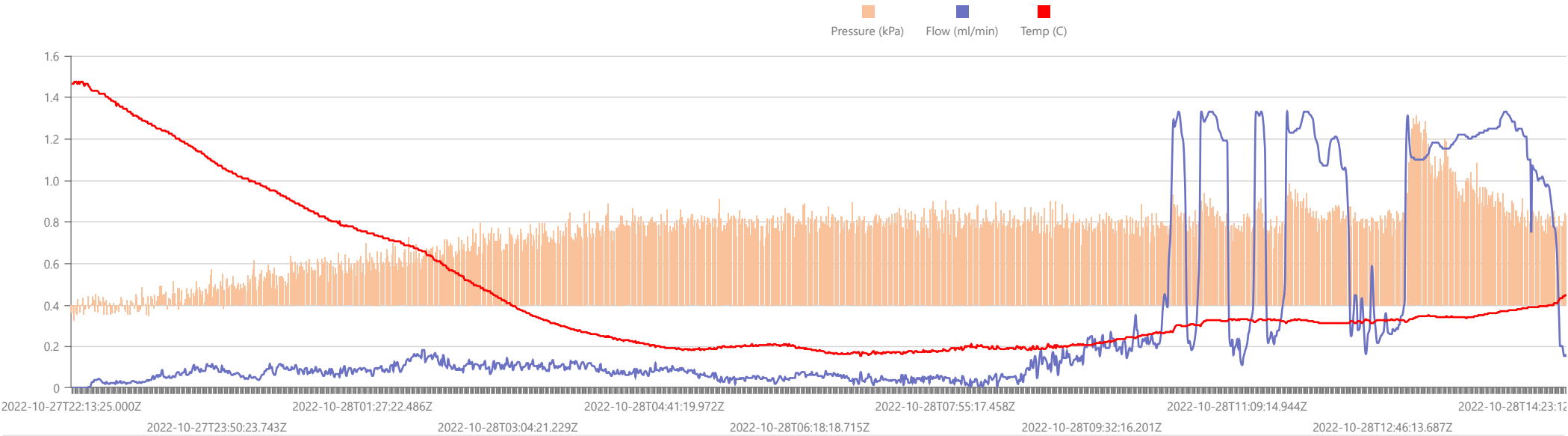
Start Date: Thu Oct 27 2022 22:13:25 GMT+0000 (Coordinated Universal Time) End Date: Fri Oct 28 2022 17:46:57 GMT+0000 (Coordinated Universal Time) Device: VB100-0005 Well Licensee: NMOCD Well Name: jp collier 4y UWI: 30-025-22133 Well License Number: 30-025-22133 Surface Location: collier Bottom Hole Location: unknown	Test Operator: fv Authorized By: NMOCD Test Reason: IJJA Scope Of Work: 12-Hour AFE Number: NMOCD038AA GPS: 33.38211,-103.60000 Notes: Unknown Prepared By: Curtis Shuck, QMS
--	--

Flow / Pressure Test

Flow Duration 19 hrs 32 minutes Duration	Average Flowrate 0.2904 m3/d	Average Pressure 3.2851 kPag	Average Flow Temperature 11.1964 °C	Average CH4 Mass 0.02 g/hr
--	------------------------------------	------------------------------------	---	-------------------------------

Methane Calculation: 717 grams CH4 per cubic meter (717 g/m³ x 0.2904 m³/day = 208.22 g/day total /24 = 8.68 g/hour x 0.00285 (methane concentration) = **0.02 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/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 0.0448 *pound per cubic foot* [lb/ft³], or 0.0004144 *ounce per cubic inch* [oz/inch³].

Flow / Pressure / Temperature Timeseries



#	Date	Note
1	2023-12-18	CES: On location with WDF Measure1 for Post Plug Methane Quantification. Field Gas Analysis resulted in 0% CH4. Collect Gas Sample for Lab. Green Ribbon. Site photos. WILDCAT OUT!
2	2022-10-28	ces: Back on location with WDF Measure1. Stop test and rig down VB100-05. Secure well site. WILDCAT OUT!
3	2022-10-27	ces: On location with WDF Measure1. Update GPS coordinates. Site photos. Perform Field Gas Analysis. 3,000 ppm CH4. Rig up VB100-05 and begin test.





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

C6+ Gas Analysis Report

15185G		J.P. Collier 4Y Pre Plug		J.P. Collier 4Y	
Sample Point Code		Sample Point Name		Sample Point Location	
Laboratory Services		2022059552		Tedlar Bag	
Source Laboratory		Lab File No		Container Identity	
USA		USA		USA	
District		Area Name		Field Name	
Oct 27, 2022 15:45		Oct 27, 2022 15:45		Nov 1, 2022 06:33	
Date Sampled		Date Effective		Date Received	
		Luis			
Ambient Temp (°F)		Flow Rate (Mcf)		Analyst	
				Press PSI @ Temp °F	
				Source Conditions	
Well Done Foundation				NG	

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	99.2050	99.20449	
CO2 (CO2)	0.0610	0.06085	
Methane (C1)	0.2850	0.28548	
Ethane (C2)	0.0590	0.05881	0.0160
Propane (C3)	0.0600	0.06018	0.0170
I-Butane (IC4)	0.0000	0	0.0000
N-Butane (NC4)	0.0420	0.04155	0.0130
I-Pentane (IC5)	0.0130	0.01343	0.0050
N-Pentane (NC5)	0.0140	0.01398	0.0050
Hexanes Plus (C6+)	0.2610	0.26124	0.1130
TOTAL	100.0000	100.0000	0.1690

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 Å°F	14.73 PSI @ 60.00 Å°F		
Dry	Saturated	Dry	Saturated
21.4	21.9	21.4	22.00
Calculated Total Sample Properties			
GPA2145-16 *Calculated at Contract Conditions			
Relative Density Real	Relative Density Ideal		
0.9732	0.9733		
Molecular Weight			
28.1946			
C6+ Group Properties			
Assumed Composition			
C6 - 60.000%	C7 - 30.000%	C8 - 10.000%	
Field H2S			
0.1 PPM			

PROTREND STATUS:
Passed By Validator on Nov 1, 2022

DATA SOURCE:
Imported

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

VALIDATOR:
Luis Cano

VALIDATOR COMMENTS:
OK

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

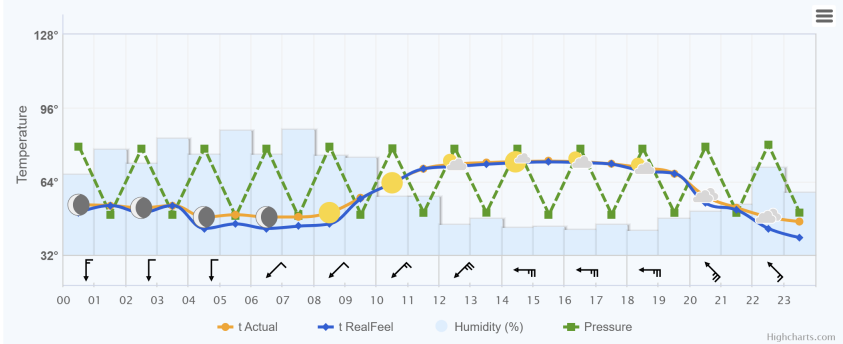
Analyzer Information			
Device Type:	Gas Chromatograph	Device Make:	Shimadzu
Device Model:	GC-2014	Last Cal Date:	Sep 26, 2022

Source	Date	Notes
Luis Cano	Nov 1, 2022 3:56 pm	Methane PPM: 2,850

October 27, 2022

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	☾ +54°	+54°	26.2	↗ S 9.6	72%
Morning	☀ +48°	+45°	26.1	↙ SW 8.3	86%
Day	☀ +72°	+72°	26.3	↙ SW 18.1	25%
Evening	☾ +68°	+68°	26.3	↘ W 15.2	25%

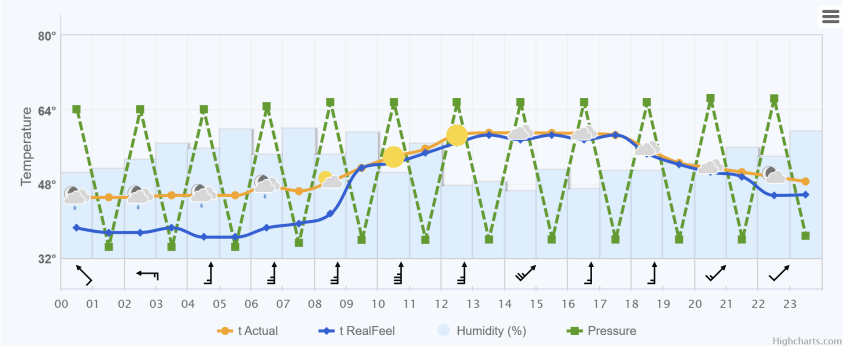
Hourly forecast for 27.10.2022



October 28, 2022

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	☁ +45°	+37°	26.3	↗ NW 13.9	61%
Morning	☁ +46°	+39°	26.4	↘ N 19.5	88%
Day	☁ +59°	+59°	26.5	↘ N 19.7	52%
Evening	☾ +52°	+52°	26.5	↗ NE 12.1	64%

Hourly forecast for 28.10.2022





15185G	J.P. Collier 4Y Pre Plug	J.P. Collier 4Y	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2022059552	Tedlar Bag	Client - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Oct 27, 2022 15:45	Oct 27, 2022 15:45	Nov 1, 2022 06:33	Nov 1, 2022
Date Sampled	Date Effective	Date Received	Date Reported
Luis			
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)	99.2050	99.20449	
CO2 (CO2)	0.0610	0.06085	
Methane (C1)	0.2850	0.28548	
Ethane (C2)	0.0590	0.05881	0.0160
Propane (C3)	0.0600	0.06018	0.0170
I-Butane (IC4)	0.0000	0	0.0000
N-Butane (NC4)	0.0420	0.04155	0.0130
I-Pentane (IC5)	0.0130	0.01343	0.0050
N-Pentane (NC5)	0.0140	0.01398	0.0050
Hexanes Plus (C6+)	0.2610	0.26124	0.1130
TOTAL	100.0000	100.0000	0.1690

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
21.4	21.9	21.4	22.00

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
0.9732	0.9733
Molecular Weight	
28.1946	

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

Field H2S
0.1 PPM

PROTREND STATUS: Passed By Validator on Nov 1, 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 1, 2022 3:56 pm	Methane PPM: 2,850

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 300591

DEFINITIONS

Operator: LEASE HOLDERS ACQUISITIONS, INCORPORATED 705 S Mustang Rd #127 Yukon, OK 73099	OGRID: 372878
	Action Number: 300591
	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 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

QUESTIONS

Action 300591

QUESTIONS

Operator: LEASE HOLDERS ACQUISITIONS, INCORPORATED 705 S Mustang Rd #127 Yukon, OK 73099	OGRID: 372878
	Action Number: 300591
	Action Type: [UF-OMA] Pre-Plug Methane Monitoring (UF-OMA-MMA)

QUESTIONS

Prerequisites	
[OGRID] Well Operator	[372878] LEASE HOLDERS ACQUISITIONS, INCORPORATED
[API] Well Name and Number	[30-025-22133] J P COLLIER #004Y
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	10/27/2022
Latitude	33.38211
Longitude	-103.60000

Monitoring Event Details

Please answer all the questions in this group.

Flow rate in cubic meters per day (m³/day)	0.29
Test duration in hours (hr)	19.5
Average flow temperature in degrees Celsius (°C)	11.1
Average gauge flow pressure in kilopascals (kPag)	3.2
Methane concentration in part per million (ppm)	2,850
Methane emission rate in grams per hour (g/hr)	0.02
Testing Method	Steady State

Monitoring Contractor

Please answer all the questions in this group.

Name of monitoring contractor	Well Done New Mexico LLC
-------------------------------	--------------------------