



Test Report

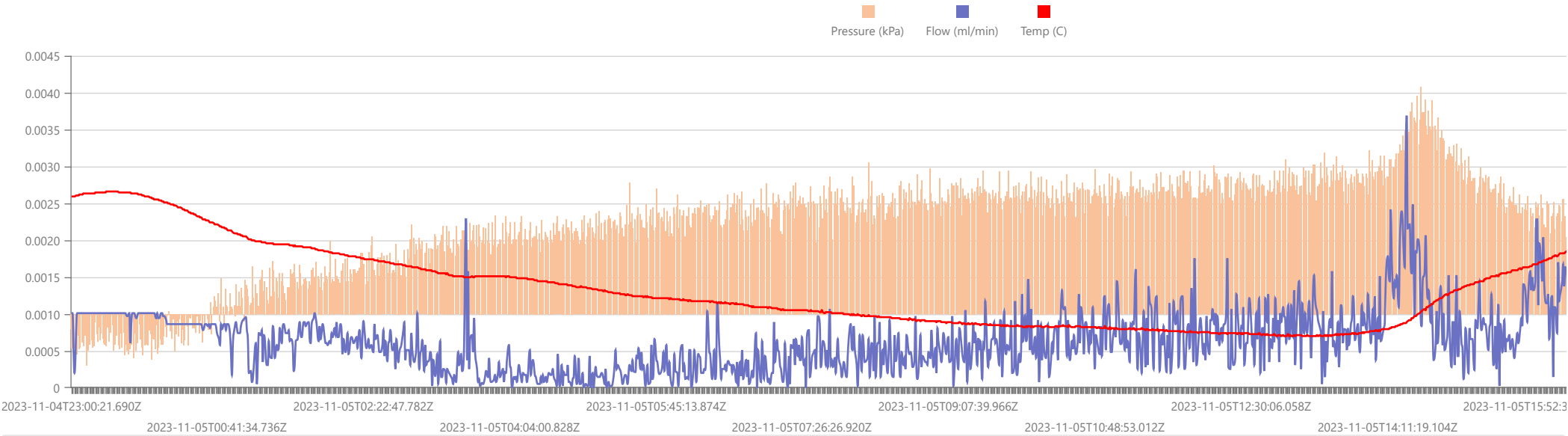
Start Date: Sat Nov 04 2023 23:00:58 GMT+0000 (Coordinated Universal Time) End Date: Sun Nov 05 2023 19:25:48 GMT+0000 (Coordinated Universal Time) Device: VB100-0040 Well Licensee: NMOCD Well Name: Bagley 002 UWI: 30-025-38192 Well License Number: 30-025-38192 Surface Location: State Bottom Hole Location: unknown	Test Operator: CES, QMS Authorized By: NMOCD Test Reason: IJJA PRE PLUG Scope Of Work: 12-hour AFE Number: 72992 GPS: 33.38232,-103.61776 Notes: GTG Prepared By: Curtis Shuck, QMS
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Flow / Pressure Test

Flow Duration 20 hrs 23 minutes Duration	Average Flowrate 0.0006 m3/d	Average Pressure 2.2790 kPag	Average Flow Temperature 14.9605 °C	Average CH4 Mass 0.00 g/hr
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Methane Calculation: 717 grams CH4 per cubic meter (717 g/m³ x 0.0006 m³/day = 0.43 g/day total /24 = 0.02 g/hour x 0.0895 (methane concentration) = **0.00 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 monitoring & sampling. Field gas was non-detect for CH4. Collect gas sample for Lab analysis. Green flag. Site photos.
2	2023-11-05	ces: On location with WDF Measure1. Stop test of VB100-40. Cattle knocked over the Comms Unit and stand. Stop test. Rig down and secure location. Drake Crew on location.
3	2023-11-04	ces: On location with WDF Measure1. Update GPS. Rig up VB100-40 for a 12-hour test ahead of the Drake Crew. Photo documentation. Gas sample. Rig up fluids control.





www.permianis.com
575.397.3713 2609 W Marland Hobbs NM 88240

C6+ Gas Analysis Report

19059G	BAGLEY 002 PRE PLUG	BAGLEY 002	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2023078653	NA	CES - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Nov 4, 2023 17:11	Nov 4, 2023 17:11	Nov 6, 2023 12:43	Nov 20, 2023
Date Sampled	Date Effective	Date Received	Date Reported
Admin			
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)	90.4100	90.41084	
CO2 (CO2)	0.0000	0	
Methane (C1)	8.9550	8.95462	
Ethane (C2)	0.0000	0	0.0000
Propane (C3)	0.0670	0.06654	0.0180
I-Butane (IC4)	0.0000	0	0.0000
N-Butane (NC4)	0.0870	0.08654	0.0270
I-Pentane (IC5)	0.0530	0.05331	0.0190
N-Pentane (NC5)	0.0690	0.06907	0.0250
Hexanes Plus (C6+)	0.3590	0.35907	0.1560
TOTAL	100.0000	100.0000	0.2450

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:	Nov 20, 2023

Source	Date	Notes
Ashley Russell	Nov 21, 2023 2:24 pm	89,550 PPM

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
118.7	117.6	119.000	117.9
Calculated Total Sample Properties			
GPA2145-16 *Calculated at Contract Conditions			
Relative Density Real		Relative Density Ideal	
0.9413		0.9413	
Molecular Weight			
27.2662			
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 21, 2023
DATA SOURCE: Imported
PASSED BY VALIDATOR REASON: First sample taken @ this point, composition looks reasonable
VALIDATOR: Ashley Russell
VALIDATOR COMMENTS: OK

November 04, 2023

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	+52°	+52°	26.4	SW 7.2	78%
Morning	+43°	+39°	26.3	SW 6	76%
Day	+81°	+81°	26.5	W 7.4	13%
Evening	+70°	+70°	26.4	W 6.7	21%

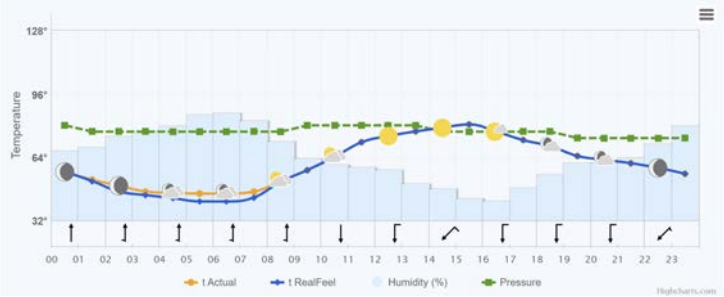
Hourly forecast for 04.11.2023



November 05, 2023

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	+52°	+52°	26.4	N 6.7	58%
Morning	+46°	+43°	26.4	NW 5.4	79%
Day	+77°	+77°	26.5	SW 10.1	29%
Evening	+64°	+64°	26.3	S 9.4	46%

Hourly forecast for 05.11.2023





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VALIDATOR:

Ashley Russell

VALIDATOR COMMENTS:

OK

Source	Date	Notes
Ashley Russell	Nov 21, 2023 2:24 pm	89,550 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 300605

DEFINITIONS

Operator: LEASE HOLDERS ACQUISITIONS, INCORPORATED 705 S Mustang Rd #127 Yukon, OK 73099	OGRID: 372878
	Action Number: 300605
	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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1220 S. St Francis Dr.
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QUESTIONS

Action 300605

QUESTIONS

Operator: LEASE HOLDERS ACQUISITIONS, INCORPORATED 705 S Mustang Rd #127 Yukon, OK 73099	OGRID: 372878
	Action Number: 300605
	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	[30-025-38192] BAGLEY #002
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	11/04/2023
Latitude	33.38232
Longitude	-103.61776

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)	20.4
Average flow temperature in degrees Celsius (°C)	14.9
Average gauge flow pressure in kilopascals (kPag)	2.2
Methane concentration in part per million (ppm)	89,550
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