

26077 (1) August 12, 2022

QUALITY CONTROL DATA

Samples Received: July 15, 2022

Requested By: University of Utah
FORGE

<u>Analyte</u>	<u>Precision (%RSD)</u>	<u>External Standard (% Recovery)</u>	<u>Sample Spike (% Recovery)</u>
Carbon Dioxide	1.5	100.0	105.1
Hydrogen Sulfide	NA	97.1	NA
Ammonia	1.0	102.3	107.1
Nitrogen	0.5	99.6	NA
Methane	1.4	95.1	NA
Hydrogen	NA	96.2	NA

Precision: Percent Relative Standard Deviation of replicate sample analyses.

External Standard: Percent Recovery of an independent audit standard analyzed against calibration standards (measured/known x 100).

Sample Spike: Percent Recovery of a known quantity of standard added to sample (measured/theoretical x 100).

N/A: Not Applicable.



Steven Swasey, Ph.D.
Lab Manager

Distribution:

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Descriptor: 16A(78)-32 Steam 17-Jun-2022
1st batch

Lab Number: 26077-1

Sample Gas/Steam Ratio (ft³/lb): 4.31E-03
Sample Gas/Steam Ratio (moles /10⁶ moles H₂O): 2.16E+02
Sample Gas/Steam Ratio (ppm by Weight): 4.59E+02
Percent Air¹ in Sample: 2.39E+00
STP mls of Air¹ in Sample: 5.57E+00
Total Weight of Condensate (grams): 8.49E+02
Initial Headspace Pressure (psia @ 0 °C): 1.03E+00

Gas	Dry Gas % by Volume	Moles per 10 ⁶ Moles Water	Parts per Million by Weight
Water Vapor	N/A	N/A	1.00E+06
Carbon Dioxide	7.33E+01	1.58E+02	3.86E+02
Hydrogen Sulfide	9.25E-01	2.00E+00	3.77E+00
Ammonia	1.36E+01	2.94E+01	2.78E+01
Argon	1.28E-01	2.75E-01	6.11E-01
Nitrogen	1.20E+01	2.59E+01	4.03E+01
Methane	4.89E-02	1.05E-01	9.39E-02
Hydrogen	<7.33E-02	<1.58E-01	<1.77E-02

1. Air content based on oxygen determination