

Lab #: 818977 Job #: 50208 IS-69033 Co. Job#:
 Sample Name: BW_Warren_50887 Co. Lab#:
 Company: Anadarko
 API/Well:
 Container: IsoFlask
 Field/Site Name: BWSE/GWA_Schrute_Farms_9_1HZ
 Location: NWSW_21_1N_67W
 Formation/Depth: IN
 Sampling Point: 752821
 Date Sampled: 2/17/2022 10:50 Date Received: 2/24/2022 Date Reported: 3/24/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	δD ‰	$\delta^{18}\text{O}$ ‰	Dissolved gas cc/L	Dissolved gas ppm
Carbon Monoxide -----	nd					
Helium -----	na					
Hydrogen -----	nd					
Argon -----	1.17				0.37	0.62
Oxygen -----	3.74					
Nitrogen -----	61.29				17	20
Carbon Dioxide -----	0.87					
Methane -----	32.89	-71.70	-237.2		10	7.0
Ethane -----	0.0390				0.013	0.017
Ethylene -----	nd					
Propane -----	nd				< 0.0002	< 0.0003
Propylene -----	nd					
Iso-butane -----	nd					
N-butane -----	nd					
Iso-pentane -----	nd					
N-pentane -----	nd					
Hexanes + -----	nd					

Remarks:

Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.80

*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen. Insufficient ethane, propane, butane, and pentane concentrations for isotopic analysis.

PO 4500641599

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. All gas component carbon isotope values are reported on a scale defined by a two point calibration of LSVEC and NBS 19. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.