

Lab #: 882533 Job #: 55423 IS-107457 Co. Job#:
 Sample Name: BW_Gildea_264754 Co. Lab#:
 Company: Oxy USA Inc.
 API/Well:
 Container: IsoFlask
 Field/Site Name: BWSE/GWA_Land_Fed_10_29HZ
 Location: SESE_8_2N_66W
 Formation/Depth: IN
 Sampling Point: 708165
 Date Sampled: 7/20/2023 9:59 Date Received: 7/28/2023 Date Reported: 10/10/2023

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 -----	0.719				0.40	0.67
Oxygen -----	2.79					
Nitrogen -----	36.73				18	21
Carbon Dioxide -----	0.57					
Methane -----	59.09	-69.21	-258.0		33	22
Ethane -----	0.0989	-46.6			0.061	0.076
Ethylene -----	nd					
Propane -----	0.0003				0.0002	0.0003
Propylene -----	nd					
Iso-butane -----	nd					
N-butane -----	nd					
Iso-pentane -----	nd					
N-pentane -----	nd					
Hexanes + -----	0.0005					

Remarks:

Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.62

*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.
 4501306724

Ethane isotope data obtained online via GC-IRMS.

Insufficient propane, butane, and pentane concentrations for isotopic analysis.

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. %.