

Lab #: 914333 Job #: 57920 IS-69033 Co. Job#:  
 Sample Name: BW\_Martin\_47218\_F Co. Lab#:  
 Company: Oxy USA Inc.  
 API/Well:  
 Container: IsoFlask  
 Field/Site Name: BWSE/GWA\_Griswold\_27N\_11HZ  
 Location: NWSW\_12\_1N\_66W  
 Formation/Depth: IN  
 Sampling Point: 753954  
 Date Sampled: 3/04/2024 10:18 Date Received: 3/08/2024 Date Reported: 4/19/2024

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{18}\text{O}$ ‰	Dissolved gas cc/L	Dissolved gas ppm
Carbon Monoxide -----	nd					
Helium -----	na					
Hydrogen -----	nd					
Argon -----	0.764				0.36	0.59
Oxygen -----	4.72					
Nitrogen -----	37.98				16	19
Carbon Dioxide -----	0.79					
Methane -----	55.64	-72.57	-260.4		26	17
Ethane -----	0.0934				0.046	0.057
Ethylene -----	nd					
Propane -----	0.0085				0.0040	0.0074
Propylene -----	nd					
Iso-butane -----	0.0005					
N-butane -----	0.0016					
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 = 0.81

\*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.

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. %.