

Table 1. Carbon and hydrogen isotope data from Lost City vents. All isotope values are in ‰ units; $\delta^{13}\text{C}$ is reported as vPDB, and δD as vSMOW.

Sample	Marker	$\delta^{13}\text{C}\text{-CH}_4^*$	$\delta\text{D}\text{-CH}_4^\dagger$	$\delta^{13}\text{C}\text{-C}_2\text{H}_6^\ddagger$	$\delta\text{D}\text{-C}_2\text{H}_6^\S$	$\delta^{13}\text{C}\text{-C}_3\text{H}_8^\ddagger$	$\delta\text{D}\text{-C}_3\text{H}_8^\S$	$\delta^{13}\text{C}\text{-}n\text{-C}_4\text{H}_{10}^\ddagger$
3879-GT10	H	−13.6		−14.9				
3881-GT10	H	−13.2		−14.3				
H04-IGT8	H	−9.5	−119	−15.2	−127	−15.0	−140	
3865-GT7	IF	−12.3	−139	−13.1		−13.9		−13.0
H05-IGT7	IF	−11.8	−147	−13.7	−166	−13.4	−160	
3871-GT15	8	−9.9	−136	−13.3		−14.2		−14.3
3866-GT14	7	−13.2	−125	−14.6		−15.8		−14.9
3871-GT9	C	−12.1	−126	−13.5		−14.2		−13.8
3876-GT7	BH	−11.0	−127	−13.5		−14.5		−14.6
H06-IGT8	BH	−9.4	−131	−14.5	−152	−13.8	−133	
3863-GT7	3	−10.5		−13.9				
H03-IGT7	3	−11.8	−131	−14.3	−151	−14.0	−171	
3872-GT10	6	−11.8		−14.4		−16.0		
H07-IGT7	6	−12.0	−135	−14.9	−138			

* $\delta^{13}\text{C}\text{-CH}_4$ measurement uncertainty $\pm 0.2\text{‰}$. $^\dagger\delta\text{D}\text{-CH}_4$ measurement uncertainty for 2005 samples (H0x-IGTx) $\pm 1.1\text{‰}$, for 2003 samples (38xx-GTx) $\pm 6.5\text{‰}$. $^\ddagger\delta^{13}\text{C}\text{-C}_{2-4}$ measurement uncertainty $\pm 0.3\text{‰}$. $^\S\delta\text{D}\text{-C}_{2-3}$ measurement uncertainty $\pm 4.1\text{‰}$.