

Isotopically Determined Mannville Group Gas Families

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Abstract/Excerpt

Large amounts of natural gas with variable isotopic compositions are produced from the Lower Cretaceous Mannville Group in the WCSB. Our database of carbon isotope analyses of production gas, collected as part of an environmental remediation project, contains 233 gas samples from the Mannville Group. Our goal is to understand the origin, geographic distribution, and degree and mechanism of alteration of Mannville Group gas by examining gas carbon isotope ratios and molecular abundances.