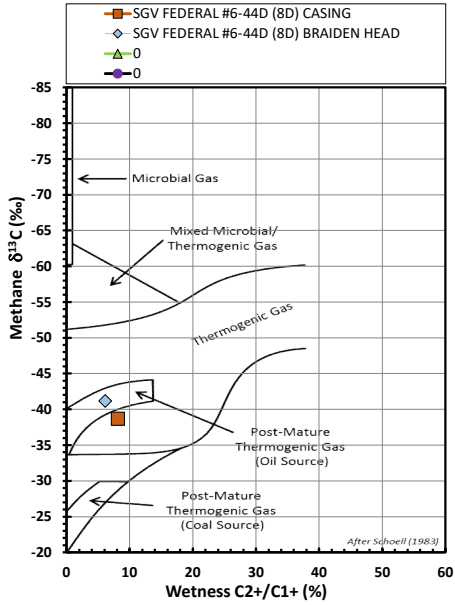
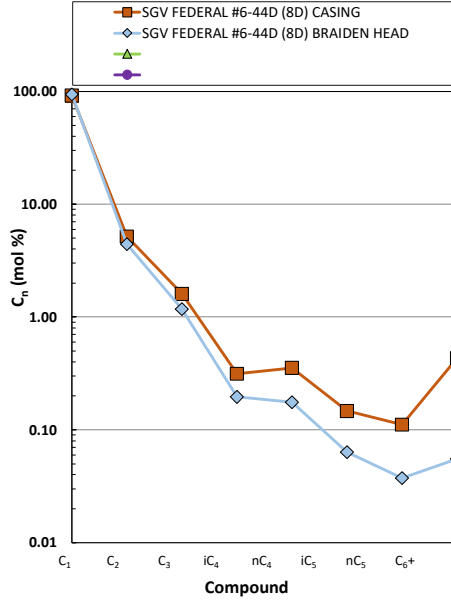




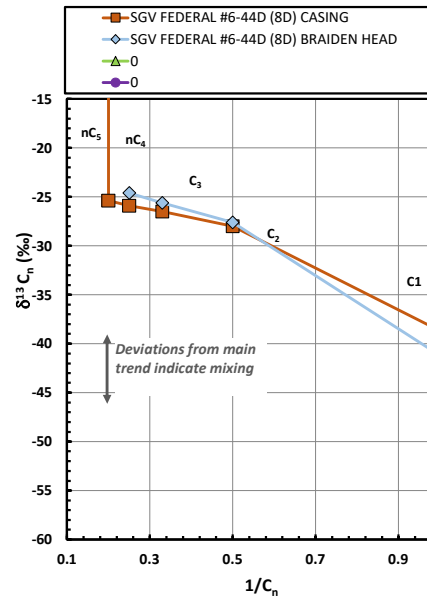
**Methane  $\delta^{13}\text{C}$  vs Wetness Genetic Classification Plot**



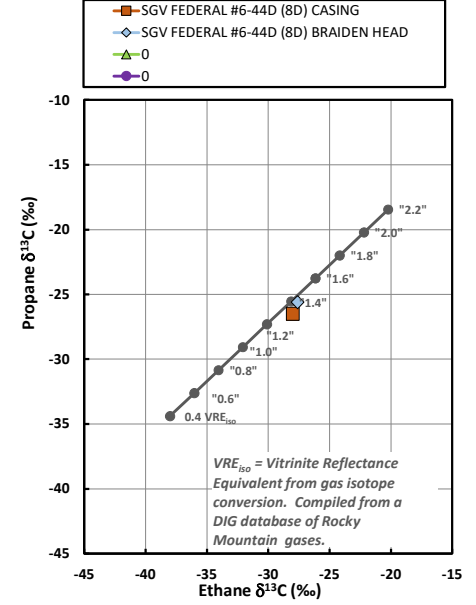
**Hydrocarbon Composition Plot**



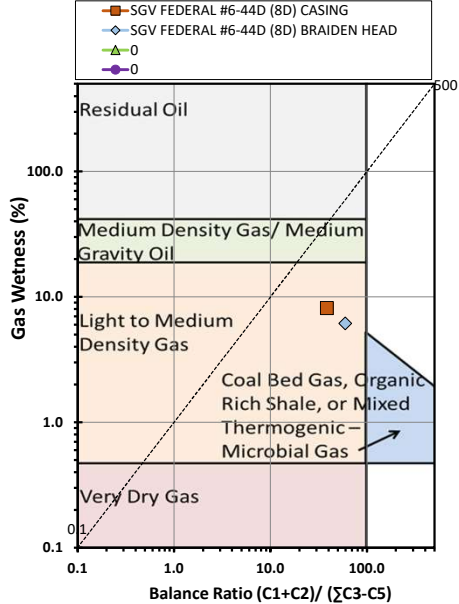
**Mixing Plot**



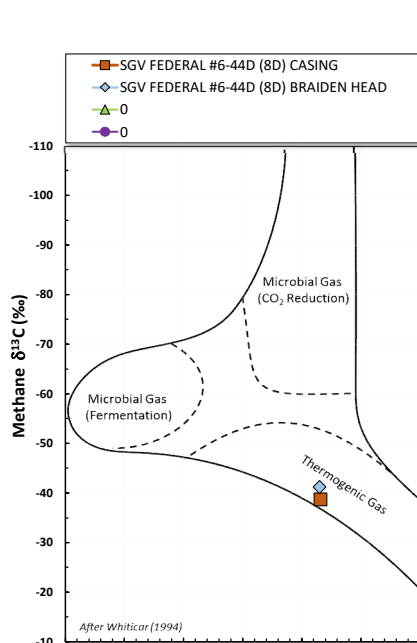
**Ethane - Propane Maturity Plot**



**Haworth Ratio Plot - Characterization of Hydrocarbon Type**



**Methane  $\delta^{13}\text{C}$  vs  $\delta\text{D}$  Genetic Classification Plot**



**Methane  $\delta^{13}\text{C}$  vs C1/(C2+C3) Genetic Classification Plot**

