Texas Carbon - Never, ever draw fivebonds to a carbon. Never, ever.



The Texas star has five points, so we call carbons with five bonds a "Texas carbon" Never, ever draw one!!

$$H_3C$$
 C
 CH_2CH_3
 C
 CH_3
 CH_3

Never do this!!!!

There cannot be five bonds to carbon because there are only four orbitals in the valence shell of carbon (one 2S and three 2P orbitals). There is no fifth orbital available for a fifth bond!