NMR Studies of the pseudogap in BSCCO-2212 J. CROCKER, A.P. DIOGUARDI, N. APROBERTS-WARREN, A.C. SHOCKLEY, UC Davis, H.-J. GRAFE, IFW Dresden, Z. XU, J. WEN, G. GU, BNL, N.J. CURRO, UC Davis — We present O-17 NMR measurements on a single crystal of overdoped BSCCO-2212 ($T_c = 82$K). As a function of temperature we measure the planar oxygen’s: resonance linewidths, Knight shift (K), electronic field gradient (EFG), and spin lattice relaxation rate ($1/T_1$) along each principle axis. Our analysis shows that their temperature dependence can be explained by a suppression of the density of states in the pseudogap region $T < T^* = 94$K.