NMR Force Microscopy on Co/Cu interface YU. OBUKHOV, D. V. PELEKHOV, P. BANERJEE, J. MARTINDALE, K. C. FONG, P. C. HAMMEL — We present our recent NMR Force Microscopy experiments, where we demonstrate the first detection of $^{63}$Cu and $^{65}$Cu NMR using Magnetic Resonance Force Microscopy (MRFM). The signals were detected at $T = 5\,\text{K}$ using a commercial Si$_3$N$_4$ cantilever with a spherical NdFeB probe magnet. We demonstrate MRFM detection sensitivity of $1.0\times10^5$ nuclear spins. We report measurements of the relaxation time, signal lifetime, and the results of nutation experiments. We also discuss the application of NMRFM for spatially resolved mapping of the local hyperfine field variation in the vicinity of a buried Co/Cu interface arising from the RKKY interaction.