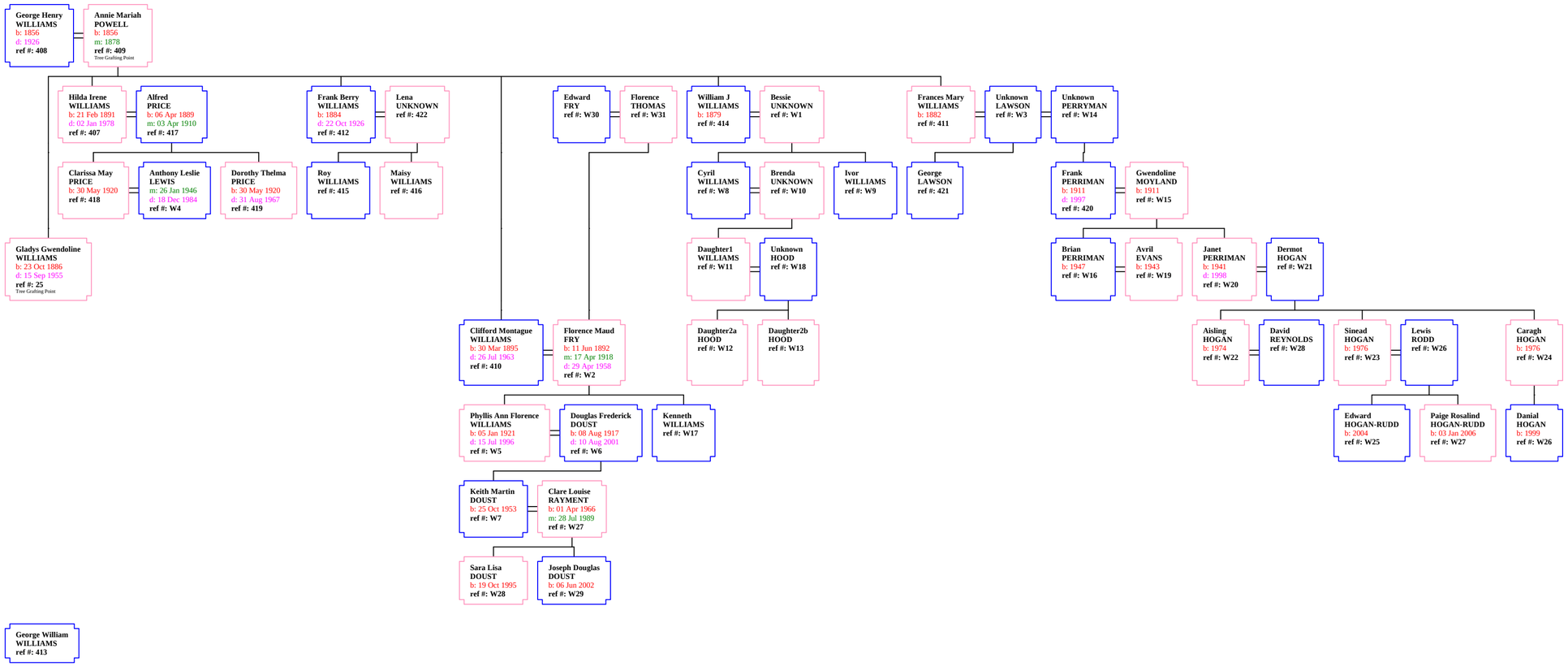The Williams Tree