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A 10-kg block is released from rest from point $\bf A$ in the figure. The track is frictionless except for the region between points $\bf B$ and $\bf C$, which has a length of 6 m. The block travels down the track, hits a spring of force constant 2250 N/m, and compresses the spring 0.3 m from its equilibrium position before coming to rest momentarily. Determine the coefficient of kinetic friction μ_k between the block and the rough surface between points $\bf B$ and $\bf C$.

