We study the restriction of the oscillator representation of the symplectic group $Sp(2p(m + n), \mathbb{R})$ to two different subgroups, namely $O(m, n, \mathbb{R})$ and $Sp(2p, \mathbb{R})$. We work with $(\mathfrak{g}, K)$-modules and use the duality correspondence introduced by Howe to analyze these restrictions, and determine sufficient conditions on $m, n$ and $p$ so that the modules obtained are projective. The duality correspondence gives a description of the restriction in terms of lowest and highest modules, and we conclude by using gradings and filtrations to identify the modules. (Received September 11, 2019)