

ABSTRACT. We use Heegaard splittings to give a criterion for a tunnel number one knot manifold to be nonfibered and to have large cyclic covers. We also show that a knot manifold satisfying the criterion admits infinitely many virtually Haken Dehn fillings. Using a computer, we apply this criterion to the 2 generator, non-fibered knot manifolds in the cusped Snappea census. For each such manifold  $M$ , we compute a number  $c(M)$ , such that, for any  $n > c(M)$ , the  $n$ -fold cyclic cover of  $M$  is large.