

## عنوان مقاله:

Preliminary study on influence of perforation diameters on wellbore productivity

## محل انتشار:

نهمین کنگره بین المللی مهندسی عمران (سال: 1391)

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## خلاصه مقاله:

Perforations are mostly common among the water wellbore projects in Iran. These perforations have significant improvement on wellbore productivity. Considering the remarkable effects perforations have on wellbore productivity, further optimization in perforations parameters is needed. One of the important parameters is the measurement of water head and seepage velocity. In this paper, the effects of changes in perforation diameter on both water head and seepage velocity were studied. The constant head and constant discharge experiments in different conditions were modeled in SEEP 3D. It is observed that changing the perforations diameter is an appropriate tool in groundwater head loss adjustment and velocity of seepage regulation. Results show that ground type influences the head loss but not the velocity of seepage.

## کلمات کلیدی:

perforation, water wellbore, productivity, seep3d

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/165782>

