

## عنوان مقاله:

Investigation and operation of directional drilling and its application

## محل انتشار:

پنجمین همایش بین المللی نفت، گاز، پتروشیمی و HSE (سال: 1399)

تعداد صفحات اصل مقاله: 5

## نویسندگان:

Sheida Riahi - B.Sc. Student, Petroleum Engineering, Faculty of Engineering, University of Garmsar, Garmsar, Iran

Ali Naghiey - B.Sc. Student, Petroleum Engineering, Faculty of Engineering, University of Garmsar, Garmsar, Iran

Mehdi Abbasi - Professor, Student, Petroleum Engineering, Faculty of Engineering, University of Garmsar, Garmsar, Iran

## خلاصه مقاله:

Undoubtedly, the oil industry is one of the most important industries in our country. So, researching and finding solutions to promote this industry is vital and important. Our ancestors used to exploit oil wells at shallower depths, but today, due to the expansion of societies and humanity's greater need for oil and gas resources, exploration and extraction must be done from deeper depths and from more difficult areas than in the past. At present, with the development of new technology in the drilling industry and the use of new technologies in this field, we are witnessing the use of science from other engineering fields in this industry in the new era. Meanwhile, directional drilling as an important and leading specialty in this field of other techniques in the drilling industry is of special importance. Paying attention to this profession in order to exploit complex reservoirs and unconventional drilling in order to reduce costs and access huge oil resources is easier than other methods. Directional drilling technique has been used for many years to access subsurface resources that are vertical in inaccessible or difficult to drill locations. The first step in directional drilling is well design, which is used as well path design. Although drilling is a three-dimensional operation, most wells are designed in two dimensions, especially in the early stages of design, but in some cases the situation is such that designers are forced to design three-dimensional equations. In this article, directional drilling is evaluated and its applications are presented. According to this research, it can be seen that this method has many advantages in special drilling conditions. For example, for most offshore drilling, it is better to use directional drilling, which is more economically viable, instead of using costly offshore rigs.

## کلمات کلیدی:

Directional - Applications - Methods - Cost effectiveness - Drilling Services

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