

Which physical phenomena create drag in highly inclines wellbores?

In this section, physical phenomena that create drag in highly inclines wellbores are described and studied. Five different methods proved to be effective in improving the success of running casing to total depth are presented: mud conditioning, casing flotation, axial vibration, rotation, and the use of casing swivels.

What is a casing swivel?

Casing swivel enables partially rotation of the casing, which can reduce the high torque and lower the high axial drag simultaneously. If compared to the connection rates and the top drive capacity, our calculation can use Torque profile (Figure 13) to determine the proper casing swivel location.

Can drilling engineers run casing into horizontal and extended reach wells?

As horizontal and extended reach wells are becoming more commonplace and their horizontal sections increase in length, drilling engineers face additional challenges running casing into these wells.

Is frictional drag during casing running too great?

According to the literature survey conducted, and previous practical case studies of ERWs, frictional drag during casing running is often predicted during the planning stage as too great to allow the casing to reach total depth without an innovative solution.

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Casing Design Theory and Practice Edited by S.S. Rahman - Center for Petroleum Engineering, University of New South Wales, Sydney, Australia G.V. Chilingarian - School of Engineering, ...

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1. n. [Production Logging] An in situ log of the electrical potential on the inner wall of a casing. The log is used to identify intervals that are susceptible to corrosion. A negative slope in the profile indicates a ...

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This book gathers together much available information in the subject area and shows how it may be used in deciding the best procedure for casing design i.e. optimizing casing design for...

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