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PROGRESSING CAVITY PUMP

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PROGRESSING CAVITY PUMPS (SECOND EDITION)

C.Wittrisch and H.Cholet (IFP Energies Nouvelles). Editions

Technip, Paris, 2013. (ISBN 978-2-7108-0998-2; 236 pp)

Since 1980, the progressing cavity pump (PCP) has been widely used in the production of heavy oil wells containing sand and gas.

The aim of this new edition is to provide clear related and condensed information about the principles of the PCP, including the use of recent material technologies to manufacture pump stators, with advanced elastomers and now with metals. The same applies to the drive rods and driving head, particularly with permanent magnet motors and advanced control and well monitoring, with downhole and surface sensors to control and monitor the pumping system. Data transmission and processing are improving well management and safety. Software is used to select the best pump for the well candidate. All these new technologies mean that well production can be increased and PCP operating life can be extended with reduced operating costs. This book is intended to provide the criteria for selecting a PCP and the operational conditions for its implementation.

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