



SPE.org

Copyright Notice

SPE papers are copyrighted by the Society of Petroleum Engineers.

No SPE paper may be sold or distributed in any manner, including electronic, to anyone who is not an authorized user. After downloading, you may make up to five (5) printed copies for internal business use.

SPE papers, including those authored by company employees, may not be posted on any type of internal or external website except as provided for under the [SPE Permissions Policy](#) or through a separate, written agreement with SPE.

SPE reserves the right to suspend and/or terminate access to SPE papers upon violation of these terms.