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(54) Title: OPTIMIZED ACIDIZING OF A PRODUCTION WELL NEAR AQUIFER

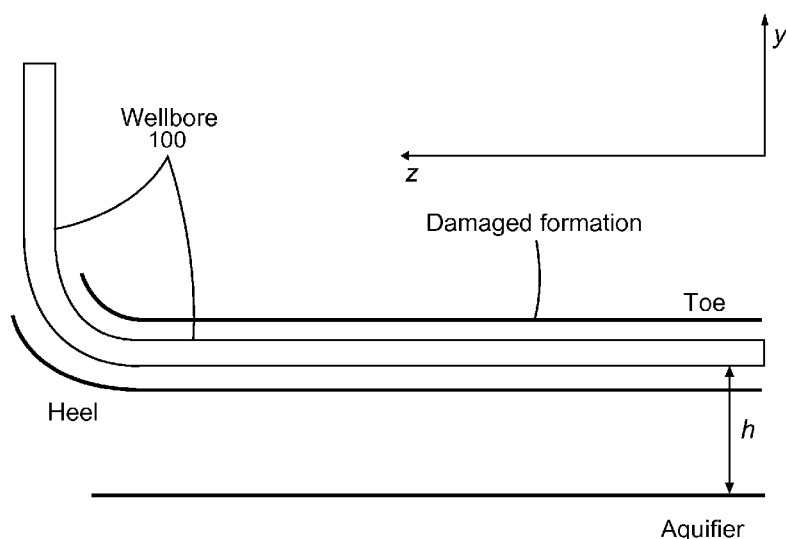


Fig. 1

(57) Abstract: Systems and methods for determining an optimal acid placement design for a production well near an aquifer are provided. An optimal acid placement that is determined accounts for the drawdown from heel to toe of the production well and reservoir heterogeneity to thereby address the issue of water breakthrough from the nearby aquifer and improve hydrocarbon recovery.