

Drain-boundary Productivity Index (Je)

(1)
$$J_e = \frac{q}{|p_e - p_{wf}|}$$

where

q	total sandface flowrate ($q = q_i$)
p_e	drain-boundary formation pressure , $p_e = \frac{1}{L_e} \int_0^{L_e} p(x,y,z)dl$
p_{wf}	bottom hole pressure at sandface

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