

Drain-area Productivity Index (Jr)

(1)
$$J_r = \frac{q}{|p_r - p_{wf}|}$$

where

q	flowrate (the specification of which may differ, see below)
p_r	field-average formation pressure , $p_r = \frac{1}{V_e} \iiint_{A_e} p(x, y, z) dV$
p_{wf}	bottom hole pressure at sandface

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