Drainage radius (re)

Quantitative measure of a drainage area A_e half-size:

(1) $$r_e = \sqrt{\frac{A_e}{\pi}}$$

It makes a physical sense of a geometrical average distance from well to the drainage area boundary.

For a circular-shape drainage area with centred well it makes a direct sense of a distance between a well and drainage area boundary.

See also

Physics / Fluid Dynamics / Percolation

Petroleum Industry / Upstream / Subsurface E&P Disciplines / Field Study & Modelling / Drainage (fluid flow)

[Drainage volume] [Drainage area (Ae)]