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Remarkable non-monotonic trajectories to a partially penetrating well in a semi-confined aquifer

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The flow path to a partially penetrating well in a semi-confined aquifer can exhibit a remarkable non-monotonic behaviour. It will be shown for which combination of the parameters (the position of the well in the aquifer, the permeability of the aquifer and the hydraulic resistance of the covering layer) this phenomenon will occur. This behaviour has ecological implications.