





gocum gwcum qaqucum lrec satw=satwn sato=saton poil=poiln pwat=pwatn pcow=pcown

Total oil produced until end of production Total water produced and injected until end

Total water influx from aquifer

Calculation of oil recovery factor Storing obtained parameters at time n+1 instead of n (for solving in the

next stage)

Water saturation at moment n+1 satwn(I,j) saton(I,j) Oil saturation at moment n+1 Capillary pressure at moment n+1 pcown(I,j) Water pressure at moment n+1 pwatn(I,j) Oil pressure at moment n+1 poiln(I,j) eimbco Material balance error for each phase (oil) eimbcw Material balance error for each phase (water) Volume of oil produced at each stage gostep Difference between produced and injected water at each stage qwstep qaqustep Volume of water influx from aguifer at each stage gocum Total oil produced until end of production gwcum Total water produced and injected until end of production qaqucum Total water influx from aquifer Oil recovery factor rec voi Initial oil volume in reservoir Remaining oil volume in reservoir lvon