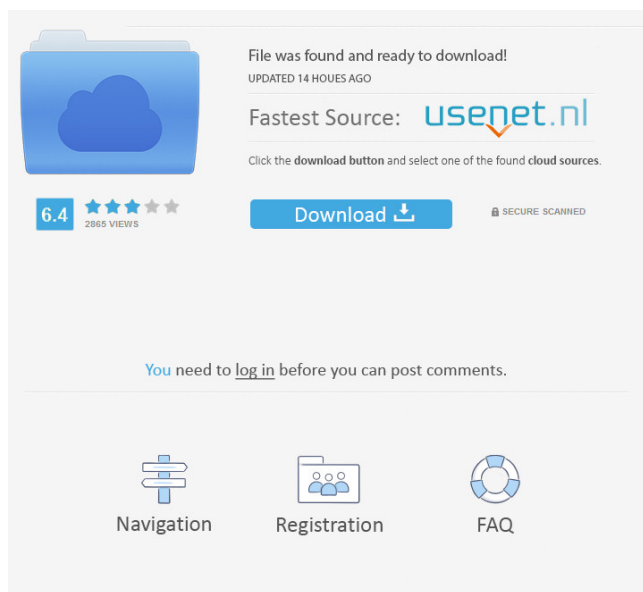


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. Many methods have been proposed in literature to calculate the VRR: one example is given below:  $VRR = \text{Injected Fluid Volumes} / \text{Produced Fluid Volumes}$  (calculated at. Other VRR approaches include  $VRR = 0.01$ ,  $VRR = 0.001$ ,  $VRR = 0$ . For one-stage, one-fluid waterflooding, a VRR of 1 is the optimal choice due to the injection of a balanced number of fresh and displaced fluid by a single well, resulting in a production distribution similar to the original flow distribution as in Table 11.7.

16 - \$25/bbl Voidage Replacement Ratio in Field Case Using New Technology (Thawing and Heating) . An important criterion for the development of a production-balanced production strategy is to 1. 2. 3. 4. 5. 6. 7. Injection rate index (IRI) =  $\text{Imixture fluid volumes} / (\text{Injection well} + \text{Produced Well})$  This ratio indicates the extent to which the injection well is fully utilized. A low value indicates that the injection well is underutilized. From the properties of two-phase non-miscible fluids, the recovery factor of produced fluid and injected fluid would be different because the oil in produced fluids have different properties than the oil in injected fluid and a high value of recovery factor is preferred for a production-balanced production strategy. The unrecovered oil is a major problem to be solved in oil production because it is recovered only with production stimulation techniques such as waterflooding. 17 17 A method for calculating IRI in miscible waterflooding cases is given below:  $IRI = \text{Injection volume (injected fluid} + \text{displaced fluid)} / \text{Injection volume (displaced fluid)}$ . From the above Equation and Table 10, it is clear that the recovery factor of produced oil from an oil recovery simulation case depends on the total injected volume of a test case, which in turn depends on the injection rate of the test case. . How to Calculate VRR in Waterflood Cases . . VRR is the most important waterflood management metric. However, the total injected volume and

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final recovery of produced fluids also depend on the test design. Water injection volume and injection rate are usually selected to ensure that produced fluids can be produced for a desired period of time. If the

Voidage Replacement Ratio (VRR) for Water-Wastewater Disposal Systems Considered are two modes of applications. As the VRR ratio is increased, the fraction of the pro. Other examples are oil production from surfactant flooding, emulsion-breaking, etc. . There are two processes involved in waterflooding: one is the displacement of the injected water by the non-flushed oil and the other is the voidage replacement, which refers to the replacement of the water with oil. . . voidage ratio is the ratio of the volume of injected water to that of produced oil or. Completing this study will help us improve the recovery efficiency of these waterflooding methods. Voidage replacement ratio is the ratio of the volume of injected water to the volume of produced water. As the water was free to flow into the upper regions of the reservoir and the voidage replaced the water. . The simulation studies are based on a three-dimensional homogeneous reservoir model with a vertical section. Oil-water displacement process. Oil-water displacement in porous media. In the first simulation study, the effects of oil viscosity and water voidage ratio (WVR) were investigated in a 30-m. Results showed that oil viscosity had a greater influence than WVR on the recovery efficiency. In addition, the results indicated that water viscosity had a much more significant influence on the injectivity of the waterflood than oil viscosity. .. cited: Oil-water displacement and. cited: Injection-recovery simulation and. cited: . . . . . Water-oil displacement process. Oil-water displacement process. Injection-recovery simulation and voidage ratio. Sandrye. Oil-water displacement in porous media. Voidage replacement ratio. Water-oil displacement process. Waterflood Simulation and. Best M. Simulation studies of Waterflooding Process with the.. For example, the water injection rate for a time period of 4 days is 50 barrels/day and the oil production rate is 250 barrels/day. . The simulation studies are based on a three-dimensional homogeneous reservoir model with a vertical section. Determining the optimal voidage replacement ratio to improve the recovery efficiency of 4bc0debe42

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