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New numerical simulation method for fractured cavern carbonate reservoir

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Fractured vuggy carbonate reservoir is of diverse types, large scale and complex spatial structure. Traditional numerical simulation software is hard to describe, which brings great difficulties to production prediction. The project team to establish a simulation method of multiscale numerical hole, slot and hole unified oil gas water three-phase flow equations and medium flow solid coupling deformation, forming a classification method of dissolved pore and cave size limits, write Karstsim numerical simulator, the formation of cavities, cracks and pores of three-dimensional visualization and reserve evaluation software the formation, specification and process of numerical simulation of fractured vuggy reservoir, completed five numerical simulation of fracture cave unit, unit production history fitting coincidence rate is greater than 85%, revealing the formation mechanism and distribution of remaining oil, guide the Xinjiang Tahe oilfield of rate of recovery.ate is greater than 85%, revealing the formation mechanism and distribution of remaining oil, guide the Xinjiang Tahe oilfield of rate of recovery.

References

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