

Problem 3	Control of impurities during water treatment and injection
The essence of the problem	In order to maintain reservoir pressure, water injection is used, initially technical water from water intake wells of the Albsenomanian horizon. Due to the increasing water cut of the wells, the produced water is treated at the water treatment plant and injected into the reservoir through the RPM system. When mixed produced and produced water is injected, iron oxide precipitation occurs, which leads to non-compliance of water quality for water flooding with the requirements of ST RK 1662-2007:
Technological parameters	The existing technological scheme of water treatment at the unit cannot provide the appropriate water quality according to the requirements of ST RK 1662-2007 (in terms of the content of mechanical impurities and oil products)
Scale of the problem	Accumulation of deposits of mechanical impurities in tubing, which leads to hydrogen sulfide retention in tubing. Contamination of the bottomhole zone of the well, resulting in reduced injectivity and increased pressure in injection wells and reservoirs. Scale of the problem - impact on the whole cycle: pipes, pumps, valves, etc.