

EXTREME SYSTEM OF CONTROLLING THE EMITTANCE INTENSITY OF THE WELL HYDRODYNAMIC GENERATOR

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At present for intensification of oil influx in the bottom-hole zone of stratum the wave generators of types working in the wide range of frequencies are effectively used [1].

During maintenance of emitter in the well conditions mismatching of rods vibration with pressure fluctuations in the jet can take place, which reduces emittance intensity.

Supposing that the own frequency of rods vibrations almost does not change, the principle opportunity of developing automatic extreme controlling system regulating pump flow rate in the mouth of the hole appears. This system will be able to secure resonance regime of rods vibrations of emitter by information about maximum of pressure drop amplitude.

By considering the well as hydraulic line with distributed parameters and choosing extreme discrete regulator of step type [2], the system modeling was done.

The results of numerical analyses showed that by finishing transition process autovibrations appear near the point of extremum, which confirms the opportunity of developing extreme system of controlling the emittance intensity by the rod hydrodynamic generator, located in the well at the oil stratum level.

REFERENCES

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