SYNTHESIS AND RESEARCH OF INHIBITOR OF CORROSION

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Introduction
The chemical compounds are synthesized on the basis of fatty acids, higher alcohols and esters. It was determined they have high efficacy inhibitor properties.

Methods
The technology of corrosion inhibitor preparation which is highly mobility liquid insoluble in water and soluble in oil products having high adsorptive properties to metal surface is developed. The inhibitor may be moved into the flowing, gas-lift and pumping wells by both the systematic and periodical methods. An optimum dosage of inhibitor, providing the protecting effect the level of 95-98% is being established depending of intensiveness of corrosive process and making up 100-200 mg/L of production. On periodical treatment of the all equipment surface an inhibitor expenditure makes up 200 g per 1 m² of surface.

Taking into account the specific character of operation at oil and gas well equipments the determination of efficiency of inhibitor protection is conducted on two shavings; reduce of intensity of corrosion process and increase of functionability of the underground equipment.

Results
At the present time the inhibitor is used at more than 250 production well of five oil and gas production administrations. An aggressive (corrosions) medium of production of these wells is characterized from 0.5-2.0 mm/per year. In the result of application of inhibitor the productivity of equipment increased 2.0 times, overhaul life was enhanced 1.5 times. The annual economic effect in 2001 made up about 1.5 billion Azerbaijanian manats (about 310 USA $).