DEVELOPING AND INTRODUCTION OF HIGHLY EFFECTIVE INHIBITORS OF CORROSION OF METALS TO INDUSTRY AND TECHNICO-ECONOMIC EVALUATION

L.G.Mamedova, Z.R.Agayeva, S.D.Zeynalov
Institute of Inorganic and Physical Chemistry of NAS of Azerbaijan

Introduction
Oil chemical production wastes exert bad influence upon ecology of the surroundings. The products obtained on the basis of wastes have been used for protection against corrosion of steel equipment of oil-gas extracting boreholes.

The methods of study
At calculation of economic efficiency of installation of the indicated inhibitors a number of factors has been taken into consideration: work of outfit without use of anticorrosive protection means, reduction of repair cases and substitution of outfit and etc (1). Calculation of defining annual economic efficiency has been made by formula:

\[ E_{pr} = \left( (S_1 - R_1 + I_1 + I_1^1) + E_1 + C_1 \right) - \left( (S_1 - R_2 + I_2 + I_2^1) + E_2 + C_2 \right) \]

Results and discussions
In the period of installation of inhibitors into 1240 boreholes of oil-gas extractive bodies of Azerbaijan Oil Company repair cases have decreased almost two times, 1719 pipes, 102 bars of deep water pumps have been saved, 14101 of oil have been additionally extracted. In the total result an economic efficiency from installation of worked out inhibitors has made up 821 mln manat.

Reference