

Abstract

In this graduation project, were considered the ways of rational use of associated petroleum gas with the least damage to the natural environment and a number of issues related to oil and associated gas production.

In the project were described the characteristics and main methods of extraction of hydrocarbon raw materials in the Republic of Kazakhstan. Were made the calculations of emissions of pollutants into the air with different distribution of associated gas as fuel. The most cost-effective ways of utilizing petroleum gas were studied and it was recommended that it should not be burned on a flare unit, in favor of using oil and gas piston units as an energy source for furnaces.

In the economic calculation of the payment for emissions of pollutants into the atmospheric air, calculations are made of the payback period of the technical equipment used.

In the chapter life safety is defined the permissible time of evacuation of working personnel from the administrative building at the deposit.