

OIL AND ENVIRONMENTAL PROTECTION

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Oil and oil products take one of the first places in environmental pollution. The estimate of pollution scale shows that every year the globe is polluted by almost 30 mln. of oil and oil products that is equivalent to the loss of one large field. In Russia, yearly losses average 12.0 mln. t during the last two-three decades. More than 50% of all long-distance pipelines are at the limit of their exploitation possibilities. About 10,000 accidents on field pipelines and to 20 large accidents on long-distance pipelines occur in Russia yearly. Spilled oil and gas having different physical-chemical composition have different impact on the environment in different physical-geographical conditions. Taking it into consideration, all known oil and gas fields can be classified on the degree of environmental risk during their development. This classification is a base for constructing the maps of predicting environmental risk during hydrocarbon field development that is illustrated by the map of the Timan-Pechora petroleum province. This report gives the characteristic of the measures on pollution prevention including such measures as using the environmentally clean technologies developed at the VNIGRI. The technology of producing and refining heavy viscous metal-containing oils is one of such technologies. The biopreparation NAPHTOX is one of the most effective biopreparation for surface cleanup from oil pollutions. It's emphasized that success in combating against oil pollutions will take place if a measure complex on environmental protection is used. It's important just at present because Russia begins to develop offshore oil and gas fields.