

Calculation of economic efficiency from implementation of the “IRBIS” Tank Liquid Stirring Device (“IRBIS” TLSD) in BashNeft

Loss of oil as base adjournment in commodity tank of volume 2000 m³ accounts for – 100 m³ for 24 months.

Expenditures to clearing of one tank and utilisation of accumulation account for about 14.000 \$. (at moderately-calculated value 140 \$ on 1m³).

$$140 \$ \times 100\text{m}^3 = 14.000 \$.$$

The amount of lost petroleum derivatives will account for -100m³ that at market cost of oil 80 \$ on 1m³ accounts for about 8.000 \$

$$80 \$ \times 100\text{m}^3 = 8.000 \$$$

Minimum service life “IRBIS” TLSD is 10 years (canceling 5 clearings for 10 years). Volume of expenditures to clearing and utilisation of precipitation will account for about 70.000 \$ (14.000 \$ * 5 = 70.000 \$). Cost of lost petroleum derivatives will account for about 40.000 \$ (14.000 \$ * 5 = 70.000 \$). Total economy accounts for 110.000 \$.

Cost of one “IRBIS” TLSD for reservoir of volume 2000 m³ is about 47.000 \$. Economic efficiency at installation and operation of one device in commodity reservoir with oil to make 63.000 \$ for 10 years of operation.

This calculation does not include :

- beneficial effect to environment which turns out the way of failure from utilisation of base adjournment;
- increase of useful reservoir capacity;
- increase of quality of pumped product in tank;
- increase of the service life of reservoirs
- decrease of the risk of injuries on production at execution of clears of tanks as a result of flammable works during clearing of reservoirs.

“IRBIS” TLSD can be used as well successfully in tanks for preparation of dark or refined oils, as well as various chemical reactants (petrol, diesel oil, absorbent, methanol etc.). Then he is used for maintenance of liquid in homogenised condition over the entire volume of tank, excluding opportunity of disintegration of liquid to different factions.