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Expected Volume of Disconfirmation and Write-off of Reserves Inexpedient to Be Developed

Estimation of expected volume of disconfirmation and derecognition of reserves inexpedient to be developed due to technical-and-economic reasons is performed by means of their total relative fraction ($Д_{сн}$) forecasting within confirmed in-place reserves

The fraction is determined from the formulae:

- For fully-mechanized mines:

$$Д_{сн} = 3 + 2.8 \cdot \lambda^{c}_{уд} + 0.10 \cdot \delta^{c}, \%;$$

- For nonmechanized mines:

$$Д_{сн} = 2.1 + 2.0 \cdot \lambda^{c}_{уд} + 0.07 \cdot \delta^{c}, \%;$$

- For coal strip mines:

$$Д_{сн} = 1,5 + 1,0 \cdot \lambda^{c}_{уд} + 0,04 \cdot \delta^{c}, \%$$

Where $\lambda^{c}_{уд}$ is mean specific value of lambda criterion of layer hypsometry exploration maturity; and δ^{c} is mean value of relative delta criterion of depth exploration maturity.

Such mean values as $\lambda^{c}_{уд}$ and δ^{c} are identified by means of calculations of entering it tetragons of holes networks.

Mean specific value of lambda criterion is determined on mean specific λ^{c} value expressed in meters, and mean square of ratable blocks S^{c} representation in hundreds thousands m^2 :

$$\lambda^{c}_{уд} = \frac{\lambda^{c}}{S^{c}}$$

Expected volume of disconfirmation and write-off of reserves is used in the process of preparation of optimistic and pessimistic estimations of cost-performance ratio operation of an enterprise.