

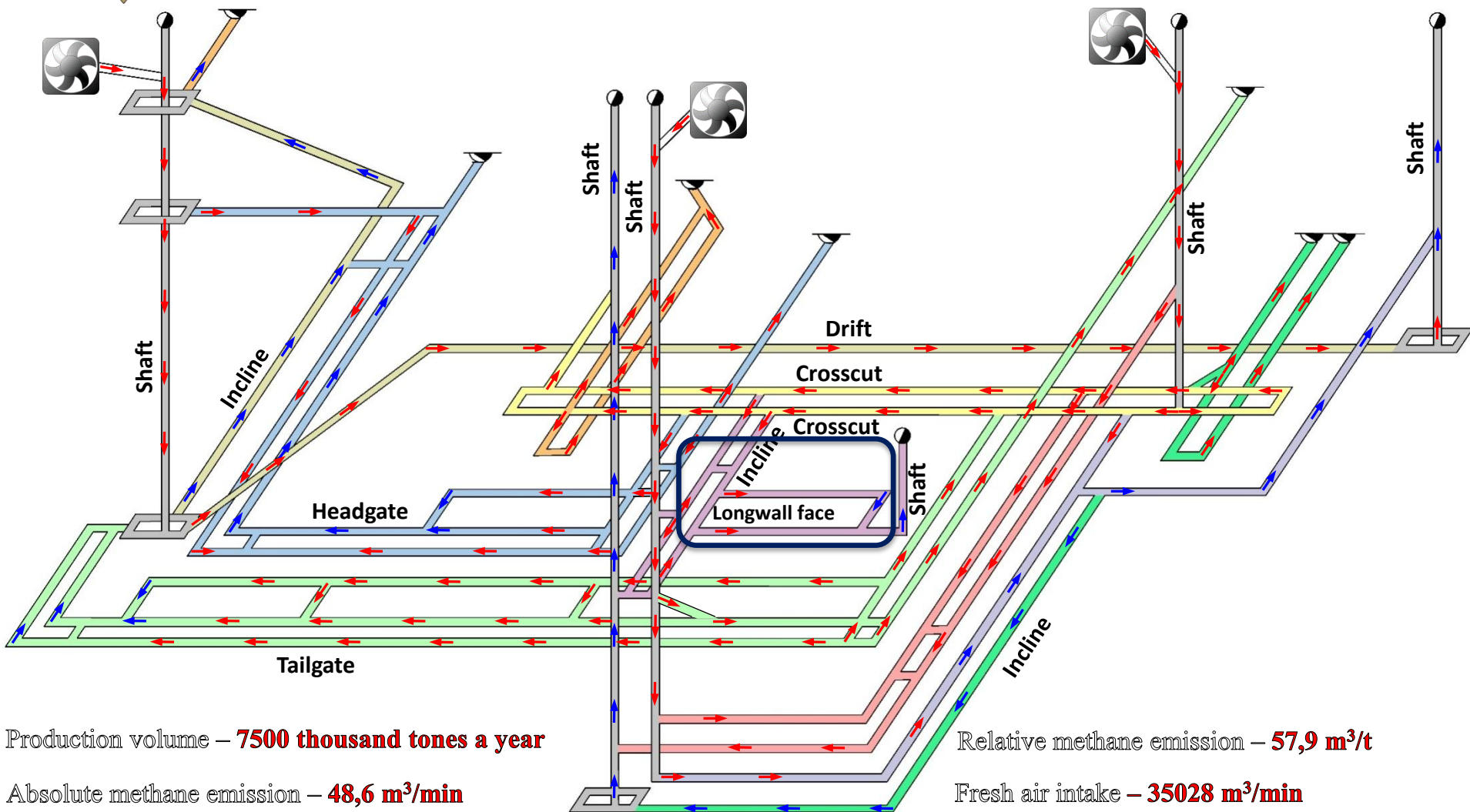


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The experience of conducting an underground
mine rescuing operation using the isolation
method followed by the isolated volume
reduction



«Raspadskaya» ventilation plan



Production volume – **7500 thousand tones a year**

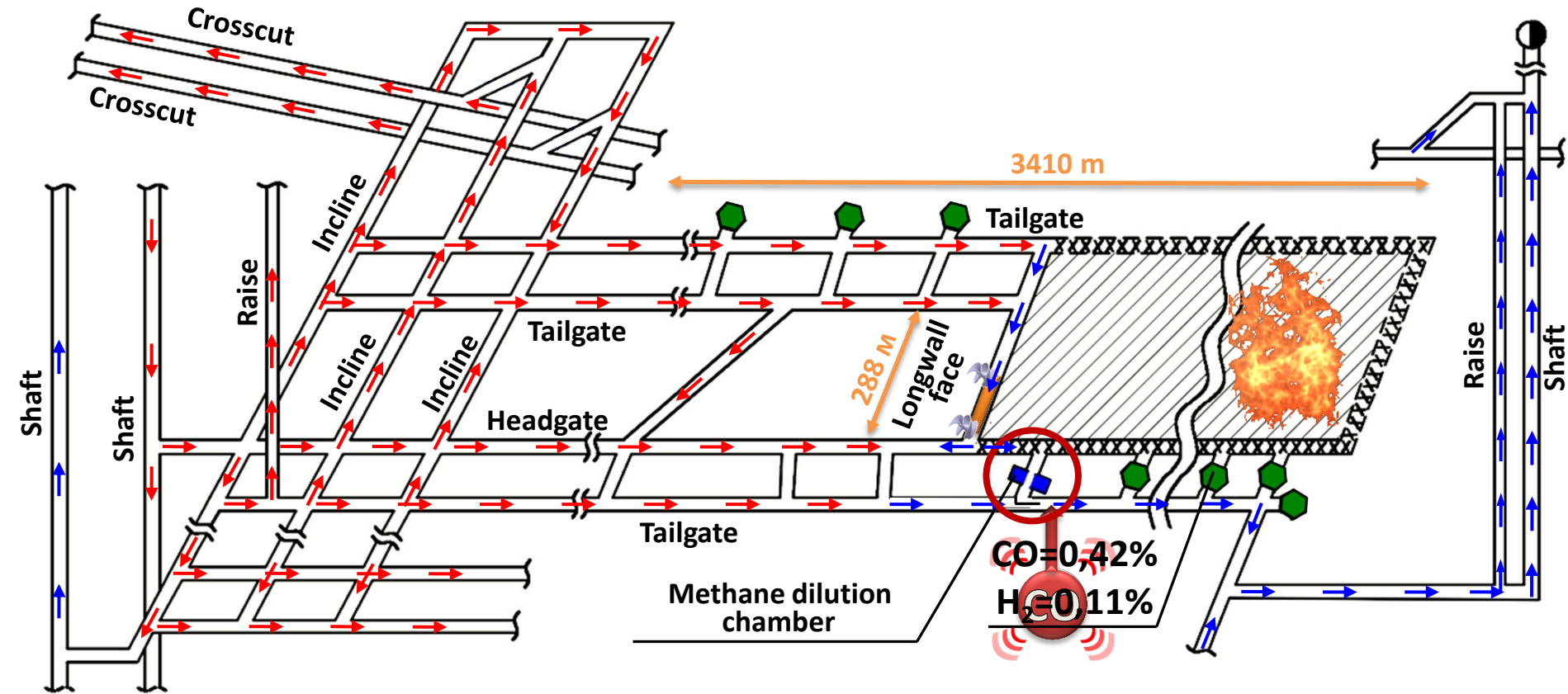
Absolute methane emission – **48,6 m³/min**

Relative methane emission – **57,9 m³/t**

Fresh air intake – **35028 m³/min**



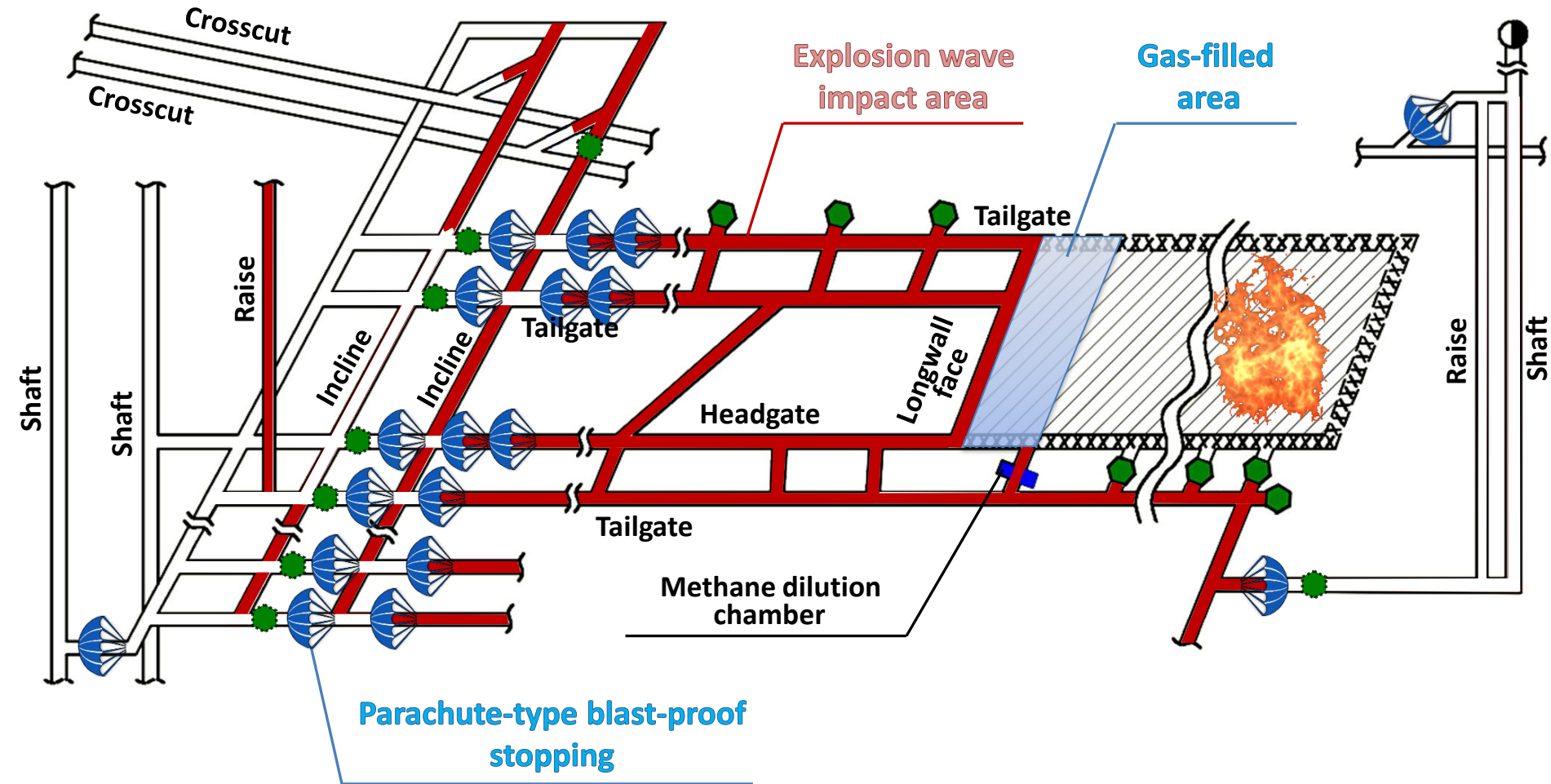
Longwall map



Methane emission $J = 5,92 \text{ m}^3/\text{min}$
Fresh air intake $Q = 2090 \text{ m}^3/\text{min}$

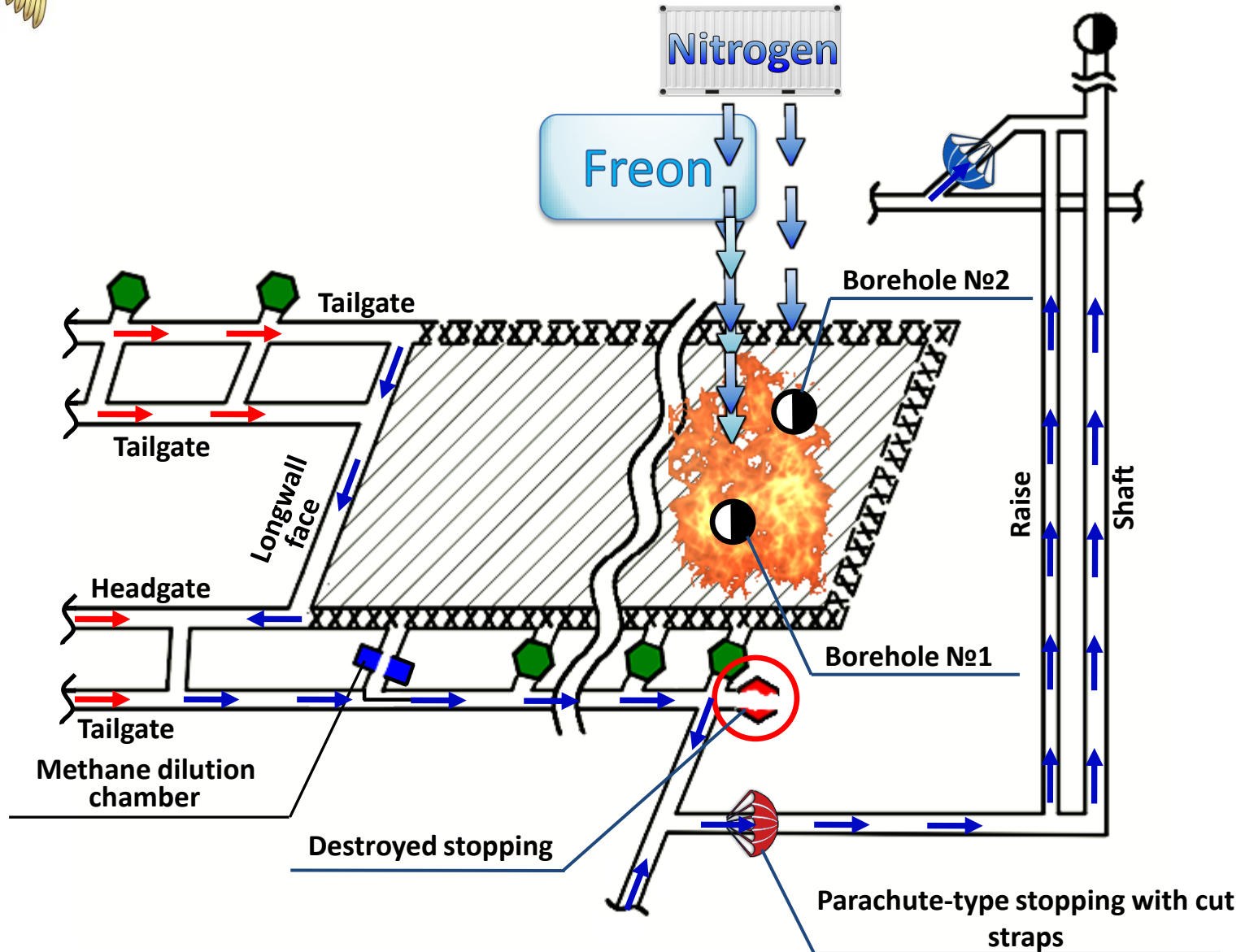


Explosion wave impact area



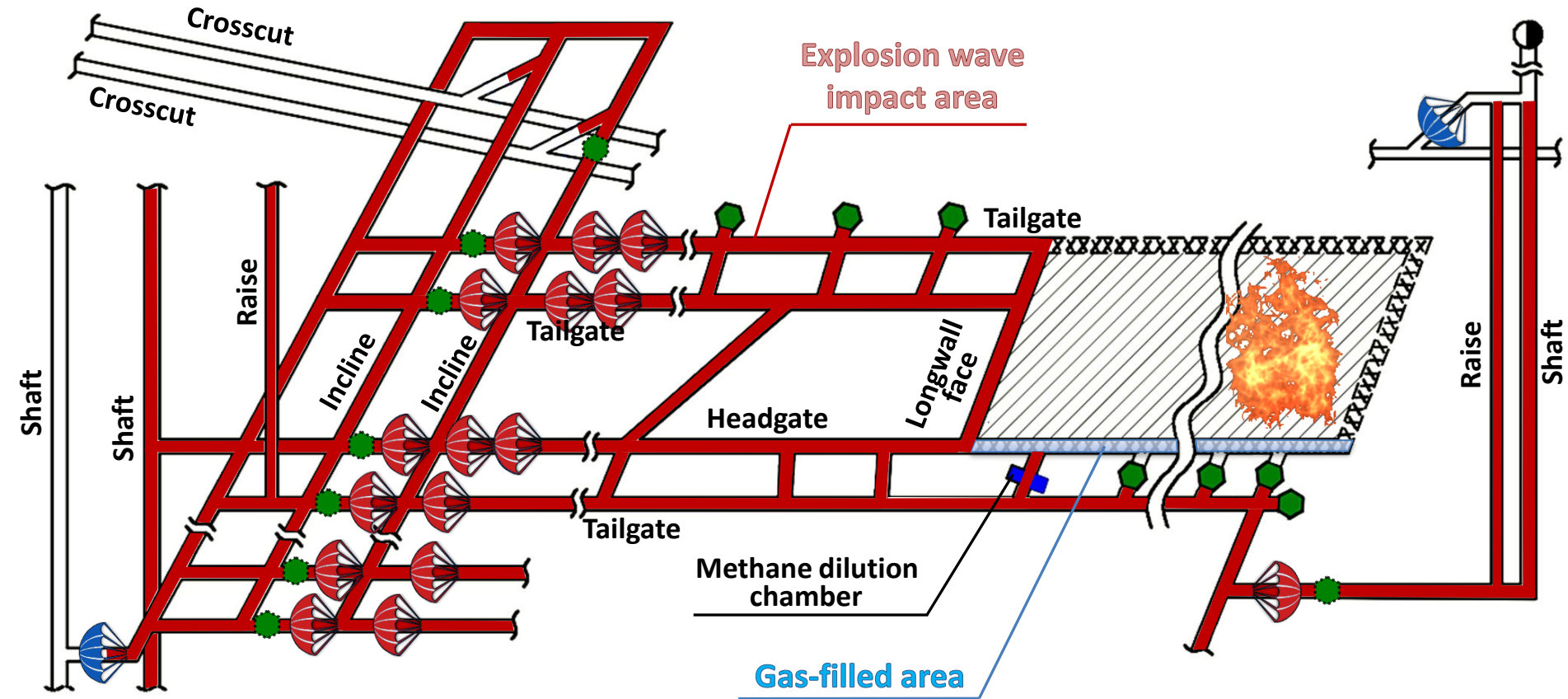


Fire inertization



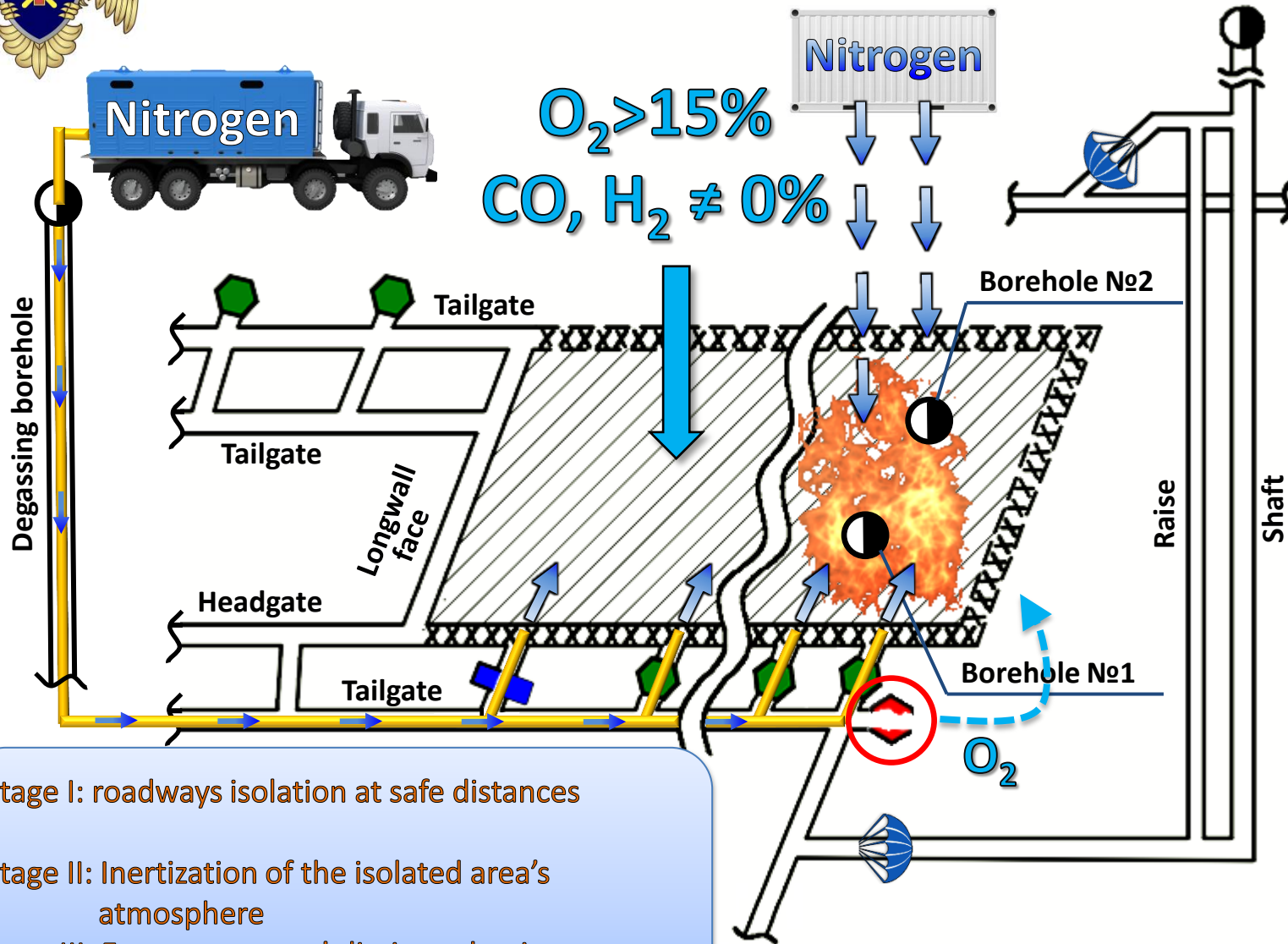


Explosion wave impact area recomputation





Fire inertization



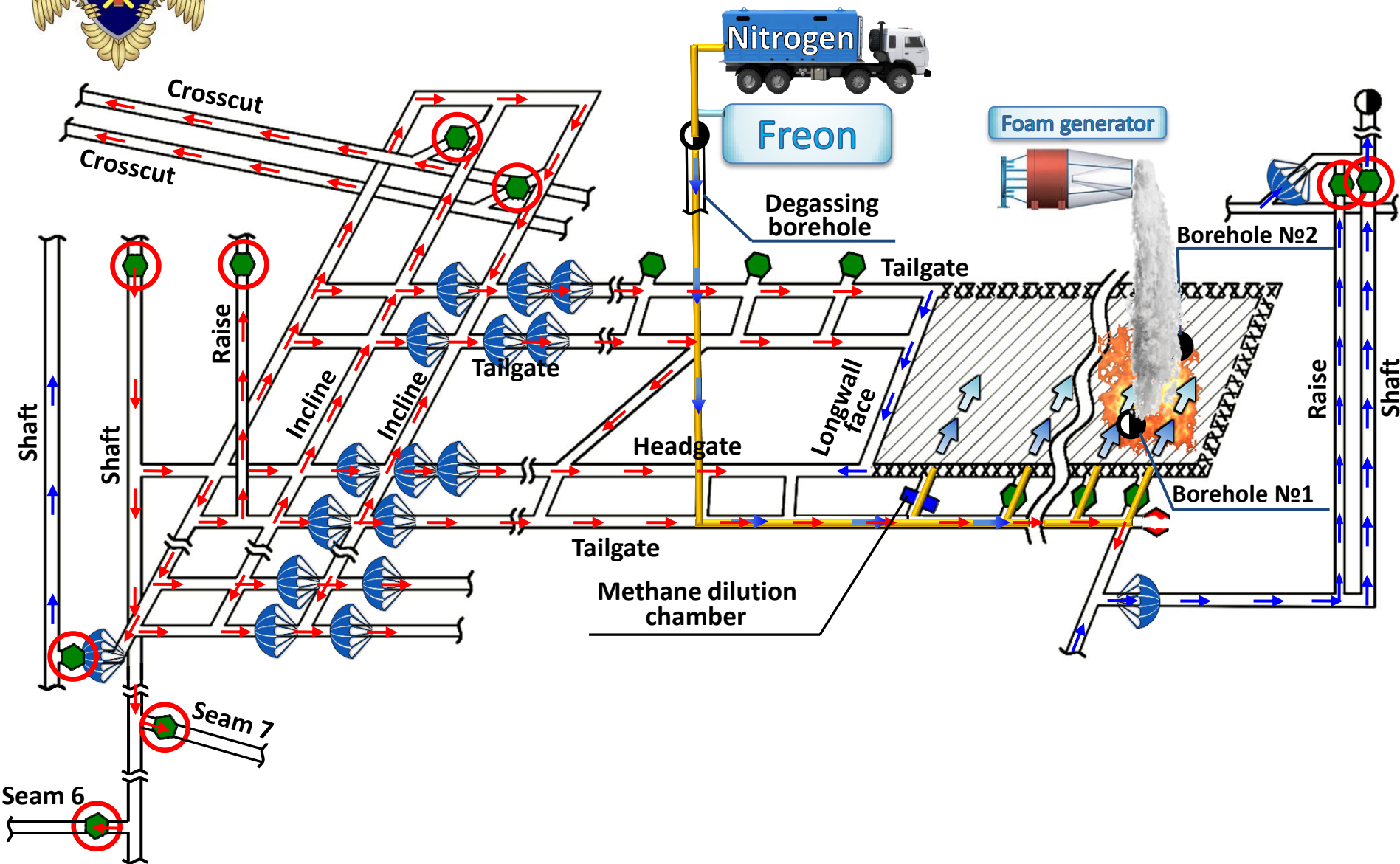
➤ Stage I: roadways isolation at safe distances

➤ Stage II: Inertization of the isolated area's atmosphere

Stage III: Emergency area's limits reduction

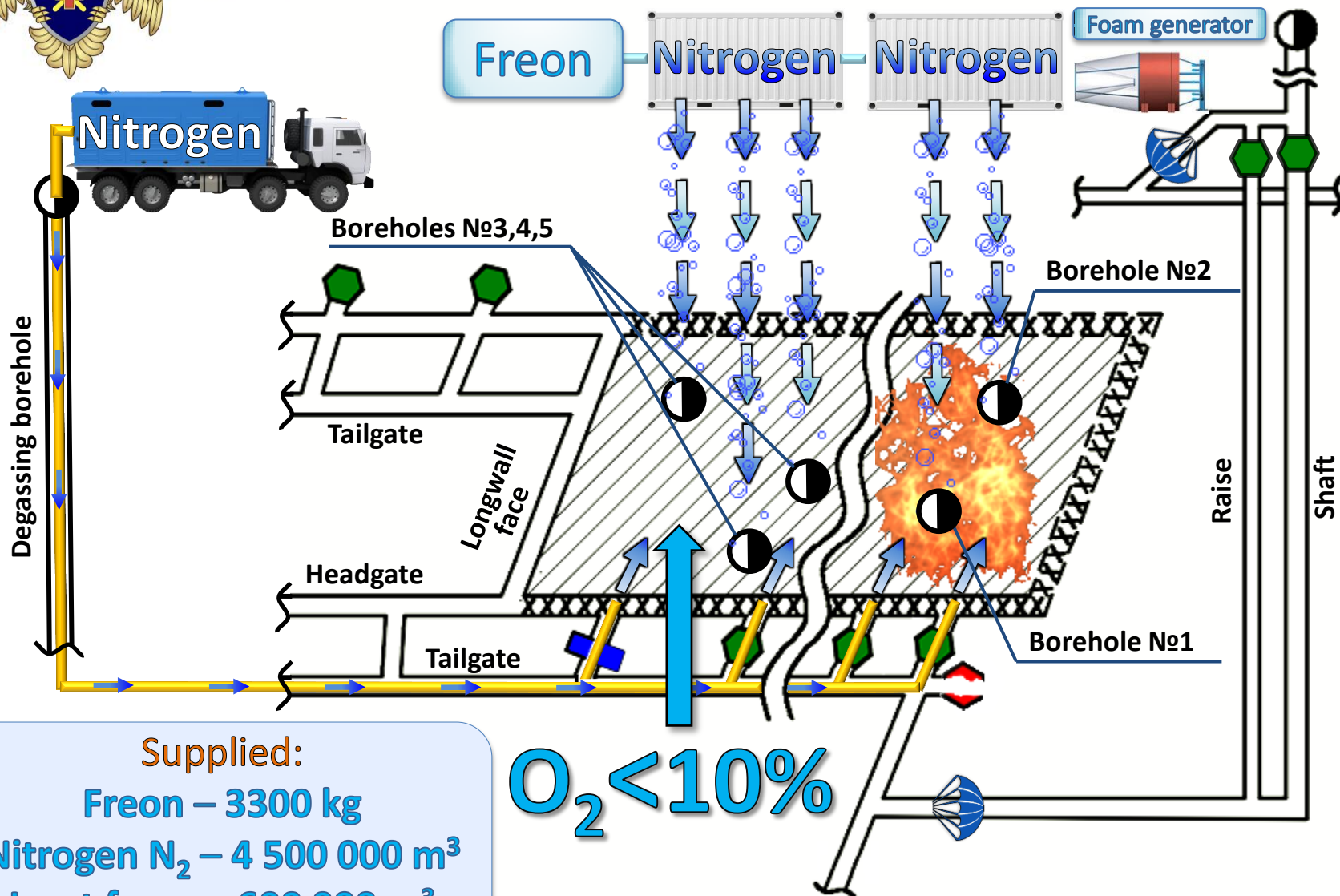


Stage I: roadways isolation at safe distances



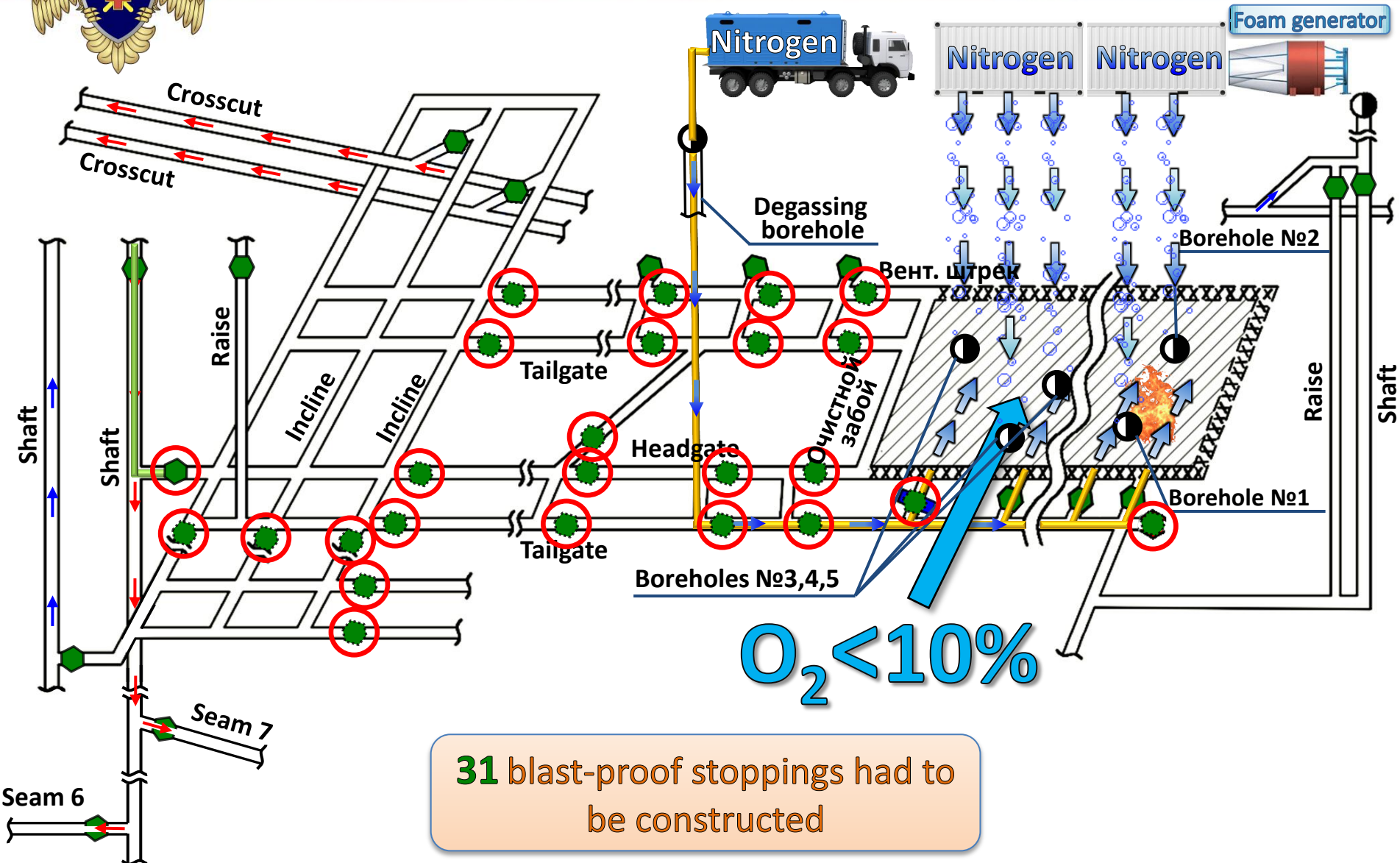


Stage II: inertization of the isolated area's atmosphere



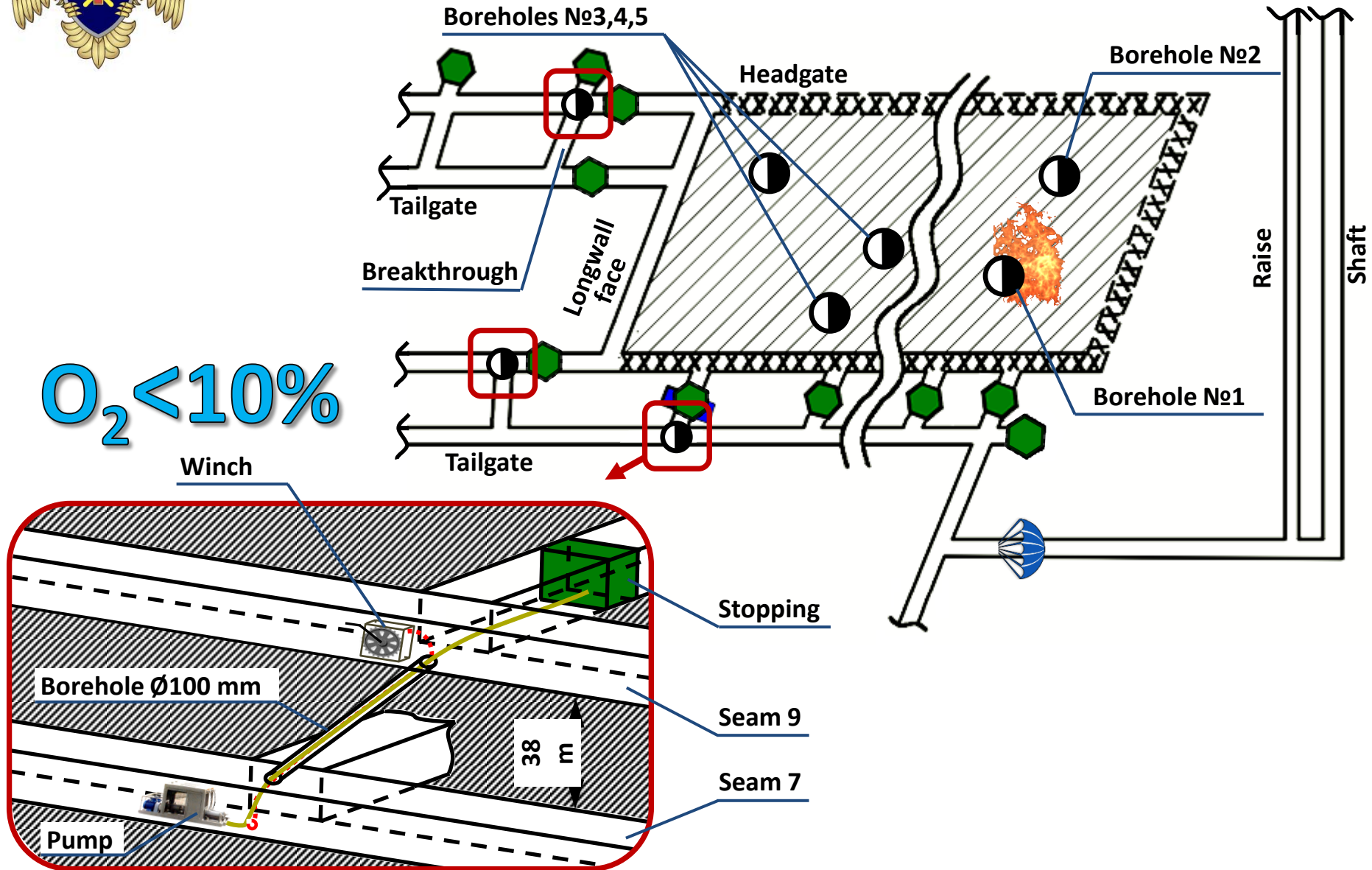


Stage III: emergency area's limits reduction





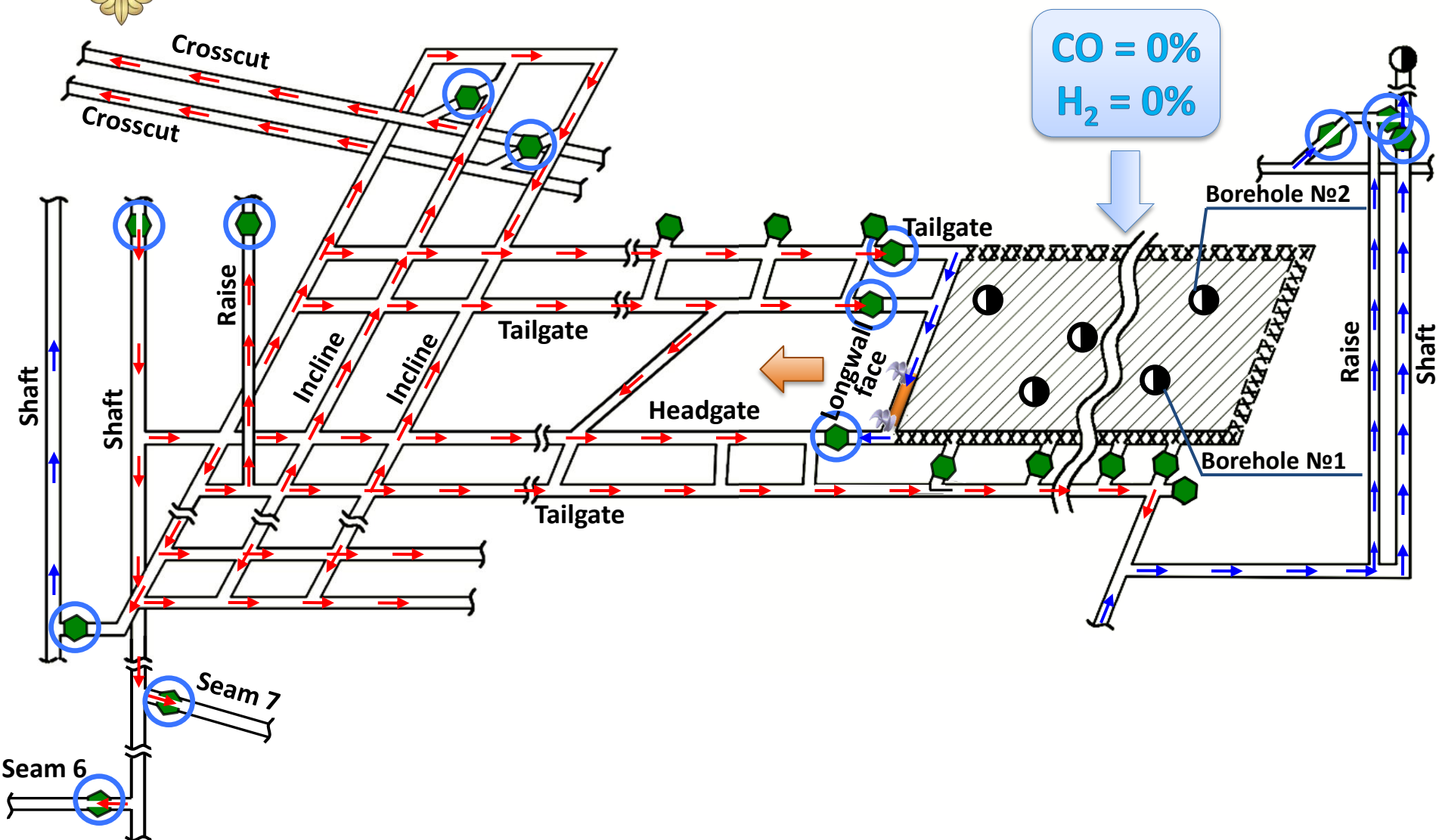
Isolated area's limits reduction





Longwall production resumption

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**Thank you for your
attention**