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Geochemistry of the Permian-Triassic sequences of the Guryul Ravine section, Jammu and Kashmir, India: Implications for oceanic redox conditions

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Research highlights

- Geochemistry and petrographical studies from the Guryul Ravine section, Jammu and Kashmir, India are carried out to decipher the oceanic redox conditions at Permian- Triassic boundary (PTB) in the area.
- Redox sensitive elements like Ni, Co, Cr, V, U at PTB and negative Ce anomaly in the early Triassic sediments of Khunamuh Formation indicate reducing environmental conditions.
- The prolonged reducing conditions were probably the source of water anoxia, which may be one of the causes for the PTB mass extinction.
- Ternary A-CN-K plot shows moderate weathering at PTB (CIA 72), whereas, below the Late Permian Event Horizon (CIA 60), physical weathering is more prominent.

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