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Field Occurrence and Geochemical Characteristics of the Baryte Mineralization in Lessel and Ihugh Areas, Lower Benue Trough, Nigeria

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**Highlights**

- The study area is underlain by Precambrian gneissic/granitic rocks and Turonian sandstone.
- The baryte mineralization occurs commonly as vein and cavity type deposits associated with PbS-ZnS having NE-SW and NW-SE trends.
- Barytes characterized by Ba and Sr enrichment and depletion in major oxides and trace elements.
- Precipitation of baryte occurred under low temperature and oxidizing-reducing conditions.

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