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Thermal and chemical variations of the nigerian benue trough lead-zinc-barite-fluorite deposits

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## 1 **Highlights**

- 2 • The Benue Trough is a linear failed rift filled with Cretaceous Albian  
3 sediments
- 4 • Deposition of minerals took place during pre-sulfide, sulfide and post  
5 sulfide stages
- 6 • Ores and gangue minerals were deposited at varying temperatures and  
7 salinities
- 8 • Fluid inclusion analysis indicate thermal and chemical variation in all  
9 the districts
- 10 • Different fluids at different levels with varying cooling histories interact  
11 in the Trough

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