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## Kimberlite

## Terminology And Classification

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a series of descriptors that are applied independently of, and prior to, genetic classifications.

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kimberlite, and Kimberlite Terminology and Classification rock is kimberlite or similar related rock with the potential to contain diamonds and, ii) to identify different phases of kimberlite intrusion or eruption within a particular body. Stage 4: Textural-Genetic Classification Two stages of textural-genetic classification (Table 1)

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## **Kimberlite Terminology And Classification**

epiclastic volcanic kimberlite. Pyroclastic kimberlites can be assigned into two main classes: Kimberley type (formerly tuffisitic kimberlite) and Fort à la Corne-type (formerly pyroclastic

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Classification  
framework or scheme. The scheme has five stages and is based on progressively increasing levels of interpretation building upon a series of descriptors that are applied independently of, and prior to, genetic classifications. Kimberlite Terminology and Classification | SpringerLink Kimberlite is an igneous rock, which

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Classification framework or scheme. The scheme has five stages and is based on progressively increasing levels of interpretation building upon a series of descriptors that are applied independently of, and prior

## **Kimberlite Terminology And Classification**

Kimberlite terminology has evolved over more than four decades, originally based mainly on the Kimberley area of South Africa. Kimberlites have attributes not adequately addressed by standard terminology and the inconsistent use or misuse of key terms indicated that a re-evaluation was

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## **Kimberlite Terminology:**

### **What's in a Word?**

Kimberlite Classification. Based on studies on a large number of kimberlite deposits, geologists divided the kimberlites into 3 separate units based on their morphology and petrology. These units are: Crater Facies Kimberlite; Diatreme Facies Kimberlite; Hypabyssal Facies Kimberlite; 1) Crater Facies Kimberlite

## **Kimberlite | Properties, Composition, Formation » Geology ...**

A new classification is

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Classification therefore proposed based on the relative abundances in kimberlites of five primary minerals. These minerals are diopside, monticellite, phlogopite, calcite and serpentine. Olivine is always an abundant mineral in kimberlites but is of limited use in classification since the abundance of olivine is largely independent of the relative abundances of the other minerals present.

## **Mineralogical Classification of Southern African Kimberlites**

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## **Kimberlite Terminology And Classification**

kimberlite (e.g. Sparks et al., 2006), this term is very general and also includes a wide range of other volcanoclastic rock types with features indicating a range of different origins (Table 1 of Hetman, 2008). Thus we

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suggest the general term Wesselton-type volcanoclastic kimberlite (with appropriate descriptors

## **Kimberlites: Descriptive Geological Nomenclature and**

...

Kimberlite is an igneous rock, which sometimes contains diamonds. It is named after the town of Kimberley in South Africa, where the discovery of an 83.5-carat (16.70 g) diamond called the Star of South Africa in 1869 spawned a diamond rush and the digging of the open-pit mine called the Big Hole. Previously, the term kimberlite has been

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Classification applied to olivine

lamproites as Kimberlite II, however ...

## **Kimberlite - Wikipedia**

This Glossary of Kimberlite and Related Terms is a comprehensive handbook for use in the investigation of kimberlites (the most common type of primary diamond deposit) and related rocks by both the diamond industry and academia. Together with the companion peer-reviewed publication by Scott Smith et al. (2013), the Glossary presents a rationalised approach to kimberlite terminology with a practical, systematic framework or nomenclature

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## **A Glossary of Kimberlite and Related Terms (3-Volume Set**

...

Kimberlite, also called blue ground, a dark-coloured, heavy, often altered and brecciated (fragmented), intrusive igneous rock that contains diamonds in its rock matrix. It has a porphyritic texture, with large, often rounded crystals (phenocrysts) surrounded by a fine-grained matrix (groundmass).

## **Kimberlite | rock | Britannica**

Kimberlites are mantle-derived hybrid rocks



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Classification of a mixture of crystals, some derived from the disaggregation of xenoliths and some that grew directly in the carrier magma [ 1 ]. These rocks clearly present a petrographic challenge due to the hybrid nature and common strong overprint by late hydrothermal and supergene processes.

## **Minerals | Free Full-Text | Magma Mingling in Kimberlites ...**

Kimberlite is the term coined in the late 19th century to describe “the matrix to diamond” when it was realised that the second South African diamond rush

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Classification  
deposits were not alluvial but of volcanic origin.

Today, kimberlite geology is the foundation of diamond mines.

## **Kimberlites - from Mantle to Mine**

Magmaclast is a descriptive term for physically-distinct, fluidal-shaped bodies of kimberlite magma (now solidified) formed by any process of magma disruption prior to solidification, typically during near-surface emplacement.

## **Magmaclasts in Kimberlite**

Each zone is thought to be dominated by distinctive

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Classification:  
facies, respectively:  
hypabyssal kimberlite (HK,  
descriptively called here  
massive coherent porphyritic  
kimberlite), tuffisitic  
kimberlite breccia, (TKB,  
descriptively here called  
massive, poorly sorted  
lapilli tuff) and crater  
zone facies, which include  
variably bedded pyroclastic  
kimberlite and resedimented  
and reworked volcanoclastic  
kimberlite (RVK).

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