Kimberlite Terminology And Classification

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Kimberlite Terminology And Classification

A rationalisation of kimberlite terminology and classification is presented in a practical, systematic framework or scheme. The scheme has five stages and is based on progressively increasing...

(PDF) Kimberlite Terminology and Classification

A rationalisation of kimberlite terminology and classification is presented in a practical, systematic 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 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 .

Kimberlite - Wikipedia

into intrusive kimberlite or extrusive 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) require increasing information and

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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 ...

Kimberlite lithologies present are hypabyssal macrocrystic kimberlite (“HMK”), HMK breccia, and tuffisitic kimberlite breccia (“TKB”) including minor lithic tuffisitic kimberlite breccia ...

Kimberlite terminology and classification | Request PDF

Classification Textural-Genetic Classification Genetic / Process Interpretation Extrusive (effusive): extrusive coherent (ECK) [descriptors] kimberlite Epiclastic Kimberlitic Volcanogenic Sediment (EK) or (KVS) Use standard terminology Setting: Sample details: Scope of study: Contacts: geographic;

tectonic; geological; structural; igneous association;

Kimberlites: Descriptive Geological Nomenclature and ...
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
While this rock type commonly can be described as massive volcaniclastic kimberlite (e.g. Sparks et al., 2006), this term is very general and also includes a wide range of other volcaniclastic rock types with features indicating a range of different origins (Table 1 of Hetman, 2008).

Kimberlites: Descriptive Geological Nomenclature and ...
A new classification is therefore proposed based on the relative abundances in kimberlites of five primary minerals. These minerals are diopside, monticellite, phlogopite, calcite and serpentine.

Mineralogical Classification of Southern African Kimberlites
previous textural terminology for kimberlites was made by Clement and Skinner (1979 cited in 1985) when they proposed the first widely accepted, and now well tested, textural-genetic classification scheme. The main shortcoming of the Clement and Skinner classification is the fact

TEXTURAL AND GENETIC CLASSIFICATION SCHEMES FOR KIMBERLITE…
Classification based on the textural and genetic variations: This model proposed by Clement and Skinner, (1979) relying on textural features identifies three genetic facies of kimberlite rocks. 1) Crater Facies Kimberlite 2) Diatreme Facies Kimberlite

ALEX STREKEISEN-Kimberlite-

The name is derived from Kimberley, South Africa. A polymict megacryst-rich ultramafic volcanic breccia, rich in olivine, plus phlogopite, carbonate, garnet (e.g. pyrope), pyroxenes (e.g. diopside), and oxides. Commonly highly serpentinized and porphyritic, it occurs in vertical pipes, dikes, and sills.

Kimberlite: Mineral information, data and localities.

Kimberlite is the term coined in the late 19thcentury to describe “the matrix to diamond” when it was realised that the second South African diamond rush deposits were not alluvial but of volcanic origin. Today, kimberlite geology is the foundation of diamond mines.

Kimberlites – from Mantle to Mine

Kimberlites are mantle-derived hybrid rocks consisting 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 ...

A new petrological definition of kimberlite is proposed and discussed.

Kimberlite Redefined | The Journal of Geology

All of these kimberlites consist of olivine (typically, 0.1–5 mm in size) and juvenile lapilli within a fine-grained mesostasis. Individual minerals in the lapilli and mesostasis include apatite, calcite, perovskite, spinel and serpentine, and are typically 20–80 μm in size.

Classification of distinct eruptive phases of the ...

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