

Kimberlites And Lamproites Primary Sources Of Diamond

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Kimberlites And Lamproites Primary Sources

INTRODUCTION A variety of mantle-derived igneous rocks comprise the primary sources of diamond, with the principal hosts being kimberlite and lamproite. Primary diamonds or graphite pseudomorphs after diamond are also known to occur in some lamprophyres (Jaques, Kerr et al., 1989), alkali basalts and alpine type peridotites (Kaminskii, 1984).

[PDF] Kimberlites and Lamproites: Primary Sources of ...

Kimberlites And Lamproites Primary Sources KIMBERLITES Kimberlites remain the principal source of primary diamond despite the discovery of high-grade deposits in lamproites. Recent mineralogical and Nd-Sr isotopic studies have shown that two varieties of kimberlite exist: Group 1 or olivine-rich monticellite serpentine calcite kimberlites. Group 2 or micaceous kimberlites. Kimberlites and Lamproites: Primary Sources of Diamond CiteSeerX - Document Details (Isaac Council, Lee

Kimberlites And Lamproites Primary Sources Of Diamond

Mineral Sampling As we know, kimberlites contain a very small proportion of diamonds by volume. Fortunately, other minerals are more plentiful within the rock, and can provide a clue to both the whereabouts of the source pipe, as well as the likelihood of it being diamondiferous.

How We Find Diamond Sources: Kimberlite and Lamproite ...

Prior to the discovery of kimberlites, diamonds were all mined from secondary alluvial sources: river environments where diamonds had been eroded from their primary source. Historical diamonds from India were predominately recovered along the Krishna River in Madhya Pradesh.

Kimberlites: Earth's Diamond Delivery System | Gems & Gemology

The moderate and low-Ti kimberlites were generated from BSE or EMI type mantle. Precisely these types of kimberlites host diamond deposits, including economic grade objects in EEP. The lamproite sources were localized only in the enriched mantle (EMI and EMII).

Kimberlites and lamproites: Criteria for similarity and ...

Both kimberlites and some lamproites may contain large volumes of rounded olivine crystals (macrocrysts) that originated from the upper mantle underlying the Earth's crust. Rocks containing high volumes of these olivine crystals are often the most rich in diamonds.

Lamproite (a source rock for diamonds) | Western ...

Group I kimberlites. Group-I kimberlites are of CO₂-rich ultramafic potassic igneous rocks dominated by primary forsteritic olivine and carbonate minerals, with a trace-mineral assemblage of magnesian ilmenite, chromium pyrope, almandine-pyrope, chromium diopside (in some cases subcalcic), phlogopite, enstatite and of Ti-poor chromite.

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

Kimberlite, along with a similar rock called lamproite, is important for delivering diamonds to the crust through magmatic intrusions that solidify into pipelike structures. kimberlite. Kimberlite. Woudloper. Kimberlite occurs in the uplifted centres of continental platforms.

Kimberlite | rock | Britannica

Kimberlites are the most important source of primary diamonds. Many kimberlite pipes also produce rich alluvial or eluvial diamond placer deposits. About 6,400 kimberlite pipes have been discovered in the world, of those about 900 have been classified as diamondiferous, and of those just over 30 have been economic enough to diamond mine.

Kimberlite - Wikipedia

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Kimberlites - ALEX STREKEISEN

Lamproite is an ultrapotassic mantle-derived volcanic or subvolcanic rock. It has low CaO, Al₂O₃, Na₂O, high K₂O/Al₂O₃, a relatively high MgO content and extreme enrichment in incompatible elements.. Lamproites are geographically widespread yet are volumetrically insignificant. Unlike kimberlites, which are found exclusively in Archaean cratons, lamproites are found in terrains of ...

Lamproite - Wikipedia

Compositional range of SiO₂ and CaO for the Dharwar Craton kimberlites and Cuddapah Basin lamproites, southern India. Data sources: West Kimberley olivine lamproites and Leucite Hills lamproites...

(PDF) Chemical composition of Lesotho kimberlites

The tectonic setting of kimberlites and their relationships to their mantle sources are illustrated in Fig. 34. Both kimberlites and lamproites can be found emplaced in cratons and in accreted mobile belts. In either case only those emplaced in ancient cratons are diamond bearing.

Mantle Source - an overview | ScienceDirect Topics

CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): A variety of mantle-derived igneous rocks comprise the primary sources of diamond, with the principal hosts being kimberlite and lamproite.

CiteSeerX — Kimberlites and Lamproites: Primary Sources of ...

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Kimberlite

Diamonds occur in only two rock types on earth, kimberlites and lamproites, both rare in Kansas. Kimberlite is unique because it originates over 100 miles (150 km) deep in the earth and travels in a matter of hours to the earth's surface where it forms small volcanic features.