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~~*Mine Near Crater*~~

~~*Where to find diamonds,*~~

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Diamonds In The  
World! *Breaking  
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Most Interesting Maps

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Sources*

INTRODUCTION A  
variety of mantle-  
derived igneous rocks  
comprise the primary  
sources of diamond,

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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).

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*Lamproites: Primary  
Sources of ...*

Kimberlites and  
Lamproites: Primary  
Sources of Diamond

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

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Lamproites Primary Sources Of  
Diamonds | Western ...

*Kimberlites And  
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Sources Of Diamond*

Principal sources of  
diamonds are  
kimberlitic and  
lamproitic pipes, and  
alluvial or marine

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sediments partly derived from their erosion.

Kimberlitic and lamproitic magmas are produced at great depth in Earth's mantle and may sample portions of diamondiferous lithosphere during their ascent to surface.

*DIAMONDS,  
KIMBERLITES, AND  
LAMPROITES*

*Page 16/37*



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Based on the close proximity ( $<10$  km) of the Ramannapeta lamproite to these workings and the  $>200$  km distance of the nearest known kimberlites, we suggest that the Ramannapeta body may be the primary source for the diamonds of the Krishna valley.

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*Petrogenesis of  
Proterozoic Lamproites  
and Kimberlites ...*

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

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the enriched mantle  
(EMI and EMII).

*Kimberlites and  
lamproites: Criteria for  
similarity and ...*

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Kimberlites are the most

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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

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enough to diamond  
mine.

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Kimberlite, along with a  
similar rock called



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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*

Kimberlite is an igneous

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## Kimberlites And

rock, which sometimes contains diamonds. It is named after the town of Kimberley in South Africa, where the discovery of an 83.5-carat 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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applied to olivine  
lamproites as Kimberlite  
II, however this has  
been in error.

Kimberlite occurs in the  
Earth's crust in vertical  
structures known as  
kimberlite pipes, a

*Kimberlite - Wikipedia*

Lamproites form from  
partially melted mantle  
at depths exceeding 150  
km. The molten material

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is forced to the surface in volcanic pipes, bringing with it xenoliths and diamonds from the harzburgitic peridotite or eclogite mantle regions where diamond formation is stabilized. Recent research, for example on the lamproites at Gaussberg in Antarctica, and lead-lead isotope geochemistry have

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Lamproites  
revealed that the source  
of lamproites may be  
transition zone melts of  
subducted lithosphere  
which has ...

*Lamproite - Wikipedia*

Prior to the discovery of  
kimberlites, diamonds  
were all mined from  
secondary alluvial  
sources: river  
environments where  
diamonds had been

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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*

CiteSeerX - Document

*Page 30/37*

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Details (Isaac Council, 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. Primary dia-

*CiteSeerX — Kimberlites  
and Lamproites:*

*Primary Sources of ...*

*Page 31/37*

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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.



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

Kimberlites are considered to be derived from asthenospheric mantle, whereas lamproites originate from metamorphosed and metasomatized subducted material at the lithosphere-asthenosphere boundary.

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*(PDF) Potassic Alkaline  
Rocks: Leucitites,  
Lamproites, and ...*

primary lamproite  
deposit in English ...

Diamond production of  
primary deposits  
(kimberlites and  
lamproites) only started  
in the 1870s after the  
discovery of the  
diamond fields in South  
Africa. ... including an

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altered meta-lamproite  
that may represent a  
primary diamond  
source.

## Diamond

*primary lamproite  
deposit - definition -  
English*

18 including two  
kimberlites from  
Wajrakarur kimberlite  
field and one lamproite  
from 19 the Krishna  
lamproite field. These

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age data are then combined with bulk-rock  $^{20}\text{Nd}$  geochemical and Nd isotopic data to provide further constraints on the source region 21 and primary magma composition of southern Indian kimberlites and lamproites.

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