

Geological Features Of Alluvial Placers

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Geological Features Of Alluvial Placers

Alluvial placer deposits may be divided into autochthonous and allochthonous subtypes. Autochthonous placers contain large heavy mineral grains that are practically immovable by streams and thus occur adjacent to primary ore deposits. Rich "bottom" autochthonous placers accumulate during many stages of river development and are concentrated at the base of the alluvium or in the crevices of its bedrock.

Geological features of alluvial placers | Economic Geology ...

GEOLOGICAL FEATURES OF ALLUVIAL PLACERS Pamphlet - January 1, 1971 by I.P. Kartashov (Author) See all formats and editions Hide other formats and editions. Price New from Used from Pamphlet "Please retry" — — \$7.90: Pamphlet from \$7.90 1 Used from \$7.90 Amazon Book Review ...

GEOLOGICAL FEATURES OF ALLUVIAL PLACERS: Kartashov, I.P ...

In geology, a placer deposit or placer is an accumulation of valuable minerals formed by gravity separation from a specific source rock during sedimentary processes. The name is from the Spanish word placer, meaning "alluvial sand". Placer mining is an important source of gold, and was the main technique used in the early years of many gold rushes, including the California Gold Rush. Types of placer deposits include alluvium, eluvium, beach placers, and paleoplacers. Placer materials must be bot

Placer deposit - Wikipedia

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Geological Features of Alluvial Placers - CORE

alluvial - formed by streams; by far the most important and the reason for most gold and diamond rushes of the world; eluvial - formed on hillsides by rainfall e.g. Pitinga Tin Mine, Brazil; beach placers - formed by wave action on the seashore e.g. black sands (magnetite) of California and New Zealand, diamond gravels of southern Africa

Alluvial and Placer Mineral Deposits | Geology for Investors

It consists of silt, sand, clay, and gravel, as well as much organic matter. Alluvial deposits are usually most extensive in the lower part of a river's course, forming floodplains and deltas, but they may form at any point where the river overflows its banks or where the flow of a river is checked.

Alluvial deposit | geological feature | Britannica

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Film: A Critical Introduction

Yu. A. Travin, "Specific Features of Alluvial Placers of Present-Day River Valleys in the Northeast of the USSR," in Topical Problems of Geology of Gold in Northeast of the USSR (SVKNII, Magadan, 1972), pp. 118-125 [in Russian].

Dynamic classification of alluvial gold placers in the ...

GEOLOGICAL CHARACTERISTICS CAPSULE DESCRIPTION : Detrital gold, platinum group elements and other heavy minerals occurring in buried valleys (typically with at least several metres of overlying barren material, usually till, clay or volcanic rocks), mainly as channel-lag and gravel-bar deposits.

Buried-channel Placers - Mineral Deposit Profiles, B.C ...

Research the geological properties of a particular gold-bearing area of interest. These properties include the rock formations, structure, fault lines and the primary mineral content of the area. Also, study the mineralization process of gold in general to determine which segment of a particular area may yield gold.

How to Identify a Gold Bearing Area | Sciencing

The sapphires are either blue-green-yellow (BGY; figure 4A) or pastel-colored, and the deposits have economic importance only because advanced weathering in tropical regions concentrates the sapphires in eluvial and especially large alluvial placers.

Geology of Corundum and Emerald Gem Deposits | Gems & Gemology

Four PECs are distinguished: erosion, abrasion, equilibrium, and aggradation. A lithodynamic alluvial complex (LDAC) of the same name corresponds to each PEC. Any fractions of free gold can be transported by streams, and the mode of transportation depends on the PEC.

Dynamic classification of alluvial gold placers in the ...

The relative DEM was reclassified into four geomorphic zones, consisting of alluvial and low terrace deposits (alluvium 1), more recent alluvial flat deposits (alluvium 2), terraces, and colluvium derived from local underlying bedrock.

Reconnaissance Investigation of the Alluvial Gold Deposits ...

alluvial diamonds tend to be of higher quality to that found in primary sources. Since alluvial diamond deposit formation is dependant on numerous geological, geomorphological and sedimentological factors (e.g., paleotopography, fluvial geomorphology, fluvial architecture, bedrock geology, structural controls and/or traps,

PLACER DEPOSITS Sub-committee Members

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It occurs in the upper beds of alluvial section. Heavier fine gold particles are partly retained at the site of river activity, and the rest are partly redeposited in cooler parts of placers, being graded according to their settling velocity, as evidenced from the direct relationship between the flatness and size of gold particles.

Fine gold particles and gold dust in alluvial ...

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Sn placers develop because Sn, commonly cassiterite, is resistant to weathering, and has a high

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specific gravity. Eluvial deposits develop when cassiterite-rich bedrocks are chemically weathered with little transport. Cassiterite, along with other heavy minerals, can also concentrate in stream bottom gravel as alluvial placers.

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