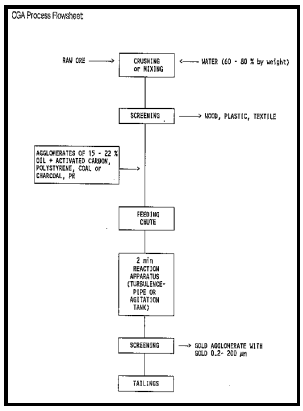
Recovery of fine coal using a novel oil agglomeration process

Universityof Birmingham - Factors Affecting the Oil Agglomeration of Sivas



Description: -
-recovery of fine coal using a novel oil agglomeration process
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Notes: Thesis (Ph.D.) - University of Birmingham, Dept of Minerals Engineering.
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Tags: #Treatment #of #crude #petroleum/water #emulsions #by #agglomeration #methods #using #fine #coal #(Journal #Article)

Factors Affecting the Oil Agglomeration of Sivas

Also conditions were identified which would aid in the selection of suitable cationic and anionic flotation collectors for effecting a better separation of coal and pyrite. This work was followed by characterization studies on coals from the Gunnedah Basin and agglomeration test work on these coals. Oil agglomeration is a kind of coal cleaning technique that is used for separation of organic and inorganic parts of fine sized coal.

The recovery of fine coal using a novel oil agglomeration process (1984 edition)

Oil Agglomeration Towards Quality Enhancement of High-Ash Coals: The Indian Scenario. The primary goal of this project is the engineering development of two advanced physical fine coal cleaning processes, column flotation and selective agglomeration, for premium fuel applications. Cleaning of Pakistani low-grade coal by agglomeration.

Selective Oil Agglomeration of Lignite

Subsequent recovery of the larger coal aggregates on sieves is then possible.

Factors Affecting the Oil Agglomeration of Sivas

Increasing oil addition increases recovery and agglomerate diameter and reduces ash content, retained moisture and inversion time. Metastable water-in-crude-oil emulsion formation could occur in a Strategic Petroleum Reserve SPR cavern if water were to flow into the crude-oil layer at a sufficient rate. Results which could lead to major improvements in the froth flotation method of separating coal and pyrites included the successful demonstration of an oxidative chemical pretreatment process which would greatly reduce the floatability of pyrite particles without greatly affecting the floatability of coal.

Coal desulfurization and deashing by oil agglomeration (Conference)

Effective utilization of the oil required the development of a suitable emulsion chemistry, capable of handling the changing properties of the various

feeds thickener feed, thickener underflow and tailings pond.

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