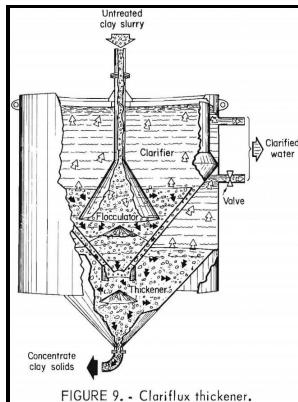


Review of Phosphatic Clay Dewatering Research.

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Information circular (United States. Bureau of Mines) -- 8980Review
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Notes: 1

This edition was published in 1983



Filesize: 27.19 MB

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The conclusion tentatively drawn from the tests was that several thickeners used in series would result in effective and efficient dewatering of phosphatic clays. Catalogue Persistent Identifier APA Citation Pittman, Walter E.

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The research described includes early dewatering experiments, fundamental studies of clays and of flocculation, and minor dewatering techniques such as freeze-thaw methods, the ANDCO process, moving screens, sand wick, crust development, and overburden pumping.

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Sweeney Book Bib ID 3870356 Format Microform, Book , Author Description Pgh. There is also the problem of residual flocculants in the effluent water, which is recirculated for mine and plant processing.

State

The IMC-Agrico- Mobil research project is still in progress. Basic chemical, mineralogical, and mechanical characteristics data were collected by Bromwell Engineering for an FIPR project. Currently, efforts are underway to develop specialized equipment for use on a partially solidified clay settling pond surface.

Phosphatic waste clay: Origin, composition, physicochemical properties, challenges, values and possible remedies

The phosphatic clays nearest the seepage aids tended to dry out, cake, and inhibit the flow of supernatant water from farther away. In the trommel, the clay-PEO slurry, previously mixed, dewatered very rapidly and formed consolidated rolls or masses, as it moved through the trommel, of 25% to 30% solids phosphatic clay. This led to the concept of sand capping.

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