

THE GREEN COVE SPRINGS STORY and what it means

Beneath the palmetto and scrub pine of the Seminole Forest in Northern Florida, lies a deposit, rich in titanium minerals.

Titanium Enterprises* is extracting these minerals and doing it in an unusual way... a way that's not only super-efficient but which also leaves the ecology of the area undisturbed and actually improves the land being worked.

The minerals being produced... rutile, ilmenite and leucoxene... are being supplied to Cyanamid's chloride and sulfate plants as raw materials for the production of UNITANE® titanium dioxide.

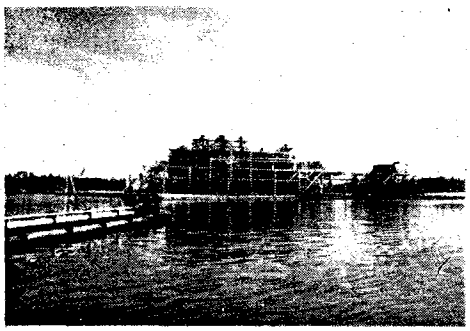
The mine will be in operation for many years to come. Its output assures us of a continuous supply of dependably high quality materials.

The pictures below come from a 10 minute film we've recently prepared that describes this unique mining venture. If you haven't seen it yet, ask your Cyanamid representative. He'll be happy to arrange a screening.

Cyanamid Science Works for You

CYANAMID

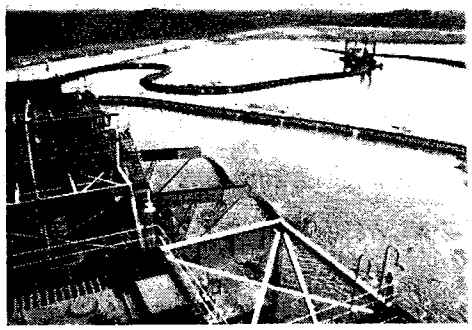
American Cyanamid Company
Titanium Dioxide Department
Pigments Division
Bound Brook, N. J. 08805



The heart of this mining operation is a 15 acre man-made pond. On it is floated all the equipment necessary to extract the minerals.



At the front of the pond are two dredges equipped with 36" cutter heads. They move forward, feeding from the bottom and bank of the pond.



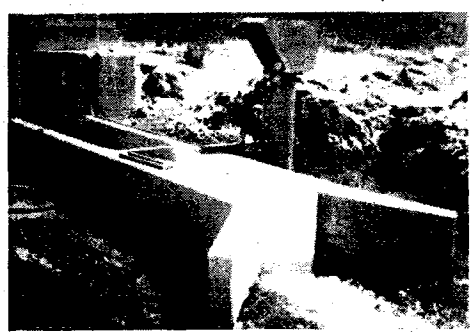
The sand material extracted is transported through flexible rubber pipes, floated on pontoons, to a screening barge and floating wet mill. Here, the valuable heavy minerals are recovered by gravity separation.



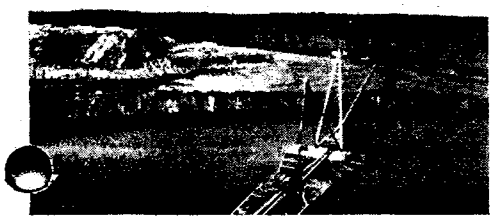
The ore is pumped back to land through a steel pipe to the permanent dry mill located in the center of the 12 mile deposit. Here, the heavy mineral, black sand concentrate is dewatered and stored in piles for air drying.



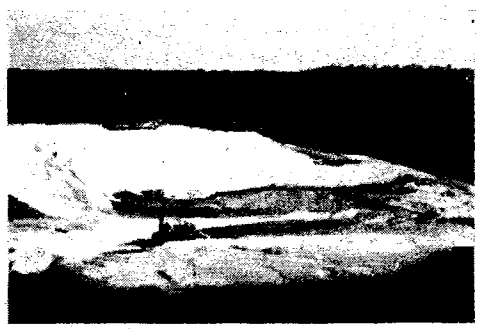
It is next fed into the dry mill where titanium minerals are separated from other heavy minerals by high tension separation, then piped to a series of circuits where various types are separated by magnetic means.



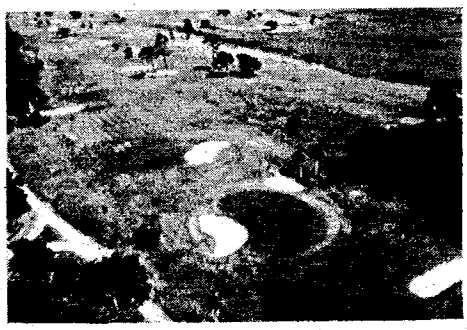
The water used to float the wet mill and aid in recovery is now purged of the organic residues released in the dredging. It is passed through a series of settling ponds and returned to the land purer than it started.



As mill and pond move forward over the rich mineral vein, the unused ore, representing 97% of these ancient sands, is returned to the land. It is then spread, graded, and contoured.



Topsoil is replaced and the land fertilized and seeded for reforestation or development. When the deposit has been worked, titanium produced will have brightened the world in paints, paper, printing inks and plastics.



Plans may include residential and recreational facilities to replace the flat, bleak, sand stretch of scrub pine and palmetto of the original landscape.

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*An unincorporated joint venture of American Cyanan

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