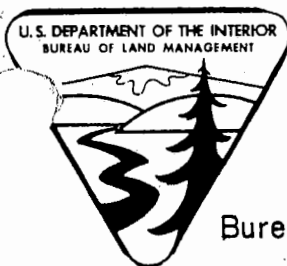


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TECHNICAL NOTE

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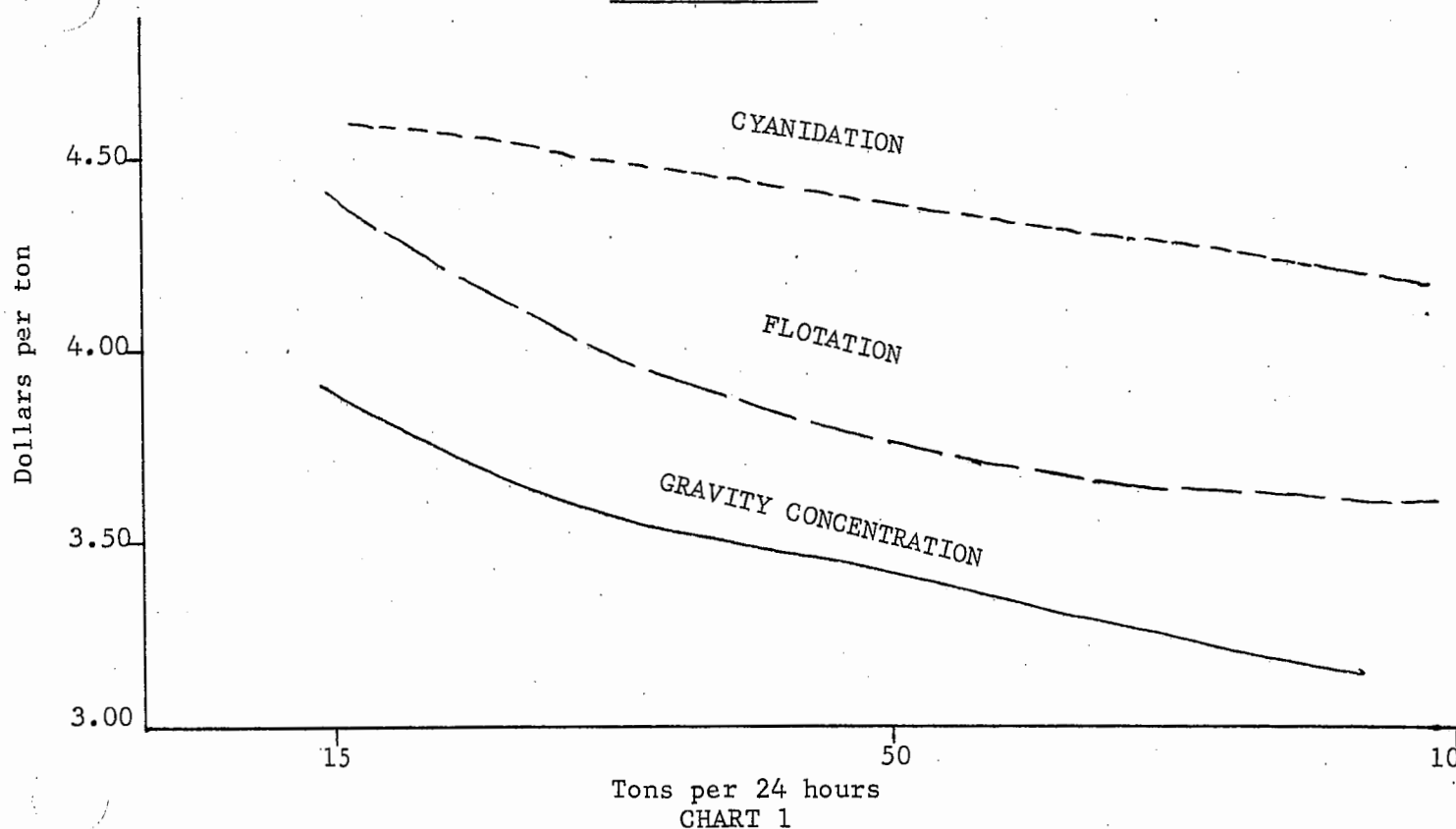
Subject: Mill Operating Cost Data

Excellent information on ore processing is contained in Modern Mineral Processing Flowsheets, Denver Equipment Company, 1400 17th Street, Denver, Colorado (\$10.00). New flowsheets are continually published by the company and are available on request.

The following charts were compiled using actual cost figures obtained from numerous mills operating under widely varying conditions. Costs obtained from the charts should be regarded only as rough estimates and used cautiously, modified by any other data you may have.

Charts 1 and 2 were adapted from the Denver Equipment Company Handbook, 1954 Edition. A 35% upward adjustment in costs should be made to reflect increased wages and material costs (1969).

MILLING COSTS



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CRUSHING COSTS

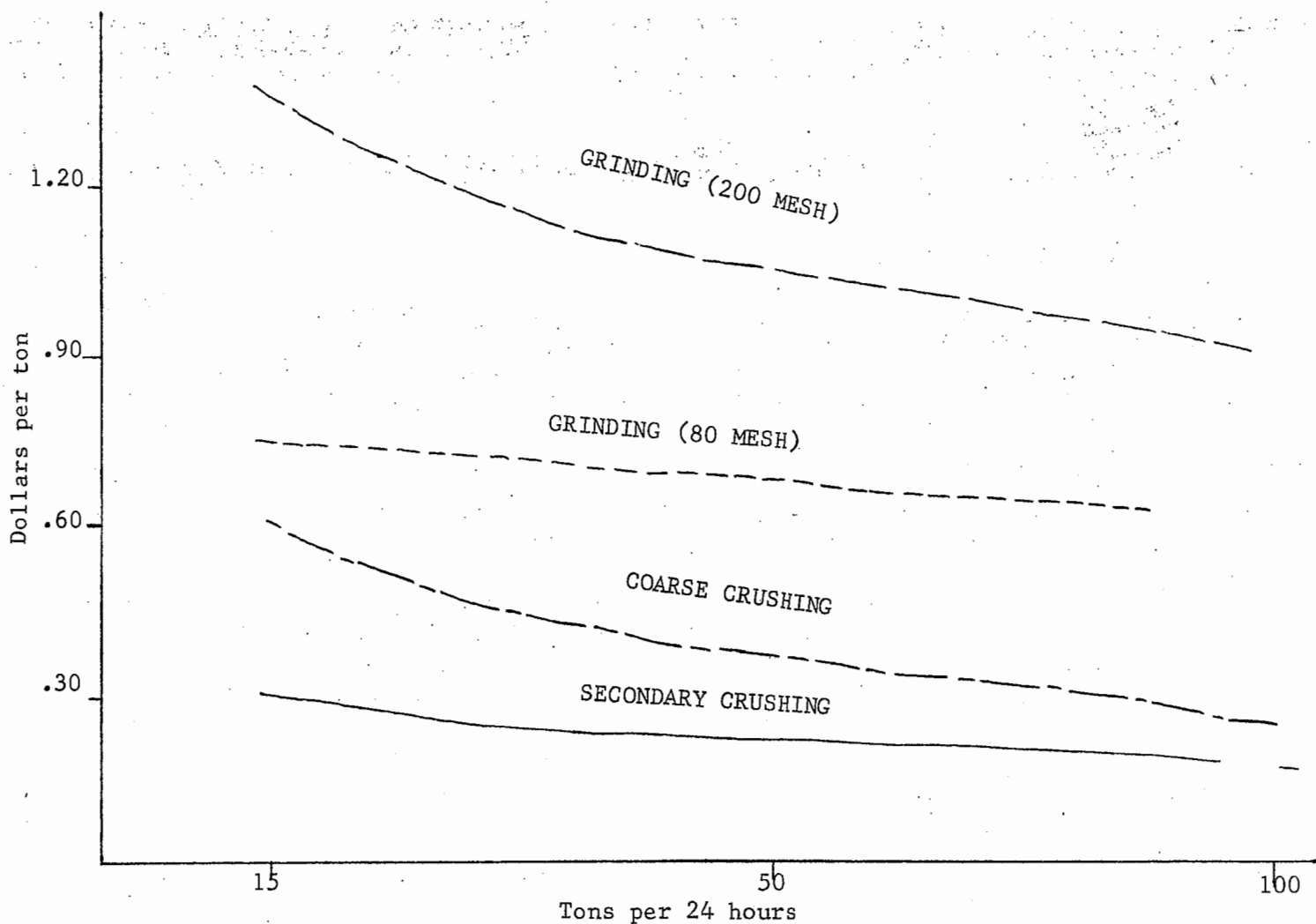


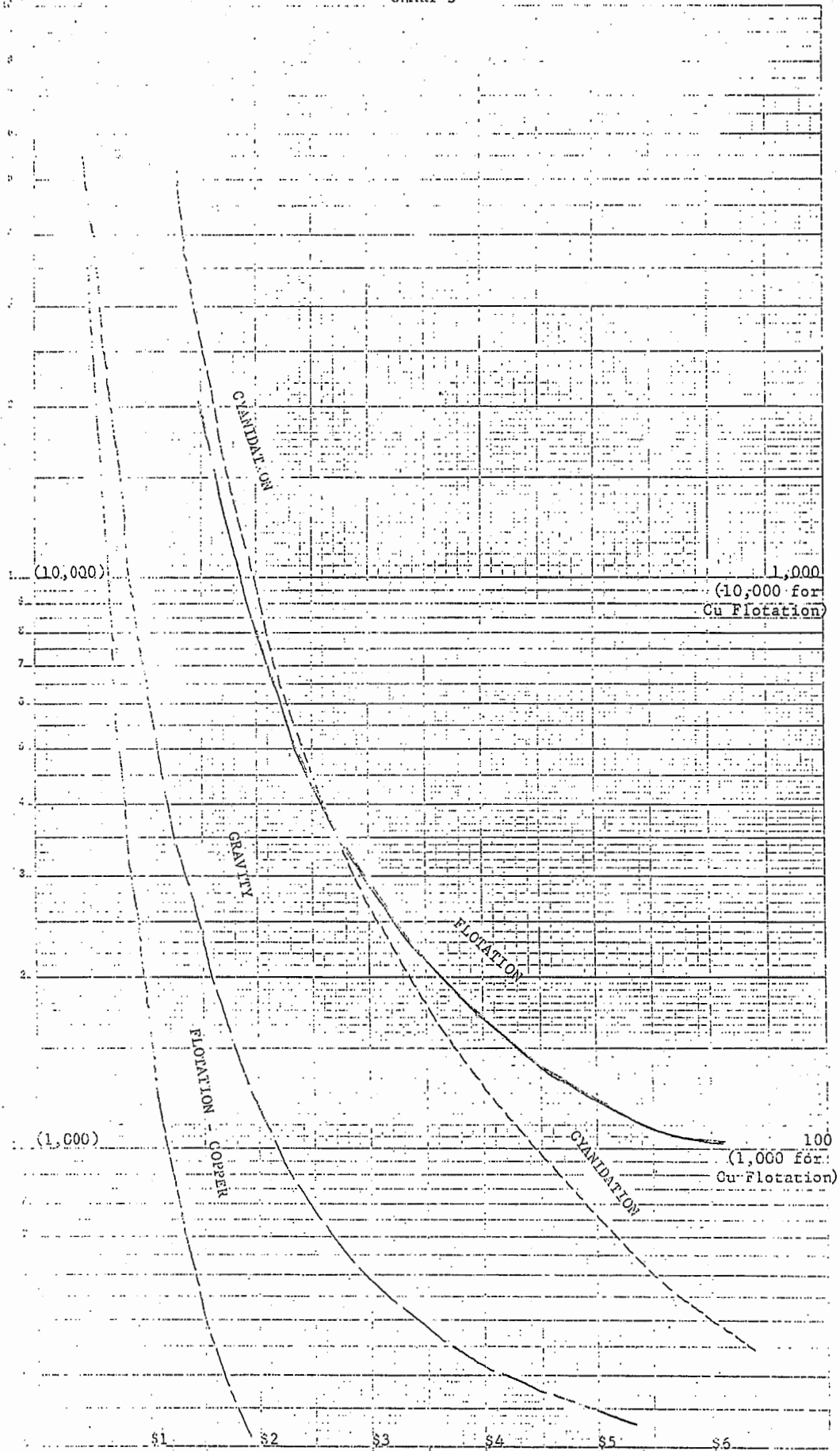
CHART 2

For large operations, over 100 tons per day, Chart 3 should be used. This was adapted from a compilation by Maynard Ayler (Mining and Milling Costs, The Mines Magazine, March 1962). These costs should be revised upward as necessary to reflect increases in wages and material costs since 1961.

Please send any additional references on this subject or other minerals subjects to DSC (D-310). If the complete article or publication is needed, DSC (D-310) will attempt to obtain a copy or a loan for you.

CHART 3

U.S. GEOLOGICAL SURVEY
BULLETIN 1032
1932



TONS PER DAY