



## Geological Survey Professional Paper Volume 600, PT. 3

By Geological Survey

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. Excerpt: .bitumen was then determined gravimetrically after removal of free sulfur. Free sulfur constituted a variable amount of the benzene-soluble fraction, ranging from 0 to 88 percent and averaging about 25 percent of the total benzene extract; the results underscore the fact that free sulfur must be removed in order to obtain a reliable bitumen value. Free sulfur was removed from the bitumen extract and semiquantitatively determined by a chromatographic technique in which powdered copper amalgam was used as the adsorptive medium--a method suggested by B. D. McIver of Esso Production Eesearch Co., Houston, Tex. (written commun., 1966). Although it is assumed that most of the sulfur determined by this method is free sulfur, some organic sulfur compounds also were probably removed by this technique and included as free sulfur. The method of extraction of alkaline-soluble humic substances is similar to that described by Palacas, Swanson, and Moore...



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