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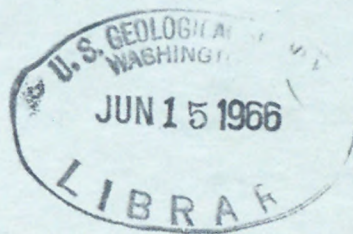
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OPEN-FILE REPORT

- Plant Microfossils from the Lakota Formation

by

Robert H. Tschudy and Sharon D. Van Loenen  
U. S. Geological Survey  
Denver, Colorado



This report is preliminary and has not been  
edited or reviewed for conformity with  
Geological Survey standards on nomenclature

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As a part of continuing studies to provide palynological data from critical sequences for comparative biostratigraphic studies, the microfossils found in a sample of "Pine Needle" coal have been examined and photographed. The assemblage is presented on one plate.

The sample was provided by J. A. VanLieu of the USGS, and is from coal from the lower part of the Lakota Formation at the old town of Cambria, Weston Co., Wyoming, in NE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 29, T. 46 N., R. 61 W.

Copies of this open file report and either 8 x 10" or 20 x 24" plate enlargements may be obtained for the cost of reproduction from the U. S. Geological Survey Library, Denver Federal Center, Denver, Colorado 80225.

PLATE 1

EXPLANATION

USGS Paleobotanical locality D3682

Figures 1-6: monosulcate pollen

9: Classopollis

7-8, 10-27: spores of Pteridophyta

28-31: Araucaria or Tsuga-like Gymnosperm pollen

32-37: spores possessing a perisporium

38-48: pollen of disaccate Gymnospermae

A sample of the "Pine Needle" coal is also pictured. The pine needle-like structures are solid, apparently structureless resin rods.

When the plate is enlarged to 20 x 24 inches, the magnification will be about 1000X.



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