

DEPARTMENT OF THE INTERIOR  
UNITED STATES GEOLOGICAL SURVEY

**THICKNESS, PERCENT SAND, AND CONFIGURATION OF  
SHALLOW HYDROGEOLOGIC UNITS IN THE POWDER  
RIVER BASIN, MONTANA AND WYOMING**

**By Barney D. Lewis and  
William R. Hotchkiss**

Prepared in cooperation with the  
MONTANA BUREAU OF MINES AND GEOLOGY  
AND THE U.S. BUREAU OF LAND MANAGEMENT

MISCELLANEOUS INVESTIGATIONS SERIES  
Published by the U.S. Geological Survey, 1981