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OPEN-FILE REPORT

Plant Microfossils of the Hazard No. 7 coal Perry County, Kentucky

by

Robert M. Kosanke
U.S. Geological Survey
Denver, Colorado

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



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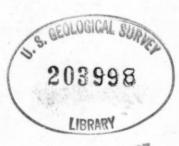
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JUN 2 8 1967

The cooperative mapping program between the Kentucky
Geological Survey and the U. S. Geological Survey has yielded a
number of interesting and valuable by-products. As a part of the
stratigraphic studies involving Carboniferous coal fields,
R. M. Kosanke has been involved in a detailed analysis of spore
floras from various coal horizons. This study is aimed toward a
correlation within the eastern coal field and, eventually, toward
more accurate correlations with the western Kentucky coal fields.

The sample illustrated here is from four segments and the underclay of the Hazard No. 7 coal of Pennsylvanian age at its type locality. The type locality is in the Hazard North quadrangle, coordinates 23-J-76, 1475' FSL x 2300 FEL, Perry County, Kentucky.

Copies of this open-file report and plate enlargements may be obtained for the cost of reproduction from the U. S. Geological Survey Library, Denver Federal Center, Denver, Colorado, 80225. Each plate will be approximately 20 x 24 inches and the figures will be at about X750.

SCALE I T T T T T 50 MICRONS

PLANT MICROFOSSILS OF THE HAZARD NO.7 COAL

I SAMPLE FROM TYPE LOCALITY, BREATHITT FORMATION (PENNSYLVANIAN) USGS PALEOBOT LOC D3302, PERRY CO., KY INOT TO BE REPRODUCED)

### PLATE 1

### EXPLANATION

USGS Paleobotanical locality D3302; four segments and the underclay of the Hazard No. 7 coal at its type locality: Hazard North quadrangle, coordinates 23-J-76, 1475' FSL x 2300 FEL, Perry County, Kentucky.

Figures 1-2:	Alatisporites	49-57:	Punctatisporites
3-5:	Calamospora	58:	Simozonotriletes =
6-7:	Callisporites = Savitrisporites		Murospora of Playford
	of Sullivan (1964)		(1962)
8:	Cirratriradites	59-61:	Raistrickia
9- 10:	Convolutispora	62-66:	Reticulatisporites
11-13:	Radiizonates	67-70:	Triquitrites
14-17:	Densosporites	71-72:	Wilsonites
18:	Dictyotriletes	73-78:	unassigned trilete
19-21:	Endosporites		spores
22-24:	Florinites	- F	
25-36:	Granulatisporites	M.	
37:	Knoxisporites		
38-44:	Laevigatosporites		
45-57:	Lycospora		

Not illustrated are several fragments of spores belonging to the genus Vestispora.

48: Murospora

### REFERENCES

- Playford, Geoffrey, 1962, Lower Carboniferous microfloras of Spitsbergen: Palaeontology, v. 5, pt. 3, pp. 550-618, pls. 78-87.
- Sullivan, H. J., 1964, Miospores from the Drybrook Sandstone and associated measures in the Forest Dean basin, Gloucestershire: Palaeontology, v. 7, pt. 3, pp. 351-392, pls. 57-61.



# GEOLOGIC DIVISION U. S. GEOLOGICAL SURVEY Washington, D. C.



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- 2. Plant microfossils of the Hazard No. 7 coal, Perry County, Kentucky, by Robert M. Kosanke. 1 pl., 1 p. text; 1 p. plate explanation. On file in USGS office, 496 Southland Drive, Lexington, Ky. Plate negative (24" X 30") from which copies can be made at private expense is available in the Library, Bldg. 25, Federal Center, Denver, Colo.
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- 6. Surficial geologic map of the Fitchville quadrangle, New London County, Connecticut, by Fred Pessl, Jr. 1 map and explanation (scale 1:24,000), 6 photographs, 6 gravel pit data sheets. Room 1, 270 Dartmouth St., Boston, Mass.; Connecticut Geol. and Natural History Survey, Judd Hall, Wesleyan University, Middletown, Conn. Copies from which reproductions can be made at private expense are available in the Boston office.

\* \* \* \* \*

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