

EXPLANATION

MAP

Traverse Location
 1-8 Tyne River valley
 9-13 Buffalo River valley
 14-17 Upper Roanoke River valley
 18-20 James River valley

Cross section 31 and auger hole G are along the James River east of the area shown. They can be located using the coordinates given in table 1.

Traverse. Number indicates associated cross section

Auger hole. Letter indicates log

Roseland Anorthosite body (after Herz and others, 1970, pl. 1)

CROSS SECTIONS

Clay-silt
 Sand
 Gravel
 Schist pebble
 Bedrock

Log of hole. Number indicates percent of heavy minerals by weight

Auger sample number. Some samples that are listed in table 1 are not shown in the cross sections. The reasons for these omissions are given in remarks column of table 1.

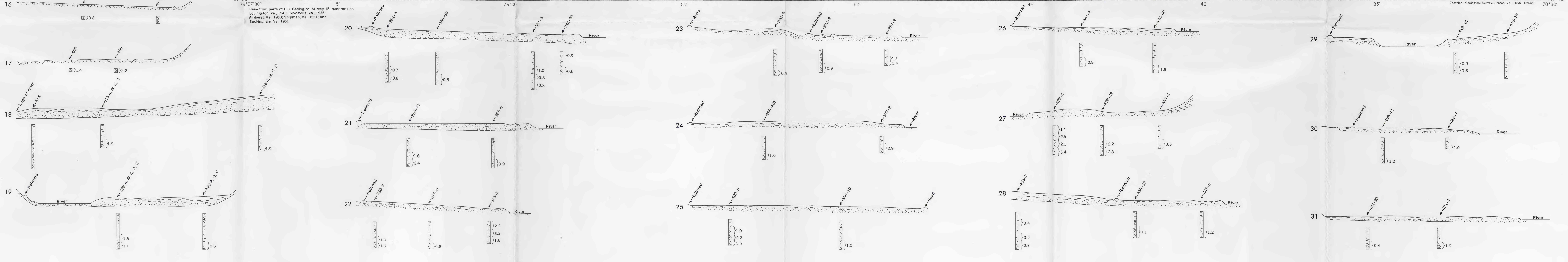
Column (vert. exag. 10x scale of cross section and 200x scale of map) 50ft (1.5m)
 Cross section (vert. exag. 2x hor. scale and 40x scale of map) 25ft (7.6m)

Cross section (hor. exag. 20x) 500 FEET
 100 METRES



Logs of single auger holes in alluvium terraces and bars along the James River

A	B	C	D	E	F	G
2.0	1.7	1.7	0.2	0.6	1.1	1.1
1.7	1.7	0.5	0.2	0.6	1.1	1.1
1.7	1.7	0.5	0.2	0.6	1.1	1.1
1.7	1.7	0.5	0.2	0.6	1.1	1.1



MAP OF THE CENTRAL VIRGINIA RUTILE DISTRICT SHOWING SITES AUGERED, LOCATIONS AND CROSS SECTIONS OF AUGER TRAVERSES, AND LOGS OF HOLES WITH PERCENT OF HEAVY MINERALS