



**EXPLANATION**

Recent	Qal	Alluvium Gravel, sand, and clay	
Pleistocene	Qa	Talus	
	Qc	Angular quartzite blocks on mountain slopes	
	Qd	Gravel deposits Gravels and associated conglomerates, laid down on terrace surfaces, Qg 1, older gravel deposits; Qg 2, intermediate deposits; Qg 3, younger deposits	
Triassic (?)	Tr	INTRUSIVE CONTACT	
	Tr	Intrusive igneous rocks Basic igneous rocks in dikes and sills near Elkton and on Long Ridge	
	Tr	Martinsburg shale Shale and sandy shale	
	Tr	Dark-gray limestone	
	Tr	Beekmantown dolomite Thick-bedded dolomite; includes Chapin's limestone, and <i>U</i> stratified at base	
	Tr	Conococheague limestone Thick-bedded limestone, in part argillaceous or sandy	
	Tr	Elbrook dolomite Thin-bedded dolomite	
	Tr	Waynesboro formation Red and brown shale, some limestone	
	Tr	Tomstown dolomite Small outcrop areas near Falls Run; black shales above shale dolomite has been preserved in drill holes	
	Tr	Antietam quartzite Qa, lower member of white thick-bedded quartzite, with Scollins beds; Qau, upper member of interbedded sandstone and quartzite	
Ordovician	Or	Harpers formation Thin-bedded siltstone, with shale member, Crs, at base in south	
	Or	Weyerform formation Qw, lower member of conglomerate and arkose; Com, middle member of shale; Cwu, upper member of quartzite (in part ferruginous) and siltstone	
	Or	Loudoun formation Tuffaceous shale	
	Or	Catoctin greenstone Altered basaltic lava, and interbedded tuffaceous sediments	
	Or	Swift Run formation Conglomerate, quartzite, and slate	
	Or	Injection complex Granodiorite and unakite, with gneissic structure	
	Or	(Cw)	Letter symbol in parentheses indicates bedrock formation where concealed by unconsolidated deposits
	Or	Contacts Solid lines, bedrock contacts; dashed lines, bedrock contacts where indefinite or concealed by unconsolidated deposits; dotted lines, contacts of unconsolidated deposits	
	Or	Faults Solid where known; dashed where approximately located; dotted where concealed by unconsolidated deposits	
	Or	High-angle fault U, upthrown side; D, downthrown side	
Cambrian	Arrows	Arrows indicate relative movement	
	T	Thrust fault T, indicates upthrown side	
	Anticline	Showing trace of axial plane and bearing and plunge of axis	
	Syncline	Showing trace of axial plane and bearing and plunge of axis	
	Axis	Axis of monocliminal flexure	
	Strike and dip	Strike and dip of beds	
	Strike and dip	Strike and dip of overturned beds	
	Strike and dip	Strike of vertical beds	
	Horizontal	Horizontal beds	
	Generalized	Generalized strike of contorted beds	
Strike and dip	Strike and dip of slaty cleavage		
Sink holes	Sink holes		
In areas underlain by limestone or dolomite	Shaft		
	Tunnel or incline		
	Open cut		
	Mine dump		
	Prospect pit		
	Drill hole		
	Put down by U. S. Bureau of Mines in 1941; with serial number; only those which penetrated Tomstown dolomite shown, others omitted		
	Quarry		
	In operation in 1941		
	Abandoned quarry		

Base from U.S. Geological Survey maps of Mt. Jackson, Stone Mountain, and Madison quarries, Virginia.

Geology by F. B. King and John Rogers. Surveyed in 1940-41.

### GEOLOGIC MAP OF ELKTON AREA, VIRGINIA

SCALE 1:31250



CONTOUR INTERVALS 20 AND 50 FEET (SEE DIAGRAM)

DATUM IS MEAN SEA LEVEL