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EXPLANATION

Qal Alluvium Dip symbol in alluvium indicates isolated outcrop of bedrock	Qb Beach deposits Dip symbol in beach deposits indicates isolated outcrop of bedrock
Qc Surficial cover Principally tundra and soil, but locally includes frost-broken regolith and slope wash	Qd Terrace deposits Includes stream terrace gravels and deposits on the Last River terrace
Qe Talus cones	Qf Alluvial fan deposits
Qg Glacial moraine Shown only where it completely mantles bedrock Qm, lateral moraines	Qh Glacial outwash
Qj Conglomerate Includes lithified gravels of beach, deltaic and continental deposits on the York terrace	Qk Dikes Includes rhyolite porphyry, feldspar porphyry and quartz-diorite or lamprophyre
Ql Granite Includes coarse-grained and medium-grained biotite granite at Brooks Mountain and Tin Creek	Qm Limestone Principally medium-bedded, medium-gray to dark gray, fossiliferous limestone
Qn Limestone and shale Medium-bedded, medium-gray to medium dark gray limestone which weathers dark yellowish brown to dusky yellowish brown, underlain by dark carbonaceous and graptolitic shale	Qo Limestone and argillaceous limestone Distinct pinkish cast on fresh fracture; weathers light gray to light bluish gray. Locally contains lenses of light gray chert. Abundant trilobite fragments. Not differentiated south of Brooks Mountain
Qp Limestone, argillaceous limestone and dolomitic limestone Oal, massive micritic limestone with chert nodules locally, interbedded with argillaceous limestone. Sparse fossils include cephalopod siphuncles and brachiopods. Quiet water facies. Oal, thin-bedded rutile argillaceous limestone, dolomitic limestone and carbonaceous limestone, silty limestone, and subordinate massive micritic limestone. Thin-bedded units contain abundant ripple marks, swash marks, worm tube casts, cross beds, and limestone clasts. Local stromatolites. Shallow water facies.	Qq Limestone and argillaceous limestone pOl, limestone, argillaceous limestone and dolomitic limestone, generally thin to medium bedded. In upper part contains few worm tube casts. West of Mint River may contain infolded Oal and/or pOl, but for most part is probably pre-Early Ordovician in age. pOld, medium-bedded to thick-bedded, medium-gray to dark gray micritic limestone with local nodules of dark chert
Qr Gabbro	Qs Limestone and argillaceous limestone Principally thin-bedded light gray to light olive gray dolomitic and argillaceous limestone which weathers limonitic; locally schistose. Cut by numerous veins and veinlets of quartz-carbonate, some of which contain gold
Qs Slate of the York Region pOl, buff-weathering laminated siltstone, lenticular black limestone veined with white calcite, and schistose slate pOp, schistose pelitic rock which weathers a distinctive light gray with bluish-gray streaks pOsg, slate, slaty limestone, and sheared graywacke	Qs Tactite
Qs Breccia	Qs Veins A, tourmaline-fluorite or sulfides-fluorite B, quartz-tourmaline (not shown outside of Brooks Mountain area)
Qs Contact, showing dip Dashed where gradational or approximately located, dotted where concealed	Qs Fault, showing dip U, upthrown side; D, downthrown side. Dashed where approximately located, dotted where concealed, queried where probable
Qs Thrust fault, showing dip Sartooth on upper plate. Dashed where approximately located, dotted where concealed, queried where probable	Qs Strike and dip of beds Strike of beds and direction of dip
Qs Strike and dip of conglomerated beds Showing ranges of dips to either side	Qs Strike and direction of dip of conglomerated beds
Qs Strike and dip of cleavage or schistosity	Qs Anticline Showing crestline and direction of plunge; dashed where approximately located,
Qs Syncline section of plunge; dashed where approximately located,	Qs Bearing and plunge of dragfold axis
Qs Prospect pit, trench, or adit	Qs Lacial erratic of granite from Brooks Mountain

Mapped by the Army Map Service
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167° 30'

SCALE
0 1 2 3 4 MILES

DATUM IS MEAN SEALEVEL
CONTOUR INTERVAL 50 FEET

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Geology by C. L. Sainsbury, 1960-1963,
assisted by Donald Grybeck, 1961, and by
Thomas E. Smith, 1962

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PRELIMINARY GEOLOGIC MAP AND STRUCTURE SECTIONS OF THE CENTRAL YORK MOUNTAINS, SEWARD PENINSULA, ALASKA

