OPEN-FILE REPORT
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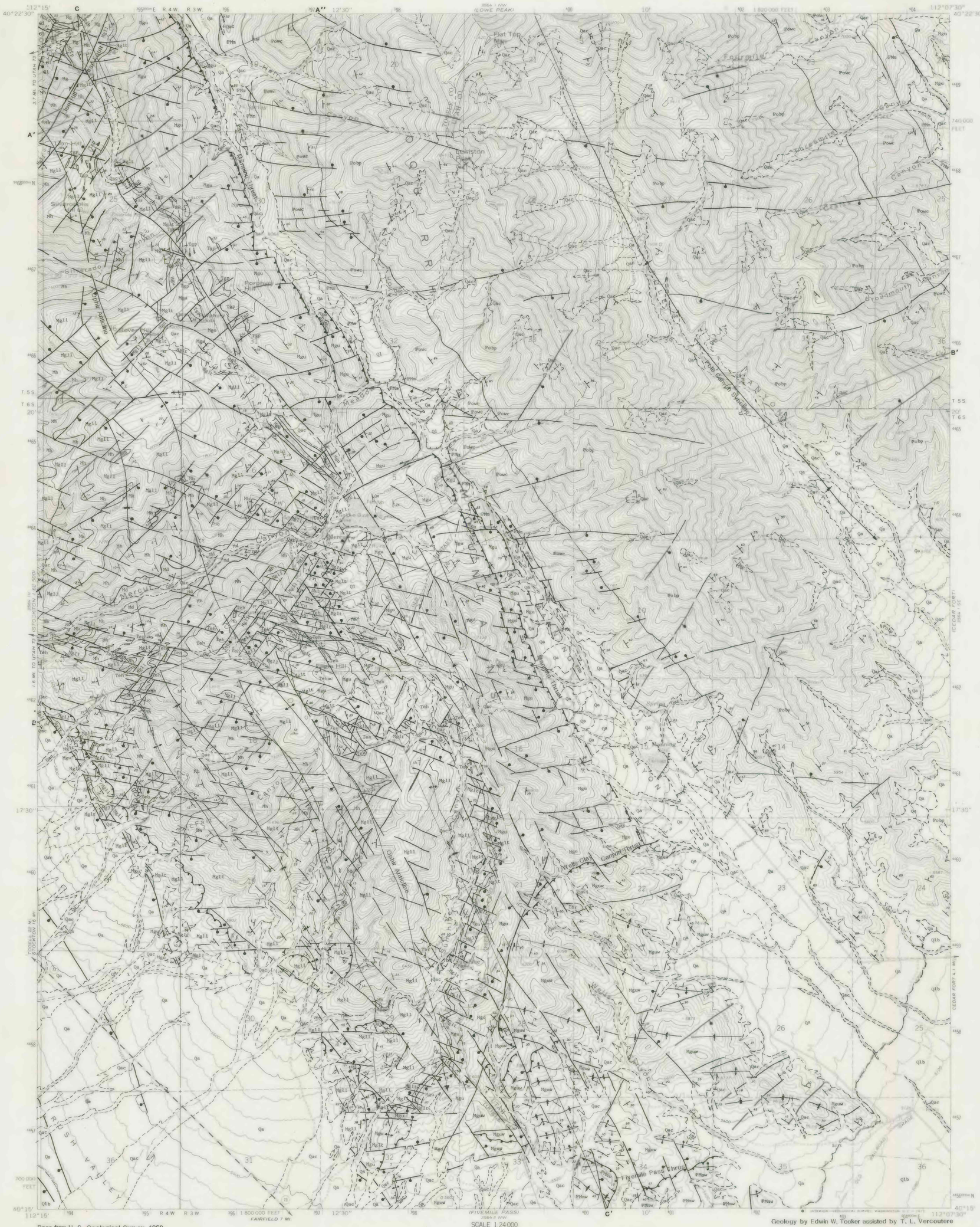

Geology by Edwin W. Tooker assisted by T. L. Vercoutere and D. B. Vander Meulen, 1981-1984

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.

Geologic Map of the Mercur Quadrangle, Tooele and Salt Lake Counties, Utah

By
Edwin W. Tooker

1987

EXPLANATION

MAP UNITS

Ql	LANDSLIDE DEBRIS
Qac	ALLUVIUM AND COLLUVIUM
Qlb	LAKE BONNEVILLE DEPOSITS
Qa	ALLUVIUM
Tbp	INTRUSIVE BRECCIA PIPES
Teh	EAGLE HILL RHYOLITE
Tgp	GRANODIORITE PORPHYRY
	OQUIRRH GROUP
Ꝑobp	BUTTERFIELD PEAKS FORMATION
Ꝑowc	WEST CANYON LIMESTONE
ꝐMm	MANNING CANYON SHALE (TYPE LOCALITY)
ꝐMmw	MANNING CANYON SHALE (WELLS CANYON SEQUENCE)
Mgu	GREAT BLUE LIMESTONE, UPPER MEMBER (TYPE LOCALITY)
Mguw	GREAT BLUE LIMESTONE, UPPER MEMBER (WELLS CANYON SEQUENCE)
Mglt	GREAT BLUE LIMESTONE, LONG TRAIL SHALE MEMBER
Mgll	GREAT BLUE LIMESTONE, LOWER MEMBER
Mh	HUMBUG FORMATION
Md	DESERET LIMESTONE
Mg	GARDISON LIMESTONE
MDfp	FITCHVILLE FORMATION AND PINYON PEAK LIMESTONE
Ꞓl	LYNCH DOLOMITE

CORRELATION OF MAP UNITS

Qac, Ql	Holocene	Quaternary
Unconformity		
Qlb	Pleistocene	Quaternary
Unconformity		
Qa	Pleistocene	Quaternary
Unconformity		
Tbp	Oligocene	Tertiary
Unconformity		
Teh	Oligocene	Tertiary
Unconformity		
Tgp	Oligocene	Tertiary
unconformity		
Ꝑobp	Middle Pennsylvanian	Paleozoic
Ꝑowc	Lower Pennsylvanian	Paleozoic
ꝐMm, ꝐMmw	Upper Mississippian and Lower Pennsylvanian	Paleozoic
Mgu, Mguw	Upper Mississippian	Paleozoic
Mglt	Upper Mississippian	Paleozoic
Mgll	Upper Mississippian	Paleozoic
Mh	Upper Mississippian	Paleozoic
Md	Upper Mississippian	Paleozoic
Mg	Lower Mississippian	Paleozoic
Unconformity		
MDfp	Lower Mississippian and Upper Devonian	Paleozoic
Ꞓl	Upper and Middle(?) Cambrian	Paleozoic

MAP SYMBOLS

Folds
(normal and overturned)

anticline — syncline

Faults
(dashed where uncertain, dotted where inferred)

thrust — tear — normal
(Saw teeth on upper plate, arrows indicate direction of movement, bar-ball on down-dropped block)

Dip and strike of beds

normal (25) — overturned (25) — vertical — horizontal

Contacts of formations
(dashed where uncertain, dotted where inferred)

Lake Bonneville shoreline

Contacts of landslide units

Ql

Mines and prospects

Dams