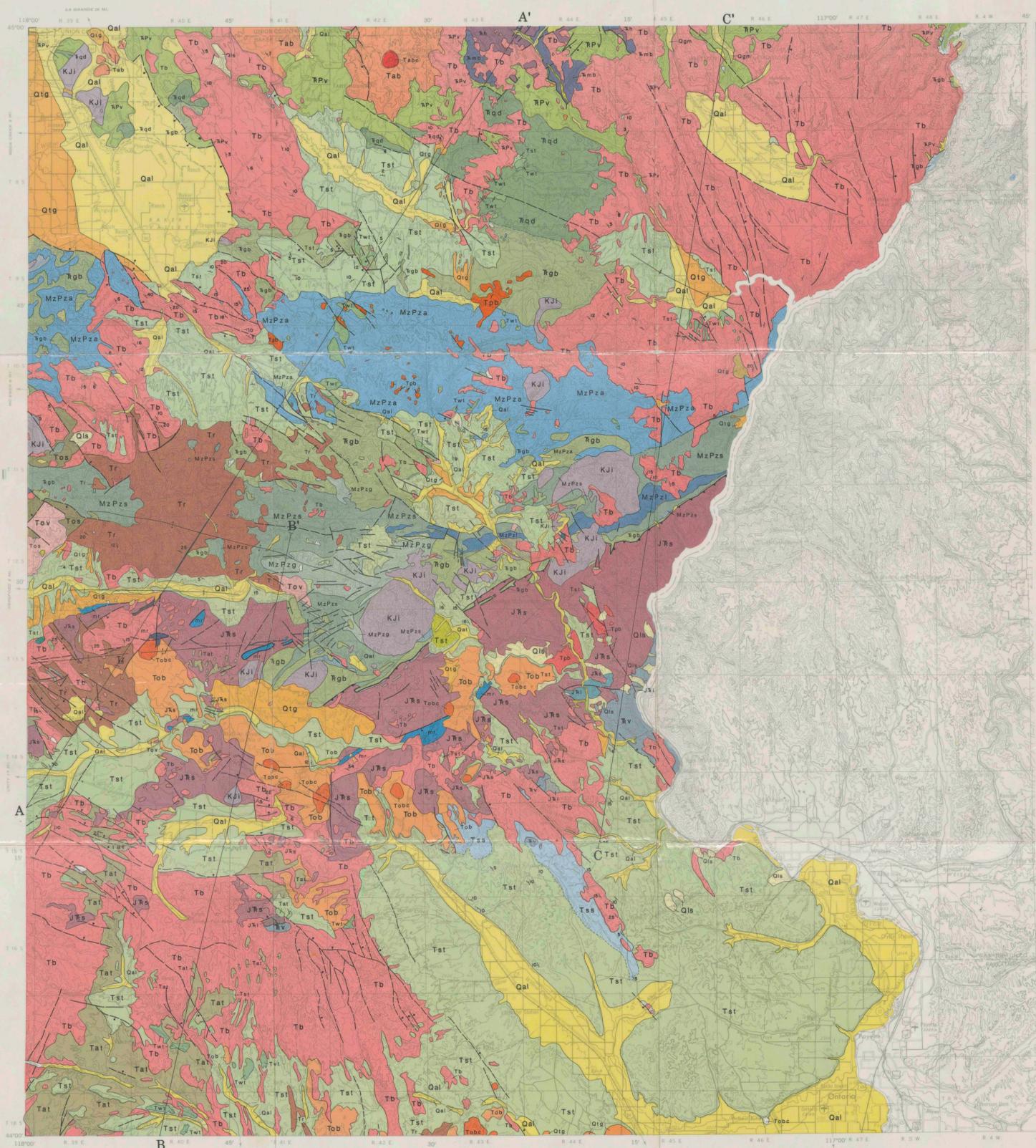
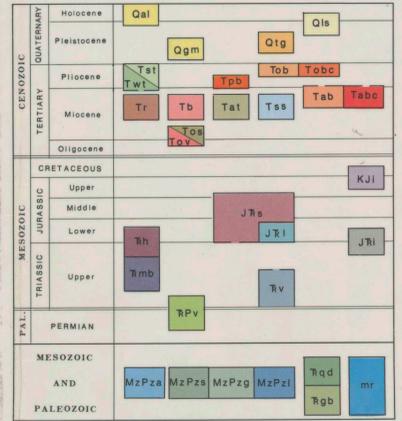


GMS-7 GEOLOGIC MAP OF THE OREGON PART OF THE BAKER 1° by 2° QUADRANGLE



STRATIGRAPHIC TIME CHART



EXPLANATION

- Qal** Alluvium: Mainly valley fill and stream channel deposits consisting of unconsolidated silt, sand, and gravel.
- Qls** Landslide debris.
- Qig** Terrace and fan deposits: Unconsolidated gravel, cobbles, and boulders with intermixed clay, silt, and sand.
- Qgm** Glaciofluvial deposits: Unsorted bouldery gravel, sand, and silt of terminal and lateral moraines.
- Tob** Basalt: Mostly thin, gently dipping flows of gray to black olivine-bearing basalt and basaltic andesite.
- Tobc** Small mafic volcanic centers: Probably the source of (Tob) flows.
- Tst** Tuffaceous sedimentary rocks: Poorly consolidated, water-laid siliceous volcanic ash, tuffaceous clay, siltstone, sandstone, minor diatomite, mud-flow deposits, air-fall and ash-flow tuffs, and some coarse epiclastic deposits. Chiefly lacustrine except in the northern part of the map area where the upper part of the sequence includes gravely fluvial deposits.
- Tpb** Basalt: Thin basalt flows and small eruptive centers. Locally overlies welded tuff of unit (Twt) and some sedimentary rocks of unit (Tst).
- Twt** Siliceous welded and non-welded tuff: Some tuffaceous sedimentary rocks included.
- Tab** Andesite and basalt: Puffy-jointed flows of hypersthene andesite and basalt. The unit is exposed only in the northern part of the map area. Stratigraphic relations are uncertain.
- Tabc** Mafic shield volcano: probably the source of (Tab) flows.
- Tss** Tuffaceous sedimentary rocks: Semi-consolidated, well-sorted, bedded, fine-grained tuffaceous sediments and water-laid tuff; lower amounts of arkosic sandstone and siltstone, impure diatomite, pumice and palagonite tuff.
- Tal** Ash flow tuffs and tuffaceous sedimentary rocks: Partly to densely welded siliceous ash-flow tuff. Includes some non-welded tuff and tuffaceous sedimentary rocks.
- Tb** Basalt and andesite: Chiefly flow on flow basalt. Includes some andesite flows, basaltic and andesitic flow breccias, palagonite tuff and breccia, and minor siliceous tuff and tuffaceous sedimentary rocks. In southeast part of area includes some siliceous flows at top of section.
- Tr** Rhyolite and andesite: Rhyolite and subordinate andesitic flows, flow breccia, welded and non-welded tuff, tuff breccia and small intrusive masses, commonly flow brecciated and locally perlitic. Includes part of Dooley Rhyolite Breccia of Gilibly (1937).
- Tos** Volcaniclastic sedimentary rocks: Poorly sorted andesite and dacite pebble and boulder conglomerate, breccia and water-laid tuff.
- Tov** Andesite and dacite: Flows, breccia, tuff, and intrusive rocks consisting of porphyritic hornblende andesite and dacite.
- Jrs** Limestone: Massive and thin-bedded limestone. Minor wacke, siltstone and arkosic sandstone.
- Jri** Sedimentary rocks: Volcanic wacke and siltstone. Some conglomeratic wacke and thin limestone lenses.
- Jrb** Sedimentary rocks: Graywacke and laminated siltstone; minor chert, thin-bedded limestone and conglomerate. Mapped as Huron Formation by Protha (1962).
- Rmb** Limestone: Massive conglomeratic and conoidal limestone interbedded with thin-bedded pyrite and carbonaceous formation by Ross (1938).
- Rv** Volcanic and sedimentary rocks: Lava flows, flow breccia, agglomerate, tuff, volcaniclastic conglomerate, breccia, sandstone, and siltstone. Chiefly andesitic; some basaltic and rhyolitic rocks. Minor limestone.
- mr** Mixed sedimentary, volcanic and intrusive rocks: Windows and fault slices of older rocks in (Qig) terrane. Includes rocks typical of units (Rg), (MzPz) and (MzPz).
- RPv** Volcanic and sedimentary rocks: Lava flows, flow breccia, and agglomerate, pyroclastic rocks, subordinate rhyolite conglomerate, sandstone, and argillite; minor chert and limestone. Volcanic rocks include spilitic and leucopyroxene. Includes Clover Creek Greenstone of Gilibly (1937).
- MzPzsa** Foliated sedimentary and volcanic rocks and marble: Includes Burnt River Schist of Gilibly (1937). Phyllitic quartzite, quartz phyllite, pelitic phyllite, minor slate, conglomerate and marble (MzPzsa). Mostly greenstone and greenschist (MzPzsa). Marble with interlayers of phyllite and slate (MzPzsa); includes Nelson Marble of Protha (1967).
- MzPzg** Sedimentary and volcanic rocks: Argillite, chert and tuff; subordinate lava flows, conglomerate, and limestone. Includes Elkhorn Ridge Argillite of Gilibly (1937).
- MzPzi** Sedimentary and volcanic rocks: Argillite, chert and tuff; subordinate lava flows, conglomerate, and limestone. Includes Elkhorn Ridge Argillite of Gilibly (1937).
- MzPza** Sedimentary and volcanic rocks: Argillite, chert and tuff; subordinate lava flows, conglomerate, and limestone. Includes Elkhorn Ridge Argillite of Gilibly (1937).

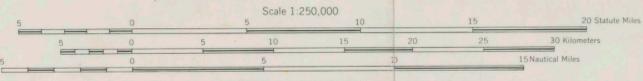
PLUTONIC ROCKS

- Kjl** Upper Jurassic-Lower Cretaceous plutons: Medium-grained hornblende and biotite quartz diorite and granodiorite. Some trondhjemite and gabbro.
- Jri** Upper Triassic - Lower Jurassic quartz diorite.
- Rqd** Pre-Upper Triassic intrusive complex: Chiefly quartz diorite and "white granite" (Rqd); gabbro and altered gabbro, minor peridotite, pyroxenite, and serpentinite (Rqg).
- Rgb** Pre-Upper Triassic intrusive complex: Chiefly quartz diorite and "white granite" (Rqd); gabbro and altered gabbro, minor peridotite, pyroxenite, and serpentinite (Rqg).

GEOLOGIC SYMBOLS

- Contact (dashed where gradational or inferred)
- Fault showing downthrown side (dashed where inferred)
- Fault, High-angle reverse
- Anticline (showing trace of axial plane and bearing and plunge of axis. Dashed where approximately located)
- Syncline (showing trace of axial plane and bearing and plunge of axis)
- Strike and dip of beds or flows

prepared in cooperation with the U.S. Geological Survey, Menlo Park

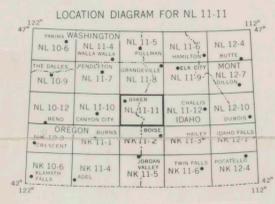
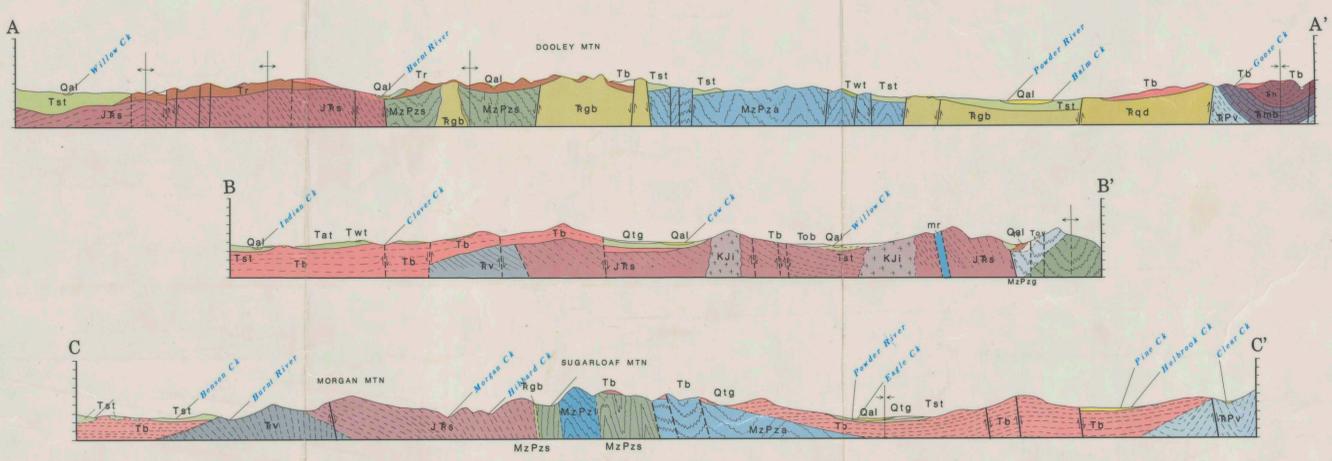


CONTOUR INTERVAL 200 FEET WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS TRANSVERSE MERCATOR PROJECTION

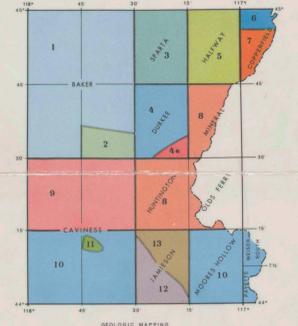
1980 MAGNETIC DECLINATION FOR THIS SHEET VARIES FROM 19°30' EASTERLY FOR THE CENTER OF THE WEST EDGE TO 19°00' EASTERLY FOR THE CENTER OF THE EAST EDGE. MEAN ANNUAL CHANGE IS 0'02" WESTERLY.

STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES 1069 State Office Building, Portland, Oregon 97201

Geologic Cross Sections



SECTIONIZED TOWNSHIP					
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36



1. Unpublished reconnaissance mapping by J.B. McIlroy, 1960-1970 and H.C. Brooks, 1970-1975.
2. Modified from Gilibly, 1937, sheet 107, covering the Baker and Baker quadrangles, U.S. Geol. Survey Bull. 679.
3. Modified from Gilibly, 1937, sheet 107, covering the Baker and Baker quadrangles, U.S. Geol. Survey Bull. 679.
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7. Modified from Gilibly, 1937, sheet 107, covering the Baker and Baker quadrangles, U.S. Geol. Survey Bull. 679.
8. Modified from Gilibly, 1937, sheet 107, covering the Baker and Baker quadrangles, U.S. Geol. Survey Bull. 679.
9. Modified from Gilibly, 1937, sheet 107, covering the Baker and Baker quadrangles, U.S. Geol. Survey Bull. 679.
10. Modified from Gilibly, 1937, sheet 107, covering the Baker and Baker quadrangles, U.S. Geol. Survey Bull. 679.
11. Modified from Gilibly, 1937, sheet 107, covering the Baker and Baker quadrangles, U.S. Geol. Survey Bull. 679.
12. Modified from Gilibly, 1937, sheet 107, covering the Baker and Baker quadrangles, U.S. Geol. Survey Bull. 679.
13. Modified from Gilibly, 1937, sheet 107, covering the Baker and Baker quadrangles, U.S. Geol. Survey Bull. 679.

Geologic compilation by H. C. Brooks, J. R. McIntyre and G. W. Walker.

Cartography by S. R. Renoud, 1976