

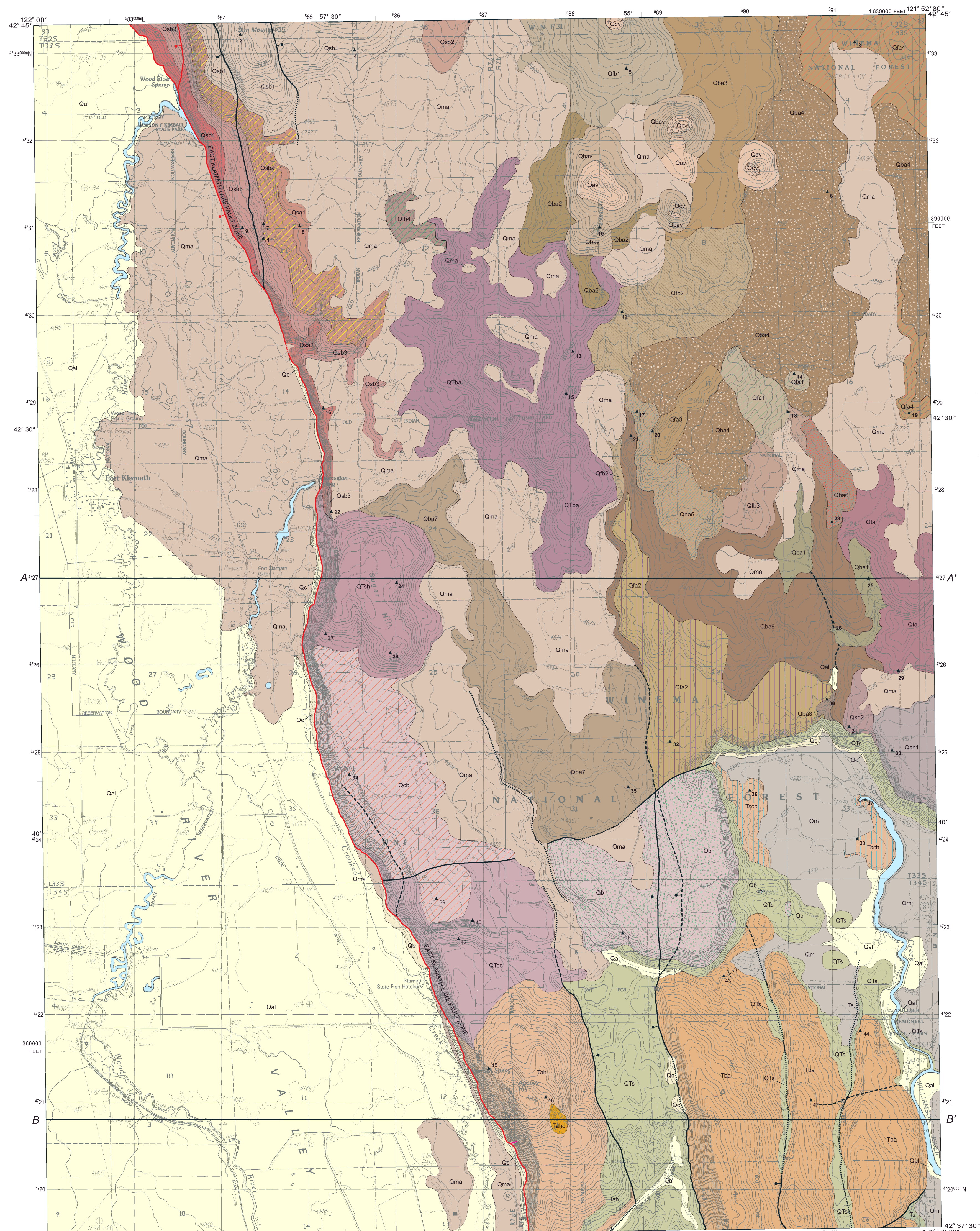
Geologic Map of the Fort Klamath Quadrangle,
Klamath County, Oregon
2004

GMS-96

Geologic Map of the Fort Klamath Quadrangle, Klamath County, Oregon

By Thomas J. Wiley

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Geology by Thomas J. Wiley, Oregon Department
of Geology and Mineral Industries

Field work conducted in 1988



Reviewed by Robert B. Murray

Acknowledgments: Harvey Waff provided CSAMT data on

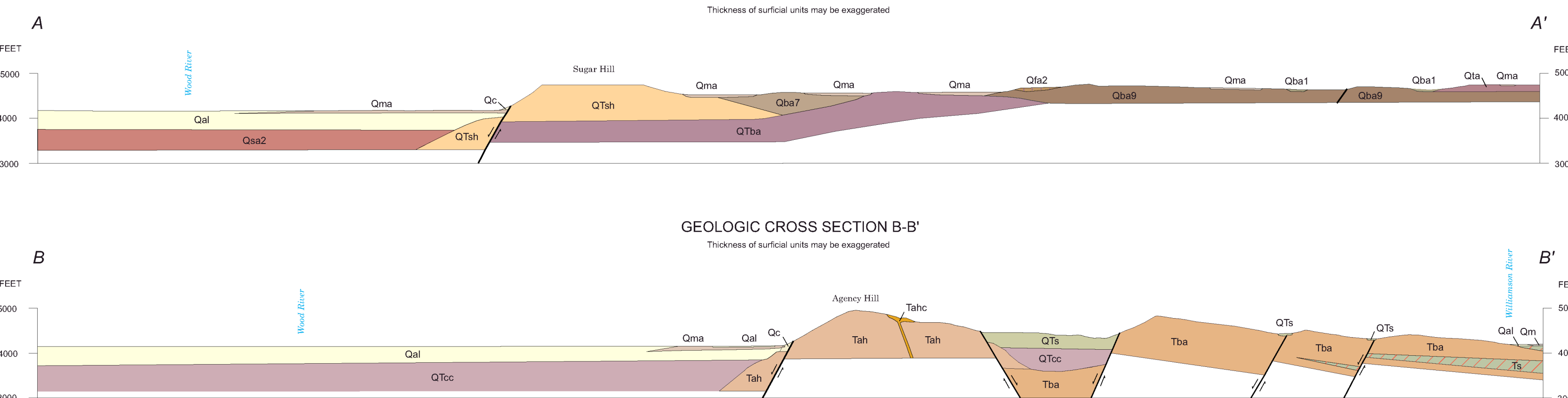
contract to the Department of Geology and Mineral Industries. George Priest provided information on the age of the Collier

Cartography by Clark Niewandorff

MAP SYMBOLS

 **Contacts**—Approximately located
 **Fault**—Certain, dashed where approximately located, dotted where concealed; ball and bar on downthrown block
 Holocene fault—Certain, dotted where concealed; ball and bar on downthrown block
 Dike—Showing strike, vertical dip
 Inclined bedding—Showing strike and dip
 Rock sample location with map number—See Table 1.1 in accompanying text

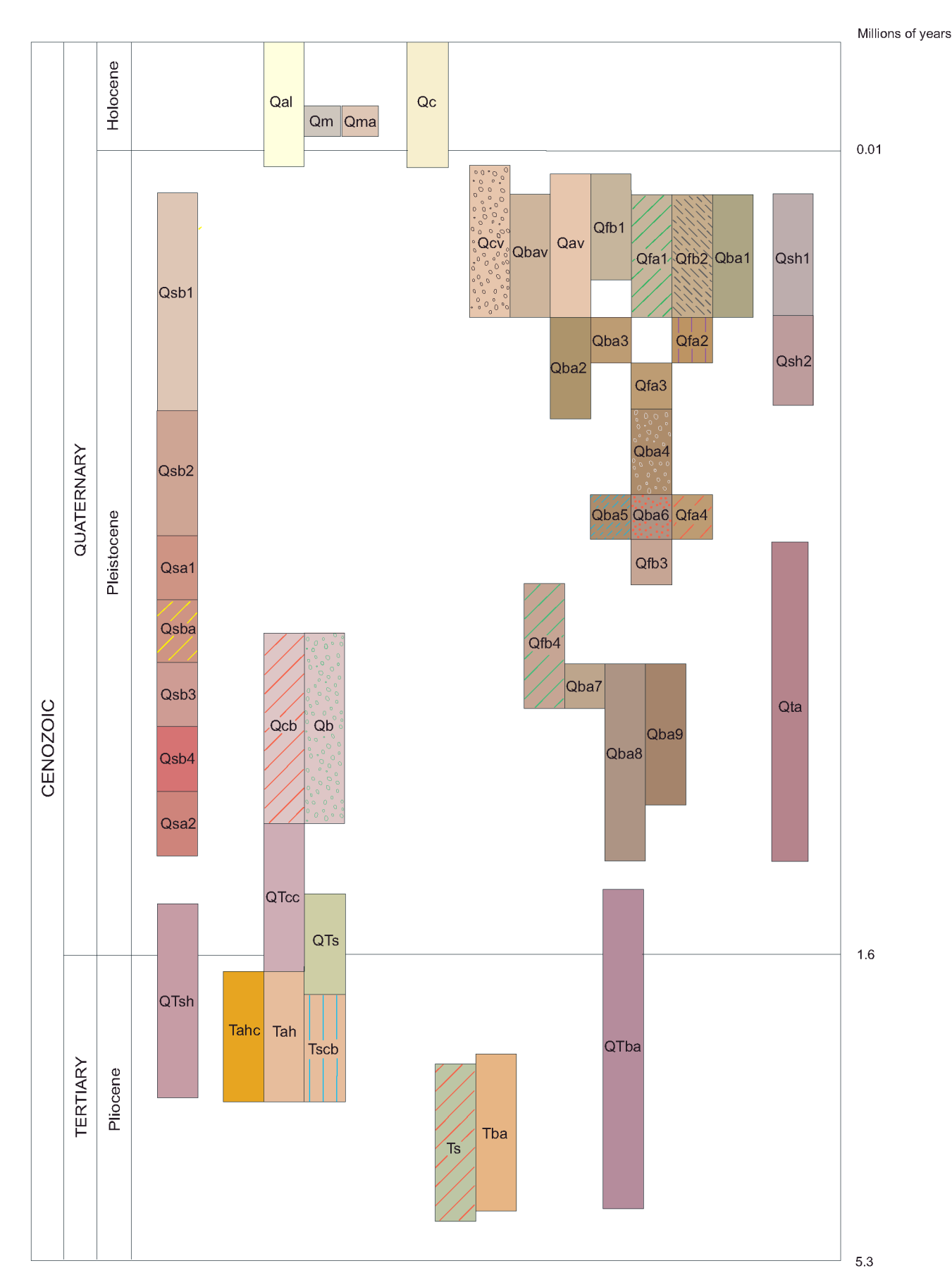
GEOLOGIC CROSS SECTION A-A'



This map is available from:

The Nature of the Northwest Information Center
800 NE Oregon Street #5
Portland, OR 97232
503/872-2750 www.naturenw.org
and the Baker City (541-523-3133) and Grants
Pass (541-476-2495) Field Offices of the Oregon
Department of Geology and Mineral Industries

TIME ROCK CHART



Time scale after Bengtson and others (1985)

EXPLANATION OF MAP UNITS

(see accompanying text for complete description of geologic units)

Surficial Units

- | | |
|-----|--|
| Qal | Quaternary alluvium (Holocene and Pleistocene) |
| Qm | Mazama ash (Holocene) |
| Qma | Mazama ash flow and ash tuff (Holocene) |
| Qc | Colluvium (Holocene and upper Pleistocene) |

Volcanic Rocks of the Forest Boundary Area

- | | |
|---|---|
|  | Basaltic andesite to andesite cinder (Pleistocene) |
|  | Andesite vent deposits (Pleistocene) |
|  | Basaltic andesite vent deposits (Pleistocene) |
|  | Vesicular olivine basalt (Pleistocene) |
|  | Andesite (Pleistocene) |
|  | Vesicular olivine basalt (Pleistocene) |
|  | Glomerophyritic olivine basaltic andesite (Pleistocene) |
|  | Basaltic andesite(?) (Pleistocene) |
|  | Olivine and pyroxene basaltic andesite(?) (Pleistocene) |
|  | Glomerophyritic olivine and two pyroxene andesite and basaltic andesite (Pleistocene) |
|  | Vesicular andesite (Pleistocene) |
|  | Porphyritic olivine basaltic andesite (Pleistocene) |
|  | Vesicular plagioclase basaltic andesite (Pleistocene) |
|  | Glomerophyritic olivine basalt (Pleistocene) |
|  | Andesite (Pleistocene) |
|  | Glomerophyritic olivine basalt(?) (Pleistocene) |
|  | Vesicular basalt(?) (Pleistocene) |
|  | Basaltic andesite (Pleistocene) |
|  | Vesicular pyroxene basaltic andesite (Pleistocene) |
|  | Olivine basaltic andesite and andesite (Pleistocene) |






Volcanic Rocks of the Spring Hill Area

- | | |
|------|--|
| Qsh1 | Porphyritic olivine and pyroxene basaltic andesite (Pleistocene) |
| Qsh2 | Glomeroporphyritic olivine basaltic andesite (Pleistocene) |
| Qt5 | Diktytaxitic olivine trachyandesite (Pleistocene) |

Volcanic Rocks of the Sun Mountain Area

- | | |
|------|---|
| Qsb1 | Olivine basalt (Pleistocene) |
| Qsb2 | Diktytaxitic olivine basalt (Pleistocene) |
| Qsa1 | Olivine andesite (Pleistocene) |
| Qiba | Glomeroporphyritic olivine basaltic andesite(?) (Pleistocene) |
| Qsb3 | Vesicular olivine basalt (Pleistocene) |
| Qsb4 | Vesicular olivine basalt and basaltic andesite (Pleistocene) |
| Qsa2 | Pyroxene andesite (Pleistocene) |

Other Quaternary Volcanic Rocks

- | | |
|---|--|
|  | Diktytaxitic olivine basalt (Pleistocene) |
|  | Diktytaxitic olivine basalt (Pleistocene) |
|  | Basalt of Copeland Canyon (Pleistocene or Pliocene) |
|  | Andesite of Sugar Hill (Pleistocene or Pliocene) |
|  | Basaltic andesite and andesite (Pleistocene or Pliocene) |

Tertiary Volcanic Rocks

- | | |
|------|---|
| Talc | Cinders and vent deposits (Pliocene) |
| Tah | Basaltic andesite of Agency Hill (Pliocene) |
| Tach | Basalt of Spring Creek (Pliocene) |
| Tba | Olivine basaltic andesite (Pliocene) |

Sedimentary Rocks

- | Sedimentary Rocks | |
|-------------------|---|
| Qts | Siltstone, sandstone, pebbly sandstone, conglomerate, palagonite tuff, and siliceous mudstone, with less common diatomite, lignite, and epicalcic ash and lapilli tuff not mapped separately (lower Pleistocene and Pliocene) |
| Ts | Siltstone, siliceous mudstone, sandstone, and palagonite tuff, with less common pebbly sandstone, conglomerate, diatomite, and epicalcic tuff not mapped separately (Pliocene) |