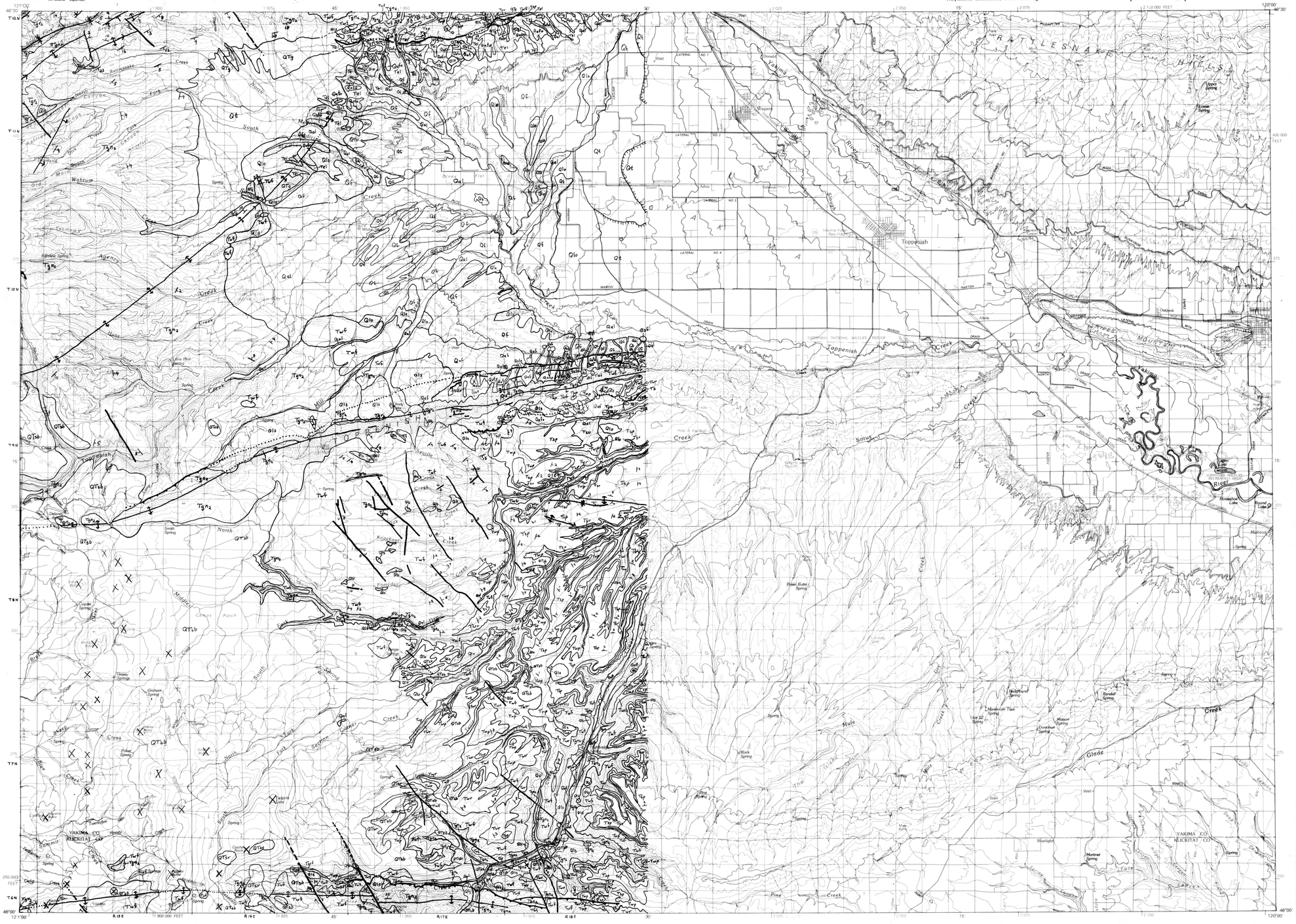
WASHINGTON STATE DEPARTMENT OF
Natural Resources
Brian Boyle · Commissioner of Public Lands
Art Stevens · Supervisor

Division of Geology and Earth Resources
Raymond Lasmanis, State Geologist

Open File Report 86-3



Toppenish
WASHINGTON

SURFICIAL DEPOSITS

QUATERNARY

- Qal — Alluvium
- Qt — Terraced deposits
- Qaf — Alluvial fan deposits
- Qls — Landslide deposits
- Qlo — Eolian deposits
- Qafo — Older alluvial fan deposits
- Qf — Catastrophic flood slackwater sediments

PLIOCENE - PLEISTOCENE

- QTg — Older gravel remnants

SEDIMENTARY AND EXTRUSIVE IGNEOUS ROCKS

PLIOCENE - PLEISTOCENE

Simcoe Mountains Volcanics

- QTsb — Olivine basalt
- QTsd — Dacite
- QTsr — Rhyolite and associated volcaniclastic rocks

MIOCENE

Columbia River Basalt Group

Saddle Mountains Basalt

- Tse — Elephant Mountain Member
- Tsp — Pomona Member
- Tsu — Umatilla Member

Wanapum Basalt

- Twp — Priest Rapids Member
- Twr — Roza Member
- Twf — Frenchman Springs Member

Grande Ronde Basalt

- Tgn2 — Upper flows of normal polarity
- Tgr2 — Flows of reversed polarity

- Tel — Ellensburg Formation

This report consists of 1 map sheet and a 7-page text.

EXPLANATION

- Horizontal beds
- Strike and dip of beds
- Contact
- Anticline (arrow showing plunge; dotted where concealed)
- Syncline (arrow showing plunge; dotted where concealed)
- Monocline (arrow on side with greater inclination)
- Thrust fault (barbs on upper plate; dotted where concealed)
- High angle fault (U/D and showing relative motion; dotted where concealed)
- Terrace scarp (hatchures on lower surface)
- Cinder cone

SCALE 1:100 000

KILOMETERS 0 1 2 3 4 5 6 7 8 9 10

MILES 0 1 2 3 4 5

FEET 5000 0 5000 10000 15000 20000 25000

CONTOUR INTERVAL 50 METERS
WITH SUPPLEMENTARY CONTOURS AT 10METER INTERVALS

Geologic Map of the West Half of the Toppenish Quadrangle, Washington

Compiled by
Timothy J. Walsh

1986