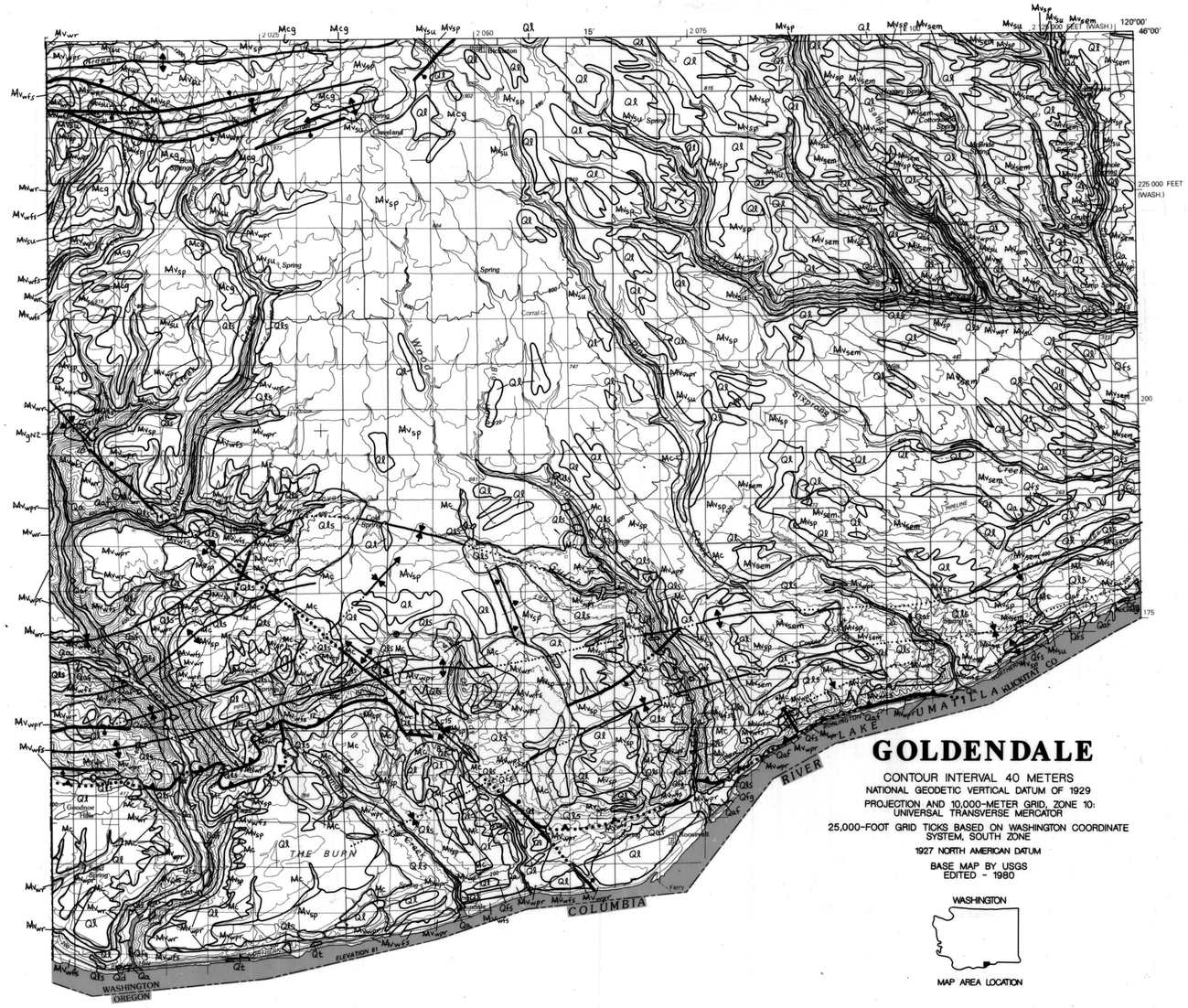
WASHINGTON STATE DEPARTMENT OF
Natural Resources
Jennifer M. Belcher · Commissioner of Public Lands
Kaleen Cottingham · Supervisor

WASHINGTON DIVISION OF GEOLOGY AND EARTH RESOURCES
Raymond Lasmanis, State Geologist

PLATE 1
OPEN FILE REPORT 94-9

GEOLOGIC MAPS OF THE EAST HALF OF THE WASHINGTON PORTION OF THE GOLDENDALE 1:100,000 QUADRANGLE AND THE WASHINGTON PORTION OF THE HERMISTON 1:100,000 QUADRANGLE



GEOLOGIC UNITS

SEDIMENTARY DEPOSITS

QUATERNARY SEDIMENTARY DEPOSITS

- **Qd** Dune sand (Holocene)
- **Qa** Alluvium (Holocene)
- **Qls** Mass-wasting deposits (Holocene to Pleistocene)
- **Ql** Loess (Holocene to Pleistocene)
- **Qaf** Alluvial fans (Holocene to Pleistocene)
- **Qfs** Outburst flood deposits, silt and sand (Pleistocene)
- **Qfg** Outburst flood deposits, gravel (Pleistocene)
- **Qt** Terrace deposits (Pleistocene)

TERTIARY SEDIMENTARY DEPOSITS

- **Mc** Continental sedimentary deposits (upper and middle Miocene)
- **Mcg** Continental sedimentary deposits, conglomerate (upper Miocene)

TERTIARY VOLCANIC ROCKS

COLUMBIA RIVER BASALT GROUP

SADDLE MOUNTAINS BASALT

- Mv_{sem} Elephant Mountain Member (upper Miocene)
- Mv_{sp} Pomona Member (middle Miocene)
- Mv_{su} Umatilla Member (middle Miocene)

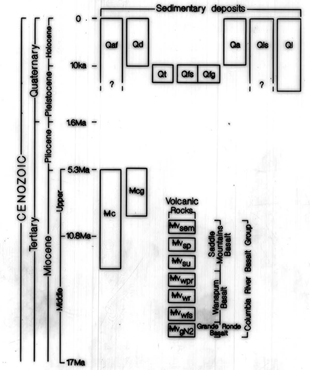
WANAPUM BASALT (MIDDLE MIOCENE)

- Mv_{wpr} Priest Rapids Member
- Mv_{wr} Roza Member
- Mv_{wfs} Frenchman Springs Member

GRANDE RONDE BASALT (MIDDLE MIOCENE)

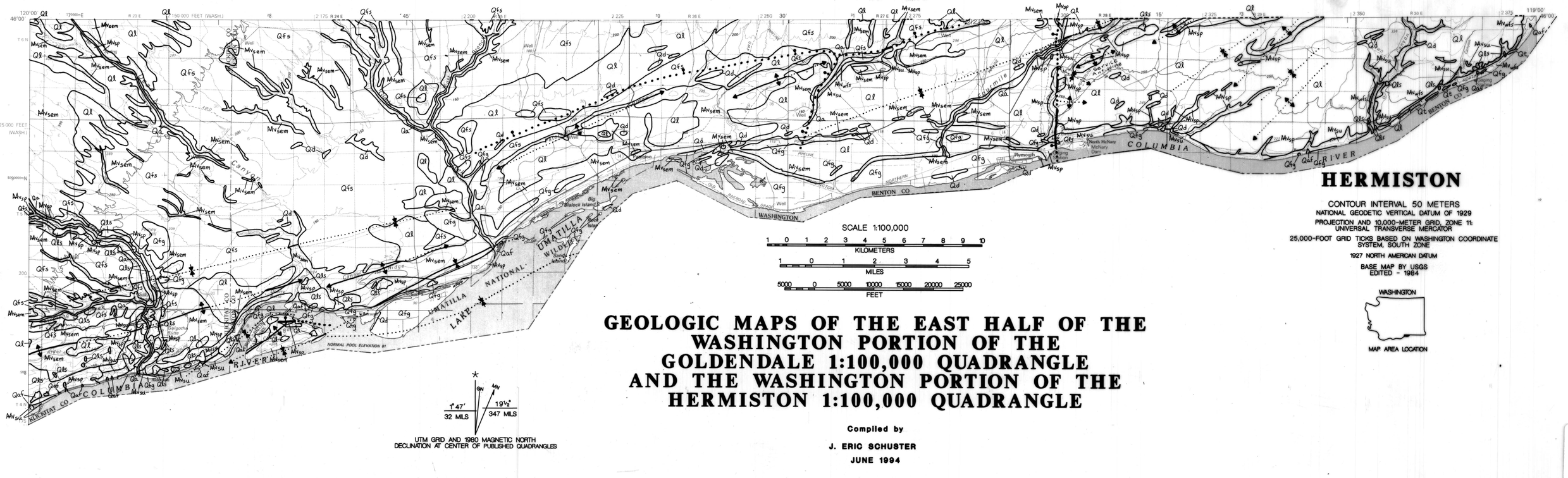
- Mv_{gN2} Upper flows of normal magnetic polarity

CORRELATION DIAGRAM



EXPLANATION

- contact.
- scratch boundary (unresolved differences between source maps).
- normal fault, dotted where concealed, bar and ball on downthrown side.
- thrust fault, dotted where concealed, teeth on upper plate.
- strike-slip fault, dotted where concealed, arrows show relative movement.
- anticline, dotted where concealed, showing plunge direction.
- syncline, dotted where concealed, showing plunge direction.
- monocline, dotted where concealed, arrow on steeper limb.
- strike and dip of inclined beds.
- horizontal beds
- same geologic unit.



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Compiled by

J. ERIC SCHUSTER

JUNE 1994

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