STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES
BRIAN J. BOYLE, Commissioner of Public Lands
JAMES A. STEARNS, Department Supervisor

DIVISION OF GEOLOGY AND EARTH RESOURCES
Raymond Lasmanis, State Geologist

GEOLOGIC MAPS OF THE ECHO VALLEY AND THE NORTH PART OF THE COLVILLE 7½-MINUTE QUADRANGLES, WASHINGTON

by

J. W. Mills, G. W. Duncan, R. C. Brainard,
C. E. Hogge, and E. R. Laskowski

Washington Department of Natural Resources
Division of Geology and Earth Resources
Olympia, WA 98504

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Brian J. Boyle, Commissioner of Public Lands
Art Stearns, Supervisor

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Raymond Lasmanis, State Geologist

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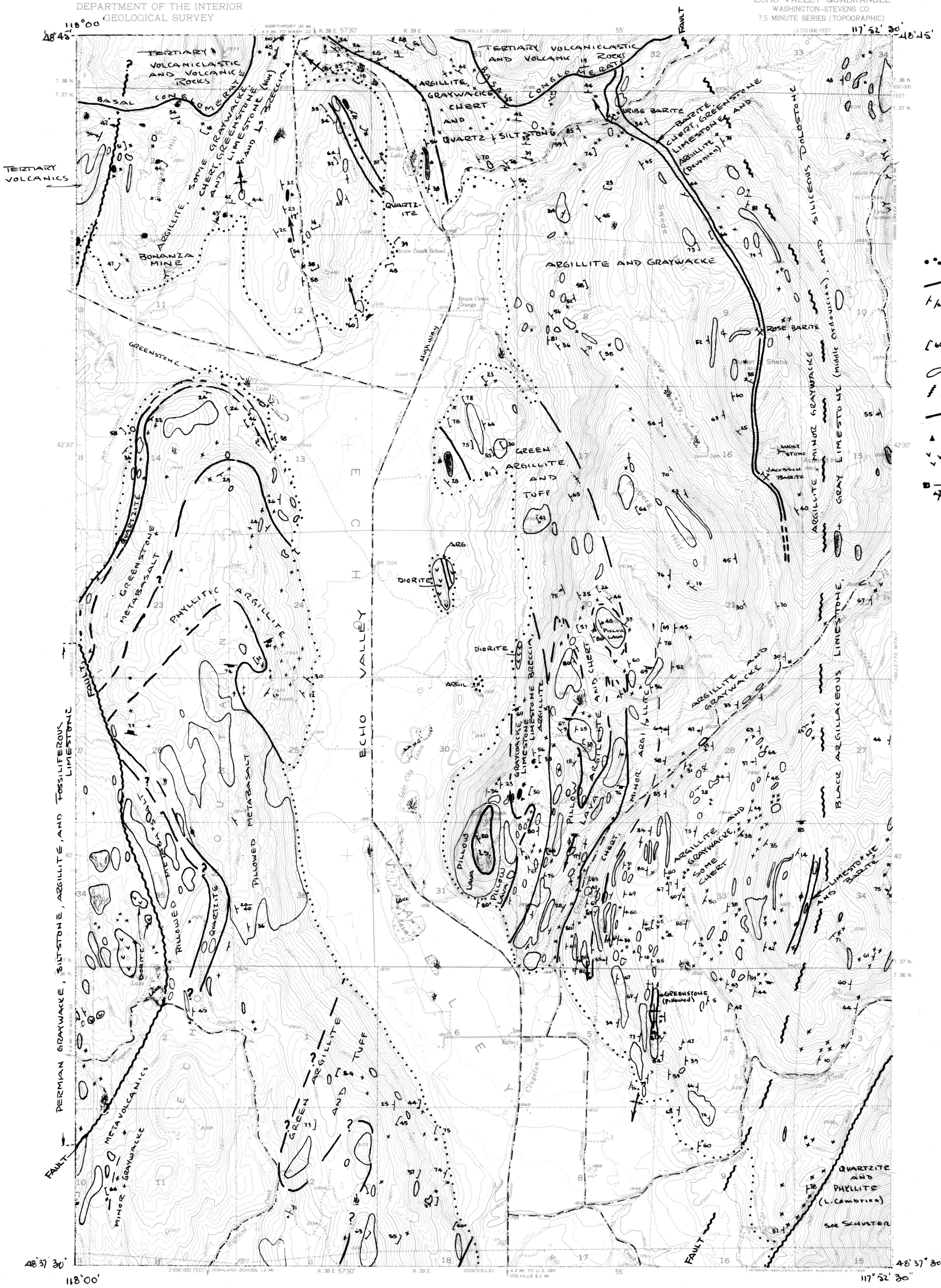
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ECHO VALLEY QUADRANGLE
WASHINGTON-STEVENS CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



LEGEND

- QUATERNARY ALLUVIUM MARGIN
- ROCK CONTACT, KNOWN, ASSUMED
- BEDDING STRIKE AND DIP INCLINED, INDICATED BED TOP, HORIZONTAL, VERTICAL
- ROCK CLEAVAGE
- ROCK JOINTING
- OUTCROPS
- FAULT, HI ANGLE, THRUST
- FOLD AXIS ATTITUDE
- BRECCIA
- DIORITE (Tertiary)
- MINE SHAFT, PORTAL, PROSPECT

Sheet 1 of 2

GEOLOGIC MAP ECHO VALLEY QUADRANGLE, WASHINGTON

GEOLOGY BY J.W. MILLS, G.W. DUNCAN, R.C. BRAINARD, C.E. HODGE, AND E.R. LASKOWSKI

1983

DRAWN BY J.W. MILLS

SCALE 1:24,000

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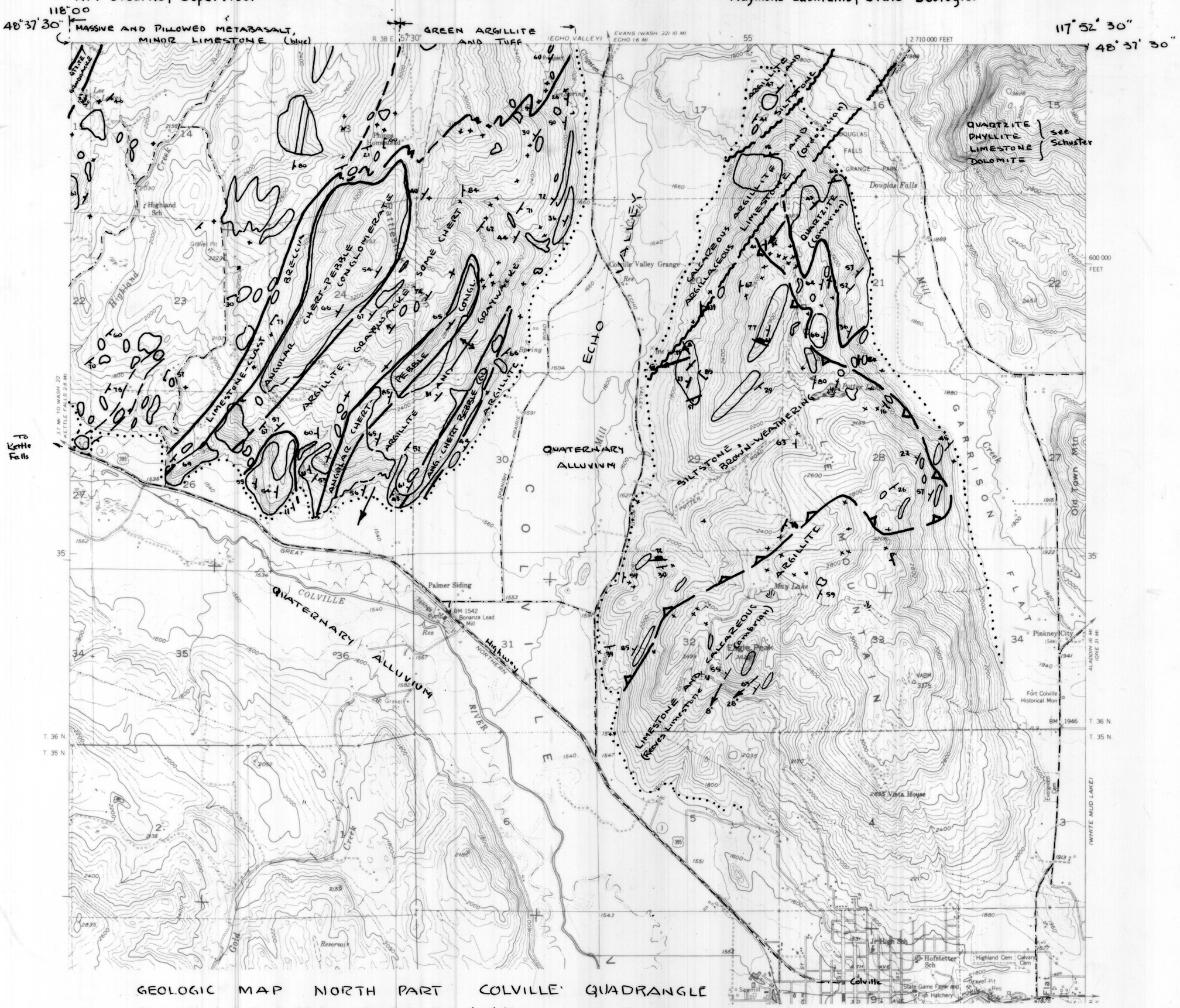

LEGEND
see ECHO VALLEY QUAD GEOL. MAP

GEOLOGIC MAP NORTH PART COLVILLE QUADRANGLE
GEOLOGY WEST OF ECHO VALLEY BY J.W. MILLS, EAST OF VALLEY BY R.C. BRAINARD

Sheet 2 of 2

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