OPEN FILE REPORT 87-17
PLATE 3 OF 12

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MC ALESTER MTN. QUADRANGLE
WASHINGTON
7.5 MINUTE SERIES (TOPOGRAPHIC)

GEOLOGIC MAP OF PART OF THE McALESTER MTN. QUADRANGLE, WASHINGTON

by
ROBERT B. MILLER
1987

EXPLANATION

- Kv — Volcanic and Volcaniclastic Rocks (Newby Group?)
- ts — Twisp Valley Schist
- tu — Ultramafic Rocks in Twisp Valley Schist
- rs — Rainbow Schist
- bmg — Battle Mountain Gneiss
- tlg — Tuckaway Lake Gneiss
- ljg — Lake Juanita Leucogneiss
- shc — Southern Heterogeneous Crystalline Complex
- nhc — Northern Heterogeneous Crystalline Complex
- tfm — Twisp River-Foggy Dew Mylonites
- Kotf — Oval Peak Batholith-Foliated Unit
- Kot — Oval Peak Batholith-Directionless-Weakly Foliated Unit
- Kbt — Black Peak Batholith-Directionless-Weakly Foliated Phase
- Kbm — Black Peak Batholith-Mafic Phase
- Kbrf — Black Peak Batholith-Reynolds Peak Phase
- KTgg — Gabriel Peak Orthogneiss
- wg — War Creek Gneiss

SYMBOLS

- Strike of vertical foliation
- Inclined foliation
- Inclined foliation with mineral lineation in the plane of the foliation
- Strike and Dip of Foliation
- Trend and plunge of mineral lineation
- Trend and Plunge of F_3 Axes in Twisp Valley Schist
- ——— – – – ? Contact: dashed where approximate; queried where uncertain
- ——— – – – ? Fault Contact: dashed where approximate; queried where uncertain

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

DIVISION OF GEOLOGY AND EARTH RESOURCES
RAYMOND LASMANIS, State Geologist

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1968. Field checked 1969

Polyconic projection. 1927 North American datum
10,000-foot grid based on Washington coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 10, shown in blue

Land lines have not been established in this area

UTM GRID AND 1969 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24000

CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION
Trails

WASHINGTON
QUADRANGLE LOCATION

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D.C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

MC ALESTER MTN., WASH.
N4822.5—W12037.5/7.5
1969
AMS 1880 I NW—SERIES V891

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

GILBERT QUADRANGLE
WASHINGTON
7.5 MINUTE SERIES (TOPOGRAPHIC)

OPEN FILE REPORT 87-17
PLATE 4 OF 12

GEOLOGIC MAP OF PART OF THE GILBERT QUADRANGLE, WASHINGTON

by
ROBERT B. MILLER
1987

EXPLANATION

- Kv — Volcanic and Volcaniclastic Rocks (Newby Group?)
- ts — Twisp Valley Schist
- tu — Ultramafic Rocks in Twisp Valley Schist
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- bmg — Battle Mountain Gneiss
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SCALE 1:24 000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 0 1 KILOMETER

CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL

UTM GRID AND 1969 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

ROAD CLASSIFICATION
Light-duty road, all weather, improved surface
Unimproved road, fair or dry weather

WASHINGTON
QUADRANGLE LOCATION

GILBERT, WASH.
N4822.5—W12030/7.5
1969
AMS 1880 I NE—SERIES V891

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87-17
Plate 4

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

MIDNIGHT MTN. QUADRANGLE
WASHINGTON – OKANOGAN CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 BUTTERMILK BUTTE 15' QUADRANGLE

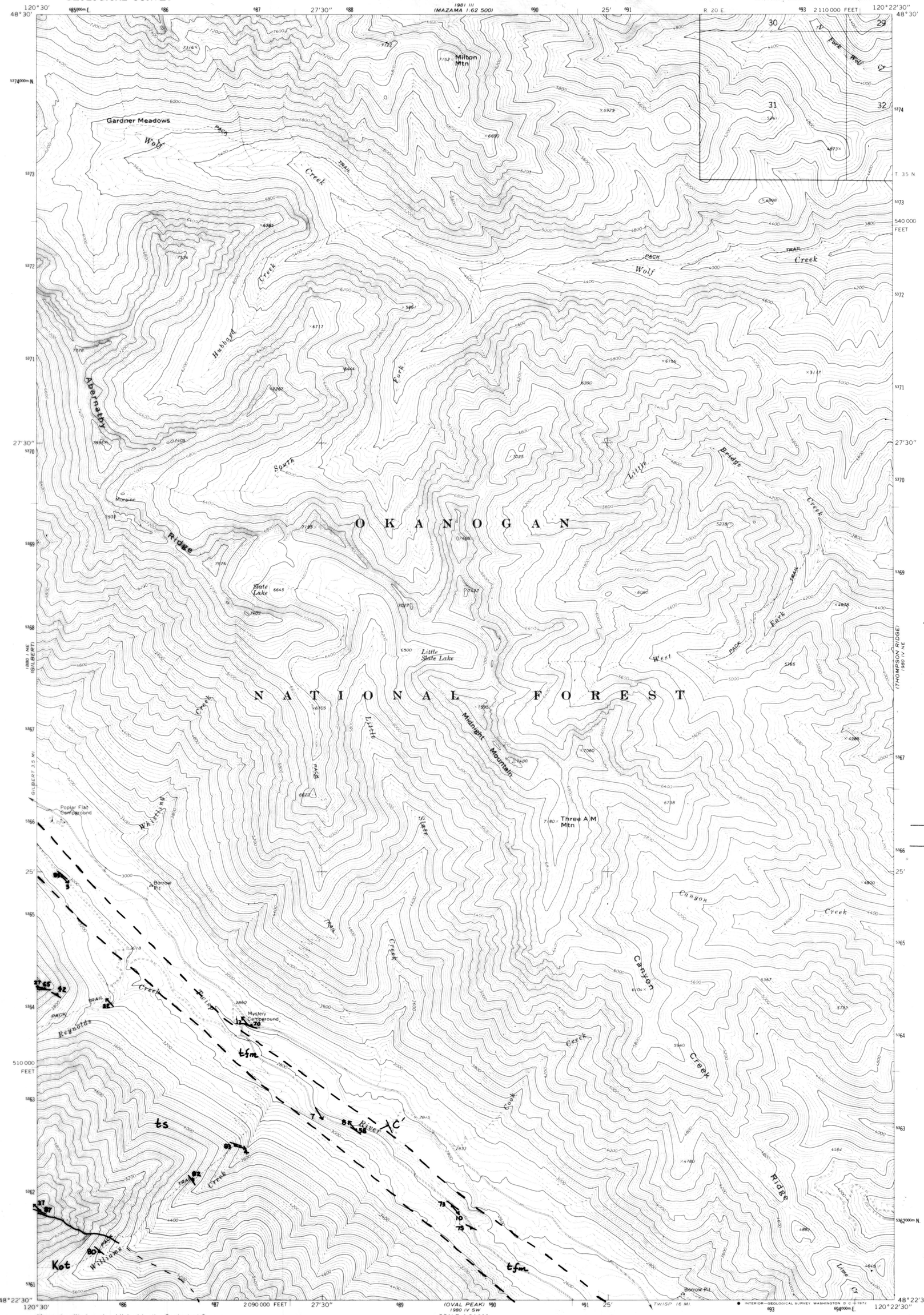
OPEN FILE REPORT 87-17
PLATE 5 OF 12

GEOLOGIC MAP OF PART OF THE MIDNIGHT MTN. QUADRANGLE, WASHINGTON

by

ROBERT B. MILLER

1987



EXPLANATION

Kv	Volcanic and Volcaniclastic Rocks (Newby Group?)
ts	Twisp Valley Schist
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rs	Rainbow Schist
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tlg	Tuckaway Lake Gneiss
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KTgg	Gabriel Peak Orthogneiss
wg	War Creek Gneiss

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- Inclined foliation with mineral lineation in the plane of the foliation
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Polyconic projection. 1927 North American datum
10,000-foot grid based on Washington coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 10, shown in blue

Where omitted, land lines have not been established

UTM GRID AND 1969 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24000

CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

Primary highway, hard surface
Secondary highway, hard surface
Light-duty road, hard or improved surface
Unimproved road
Interstate Route U. S. Route State Route

WASHINGTON
QUADRANGLE LOCATION

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NW/4 BUTTERMILK BUTTE 15' QUADRANGLE
N4822.5—W12022.5/7.5

1969

AMS 1980 IV NW—SERIES V891

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OFR
87-17
Plate 5