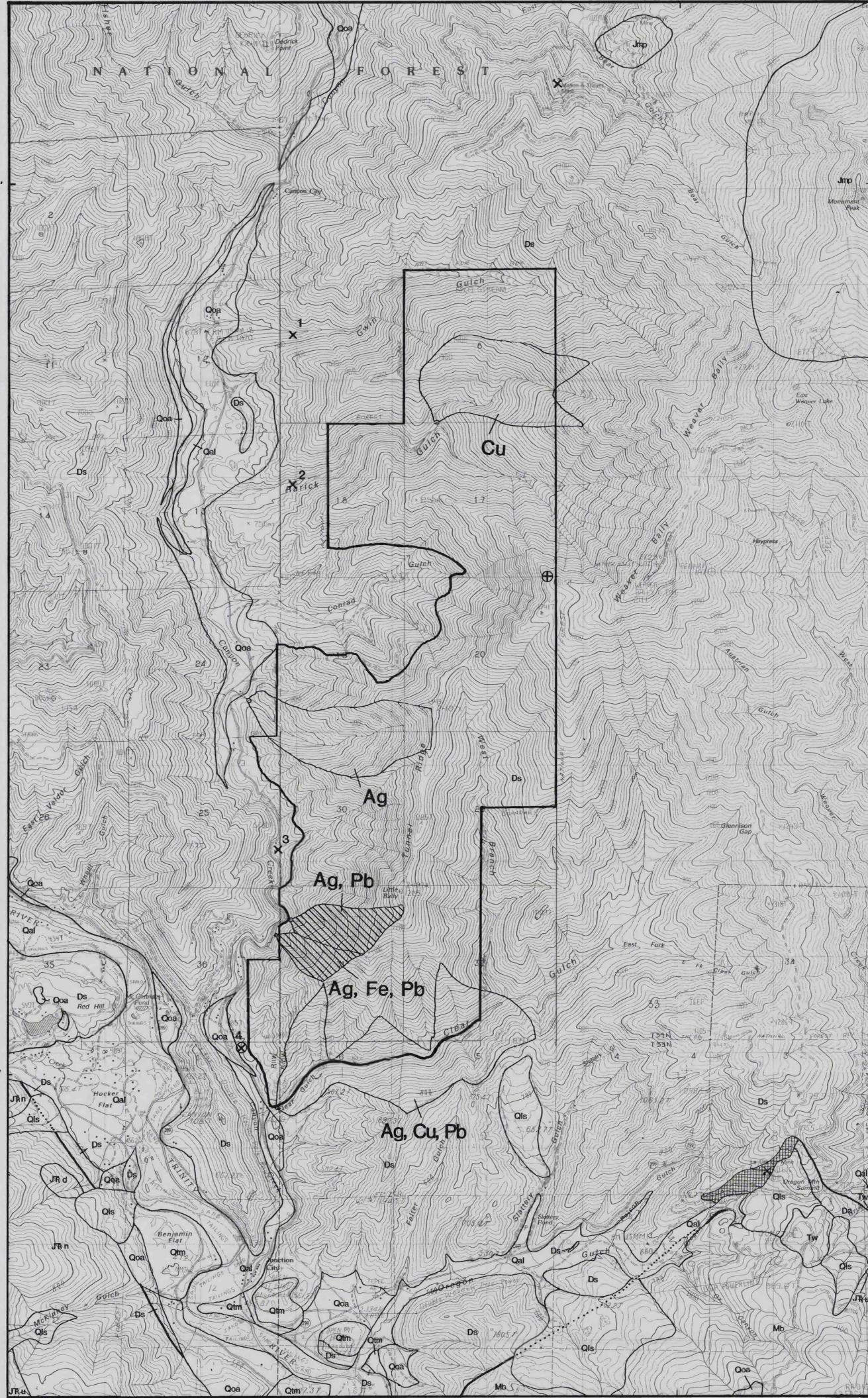


123°05'

123°00'

40°50'

40°50'



- EXPLANATION**
- DRAINAGE BASIN WITH ANOMALOUS CONCENTRATIONS OF METALLIC ELEMENTS AND WITH LOW MINERAL RESOURCE POTENTIAL FOR SILVER AND LEAD—Ag, silver; Fe, nonmagnetic iron; Pb, lead
 - DRAINAGE BASIN WITH ANOMALOUS CONCENTRATIONS OF METALLIC ELEMENTS—Ag, silver; Cu, copper; Fe, nonmagnetic iron; Pb, lead
 - GEOCHEMICALLY ANOMALOUS STREAM-SEDIMENT SAMPLING SITE
 - GEOCHEMICALLY ANOMALOUS ROCK SAMPLING SITE
 - LODE MINE
 - PLACER MINE
 - ROCK PIT
 - PROSPECT OR CLAIM

- LIST OF LOCAL WORKINGS**
- 1 Gwin Gulch prospect
 - 2 Rarick Gulch prospect
 - 3 Derby and Alexander claim
 - 4 Rock pit for crushed stone

CORRELATION OF MAP UNITS

Qal	}	QUATERNARY
Qls		
Qtm		
Qoa		
Tw	}	TERTIARY
Jmp		
JFn	}	JURASSIC AND TRIASSIC
JFd		
JFu		
Mb	}	MISSISSIPPIAN
Ds		
Ds	}	DEVONIAN
Ds		

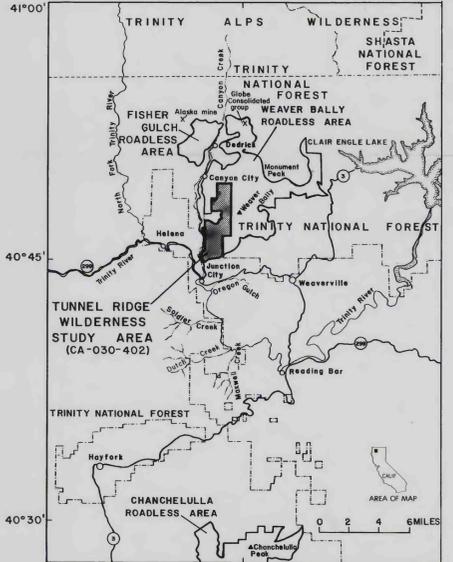
- DESCRIPTION OF MAP UNITS**
- Qal** ALLUVIUM (QUATERNARY)—Sand and gravel in beds of present streams and on low terraces related to present streams. Includes debris from placer mining and colluvium
 - Qls** LANDSLIDE DEPOSITS (QUATERNARY)—Landslide of coarse unsorted debris, generally occur along zones of intense shearing and in areas of ultramafic and gabbroic rocks
 - Qtm** MINED TERRACE DEPOSITS (QUATERNARY)—Terraces of older alluvium from which the sand and gravel have been mostly removed from bedrock by placer gold mining
 - Qoa** OLDER ALLUVIUM (QUATERNARY)—Fluvial and alluvial sand and gravel, generally remnants of perched stream terraces, but not necessarily related to present rivers or streams
 - Tw** WEAVERVILLE FORMATION (MIOCENE OR OLIгоценE)—Continental sedimentary rocks including pebble and cobble conglomerate, sandstone, mudstone, and claystone. Named by Hinds (1933)
 - Jmp** MOUNTAIN PEAK PLUTON (JURASSIC)—Equigranular, medium-grained, leucocratic hornblende biotite granodiorite in Monument Peak area. Includes small area of granitic rock in North Fork terrane
 - JFn** NORTH FORK TERRANE (JURASSIC AND TRIASSIC)—Mafic volcanic rocks, thin-bedded chert, phyllite, and minor recrystallized limestone
 - JFd** DIORITE (JURASSIC OR TRIASSIC)—Consists of small exposure of medium-grained diorite in North Fork terrane
 - JFu** ULTRAMAFIC ROCKS (JURASSIC OR TRIASSIC)—Mainly serpentinized peridotite, includes minor gabbro and diabase
 - Mb** BRADDOCK FORMATION (MISSISSIPPIAN)—Well indurated pebble and cobble conglomerate, coarse grit, sandstone, massive to thin-bedded chert, dark siliceous thin-bedded shale, minor tuff, limestone, and dark silty mudstone
 - Ds** ABRAMS MICA SCHIST (DEVONIAN)—Mainly well foliated quartz-mica schist, formed by metamorphism of sedimentary rocks. Rb-Sr metamorphic age is 380 m.y. (Lanphere and others, 1968)
 - Ds** SALMON HORNBLende SCHIST (DEVONIAN)—Hornblende-epidote-albite schist, commonly foliate with lineate amphibole, fine to coarse grained, locally gneissic. Regionally underlies and is coextensive and cometamorphic with Abrams Mica Schist. Protolith is probably mafic to intermediate volcanic rock

- CONTACT—Approximately located
- FAULT—Approximately located; dotted where concealed
- EXHUMED SURFACE OF FAULT
- APPROXIMATE BOUNDARY OF TUNNEL RIDGE WILDERNESS STUDY AREA

STUDIES RELATED TO WILDERNESS
Bureau of Land Management Wilderness Study Area

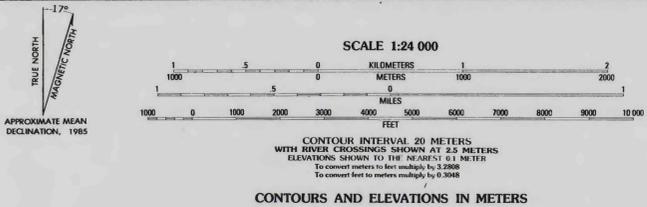
The Federal Land Policy and Management Act (Public Law 94-579, October 21, 1976) requires the U.S. Geological Survey and U.S. Bureau of Mines to conduct mineral surveys on certain areas to determine the mineral values, if any, that may be present. Results must be made available to the public and be submitted to the President and the Congress. This report represents the results of a mineral survey of the Tunnel Ridge Wilderness Study Area (CA-030-402), Trinity County, California.

123°15' 123°00' 122°45'



Base from U.S. Geological Survey
Dedrick, Junction City, Rush Creek Lakes,
Weaverville, 1982 (Provisional editions)

Geology after Cox (1956), Irwin (1963, 1974),
and Blake (1985)



**MINERAL RESOURCE POTENTIAL MAP OF THE TUNNEL RIDGE WILDERNESS
STUDY AREA, KLAMATH MOUNTAINS, CALIFORNIA**

By
George L. Kennedy and Michael F. Diggles
U.S. Geological Survey
and
Richard S. Gaps
U.S. Bureau of Mines
1985

Explanatory pamphlet accompanies map
Interior—Geological Survey, Reston, Va.—1985
For sale by Branch of Distribution, U.S. Geological Survey,
Box 25286, Federal Center, Denver, CO 80225