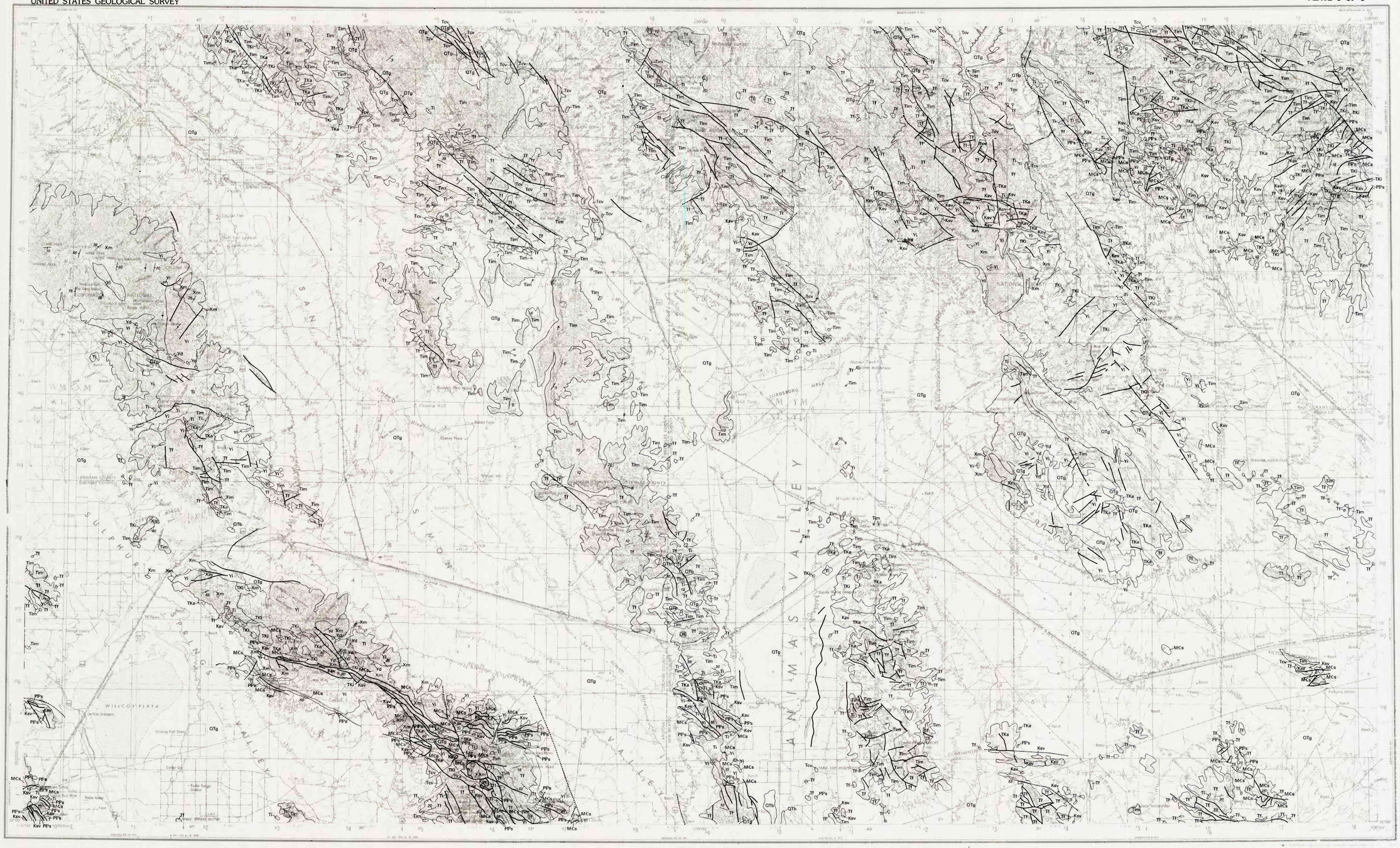
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

SILVER CITY

OPEN FILE REPORT 84-0629 A
PLATE 1 OF 1



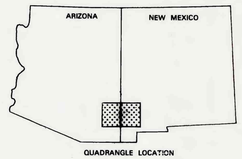
Base from U.S. Geological Survey,
1954, revised 1970

SCALE 1:250 000

5 0 5 10 15 MILES

5 0 5 10 15 KILOMETERS

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS
NATIONAL GEODETIC VERTICAL DATUM OF 1929



QUADRANGLE LOCATION

MAP A - GEOLOGIC MAP

MINERAL RESOURCE POTENTIAL OF THE SILVER CITY 1°X2° QUADRANGLE, NEW MEXICO - ARIZONA

By
D. H. Richter and W. N. Sharp

1984

Geology by J. R. Cooper, Harald Drewes, T. L. Finnell, D. C. Hedlund, R. M. Hernon, B. B. Houser, W. R. Jones, V. A. Lawrence, S. L. Moore, R. B. Morrison, W. P. Pratt, D. H. Richter, and C. H. Thorman, U.S. Geological Survey; M. Shafiqullah, and P. E. Damon, University of Arizona; E. G. Deal, Eastern Kentucky University; W. E. Elston, University of New Mexico; J. E. Cunningham, Western New Mexico State University. Compiled 1979

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards but has been reviewed for stratigraphic nomenclature.

CORRELATION OF MAP UNITS

QTg	QTb		QUATERNARY
		Tcv	TERTIARY
Tf	Tim	Ti	
		TKi	
TKa			CRETACEOUS
Ksv			
PPs			PERMIAN AND PENNSYLVANIAN
MCs			MISSISSIPPIAN TO CAMBRIAN
Yd			PROTEROZOIC Y
Yi			
Xm			PROTEROZOIC X

DESCRIPTION OF MAP UNITS

QTg GRAVEL, SAND, SILT, AND CLAY (QUATERNARY AND TERTIARY)—Mainly alluvium on stream terraces, fan aprons, and pediments; colluvium on hill slopes; and lacustrine and eolian deposits in basins

QTb BASALT (QUATERNARY AND TERTIARY)—Basalt and basaltic andesite flows and small intrusions

Tcv CONGLOMERATE AND VOLCANIC ROCKS (TERTIARY)—Mainly coarse conglomerate with intercalated mafic to intermediate flows and felsic tuffs

Tim INTERMEDIATE TO MAFIC VOLCANIC ROCKS (TERTIARY)—Mainly flows, scoria cones, domes, and small intrusions. Locally includes small units of felsic volcanic rocks and volcaniclastic rocks

Tf FELSIC VOLCANIC ROCKS (TERTIARY)—Mainly flows, domes, and pyroclastic deposits. Locally includes small units of more mafic volcanic rocks and volcaniclastic rocks

Ti INTRUSIVE ROCKS (TERTIARY)—Includes granitic rocks in plutons and aphanitic and porphyritic rocks in plugs and dikes

TKi INTRUSIVE ROCKS (TERTIARY AND CRETACEOUS)—Includes granitic rocks, commonly porphyritic, in plutons and porphyritic rocks and breccias in dikes, plugs and small stocks

TKa ANDESITIC ROCKS (TERTIARY AND CRETACEOUS)—Flows and small intrusions. Locally includes small units of sedimentary rocks.

Ksv SEDIMENTARY AND VOLCANIC ROCKS (CRETACEOUS)—Mainly shale, siltstone, sandstone and conglomerate; includes some limestone and felsic to intermediate volcanic rocks. Mainly Lower Cretaceous Bisbee Group to the southwest and Upper Cretaceous Colorado Shale to the northeast. Includes Jurassic and Triassic rocks in extreme southwest corner of quadrangle

PPs SEDIMENTARY ROCKS (PERMIAN AND PENNSYLVANIAN)—Mainly limestone; includes some dolomite and sandstone. Chiefly Naco Group

MCs SEDIMENTARY ROCKS (MISSISSIPPIAN TO CAMBRIAN)—Mainly limestone, dolomite, shale, quartzite, and sandstone; includes some conglomerate and arkose sandstone

Yd DIABASE (PROTEROZOIC Y)—Includes gabbro, and metadiorite in sills, dikes and irregular masses

Yi INTRUSIVE ROCKS (PROTEROZOIC Y)—Granitic rocks, commonly porphyritic or porphyroblastic, in plutons

Xm METASEDIMENTARY AND METAIGNEOUS ROCKS (PROTEROZOIC X)—Includes Pinal Schist and unnamed gneisses

CONTACT

FAULT—dotted where concealed

STRIKE AND DIP OF BEDS
- 5 Inclined
- Vertical

STRIKE AND DIP OF FOLIATION—Includes primary flow foliation of volcanic rocks and secondary metamorphic foliation of metamorphic rocks
- 60 Inclined
- Vertical