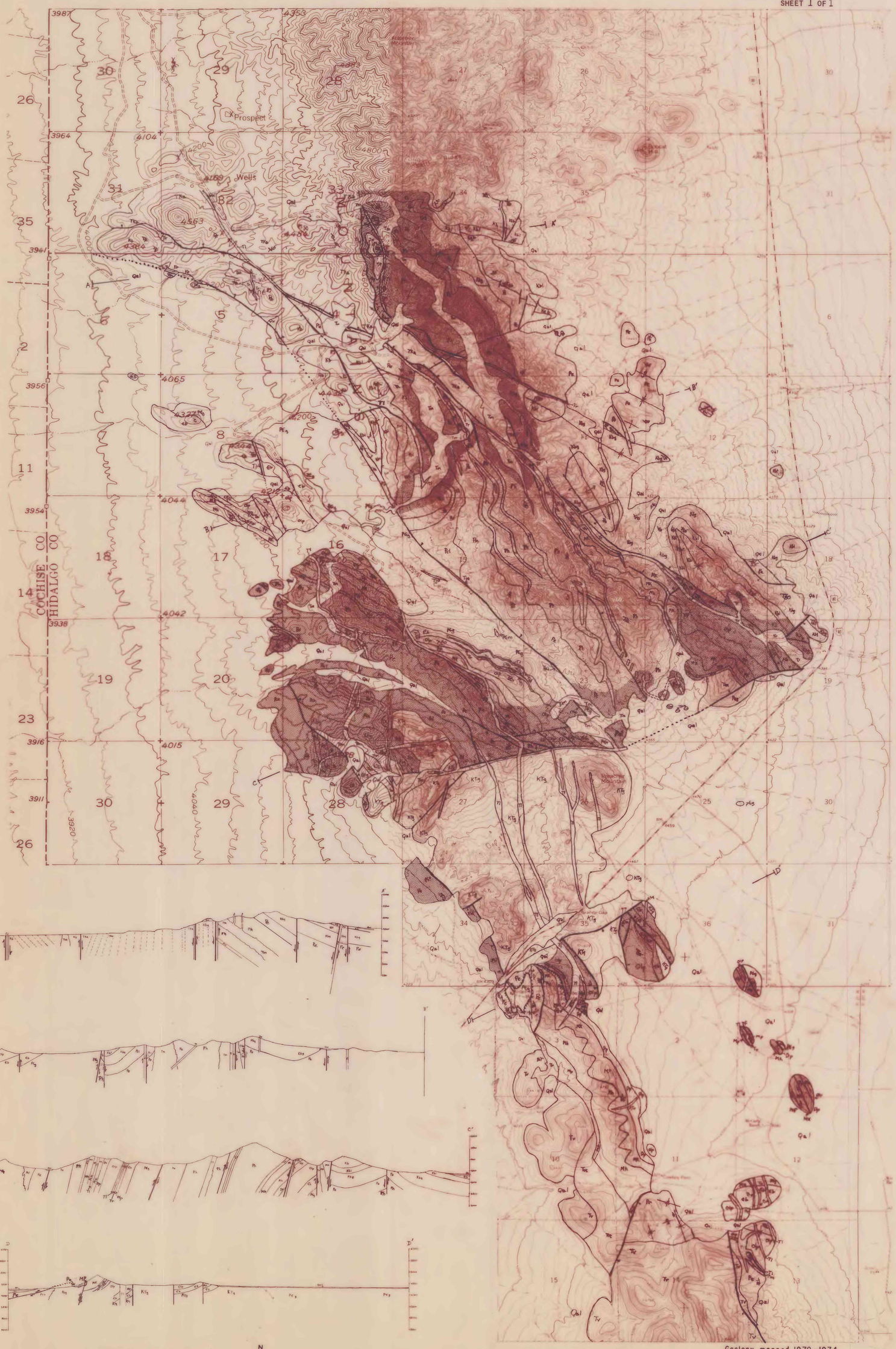
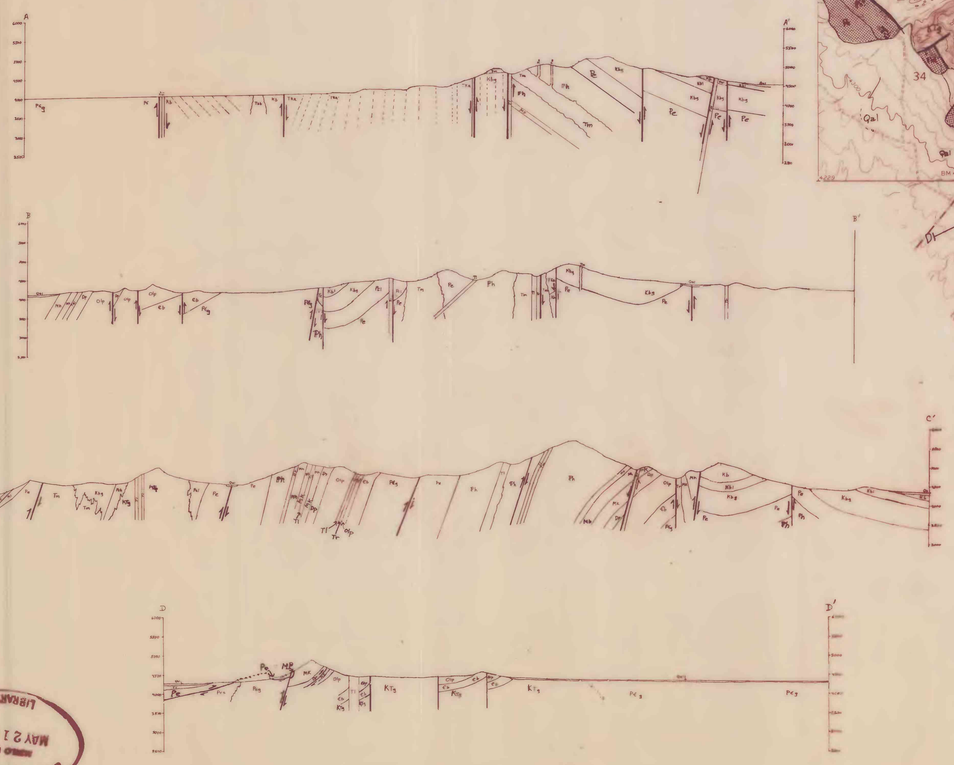
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
NEW MEXICO BUREAU OF MINES AND MINERAL RESOURCES

OPEN FILE MAP 74-11
SHEET 1 OF 1





CORRELATION OF MAP UNITS

Qal		QUATERNARY	CENOZOIC
UNCONFORMITY			
Tl, Tv, Trt, Tai, Tab, Tr, Tm		TERTIARY	CENOZOIC
TKa, KTg		TERTIARY OR CRETACEOUS	
UNCONFORMITY			
Kb, Kbl, Kbg	Lower Cretaceous	CRETACEOUS	MESOZOIC
UNCONFORMITY			
Pch, Ps, Pc, Pe (Naco Group)	Lower Permian	PERMIAN	PALEOZOIC
Ph (Naco Group)		PENNSYLVANIAN	PALEOZOIC
UNCONFORMITY			
Mp	Upper Mississippian	MISSISSIPPIAN	PALEOZOIC
Mh, Mk (Escabrosa Group)	Lower Mississippian	MISSISSIPPIAN	PALEOZOIC
UNCONFORMITY			
Dp	Upper Devonian	DEVONIAN	PALEOZOIC
UNCONFORMITY			
Olp	Lower Ordovician	ORDOVICIAN	PALEOZOIC
UNCONFORMITY			
€b	Upper Cambrian	CAMBRIAN	PALEOZOIC
UNCONFORMITY			
p€m, p€g, p€s			PRECAMBRIAN

DESCRIPTION OF MAP UNITS

Qal ALLUVIAL AND LACUSTRINE DEPOSITS (Quaternary) Coarse gravels, silts, sands, and lake bed deposits on east side of map

Tv VOLCANIC ROCKS UNDIFFERENTIATED (Tertiary)
Trt RHYOLITE TUFFS (Tertiary) White, light gray
Tl LATITE PORPHYRY (Tertiary) Labradorite, orthoclase, biotite
Tab ANDESITE BRECCIA (Tertiary)
Tai ANDESITE SILLS (Tertiary)
Tr RHYOLITE DIKES-PLUGS (Tertiary) Light gray to white, aphanitic
Tm QUARTZ MONZONITE PORPHYRY (Tertiary) Quartz, orthoclase, andesine
TKa ANDESITE (Cretaceous-Tertiary) Intensely altered, chlorite, epidote
KTg GRANITE (Cretaceous-Tertiary) Quartz, orthoclase, oligoclase, 1% biotite

BISBEE FORMATION(?) (Cretaceous)

Kb SANDSTONE, SHALES, AND MARL
Kbl ARENACEOUS LIMESTONE
Kbg GLANCE(?) CONGLOMERATE MEMBER Conglomerates, shales, sandstones

NACO GROUP (Pennsylvanian and Permian)

Pch CONCHA LIMESTONE (Permian) Gray, cherty, crinoidal limestone
Ps SCHERRER FORMATION (Permian) Maroon shales, siltstones, sandstones
Pc COLINA LIMESTONE (Permian) Gray micritic limestones
Pe EARP FORMATION (Permian) Gray limestones, shales and siltstones
Ph HORQUILLA LIMESTONE (Pennsylvanian) Gray cherty limestone

Mp PARADISE FORMATION (Mississippian) Gray to brown, micrite, oolitic limestones, shales and siltstones

ESCABROSA GROUP (Mississippian)

Mh HACHITA FORMATION Light-gray crinoidal limestone
Mk KEATING FORMATION Gray limestone, cherty limestone

Dp PERCHA SHALE (Devonian) Calcareous to black shales
Olp EL PASO LIMESTONE (Ordovician) Light-gray dolomites and limestones
€b BOLSA QUARTZITE (Cambrian) Arkosic to quartz quartzite

p€m METADIABASE (Precambrian)
p€g PORPHYROBLASTIC GRANITE (Precambrian)
p€s GREENSCHIST (Precambrian)

MAP SYMBOLS

Contact, showing dip
Dashed where approximately located; dotted where concealed

Fault, showing dip
Dashed where approximately located

Concealed fault

Thrust fault
Sawteeth on upper plate. Dashed where approximately located

Anticline
Showing crestline

Syncline
Showing troughline and direction of plunge

Strike and dip of beds

Strike of vertical beds

Strike and dip of overturned beds

Strike and dip of foliation and plunge of lineation

Strike of vertical foliation

Approximate outline of metamorphic halo

U.S. GEOLOGICAL SURVEY
MAY 21 1974
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This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey standards and nomenclature.

N

SCALE 1:24 000

1 ½ 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 .5 0 1 KILOMETER

Geology mapped 1970-1974

Acknowledgments

Southwestern Research Station of the American Museum of Natural History, Portal, Arizona, for support in 1970-73.

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Geologic map of the central Peloncillo Mountains, Hidalgo County, New Mexico

by A. K. Armstrong and M. L. Silberman

1974