Prepared by the Army Map Service (CGSX), Corps of Engineers, U.S. Army, Washington, D.C. Compiled in 1956 by U.S. Coast & Geodetic Survey by photogrammetric methods and from USGS quadrangles, 1:62,500, 1947-1950. Planimetric detail revised by photo-planimetric methods. Horizontal and vertical control by USGS, USC&GS and USCE. Photography field annotated 1954. Limited revision by U.S. Geological Survey 1962.

100,000-foot grid based on Arizona coordinate system, central and west zones

10,000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue

LEGEND

ROAD DATA 1954 PARTIALLY REVISED 1962

Figures in red denote approximate distances in miles between stars

POPULATED PLACES
- Over 500,000 — LOS ANGELES
- 100,000 to 500,000 — OMAHA
- 25,000 to 100,000 — GALVESTON
- 5,000 to 25,000 — Laramie
- 1,000 to 5,000 — Grand Coulee
- Less than 1,000 — Sun Valley

RAILROADS (Single track / Double or Multiple)
- Standard gauge
- Narrow gauge

BOUNDARIES
- International
- State
- County
- Park or reservation

ROADS
- Hard surface, heavy duty — More than two lanes wide (3 LANES / 4 LANES)
- Two lanes wide; Federal route marker
- Hard surface, medium duty — More than two lanes wide (3 LANES / 4 LANES)
- Two lanes wide; State, Interstate route markers
- Improved light duty
- Unimproved dirt
- Trail

- Landplane airport
- Landing area
- Seaplane airport
- Seaplane anchorage
- Woods-brushwood
- Landmarks: School; Church; Other
- Horizontal control point; Windmill
- Spot elevation in feet .221
- Marsh or swamp
- Intermittent or dry stream
- Power line

Approximate road alinement

Scale 1:250,000

5 0 5 10 15 20 Statute Miles

5 0 5 10 15 20 25 30 Kilometers

5 0 5 10 15 Nautical Miles

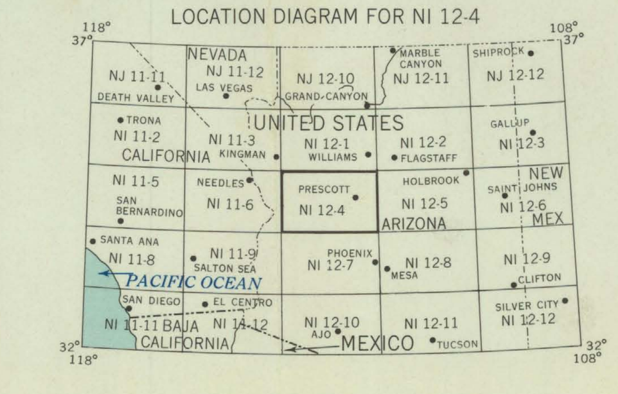
CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS

TRANSVERSE MERCATOR PROJECTION

1960 MAGNETIC DECLINATION FOR THIS SHEET VARIES FROM 14°45′ EASTERLY FOR THE CENTER OF THE WEST EDGE TO 14°15′ EASTERLY FOR THE CENTER OF THE EAST EDGE. MEAN ANNUAL CHANGE IS 0°01′ WESTERLY.

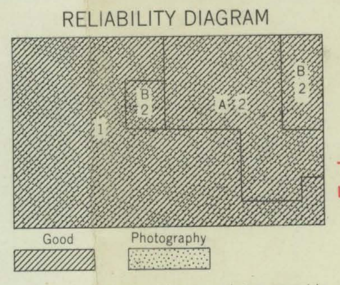
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225 OR WASHINGTON, D. C. 20242

LOCATION DIAGRAM FOR NI 12-4



• INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1966

RELIABILITY DIAGRAM



A. Large scale topographic maps, photogrammetric survey 1947-50.
B. Large scale topographic maps, controlled ground survey 1947-50.
1. Stereo-compiled from 1954 aerial photography.
2. Planimetry revised from 1954 aerial photography.

TOWNSHIP OR RANGE LINE
LAND GRANT BOUNDARY

SECTIONIZED TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

PRESCOTT, ARIZONA
1954
LIMITED REVISION 1962

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

GARFIAS MOUNTAIN QUADRANGLE
ARIZONA
7.5 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1962. Field checked 1964

Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, central zone
1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue

Fine red dashed lines indicate selected fence lines

UTM GRID AND 1964 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION

Light-duty ——— Unimproved dirt - - - - -

GARFIAS MOUNTAIN, ARIZ.
N3352.5—W11222.5/7.5

1964

AMS 3551 IV NW—SERIES V898

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WICKENBURG QUADRANGLE
ARIZONA
7.5 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey

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Topography by photogrammetric methods from aerial photographs taken 1962. Field checked 1964

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1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue

(VULTURE MTS. 1:62 500)
3451 IV

GN MN
0°56' 17 MILS
14½° 258 MILS
UTM GRID AND 1964 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
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A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ARIZONA
QUADRANGLE LOCATION

ROAD CLASSIFICATION

Heavy-duty — Light-duty
Medium-duty — Unimproved dirt
U. S. Route — State Route

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1965

WICKENBURG, ARIZ.
N3352.5—W11237.5/7.5

1964

AMS 3451 I NW—SERIES V898

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WICKENBURG SW QUADRANGLE
ARIZONA—MARICOPA CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1962. Field checked 1965

Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, central zone
1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue

Fine red dashed lines indicate selected fence lines

UTM GRID AND 1965 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

Heavy-duty — Light-duty — Unimproved dirt

U. S. Route — State Route

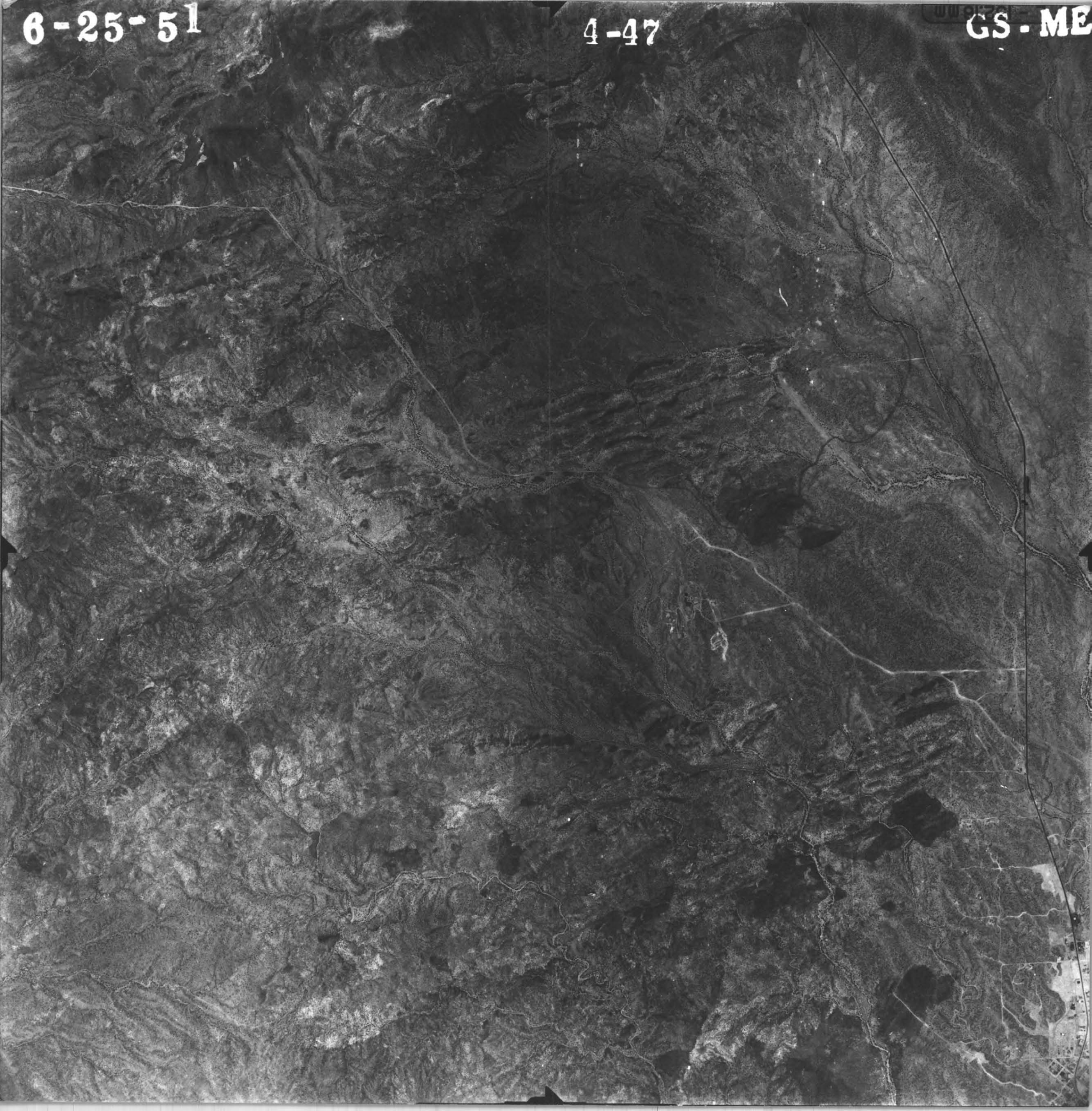
QUADRANGLE LOCATION

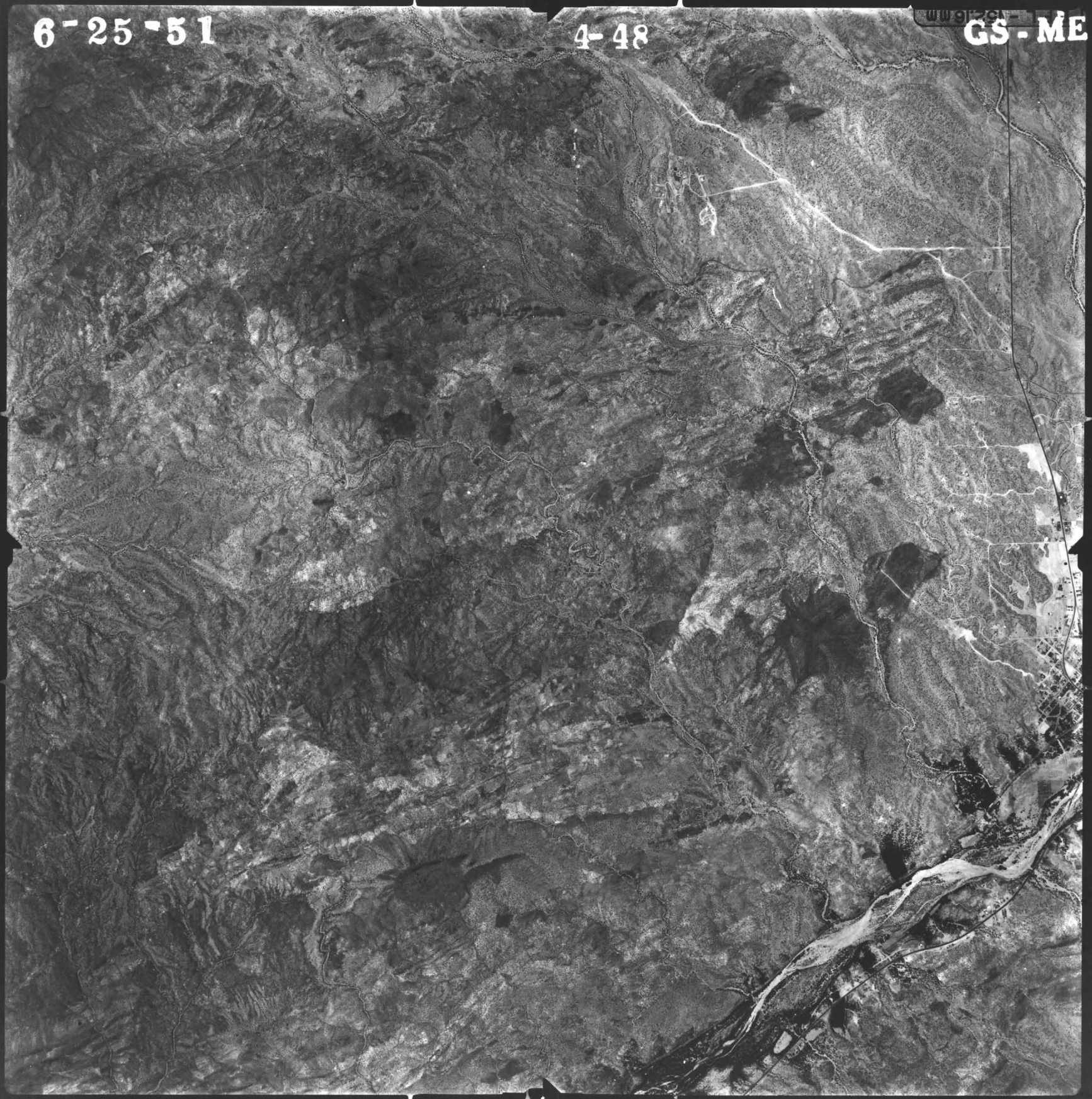
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D. C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

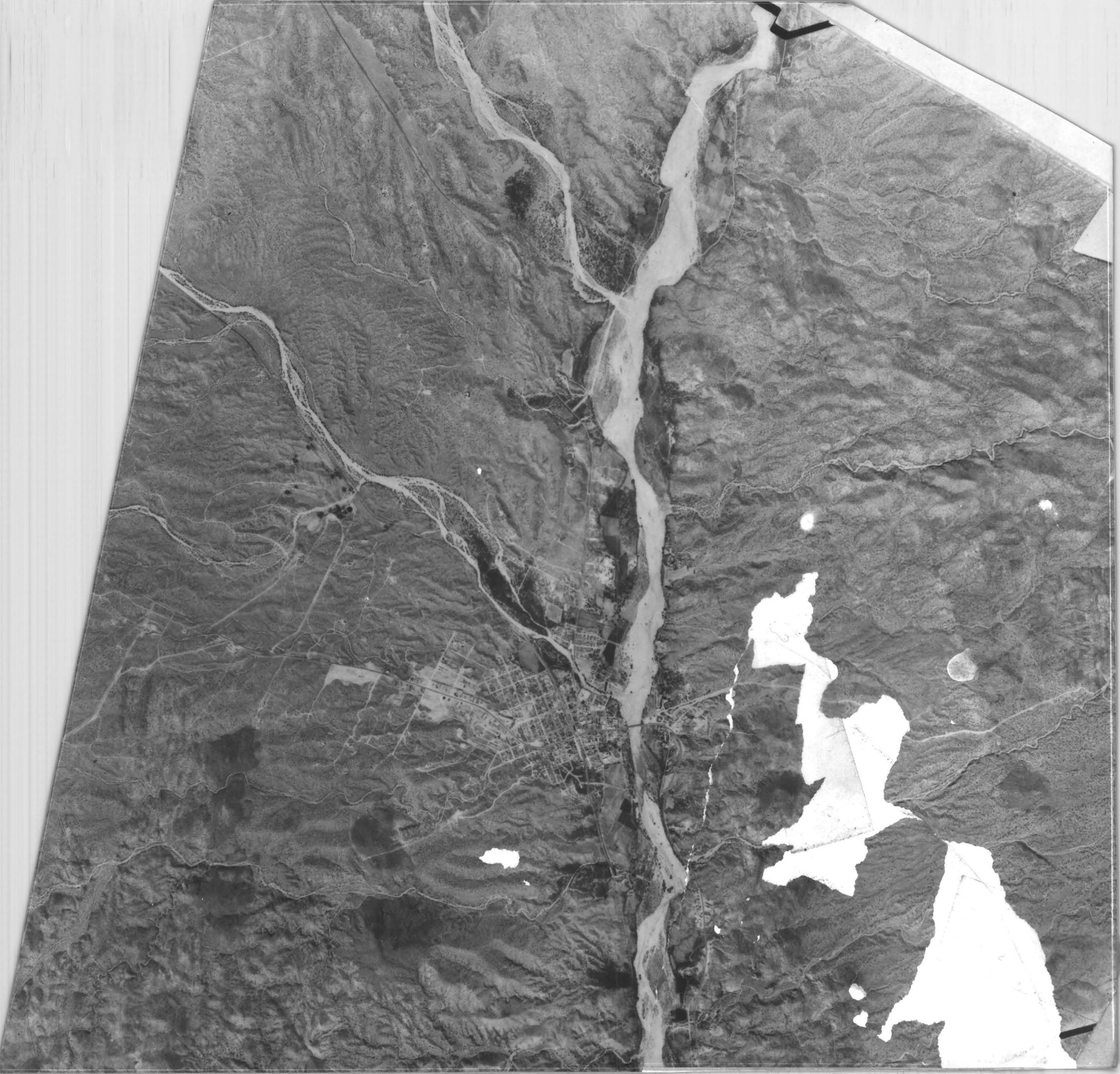
WICKENBURG SW, ARIZ.
N3345—W11237.5/7.5

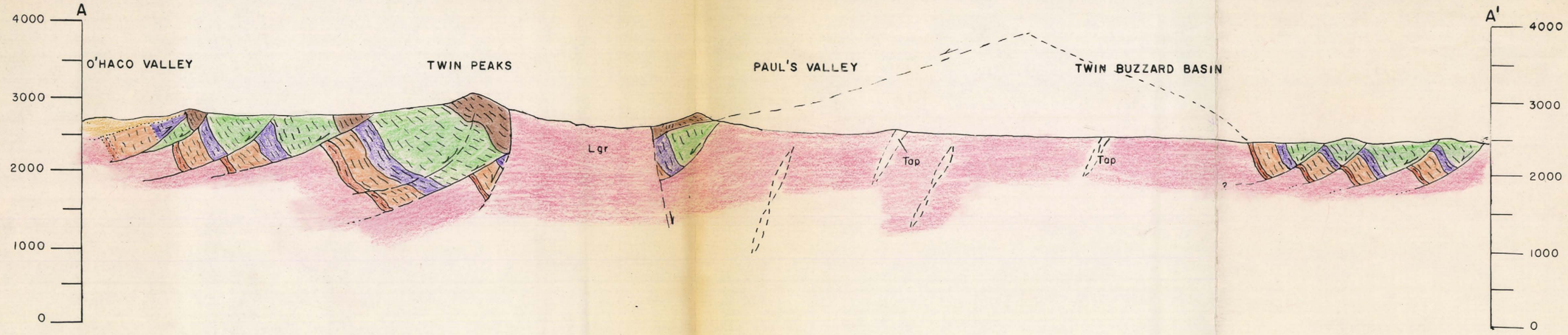
1965

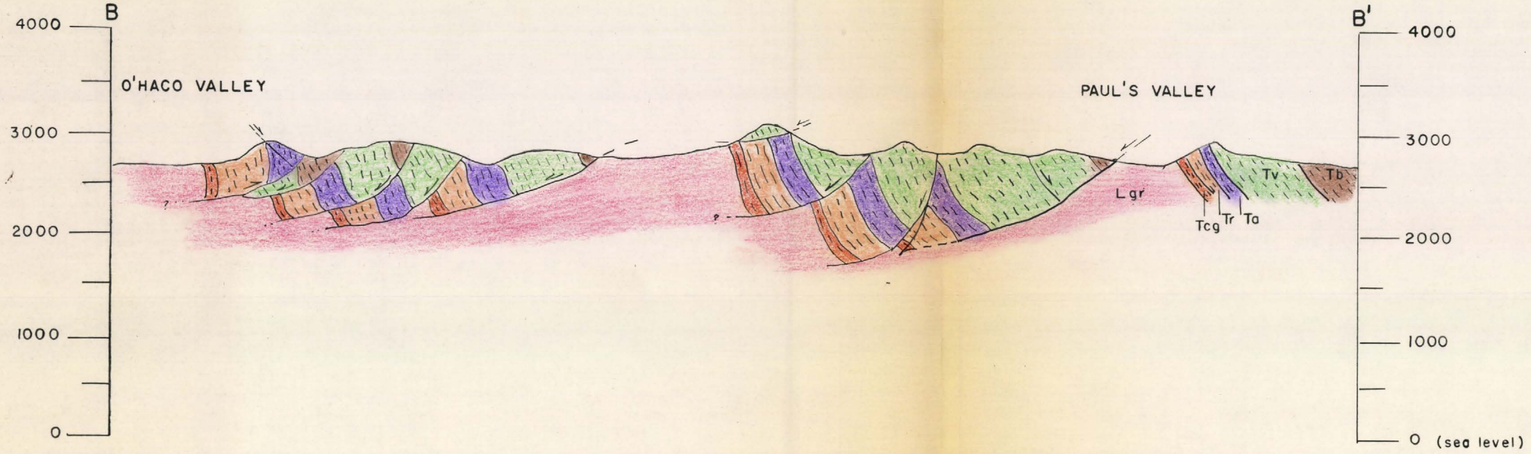
AMS 3451 I SW—SERIES V898


6-25-51
4-47
GS-ME


6-25-51
4-48
GS-ME



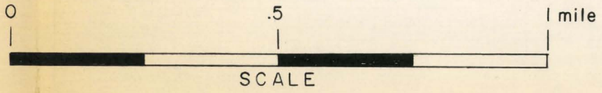




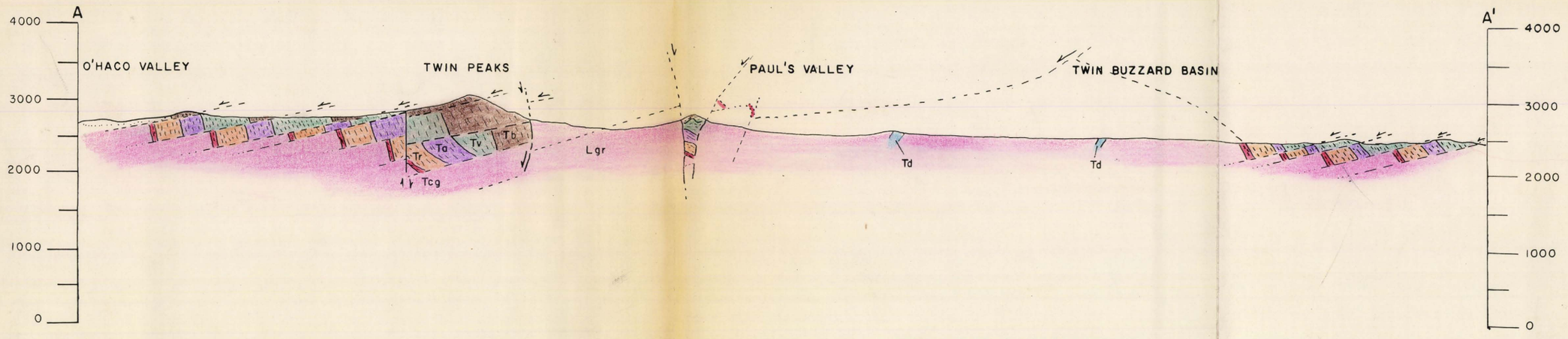
CROSS SECTIONS — VULTURE MTNS.

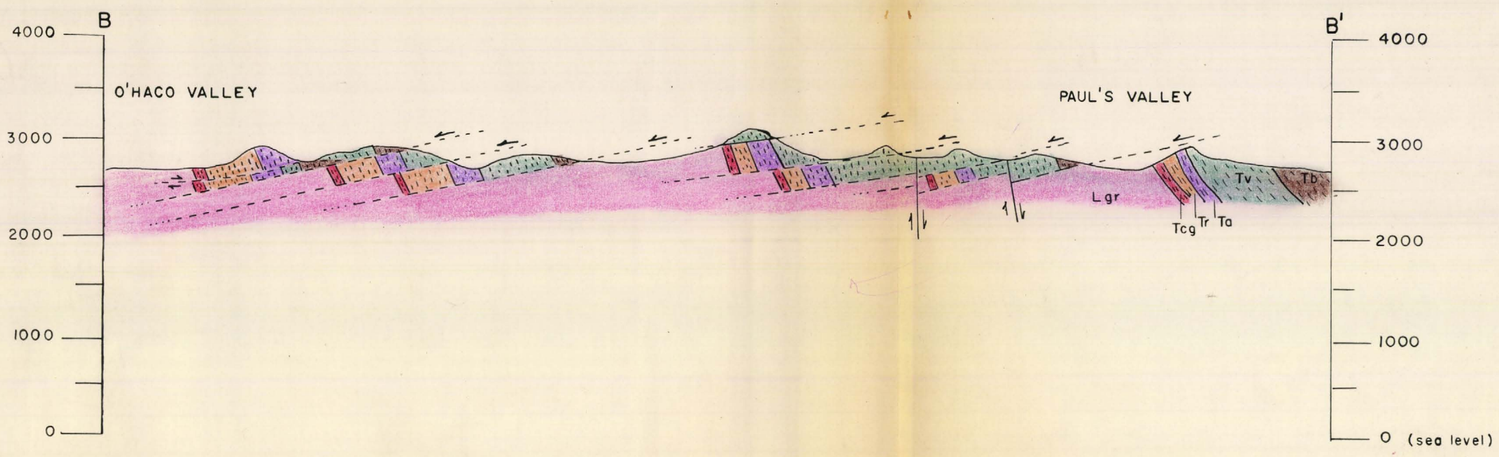
See geologic map for explanation

Note: In the cross sections shown, unit Tv includes unit Tag.



Geology by G. L. Richardson
Structural interpretation by G. L. Richardson
J. E. Kinnison

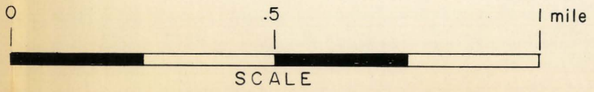




CROSS SECTIONS — VULTURE MTNS.

See geologic map for explanation

Note: In the cross sections shown, unit Tv includes unit Tag.



Geology by G. L. Richardson
Structural interpretation by G. L. Richardson
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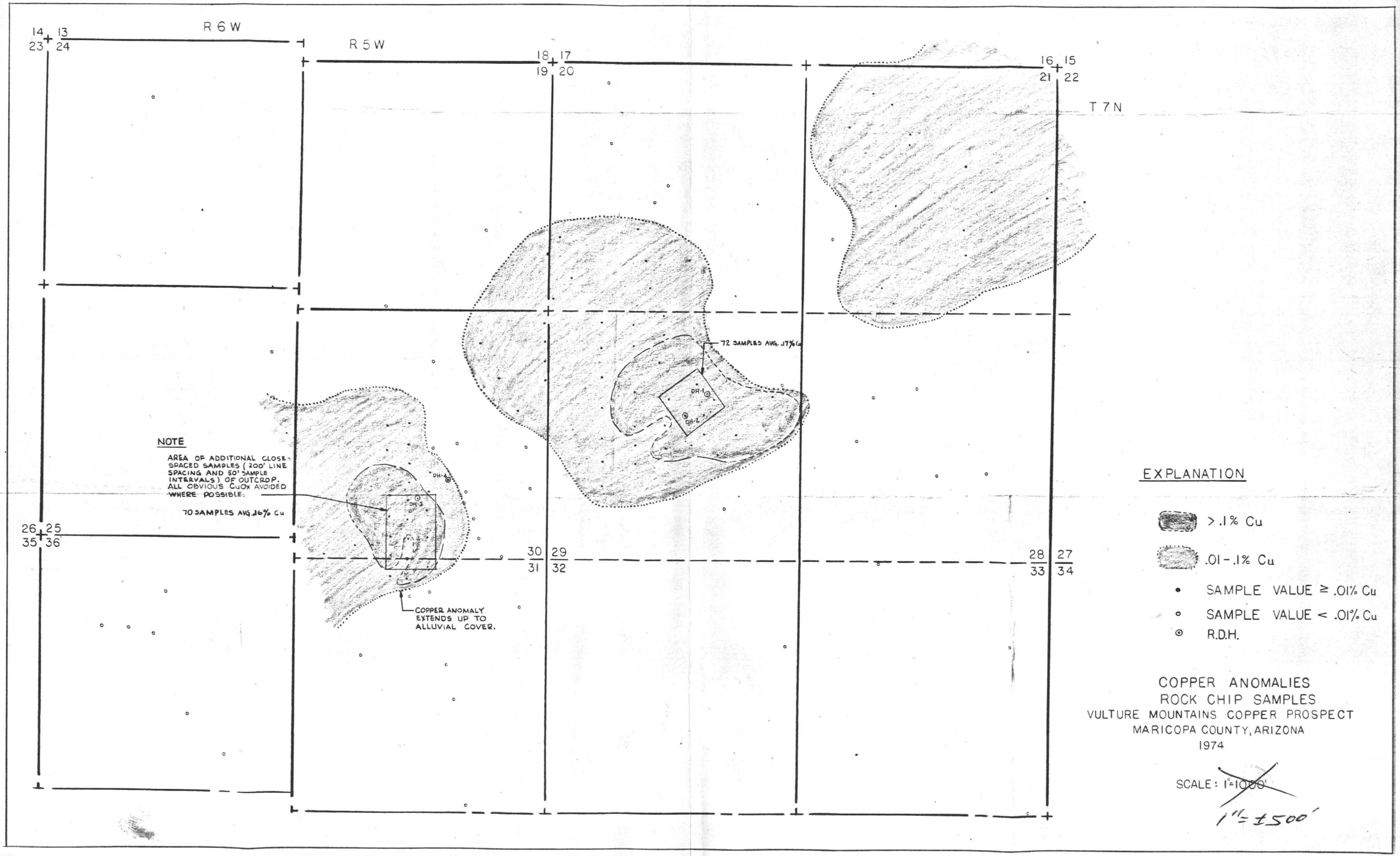
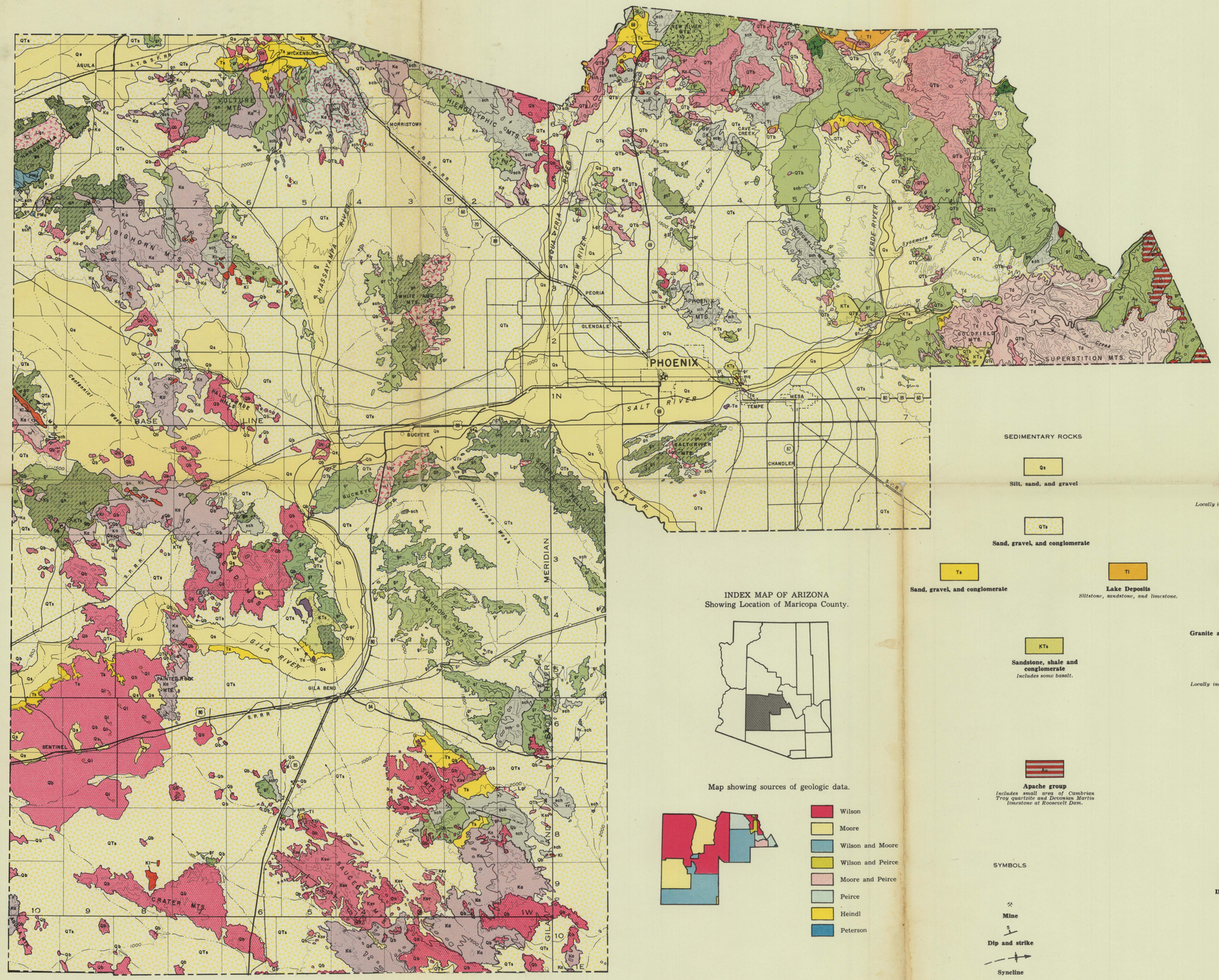

R 6 W
R 5 W
T 7 N
14 13
23 24
18 17
19 20
16 15
21 22
26 25
35 36
30 29
31 32
28 27
33 34
72 SAMPLES AVG. .17% Cu
DH-1
DH-2
DH-3
DH-4
NOTE
AREA OF ADDITIONAL CLOSE-SPACED SAMPLES (200' LINE SPACING AND 50' SAMPLE INTERVALS) OF OUTCROP. ALL OBVIOUS CuOx AVOIDED WHERE POSSIBLE.
70 SAMPLES AVG. .16% Cu
COPPER ANOMALY EXTENDS UP TO ALLUVIAL COVER.
EXPLANATION
> .1% Cu
.01 - .1% Cu
SAMPLE VALUE ≥ .01% Cu
SAMPLE VALUE < .01% Cu
R.D.H.
COPPER ANOMALIES
ROCK CHIP SAMPLES
VULTURE MOUNTAINS COPPER PROSPECT
MARICOPA COUNTY, ARIZONA
1974
SCALE: ~~1"=1000'~~
1" = ±500'

MARICOPA

J.E. KINNISON

UNIVERSITY OF ARIZONA
ARIZONA BUREAU OF MINES
J. D. FORRESTER, DIRECTOR



GEOLOGIC MAP OF MARICOPA COUNTY, ARIZONA

PREPARED BY THE

ARIZONA BUREAU OF MINES
UNIVERSITY OF ARIZONA

TUCSON, ARIZONA

BY

Eldred D. Wilson, Richard T. Moore, and H. Wesley Peirce with additional data from maps by L. A. Heindl and D. W. Peterson, U. S. Geological Survey.

Base materials furnished by U. S. Geological Survey.

Scale $\frac{1}{375,000}$

10 0 10 20 30 Miles

10 0 10 20 30 Kilometers

Contour interval 500 feet
datum is mean sea level

1957

INDEX MAP OF ARIZONA
Showing Location of Maricopa County.

Map showing sources of geologic data.

- Wilson
- Moore
- Wilson and Moore
- Wilson and Peirce
- Moore and Peirce
- Peirce
- Heindl
- Peterson

EXPLANATION

SEDIMENTARY ROCKS

Qs — **Silt, sand, and gravel**

QTs — **Sand, gravel, and conglomerate**

Ts — **Sand, gravel, and conglomerate**

Tl — **Lake Deposits**
Siltstone, sandstone, and limestone.

KTs — **Sandstone, shale and conglomerate**
Includes some basalt.

Ap — **Apache group**
Includes small area of Cambrian Troy quartzite and Devonian Martin limestone at Roosevelt Dam.

IGNEOUS ROCKS

Qb — **Basalt**
Locally includes tuff and gravel.

QTb — **Basalt**
Locally includes tuff and gravel.

Ta — **Andesite**

Lgr — **Granite and related crystalline rocks**

Ka — **Andesite**
Locally includes tuff and agglomerate.

Kr — **Rhyolite**

Ql — **Dikes and plugs**
Mainly basaltic in composition.

Td — **Dacite**
Includes dacite tuff and agglomerate.

Kl — **Dikes and plugs**
Rhyolitic to andesitic in composition.

Ksv — **Sauceda volcanics**
Includes rhyolite, latite, and andesite. Locally contains volcanic glass.

gr — **Granite and related crystalline rocks**

Dp — **Diorite porphyry**

Px — **Pyroxenite**

Rr — **Red Rock rhyolite**

METAMORPHIC ROCKS

PMu — **Shale, quartzite, and limestone**

mq — **Mazatzal quartzite**

sch — **Schist**
Locally includes diorite, rhyolite, and greenstone.

gst — **Greenstone**
Predominantly altered volcanics.

gn — **Granite gneiss**

QUATERNARY
TERTIARY
LARAMIDE
CRETACEOUS
PALEOZOIC AND MESOZOIC UNDIVIDED
YOUNGER PRECAMBRIAN
OLDER PRECAMBRIAN

SYMBOLS

Mine

Dip and strike

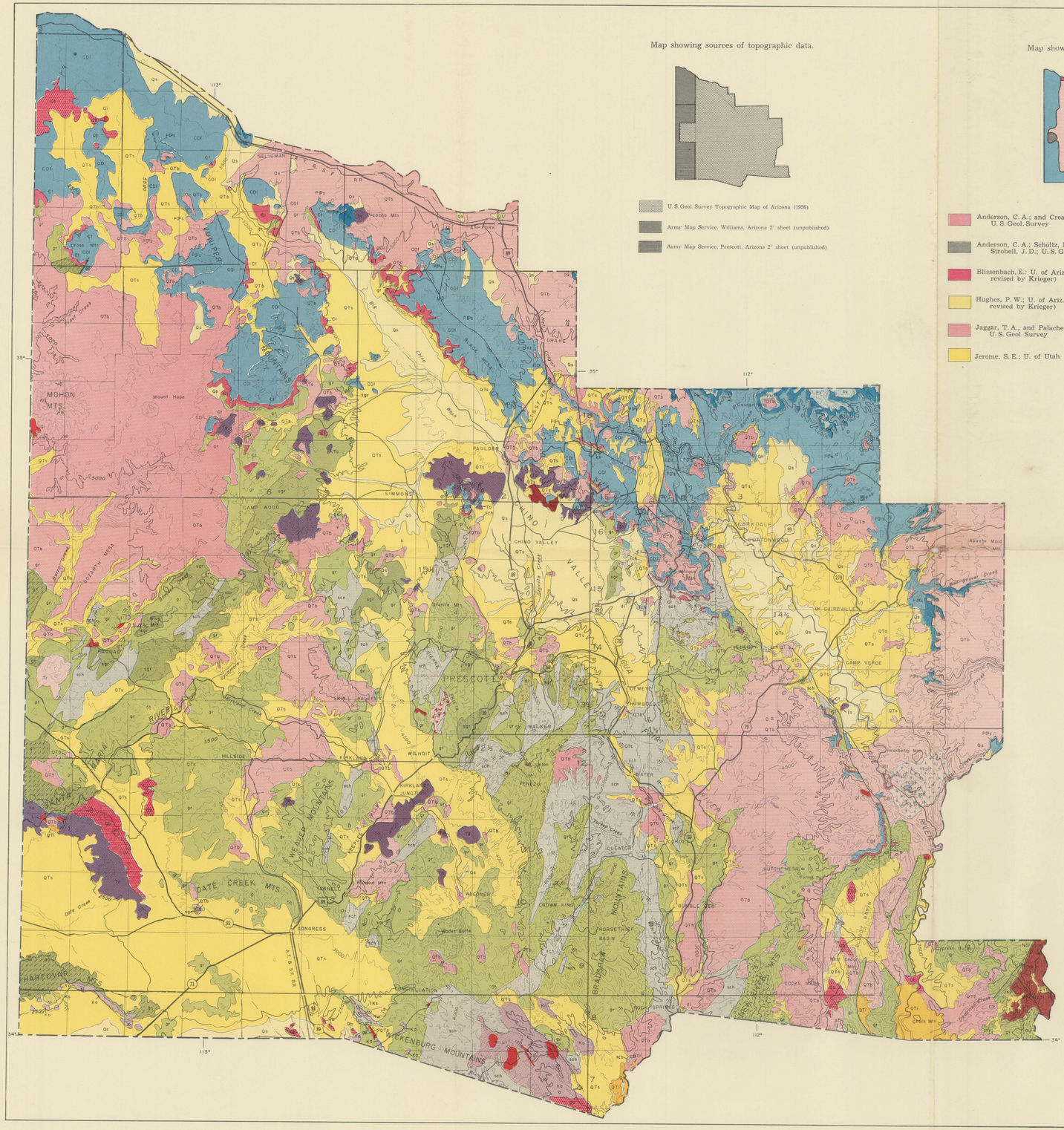
Syncline

Anticline

UNIVERSITY OF ARIZONA
ARIZONA BUREAU OF MINES
J. D. FORRESTER, DIRECTOR

GEOLOGIC MAP OF YAVAPAI COUNTY, ARIZONA

PREPARED BY THE
ARIZONA BUREAU OF MINES
UNIVERSITY OF ARIZONA
TUCSON, ARIZONA


SELIGMAN
ASH FORK
DRAKE
PAULDEN
SIMMONS
CAMP WOOD
CHINO VALLEY
CLARKDALE
COTTONWOOD
JEROME
MOHON MTS
Mount Hope
PRESCOTT
MAYER
KIRKLAND
WILHOIT
HILLSIDE
CAMP VERDE
CONGRESS
CONSTELLATION
DATE CREEK MTS
HARQUAHALA MTS
WEAVER MOUNTAINS
BRADSHAW MOUNTAINS
WICKENBURG MOUNTAINS
BIG BUG MTS
Bradshaw Mts
Granite Mts
Mount Wilson
Cross Mtn
Pecoria Mtn
Black Mesa
Apache Mold Mtn
Cedar Mtn
Cleopatra Hill
Mingus Mtn
Cottonwood Creek
Oak Creek
Verde River
Hassayampa River
Big Bug Creek
Date Creek
Chino Wash
Granite Creek
Lynx Creek
Walnut Creek
Sycamore Creek
Bloody Basin
Cherry Creek
Indian Creek
Cow Creek
Cedar Creek
Big Creek
Sycamore Creek
Bear Creek
Bear Canyon
Bear Creek
Big Bug Creek
Big Creek
Cedar Creek
Cedar Creek
Cedar

Yavapai Co.

UNIVERSITY OF ARIZONA
ARIZONA BUREAU OF MINES
J. D. FORRESTER, DIRECTOR

GEOLOGIC MAP OF YAVAPAI COUNTY, ARIZONA

PREPARED BY THE

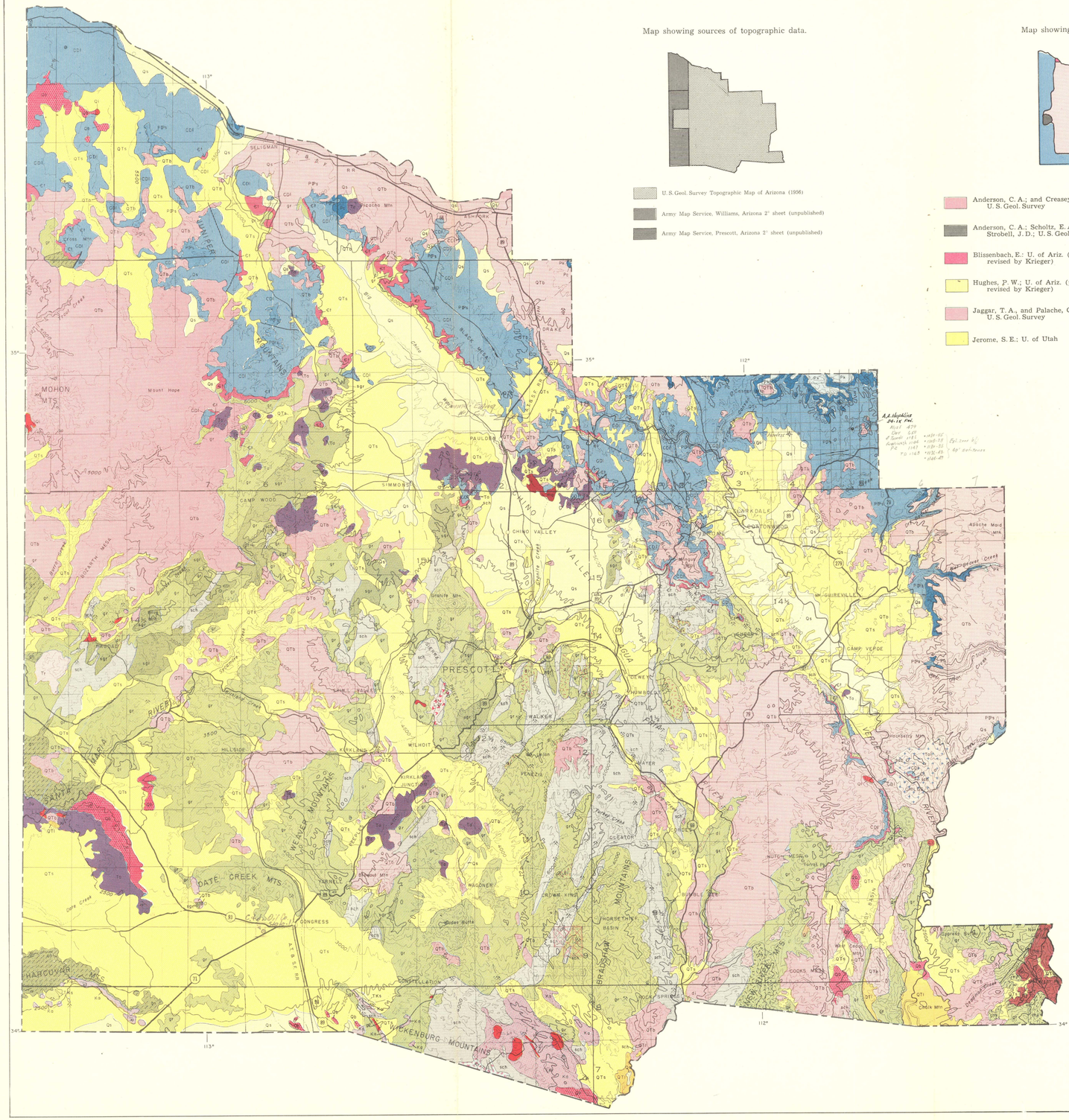
ARIZONA BUREAU OF MINES
UNIVERSITY OF ARIZONA
TUCSON, ARIZONA

Scale $\frac{1}{375,000}$

10 0 10 20 30 Miles

10 0 10 20 30 Kilometers

Contour interval 500 feet
datum is mean sea level
1958



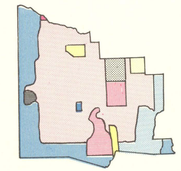
Map showing sources of topographic data.

U.S. Geol. Survey Topographic Map of Arizona (1956)

Army Map Service, Williams, Arizona 2° sheet (unpublished)

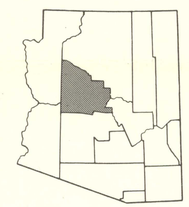
Army Map Service, Prescott, Arizona 2° sheet (unpublished)

Map showing sources of geologic data.



- Anderson, C. A.; and Creasey, S. C.; U. S. Geol. Survey
- Anderson, C. A.; Scholtz, E. A., and Strobell, J. D.; U. S. Geol. Survey
- Blissenbach, E.; U. of Ariz. (partially revised by Krieger)
- Hughes, P. W.; U. of Ariz. (partially revised by Krieger)
- Jaggar, T. A., and Palache, C.; U. S. Geol. Survey
- Jerome, S. E.; U. of Utah
- Johnston, W. P.; U. of Utah
- Krieger, M. H.; U. S. Geol. Survey
- Lehner, R. E.; U. S. Geol. Survey
- Metzger, D. G. and Twenter, F. R.; U. S. Geol. Survey
- Wilson, E. D.; Ariz. Bur. Mines
- Wilson, E. D. and Moore, R. T.; Ariz. Bur. Mines.

INDEX MAP OF ARIZONA
Showing Location of Yavapai County.



EXPLANATION

SEDIMENTARY ROCKS

- Qs — **Gravel, sand, and silt**
- QTs — **Silt, sand, and gravel.**
- QTl — **Lake Deposits** *Siltstone, sandstone, and limestone.*
- Tr — **Rhyolite** *Includes tuff and agglomerate.*
- TKs — **Sandstone, shale, and conglomerate** *Includes some volcanic rocks.*
- Pk — **Kaibab limestone** *Includes Toroweap formation*
- Pc — **Coconino sandstone**
- PPs — **Supai formation** *Includes Hermit shale near Seligman*
- CDl — **Redwall and Martin limestones**
- Ct — **Tonto group**

IGNEOUS ROCKS

- Qb — **Basalt** *Locally includes tuff and agglomerate.*
- QTb — **Basalt** *Locally includes tuff and agglomerate.*
- Tgin — **Intrusive Andesite**
- gr — **Granite and related crystalline intrusive rocks**
- Kr — **Rhyolite**
- Qi — **Dikes and plugs** *Mainly basaltic in composition.*
- Ta — **Andesite** *Includes tuff and agglomerate*
- Li — **Dikes and plugs**
- Ka — **Andesite** *Flows, tuff, and agglomerate*

QUATERNARY
TERTIARY
LARAMIDE
CRETACEOUS
PERMIAN
PENNSYLVANIAN
MISSISSIPPIAN AND DEVONIAN
CAMBRIAN
OLDER PRECAMBRIAN

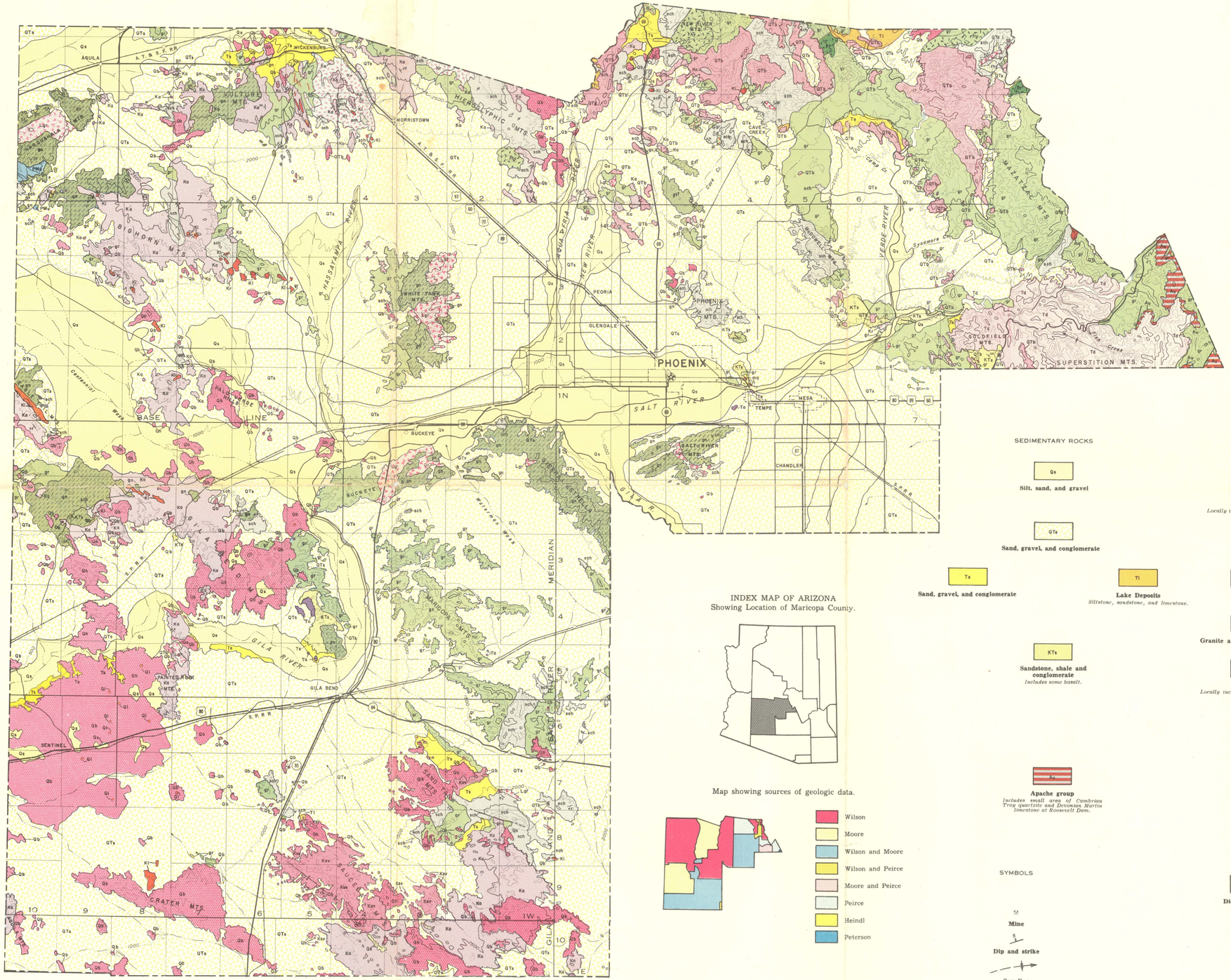
SYMBOLS

- Contact, showing dip
- Fault, showing dip *Dashed where approximately located* U, *upthrown side,* D, *downthrown side*
- Thrust fault (T, upper plate)
- Strike and dip of beds
- Strike of vertical beds
- Horizontal beds
- Mine
- Quarry

METAMORPHIC ROCKS

- mq — **Mazatzal quartzite** *Includes Deadman quartzite and Maverick shale*
- sch — **Schist** *Locally includes diorite, rhyolite, and greenstone.*
- sgr — **Granite and schist undifferentiated**
- gr — **Granite**
- di — **Diorite porphyry**
- rhy — **Red Rock rhyolite**
- gr — **Granite gneiss**

UNIVERSITY OF ARIZONA
ARIZONA BUREAU OF MINES
J. D. FORRESTER, DIRECTOR



GEOLOGIC MAP OF MARICOPA COUNTY, ARIZONA

PREPARED BY THE

ARIZONA BUREAU OF MINES
UNIVERSITY OF ARIZONA

TUCSON, ARIZONA

BY

Eldred D. Wilson, Richard T. Moore, and H. Wesley Peirce with additional data from maps by L. A. Heindl and D. W. Peterson, U. S. Geological Survey.

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Siltstone, sandstone, and limestone.

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Includes some basalt.

Ka — **Apache group**
Includes small area of Cambrian Troy quartzite and Devonian Martin limestone at Roosevelt Dam.

IGNEOUS ROCKS

Qb — **Basalt**
Locally includes tuff and gravel.

Ql — **Dikes and plugs**
Mainly basaltic in composition.

QTb — **Basalt**
Locally includes tuff and gravel.

Ta — **Andesite**

Td — **Dacite**
Includes dacite tuff and agglomerate.

Lgr — **Granite and related crystalline rocks**

Kl — **Dikes and plugs**
Rhyolitic to andesitic in composition.

Ka — **Andesite**
Locally includes tuff and agglomerate.

Kr — **Rhyolite**

Ksv — **Sauceda volcanics**
Includes rhyolite, latite, and andesite. Locally contains volcanic glass.

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gd — **Diorite porphyry**

px — **Pyroxenite**

rhy — **Red Rock rhyolite**

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mq — **Mazatzal quartzite**

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Locally includes diorite, rhyolite, and greenstone.

gst — **Greenstone**
Predominantly altered volcanics.

gn — **Granite gneiss**

QUATERNARY
TERTIARY
LARAMIDE
CRETACEOUS
PALEOZOIC AND MESOZOIC UNDIVIDED
YOUNGER PRECAMBRIAN
OLDER PRECAMBRIAN

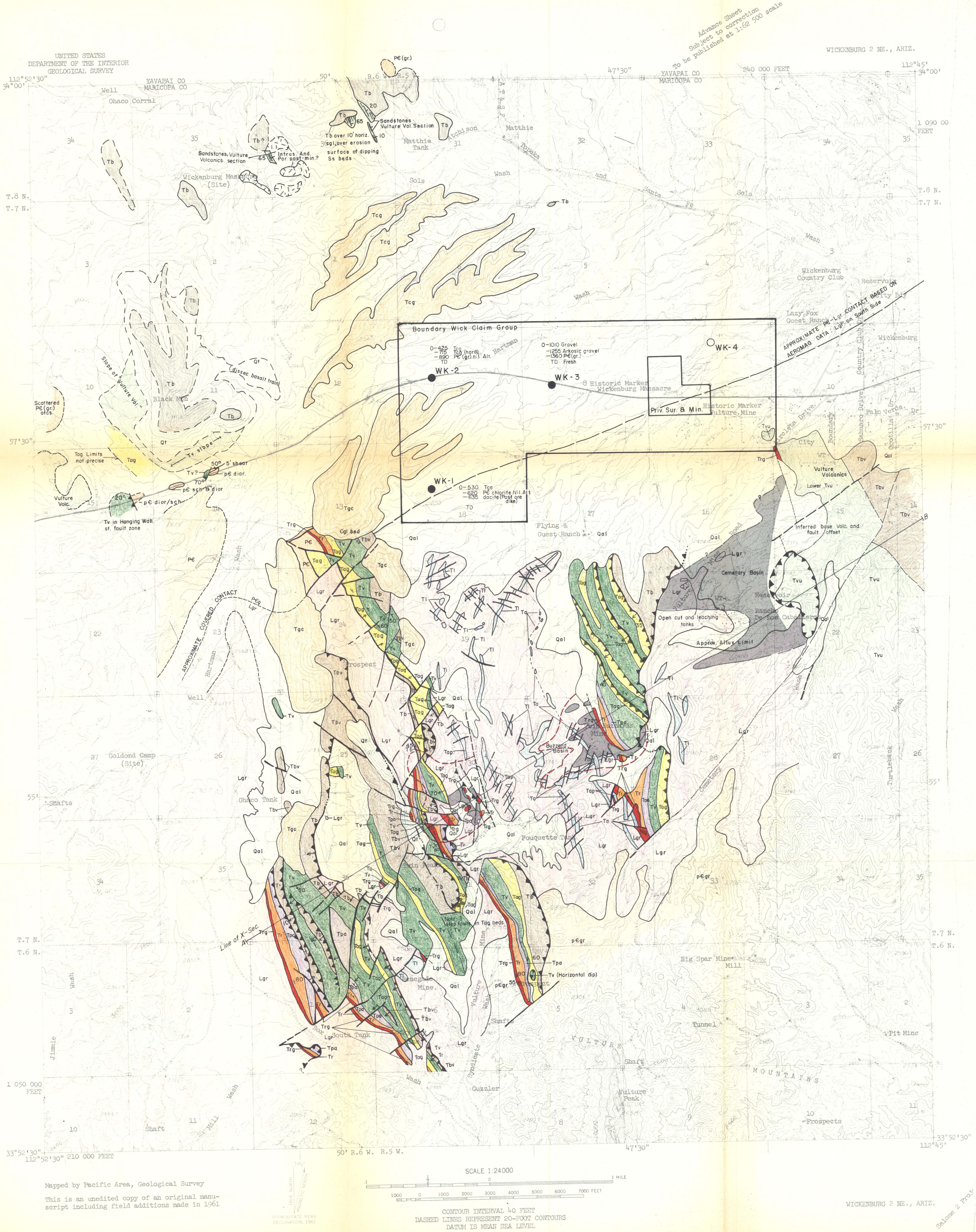
SYMBOLS

Mine

Dip and strike

Syncline

Anticline



CAP PROJECT AREA 124-157

Wickenburg - Kinnison, Maricopa Co., AZ

Explanation

QUATERNARY

Qt	Talus
Qal	Alluvium

TERTIARY

Tgc	"Gila" conglomerate
Tb	Younger basalts
Tbv	Basalt and andesite
Tag	Agglomerate
Tv	Vitrophyre
Tpa	Purple andesite
Tr	Rhyolite
Trg	Red grit (and cgl)
Tap	Dikes and sills: Ta - andesite, Tl - latite (post ore, pre volcanic)
Tvu	Vulture Volcanics undivided

Vulture Volcanics

POST - ORE

PRE - ORE

Lgr	Laramide granite (dioritic in NE area)

PRECAMBRIAN

pЄ	Granite basement with undifferentiated metamorphics

● Project drill hole (○ - proposed)

CAP Property

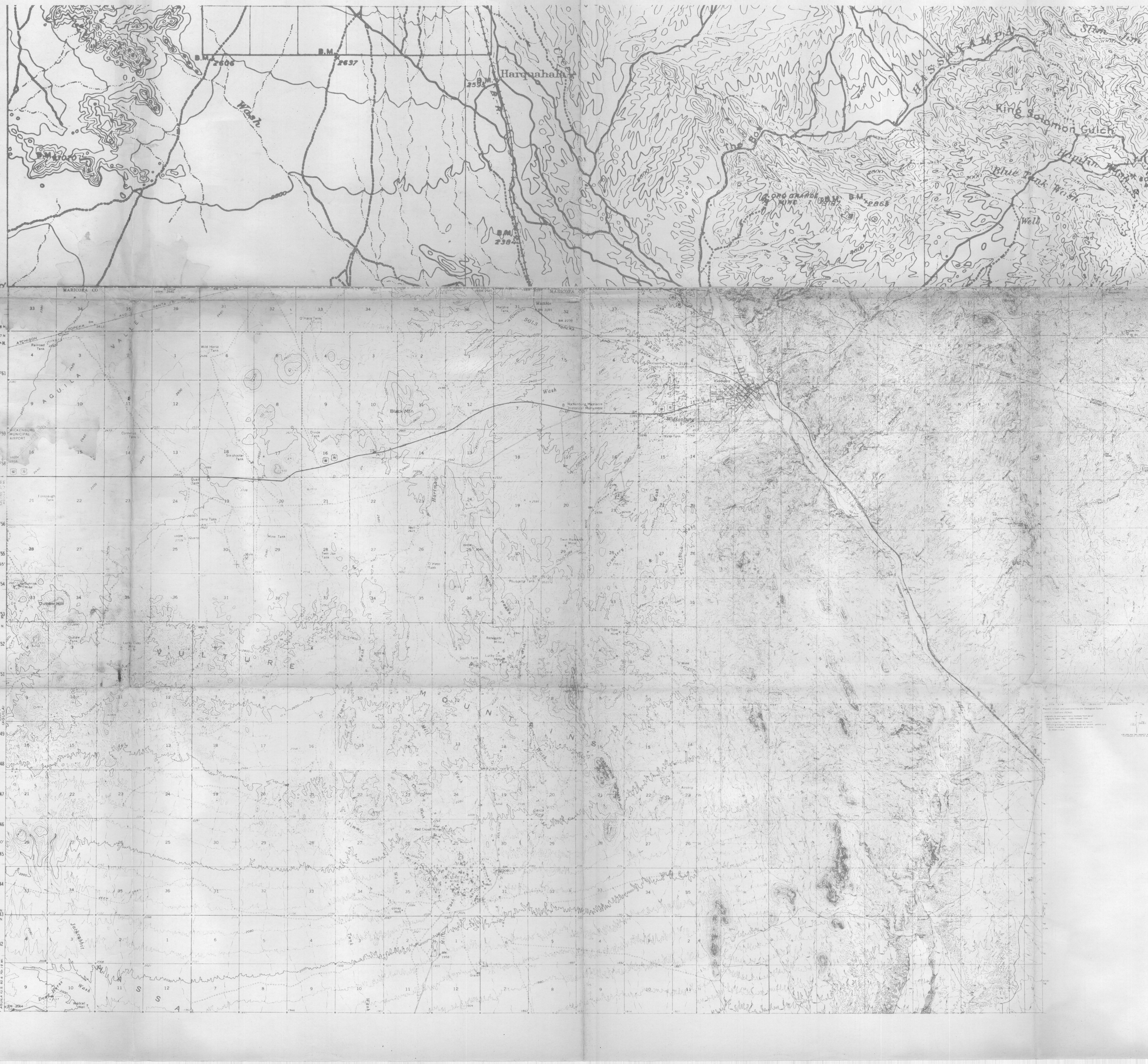
Exotic Copper occurances, plus 1000 ppm Cu (Buzzard Basin and Paul's Basin) plus 500 ppm Cu (Cemetary Basin) (Projected through alluvial cover where present)

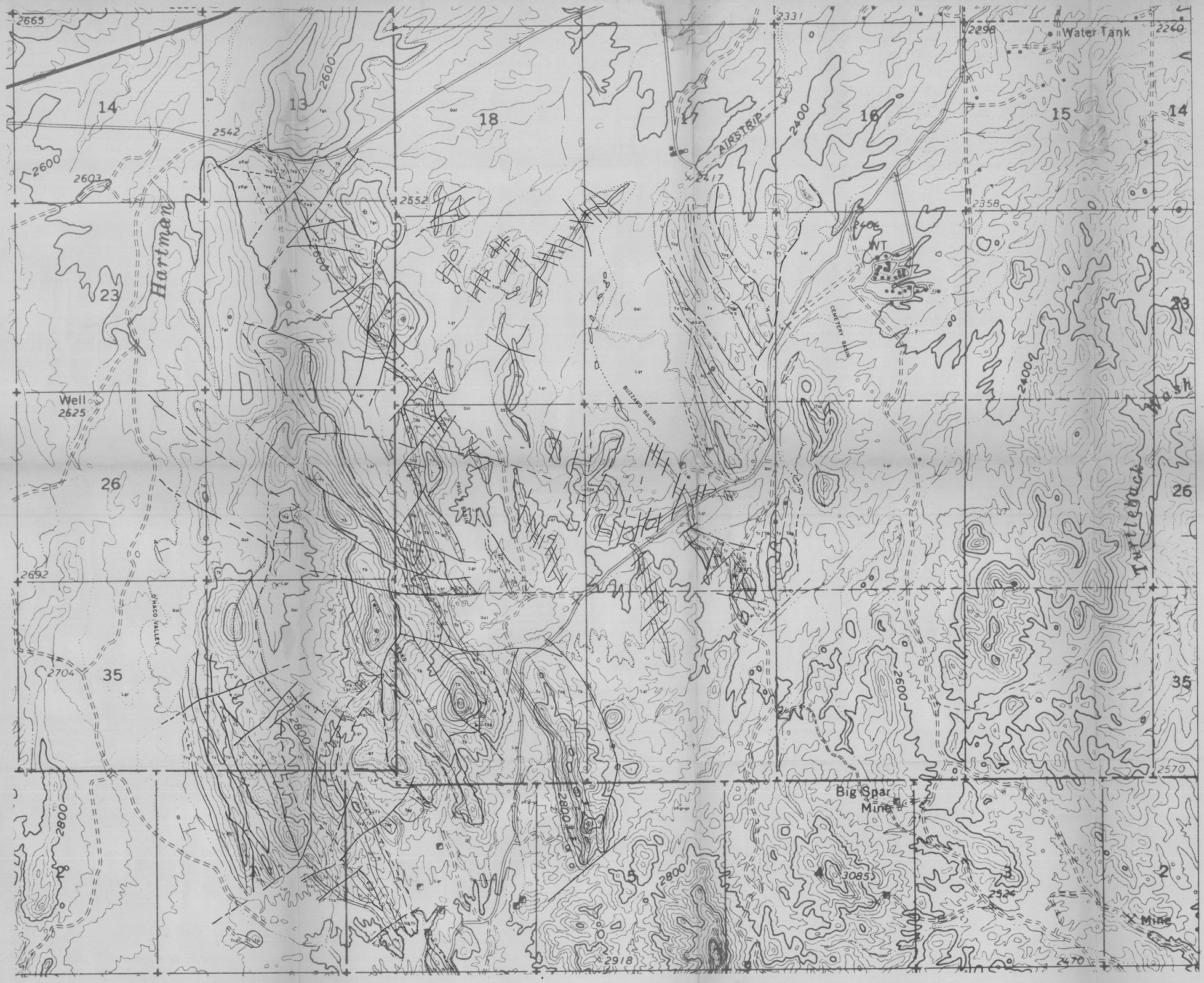
Plus 500 ppm contour: Buzzard Basin and Paul's Basin (not corrected for structural effects)

Fault

Upper Plate / Lower Plate — Low-angle Fault

FIG 3


Harquahala
B.M. 2606
B.M. 2637
B.M. 2595
B.M. 2384
B.M. 3020
Wash
HASSAYAMPA
Slim Jim
King Solomon Gulch
Blue Tank Wash
Well
EL ORO GRANDE MINE
B.M. 2187
B.M. 2865
MARICOPA CO
ATCHISON TOPEKA AND SANTA FE
AGUILA VALLEY
Railroad Tank
Wild Horse Tank
O'Haco Tank
Matthie
Matthie Tank
WICKENBURG MUNICIPAL AIRPORT
Cornelius Tank
Six-shooter Tank
Divide Tank
Black Mtn
Wickenburg Massacre Historical Monument
Wickenburg
Wickenburg Country Club
Water Tank
Quail Tank
Forepaugh Tank
Jerry Tank
Mine Tank
Twin Joe Tank
Hartman
Twin Buzzards Mine
Pouquette Tank
Cemetery
Sunrise Mine
Outlaw Hill
Outlaw Tank
Lucky Cuss Mine
VULTURE
MOUNTAINS
Renegade Mine
South Tank
Lucky Day Mine
Big Spar Mine
Vulture Peak
Jimmie
Red Cloud Mine
VULTURE MINE
Jones Well
Airstrip
Jackrabbit
Dead Horse Wash
Wildcat Well
Grave
Mapped, edited, and published by the Geological Survey



EXPLANATION

QUATERNARY

Qt	TALUS
Qal	ALLUVIUM

TERTIARY

Tgc	"GILA" CONGLOMERATE
Tb	BASALT
Tag	AGGLOMERATE
Tv	VITROPHYRE
Ta	ANDESITE
Tr	RHYOLITE
Tap	DIKES and SILLS (pre-Tr?)
Tcg	BASAL CONGLOMERATE and GRIT

POST-ORE

unconformity

PRE-ORE

Lgr Ldi	LARAMIDE GRANITE and DIORITE

PRECAMBRIAN

p€	GRANITE BASEMENT with UNDIFFERENTIATED METAMORPHICS

JOHN E. KINNISON
PERSONAL PROPERTY

PRELIMINARY GEOLOGIC MAP OF NORTHEAST VULTURE MOUNTAINS

MARICOPA COUNTY ARIZONA

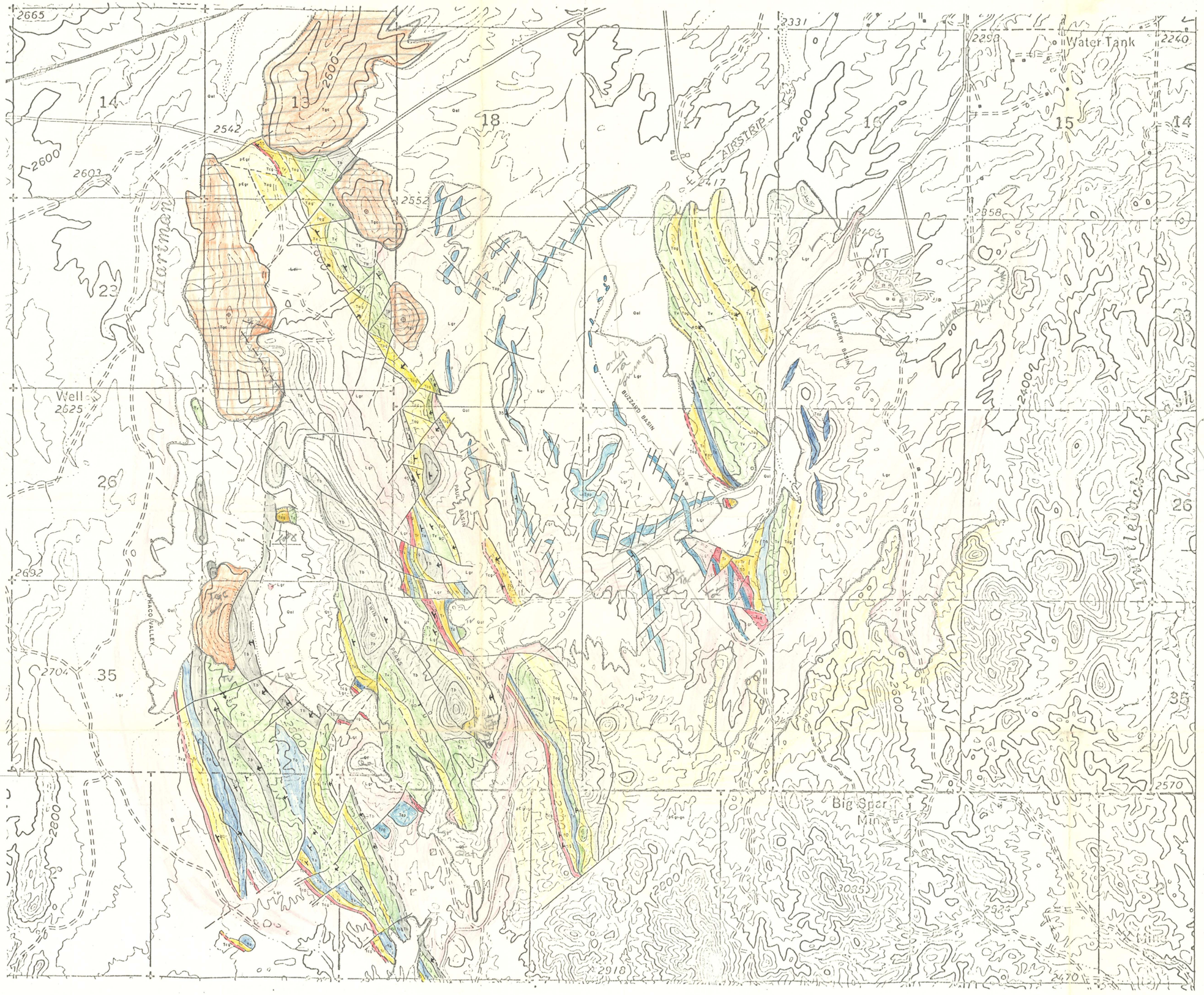
GEOLOGY BY G. L. RICHARDSON

JULY 26, 1972

SCALE

0 miles 1/2 1.0

1000 0 1000 2000 3000 4000 feet



EXPLANATION

QUATERNARY

Qt	TALUS
Qal	ALLUVIUM

TERTIARY

Tb	younger Basalts
Tgc	"GILA" CONGLOMERATE
Tbv	BASALT and Andesite
Tag	AGGLOMERATE
Tv	VITROPHYRE
Ta	ANDESITE
Tr	RHYOLITE
Tap	DIKES and SILLS ~~(pre-Tr?)~~ (Post ore, pre volcanic)
Tcg	~~BASAL CONGLOMERATE and~~ GRIT (and cgl)

unconformity

unconformity

Vulture Volcanics

Tpu PURPLE

Ta Andesite latite

Red

POST-ORE

unconformity

PRE-ORE

Lgr Ldi	LARAMIDE GRANITE ~~and~~ DIORITE IN NE AREA

PRECAMBRIAN

p€	GRANITE BASEMENT with UNDIFFERENTIATED METAMORPHICS

JOHN E. KINNISON
PERSONAL PROPERTY

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31 claims