

CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
3550 N. Central Ave, 2nd floor
Phoenix, AZ, 85012
602-771-1601
<http://www.azgs.az.gov>
inquiries@azgs.az.gov

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EXPLANATION

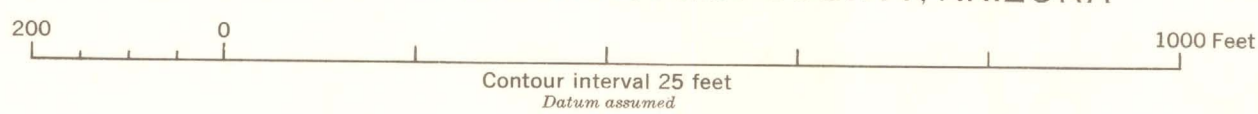
	Qal	QUATERNARY
	Alluvium	
	Plm	PERMIAN
	Lower Manzano equivalent	
	Pn	PENNSYLVANIAN
	Naco limestone (restricted); interbedded limestone and hornfels	
	Cb	CAMBRIAN
	Bolsa quartzite	
	gr	
	qz	
	Monzonite and granite, locally porphyritic	
	qz	
	Granular quartz	
	Contact, dashed where approximately located	
	Fault, showing dip; dashed where approximately located	
	Strike and dip of beds	
	Vertical shaft	
	Inclined shaft	
	Mine workings	
	Opencut	
	Dump	
	Claim corner, approximately located	

Topography by H. H. Sullwold and G. L. Quick, 1943

Geology by S. C. Creasey, 1943

INTERIOR-GEOLOGICAL SURVEY, WASHINGTON, D. C. M R-7621

GENERALIZED GEOLOGIC MAP AND SECTION OF THE AREA ADJACENT TO THE COPPER WORLD AND LEADER MINES,
HELVETIA MINING DISTRICT, PIMA COUNTY, ARIZONA

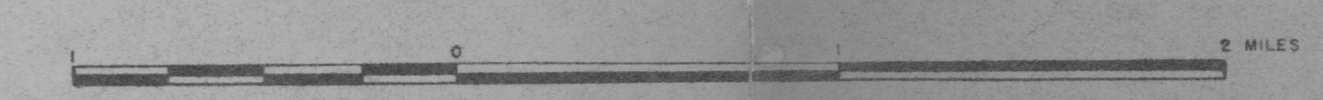


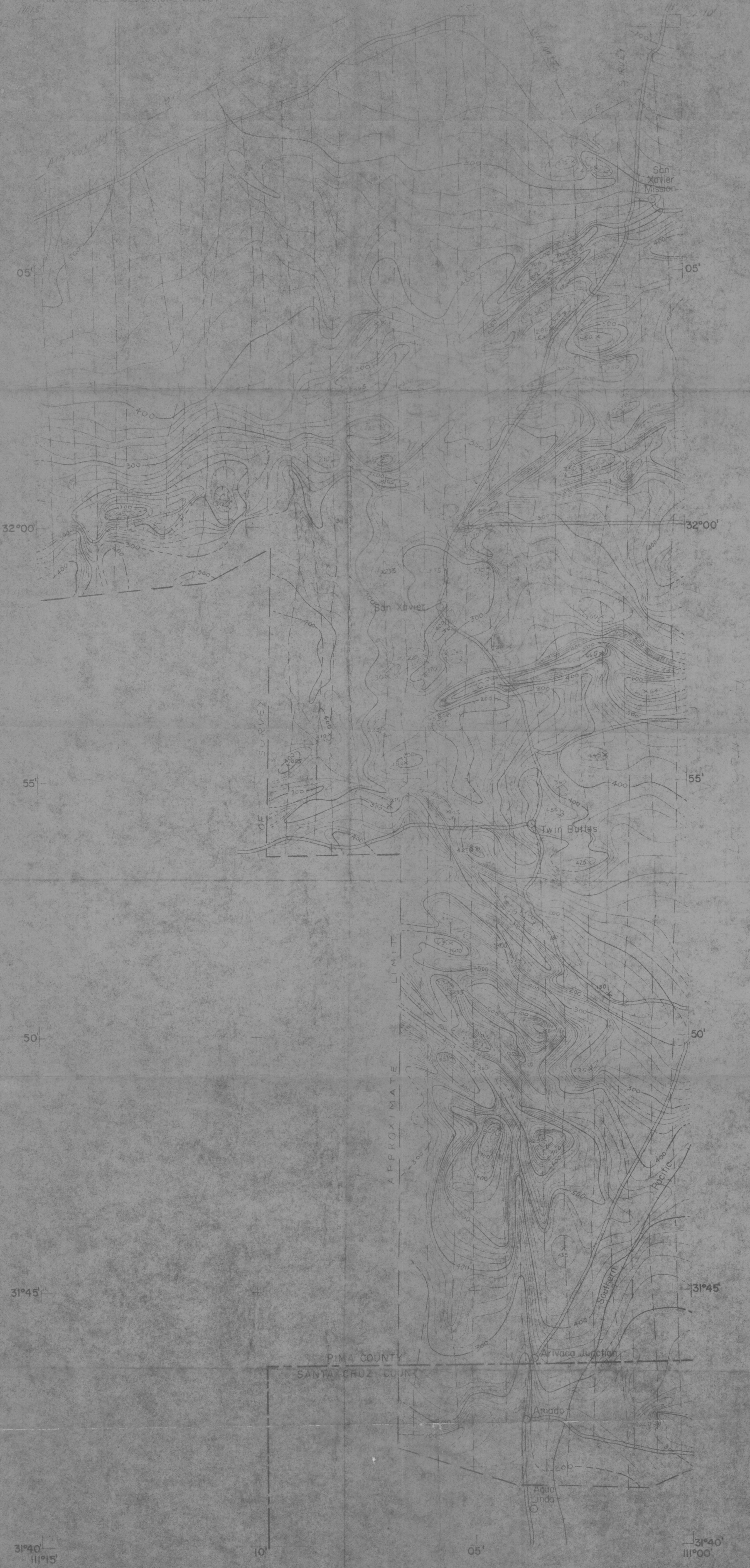


- GILA CONGLOMERATE + RECENT ALLUVIUM
 - SANDSTONE, SHALES - CRETACEOUS, COMANCHE UNDIFFERENTIATED
 - QUARTZITES + CONGLOMERATES - CAMBRIAN(?)
 - UNDIFFERENTIATED TERTIARY IGNEOUS ROCKS
 - GRANITE PORPHYRY
 - QUARTZ DIORITE
 - DIORITE
 - QUARTZ MONZONITE
 - QUARTZ PORPHYRY
 - GRANITE
 - SIGNIFICANT DISSEMINATED COPPER AREA
 - HYDROTHERMALLY ALTERED
- ⊙ WELL LOCATION + DEPTH - SEDIMENT BOTTOM
⊙ WELL LOCATION + DEPTH - GRANITE BOTTOM
⊙ WELL LOCATION + DEPTH - ALLUVIUM OR NO LOG

**TOTAL MAGNETIC INTENSITY
PIMA AREA, ARIZONA**

SCALE: 1" = 3,680' DATA BY: AREO SERVICE DATE: JUNE 5, 1954
CONTOUR INTERVAL: 50' REVISIONS:
COMPILED BY: JRB JAN 1955
DRAWN BY: JRB DRAWING NO.: US-322





EXPLANATION

Magnetic Contours
Showing total intensity of the earth's magnetic field in millitesla (mT) or gauss (G). Contours are drawn at 100 mT (1000 G) intervals. Contours of lower magnetic intensity are dashed where they are incomplete.

Measured maximum or minimum intensity within closed high or closed low.

Scale
1 inch = 1 mile (approx.)

This map is a compilation of data obtained from aeromagnetic surveys flown at 500 feet above ground in 1959. The data were obtained from the U.S. Geological Survey's Aeromagnetic Survey of the United States. The map is a preliminary map and is subject to change as more data are obtained. The map is not to be used for navigation or other purposes where high accuracy is required. The map is a compilation of data and is not a survey.



INDEX MAP OF ARIZONA SHOWING LOCATION OF AEROMAGNETIC SURVEY MADE AT 500 FEET ABOVE GROUND, 1959



INDEX MAP SHOWING U.S. GEOLOGICAL SURVEY TOPOGRAPHIC QUADRANGLE MAPS USED AS COMPILATION BASE

AEROMAGNETIC MAP OF THE TWIN BUTTES AREA, PIMA AND SANTA CRUZ COUNTIES, ARIZONA FLOWN AT 500 FEET ABOVE GROUND

1:62500
1" = 1 mile approx.

U.S. GEOLOGICAL SURVEY
Released to open files
11/15/1977

This map is preliminary and has not been edited or reviewed for conformity with Geological Survey standards.

