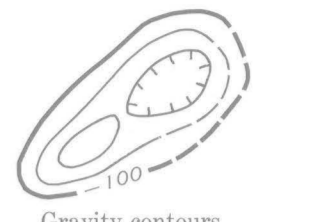




EXPLANATION



Gravity contours
Dashed where approximately located. Contour interval of 1 milligal. Heched contours indicate areas of low gravity closure

Gravity station
A density of 2.67 grams per cubic centimeter was assumed in reducing the data to the Bouguer anomaly. Theoretical gravity was computed from the International Formula. Terrain corrections were made by the Coast and Geodetic Survey system (Smith, 1942, p. 47-63) for stations located in or adjacent to the mountain ranges. The terrain effect is negligible for the remainder of the area. The Phoenix Airport gravity base station (Woodward, 1958, p. 212) is the reference for gravity values. The principal facts for the gravity stations have been placed on open file (Peterson, 1968)

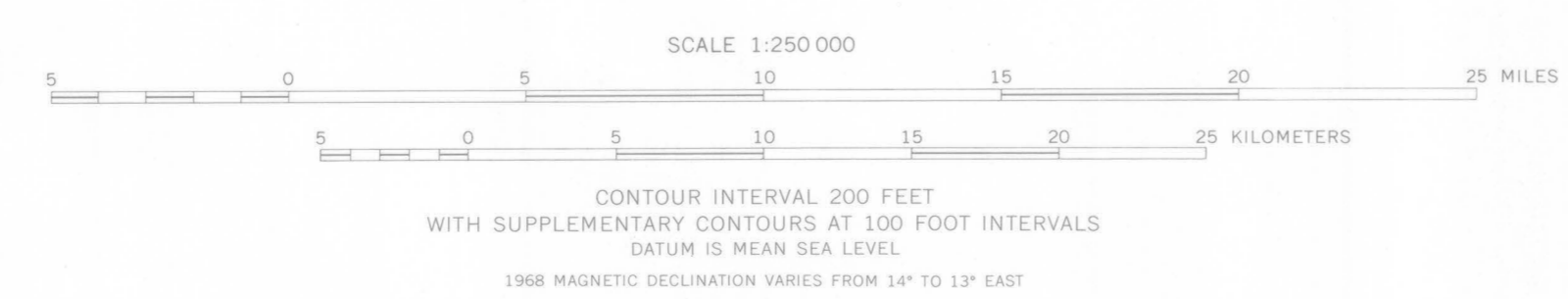
REFERENCES

Peterson, D. L., 1968, Bouguer anomaly map and principal facts for gravity stations for the Central Arizona Project; U.S. Geol. Survey open file map 791.
Swick, C. H., 1942, Pendulum gravity measurements and isotatic reductions; U.S. Coast and Geod. Survey Spec. Pub. 232, 82 p.
Woodward, G. F., 1958, Details of a gravity control network at airports in the United States; Geophysics, v. 23, p. 529-535

Base from U.S. Geological Survey: Phoenix, 1954-64; Mesa, 1954-65, Apr. 1953-62; and Tucson, 1956-62



INDEX MAP SHOWING LOCATION OF GRAVITY SURVEY



BOUGUER GRAVITY MAP OF PARTS OF MARICOPA, PIMA, PINAL, AND YUMA COUNTIES, ARIZONA

By
Donald L. Peterson
1968