

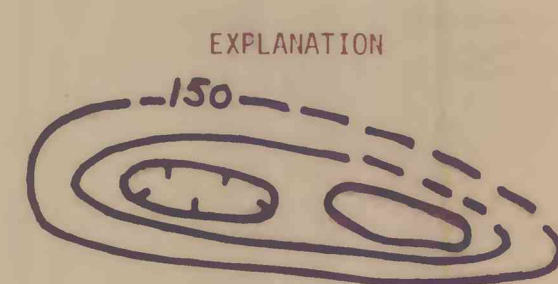
PRELIMINARY SIMPLE BOUGUER GRAVITY MAP OF NORTHEASTERN SONORA
NORTHWESTERN CHIHUAHUA, AND SOUTHEASTERN ARIZONA

PREPARED BY THE U.S. GEOLOGICAL SURVEY AND THE CONSEJO DE RECURSOS MINERALES

1977

SCALE 1:500,000

0 10 20 30 40 50 KILOMETERS



GRAVITY STATION

Contour interval 5 milligals. Hachured contours indicate areas of low gravity closure. Dashed where approximately located.

A density of 2.67 grams per cubic centimeter was assumed in reducing the data to the Bouguer anomaly. Theoretical gravity for Mexico was computed from the Geodetic Reference System 1967. Observed gravity values were referenced to the International Gravity Standardization Network, 1971 (Monges and Mena, 1971).

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

The Arizona area of the map is taken from the "Bouguer Gravity Anomaly Map of Arizona" by West and Sumner, 1973. Theoretical gravity for Arizona was referenced to the Potsdam datum.

Data for preparing the Mexico map area were obtained by Donald L. Peterson and M. Dean Kleinkopf, U.S. Geol. Survey, Carlos Anaya Renovato and Mauricio F. de la Fuente Duch, Consejo de Recursos Minerales, and the U.S. Defense Mapping Agency. Stippled pattern in Arizona indicates areas where station density is less than two kilometers.

REFERENCES
Monges Caldera, J., and Mena Jara, M., 1971. Nueva red de estaciones gravimetricas basicas en la parte norte de la Republica Mexicana: Mexico (City) Universidad Nacional, Instituto de Geofisica, Anales v. 17, p. 135-141.

West, R. E., and Sumner, J. S., 1973. Bouguer Gravity Anomaly Map of Arizona: Lab. of Geophysics, Dept. of Geosciences, Univ. of Arizona.