DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

GEOPHYSICAL INVESTIGATIONS
MAP GP-638

EXPLANATION

Gravity station

Gravity contours

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

A density of 2.67 grams per cubic centimeter was assumed in reducing the data to the complete Bouguer anomaly. Terrain corrections were computed on a digital computer to a radius of 166.7 kilometers by a method described by Plouff (1966). Theoretical gravity was computed from the International Formula. The gravity values were referenced to the Denver, Colo. airport base station (Woollard, 1958) and base station WU 7 at Colorado School of Mines, Golden, Colo. (Behrendt and Woollard, 1961).

REFERENCES

Behrendt, J. C., and Woollard, G. P., 1961, An evaluation of the gravity control network in North America: Geophysics, v. 26, no. 1, p. 65.

Plouff, Donald, 1966, Digital terrain corrections based on geographic coordinates [abs.]: Geophysics, v. 31, no. 6, p. 1208.

Woollard, G. P., 1958, Results for a gravity control network at airports in the United States: Geophysics, v. 23, no. 3, p. 532.

Geologic map for GP-638 is U.S. Geological Survey Map I-558.

Base from U.S. Geological Survey, 1954–62

Scale 1:250,000

5 0 5 10 15 20 Statute Miles

5 0 5 10 15 20 25 30 Kilometers

Gravity surveyed in 1963–65 and 1967

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GRAVITY MAP OF THE TRINIDAD QUADRANGLE, COLORADO

A CONTRIBUTION TO THE UPPER MANTLE PROJECT

By

D. L. Peterson, Peter Popenoe, J. R. Gaca, and D. E. Karig

1968

For sale by U.S. Geological Survey, price 50 cents