

REPORTS RELEASED TO THE OPEN FILE -
U. S. GEOLOGICAL SURVEY

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Regional Gravity Survey of the Carrizo Mountains area, Arizona and New Mexico, by Donald Plouff, May 8, 1958. Five figures, two tables. Includes Bouguer gravity anomaly map. Available for inspection at the Arizona Bureau of Mines.

A total of 570 gravity stations were established within an area of about 1,000 square miles south of the common corner of Colorado, Utah, Arizona and New Mexico. The Bouguer gravity anomaly pattern apparently is unrelated to the disposition of minette plugs inasmuch as there probably is little contrast in density between the conduit filling and the surrounding sedimentary rock. Gravity contours associated with an underlying dense mass within the precambrian basement parallel the Boundary Butte anticlinal structure. The steep gravity anomaly gradient near the southeast corner of the area probably follows the buried, steeply dipping or faulted edge of the Defiance uplift.

LIST OF AERCMAGNETIC MAPS DEPOSITED FOR INSPECTION WITH THE
ARIZONA BUREAU OF MINES

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1. Preliminary Total Intensity Aeromagnetic Map of Parts of Camelback, Mesa, and Phoenix Quadrangles, Arizona.
2. Total Intensity Aeromagnetic Map of Jerome - Prescott Area, Yavapai County, Arizona.
3. Preliminary Total Intensity Aeromagnetic Map of Part of Cortaro Quadrangle, Arizona.
4. Preliminary Total Intensity Aeromagnetic Map of Parts of Fisher Hills and Willcox Quadrangles, Arizona.
5. Preliminary Total Intensity Aeromagnetic Map of Glove Quadrangle, Arizona.
6. Total Intensity Aeromagnetic Map of Mammoth Quadrangle, Arizona.
7. Preliminary Total Intensity Aeromagnetic Map of Bagdad Area, Yavapai County, Arizona.
8. Preliminary Total Intensity Aeromagnetic Map of Cochise and Dragoon Quadrangles, Arizona.