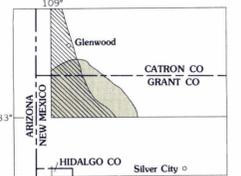
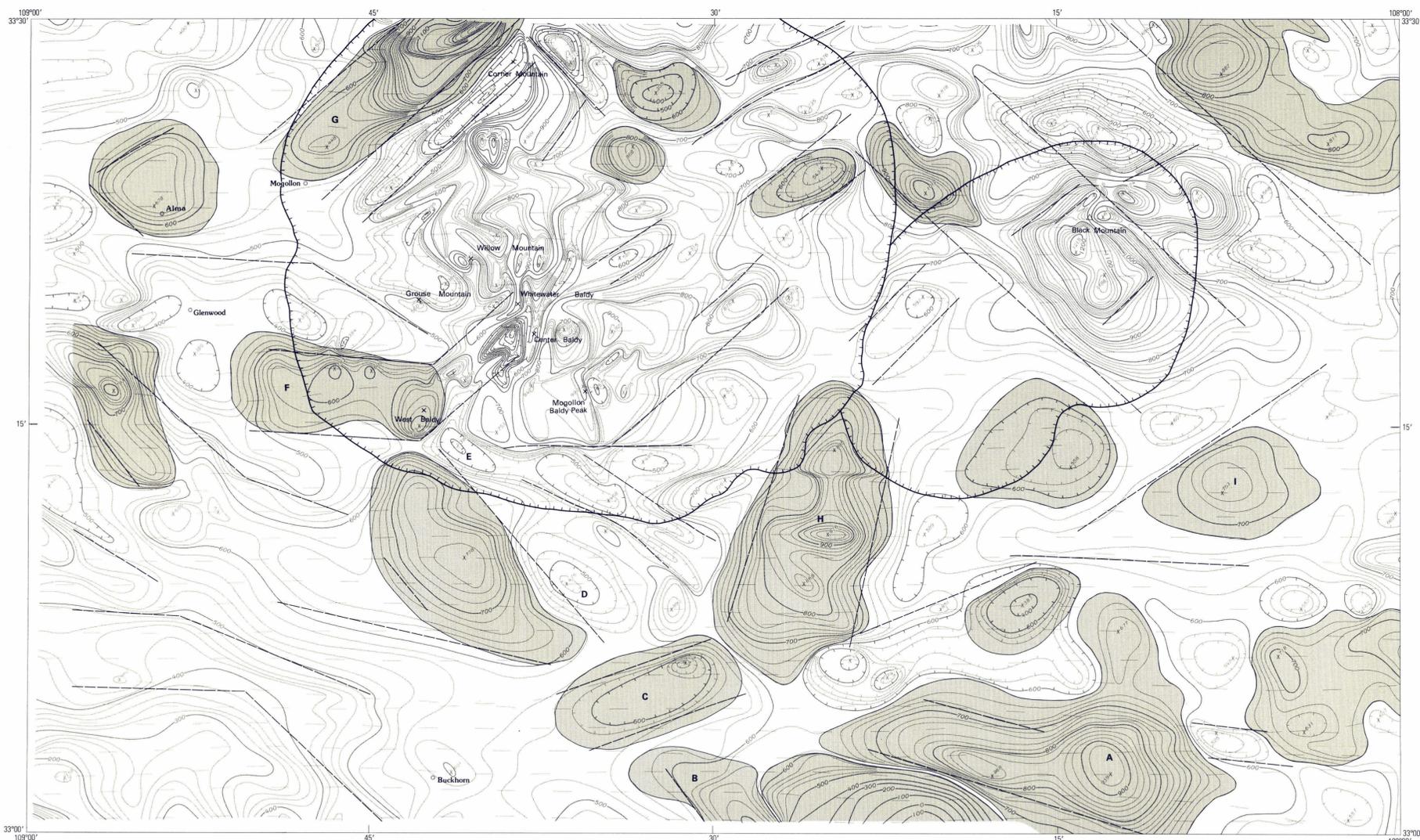


A—RESIDUAL GRAVITY MAP BASED ON COMPLETE BOUGUER VALUES

- EXPLANATION FOR GRAVITY MAP**
- |            |     |   |
|------------|-----|---|
| QUATERNARY | QTs | Gila Conglomerate and other sedimentary rocks—Includes local interlayered basalt  |
|            | Tvu | Undivided volcanic rocks—Includes lava flows of Gila Flat ash-flow tuff sequences, and post-ash-flow tuff rhyolitic and andesitic rocks |
| TERTIARY   | Trv | Isolated vent zone bodies of rhyolite   |
|            | Tr  | Rhyolite lava flows and domes   |
|            | Thg | Dacitic intrusive(?) rocks of Holt Gulch  |
|            | Tva | Volcanic complex of Alum Mountain (Tva) and volcanic complex of Brock Canyon (Trb)  |
|            | Tvb |   |
|            | Tcu | Andesitic flows and breccias of Turkey Cienega Canyon and ash-flow tuffs of Rocky Canyon  |
- Contact—Generalized from plate 1A and from Dane and Bachman (1961)  
 — Fault—Bar and ball on down-thrown side  
 — Caldera boundary  
 — Gravity contours, interval 5 milligals  
 2.67 g/cm Density used for reducing gravity data  
 — 2A Gravity anomaly discussed in text



- EXPLANATION FOR INDEX**
- Area of gravity data coverage provided by U.S. Army (TOPOCOM)  
 Area of geology generalized from Dane and Bachman (1961)
- Santa Rita-Hanover axis from M. J. Aldrich (written commun., 1972)



B—AEROMAGNETIC MAP

- EXPLANATION FOR AEROMAGNETIC MAP**
- Magnetic contours—Showing total intensity magnetic field of the earth in gammas relative to arbitrary datum. Hachured to indicate closed areas of lower magnetic intensity. Dashed where data are incomplete. Contour intervals 20 and 100 gammas  
 Location of measured maximum or minimum intensity within closed high or closed low  
 Flight path—Showing location and spacing of data  
 Anomaly studied in detail during the course of the present mineral appraisal  
 B Anomaly discussed in text  
 — General trend of magnetic gradient  
 — Inferred caldera boundary based on geologic mapping and gravity and aeromagnetic maps

Aeromagnetic survey flown and compiled by U.S. Geological Survey. Flown at 10,500 feet (3,200 m); barometric elevation, 1968; flight-line spacing 1 mile (1.6 km)

RESIDUAL GRAVITY AND AEROMAGNETIC MAPS OF THE GILA STUDY AREA, SOUTHWESTERN NEW MEXICO

