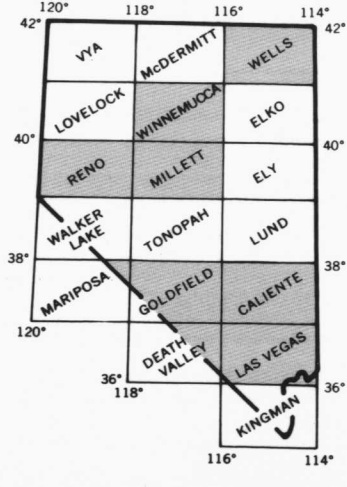


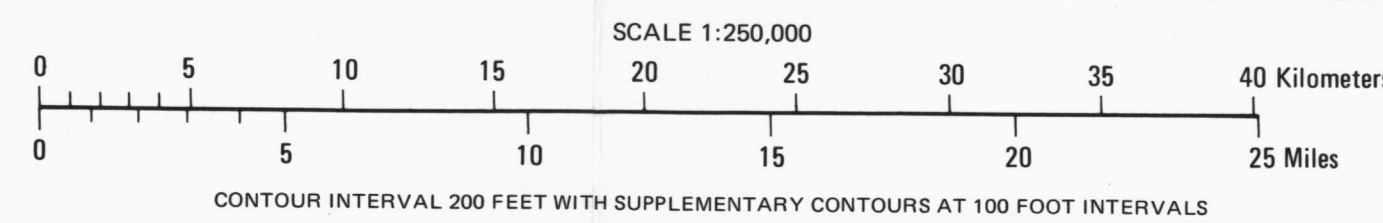
| | | |
|--|-----|-------------|
| Czs | Czv | CENOZOIC |
| Cenozoic sedimentary rocks | | |
| Alluvial deposits, playa deposits, tuffaceous sedimentary rocks, sandstone, conglomerate, minor limestone and dolomites. | | |
| Cenozoic volcanic rocks | | CENOZOIC |
| Olivine basalts, welded to unwelded silic ash-flow tuffs, andesite lava and breccia, intrusive andesites. | | |
| Tertiary intrusive rocks | | |
| Granitic and rhyolitic rocks. Lesser amounts of mafic and intermediate composition rocks. | | MESOZOIC |
| Mzs | | |
| Mesozoic sedimentary rocks | | |
| Sandstone and conglomerate rocks. Includes the Chinle and Moenkopi Formations. | | MESOZOIC |
| Pzs | | |
| Paleozoic sedimentary rocks | | |
| Extensive thick-bedded marine limestones and dolomites. Less extensive quartzite, shale and sandstones. | | PALEOZOIC |
| Precambrian rocks | | |
| Quartzite, phyllitic siltstone, conglomerate, limestone and dolomite. | | |
| Contact | | PRECAMBRIAN |
| Fault | | |
| Thrust fault Barbs on upper plate. | | |
| Gravity contours | | PRECAMBRIAN |
| Contour interval 5 milligals. Hachured contours indicate areas of low gravity closure. Dashed where data is incomplete. | | |
| Gravity station Accurate to ±0.6 mGals. Includes 45 altimeter stations accurate to ±2.0 mGals. | | |
| Gravity base station | | |

The data have been reduced to the 1971 IGSN (International Gravity Standardization Network) (Morell, 1974). The prime base station is the DOD gravity station "Tonopah" at the Tonopah airport, $g = 979,462.50$ mGals (Healey and others, 1979, p. 68). The reference spheroid is GRS 1967 (International Association of Geodesy, 1971). Reduction density is 2.67 g/cm^3 . Terrain corrections were made for all stations from the station outward to a distance of 166.7 km using the U.S. Geological Survey modification of the Defense Mapping Agency digital terrain data and a procedure by Plouff (1977). Where topographic maps were available, terrain corrections to a distance of 2.6 km were made using cylindrical ring templates (Hammer, 1939). See U.S. Geol. Survey Open-file report 474-305, 1979, by the authors of this report for further discussion.



SOURCES OF GRAVITY DATA

| Source | Number of stations |
|---|--------------------|
| Defense Mapping Agency Hydrographic/Topographic Center (DMAHTC)/Geodetic Survey Squadron (Snyder and others, 1980) | 483 |
| Fugro National Consulting Engineers and Geologists; Defense Mapping Agency Hydrographic/Topographic Center/Geodetic Survey Squadron (Snyder and others, 1980) | 102 |
| Healey and others (1979) | 2418 |
| Snyder and others (1980) | 294 |
| Total | 3297 |



**COMPLETE BOUGUER GRAVITY MAP OF NEVADA
CALIENTE SHEET**
D. L. Healey, D. B. Snyder, R. R. Wahl, and F. E. Currey
1981

SOURCE OF GENERALIZED GEOLOGY
Stewart, J. H. and Carlson, J. E. (1974) Preliminary geologic map of Nevada: U.S. Geol. Survey Misc. Field Studies, MF-609.

Base map: U.S. 1:250,000 series, Caliente sheet, 1970
First edition, first printing, 1981: 1550 copies
Printed by Williams and Heintz Map Corp., Washington, D.C.
Cartography by Susan L. Nichols
Edited by Mast A. Stephens
Geology generalized by John W. Erwin
Composed by Patricia A. Chambers
Nevada Bureau of Mines and Geology
University of Nevada, Reno, NV 89557
Price: \$4.00

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