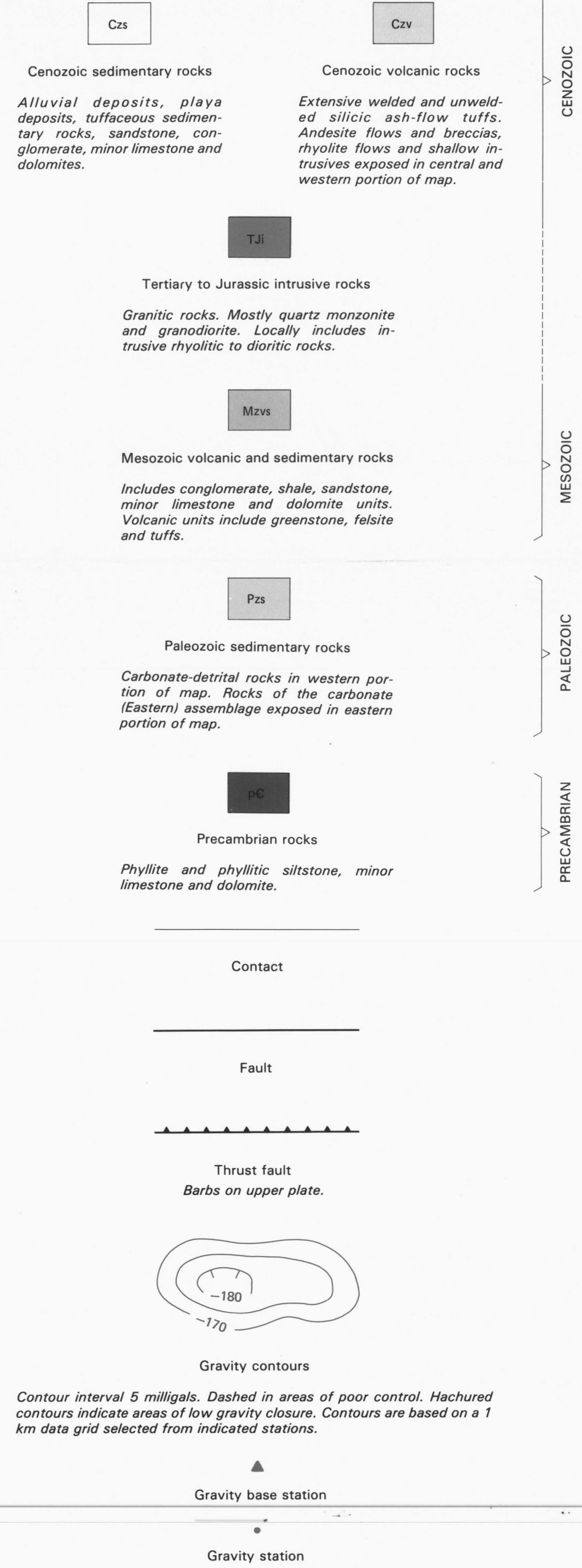
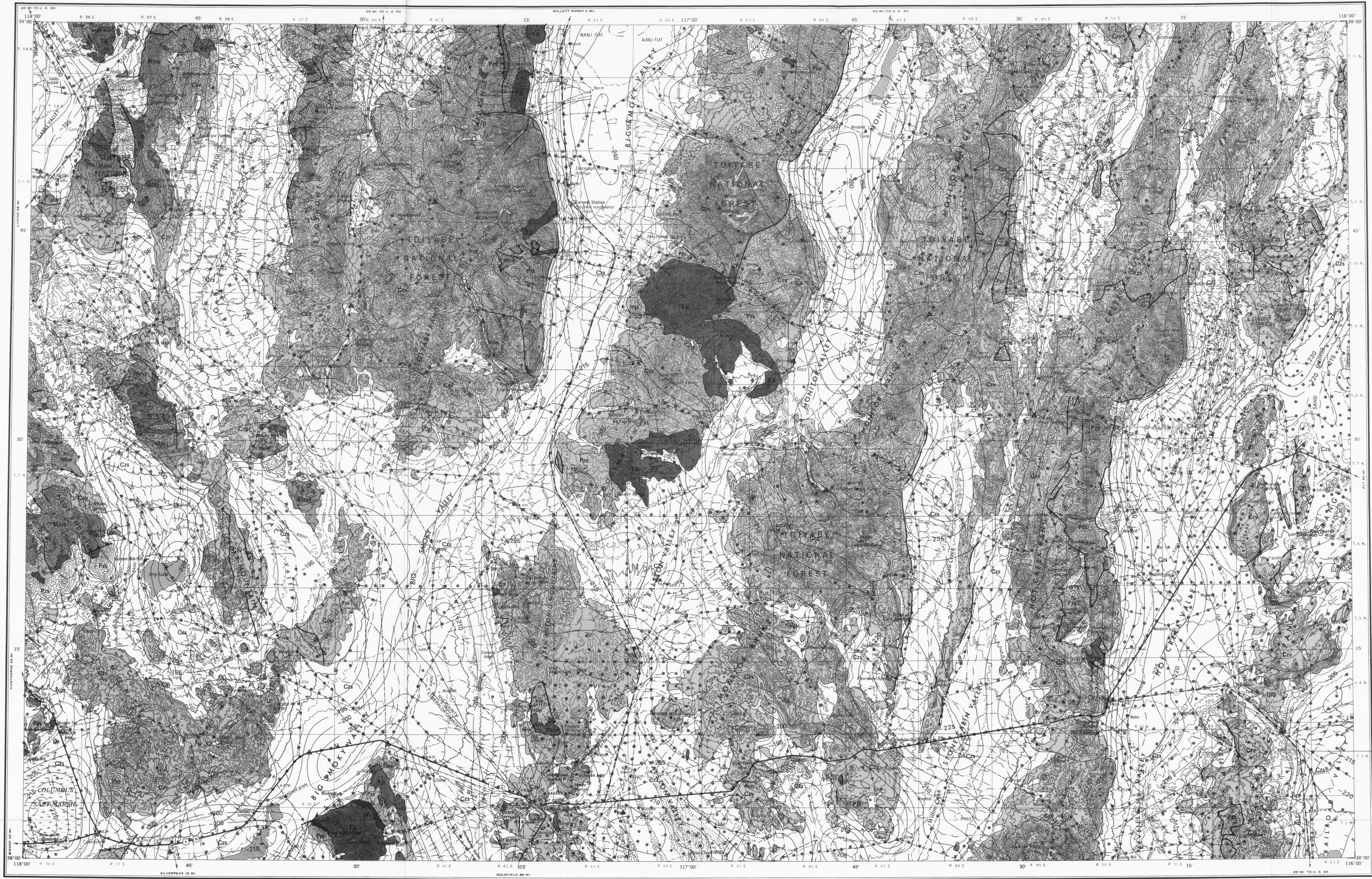
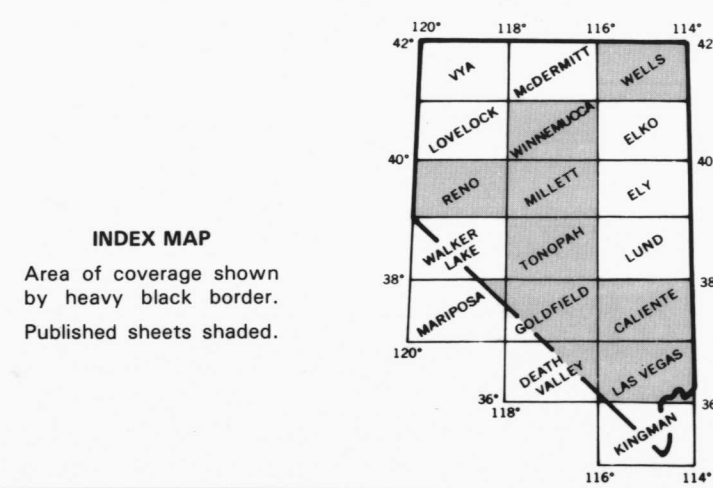
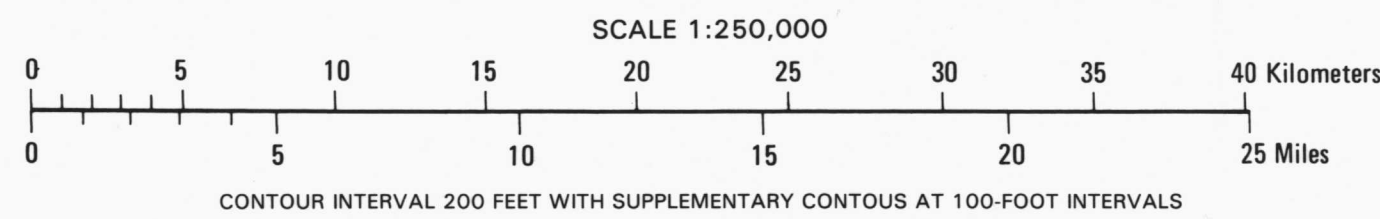




The gravity data have been reduced to the 1971 IGSN (International Gravity Standardization Network) (Morelli, 1974). The prime base station is the IGSN71 gravity station "Tonopah, J" at the Tonopah airport; $g = 979,463.25$ mgals. The reference spheroid is GRS 1967 (International Association of Geodesy, 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 0.59 km were made using cylindrical ring templates (Hammer, 1939).



SOURCES OF GRAVITY DATA	
	Number of stations
A.H. Cogbill (Healey and others, 1980)	127
Defense Mapping Agency Hydrographic/Topographic Center (DMAHTC)/Geodetic Survey Squadron (GSSQ) (Healey and others, 1980)	193
DMAHTC/GSSQ (Saltus and others, 1981)	928
D.L. Healey (Healey and others, 1980)	2564
D.L. Peterson (Saltus and others, 1981)	36
D.B. Snyder (Saltus and others, 1981)	387
Others (Healey and others, 1980)	314
Total	4548



COMPLETE BOUGUER GRAVITY MAP OF NEVADA

TONOPAH SHEET

D.L. Healey, D.B. Snyder, and R.R. Wahl
1981

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

REFERENCES
Hammer, Sigmund (1939) Terrain corrections for gravimeter stations: *Geophysics*, v. 4, p. 184-194.
Healey, D.L., Wahl, R.R., and Currey, F.E. (1980) Complete Bouguer gravity map of the Tonopah 15' x 21' quadrangle, Nevada: U.S. Geological Survey open-file report 80-811.
International Association of Geodesy (1971) Geodetic reference system 1967: International Association of Geodesy Special Publication 3.
Morelli, C. (1974) The International Gravity Standardization Net 1971: International Association of Geodesy Special Publication 4.
Plouff, Donald (1977) Preliminary documentation for a FORTRAN program to complete gravity terrain corrections based on topography digitized on a geographic grid, U.S. Geological Survey open-file report 77-535.
Saltus, R.W., Snyder, D.B., and Karish, C.R. (1981) Principal facts, accuracies, sources, and base station descriptions and plots for 1380 gravity stations in the western half of the Tonopah 15' x 21' quadrangle, Nevada: U.S. Geological Survey open-file report, 5 p.; available from National Technical Information Service, NTIS PB81-218-081.

Base map: U.S. 1:250,000 series, Tonopah sheet, 1973.
First edition, first printing, 1981: 1500 copies.
Printed by Williams and Heintz Map Corp., Washington, D.C.
Cartography by Susan L. Tingley.
Edited by Matt A. Stephens.
Geology generalized by John W. Erwin.
Typeset by Patricia A. Chambers.
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