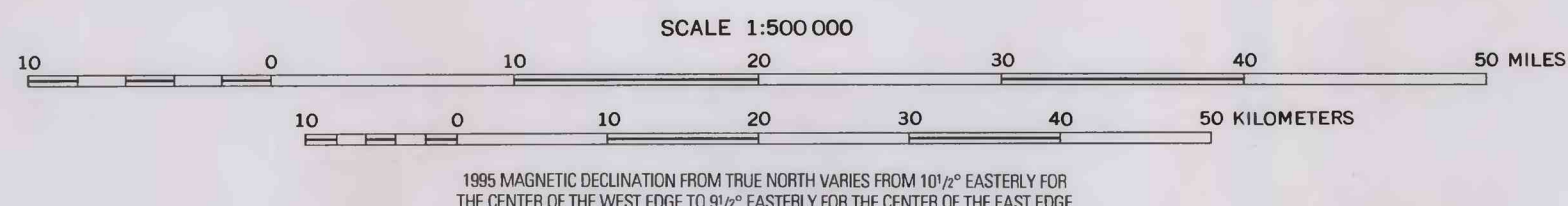




- EXPLANATION**
- Gravity contours—Hachures indicate closed areas of low values. Contour interval 5 milligals (mGal)
 - Gravity station
 - G** Gravity anomaly discussed in text
- LIST OF MAP UNITS**
- Qal Alluvium and gravel, colluvium, loess, dune, pediment, and terrace deposits (Quaternary)
 - Ob Basalt flows (Quaternary)
 - Ot High-terrace gravel and pediment deposits (Quaternary)—includes Pleistocene Galena Formation
 - OTg Intermountain gravel of northern Tularosa Valley (Quaternary and Tertiary)—Locally includes Ogallala Formation
 - To Ogallala Formation (Tertiary)
 - Tis Alkalic intrusive stocks and laccoliths (Tertiary)
 - TV Volcanic flows, Sierra Blanca Igneous Complex, and dike swarms (Tertiary)
 - Td Intrusive dike (Tertiary)
 - Tkc Cub Mountain Formation (Tertiary and Upper Cretaceous)
 - Kmmd Mesaverde Formation, Mancos Shale, and Dakota(?) Sandstone, undivided (Upper Cretaceous)
 - KRu Cretaceous and Triassic rocks, undivided—Includes Pajarito Shale, Mesa Rica Sandstone, and Tucumcari Shale (Lower Cretaceous) and Redona Formation (Upper Triassic). East of long 104°15' N. and north of lat. 34° N.
 - Jm Morrison Formation (Upper Jurassic)
 - Je Exeter Sandstone (Middle Jurassic)
 - Jm Morrison Formation (Upper Jurassic) and Exeter Sandstone (Middle Jurassic), undivided—East of long 105° W. and north of lat. 34°45' N.
 - Tc Chinle Formation (Upper Triassic)—Includes Redona Formation
 - Ts Santa Rosa Sandstone (Upper Triassic)—Locally in Tucumcari Basin, as old as Middle Triassic
 - Tcs Chinle Formation and Santa Rosa Sandstone (Upper Triassic), undivided—On upthrown side of Bonita fault on the Canadian River. Locally in Tucumcari Basin, Santa Rosa is as old as Middle Triassic
 - Meu Mesozoic rocks, undivided—Includes undivided Cretaceous, Jurassic, and Triassic rocks on downthrown side of Bonita fault on the Canadian River
 - Pds Dewey Lake Redbeds and Rustler and Salado Formations (Upper Permian)—Southernmost Pecos River valley
 - Pa Artesia Group (Upper Permian)—Includes Tansill, Yates, Seven Rivers, Queen, and Grayburg Formations
 - Psg San Andres Formation and Glorieta Sandstone, undivided (Lower Permian)—San Andres includes Fourmile Draw, Bonney Canyon, and Rio Bonito Members
 - Pu Lower Permian rocks, undivided—Includes Yeso, Abo, Hueco, and Burnham(?) Formations
 - Pu Pennsylvanian rocks, undivided—West of long 106° W.
 - MCu Mississippian to Cambrian rocks, undivided—West of long 106° W.
 - pCu Precambrian rocks, undivided—West of long 106° W.
- CONTACT**
- Fault—Dashed where approximately located; dotted where concealed.
 - Bar and ball on downthrown side where relative movement known; opposed arrows show relative horizontal movement where known.
 - Sink—Collapse structure



Geology modified from New Mexico Geological Society (1982) by E.J. Laffock and S.L. Moore, 1991

COMPLETE BOUGUER GRAVITY ANOMALY MAP OF THE ROSWELL RESOURCE AREA AND VICINITY, NEW MEXICO

By
Dolores M. Kulik
1995

1995 MAGNETIC DECLINATION FROM TRUE NORTH VARIES FROM 107° EASTERLY FOR THE CENTER OF THE WEST EDGE TO 94° EASTERLY FOR THE CENTER OF THE EAST EDGE