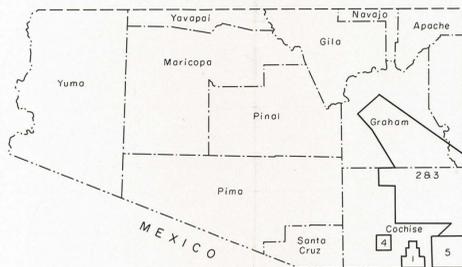


EXPLANATION

- GRAVITY STATION, INTERVAL RANGE VARIABLE
- ▨ AREAS WITH STATION INTERVAL LESS THAN ONE MILE
- 150 GRAVITY CONTOUR LINE
- K—K' LINE OF GRAVITY PROFILE
- DRILL HOLES; OBJECTIVES, AND IDENTIFICATION NUMBERS:
- 212 PETROLEUM
- 597 STRATIGRAPHIC OR MINERAL INFORMATION
- 15 WATER
- CENOZOIC SEDIMENTARY DEPOSITS
- PRE-CENOZOIC SEDIMENTARY, VOLCANIC AND INTRUSIVE ROCKS (Areally small outcrops in valleys not shown)
- ▨ SAN BERNARDINO VOLCANIC FIELD

INDEX MAP OF GRAVITY DATA SOURCES



SOURCES OF DATA

1. Andrews Geophysical Company and Copeland, J. L., 1950, Gravity survey of Sulphur Springs Valley area, Cochise County, Arizona: Dallas, Texas.
2. Eaton, G. P., and Timmons, C. E., 1966, Principal facts for gravity stations in Safford and San Simon Valleys, Arizona: U. S. Geological Survey open-file report.
3. Peterson, D. L., 1966, Principal facts for gravity stations in Sulphur Springs Valley, Arizona: U. S. Geological Survey open-file report.
4. Spangler, D. P., 1969, A geophysical study of the hydrogeology of the Walnut Gulch Experimental Watershed, Tombstone, Arizona: Ph.D. dissertation, University of Arizona: Ann Arbor, University Microfilms Order #69-18, 411, 103 p.
5. Lynch, D. J., 1972, Reconnaissance geology of the San Bernardino volcanic field, Cochise County, Arizona: unpublished M.S. thesis, University of Arizona, 78 p.

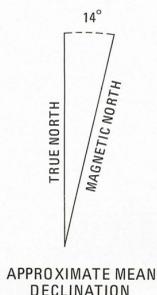
BOUGUER GRAVITY ANOMALY MAP OF SOUTHEASTERN ARIZONA 1973

PREPARED BY ROBERT E. WEST, JOHN S. SUMNER AND CARLOS L. V. AIKEN

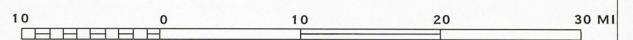
IN COOPERATION WITH J. N. CONLEY

Gravity data were obtained from surveys by the Laboratory of Geophysics of The University of Arizona, U. S. Geological Survey, U. S. Defense Mapping Agency and exploration companies and contractors. The index map shows the primary sources of data for particular areas. A density of 2.67 gm/cm³ was used for the Bouguer corrections. Terrain corrections are not included in the Bouguer anomaly values except where calculated by the original source of the data.

Financial assistance for production of this map was provided by the State of Arizona Oil and Gas Conservation Commission, the Four Corners Regional Commission, the National Science Foundation, AMAX Exploration Company, Exxon Corporation, The University of Arizona, the Arizona Water Resources Research Center, and the U. S. Defense Mapping Agency.



SCALE 1:500,000



CONTOUR INTERVAL 5 MILLIGALS