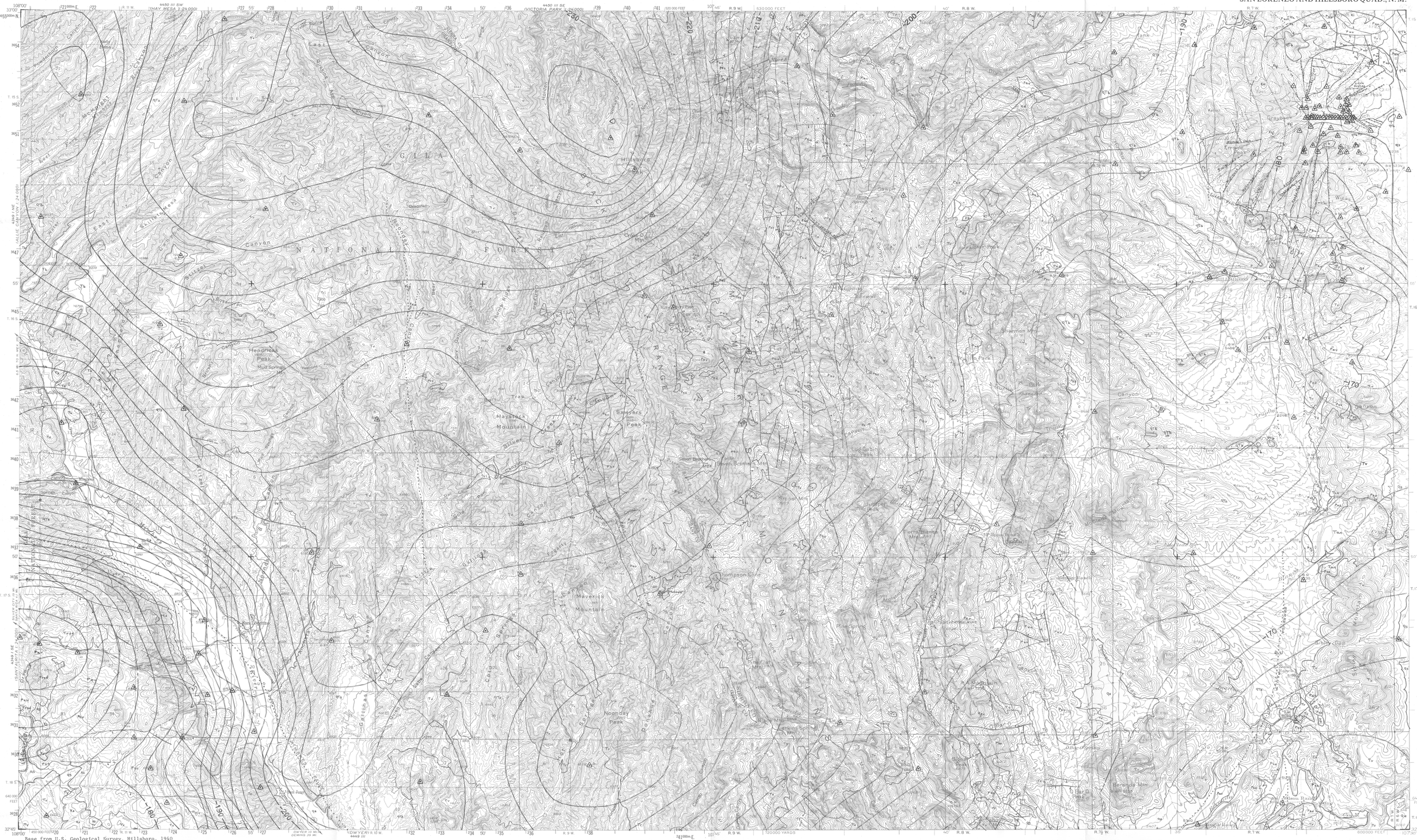
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

MISCELLANEOUS FIELD STUDIES
MAP MF-900 M
SAN LORENZO AND HILLSBORO QUAD., N. M.



Base from U.S. Geological Survey, Hillsboro, 1940 and San Lorenzo, 1956, 1:62,500

SCALE 1:48 000

1 ½ 0 1 2 3 MILES

1 .5 0 1 2 3 KILOMETERS

LIST OF MAP UNITS

	Qu	UNCONSOLIDATED SEDIMENTARY DEPOSITS (QUATERNARY)
	QTo	GILA AND SANTA FE FORMATIONS (QUATERNARY AND TERTIARY)
	QTb	BASALTIC LAVA AND GILA AND SANTA FE FORMATIONS (QUATERNARY AND TERTIARY)
	Tv	LAVAS AND ASH-FLOW TUFFS (OLIGOCENE)
Tr	Tri Trn	RHYOLITE FLOWS AND DOMES (OLIGOCENE)
	Tri Trs	RHYOLITE PLUGS, STOCKS AND SILLS (OLIGOCENE)
	Tas	ANDESITE SILLS AND DIKES (OLIGOCENE)
	Tql	QUARTZ LATITE DIKE OR SILL (OLIGOCENE?)
	Ta	ANDESITE SILLS (OLIGOCENE?)
	Trsd	RHYOLITE SILLS AND DOMES (OLIGOCENE?)
	Ka	ANDESITE DIKES AND SILLS (UPPER CRETACEOUS)
	Kl	QUART MONZONITE, GRANITE, MONZODIORITE AND DIORITE (UPPER CRETACEOUS)
	Kql	QUARTZ LATITE DIKES OF COPPER FLAT (UPPER CRETACEOUS)
	Kv	ANDESITIC FLOWS OF COPPER FLAT (UPPER CRETACEOUS)
	Ks	BEARTOOTH QUARTZITE (UPPER? CRETACEOUS)
	Pzu	UNDIVIDED SEDIMENTARY ROCKS (PALEOZOIC)
	p€u	UNDIVIDED GRANITIC AND HORNBLENDIC ROCKS (PRECAMBRIAN)

CONTACT--Dotted where concealed

FAULT--Dashed where approximately located; dotted where concealed. Where known, ball and bar on the downthrown side. U, upthrown side; D, downthrown side

ANTICLINAL AXIS--Showing crestline. Dashed where approximately located

NEW MEXICO

QUADRANGLE LOCATION

EXPLANATION

GRAVITY CONTOUR--Interval of 2 milligals

GRAVITY STATION

COMPLETE BOUGUER GRAVITY MAP OF THE SAN LORENZO AND HILLSBORO QUADRANGLES, GRANT AND SIERRA COUNTIES, NEW MEXICO

By

Jeffrey C. Wynn and Danny A. Dansereau

1978

Geology mapped by D. C. Hedlund in 1972-74.
Gravity surveys compiled in 1976-77
Complete Bouguer gravity data, 2000 meter equal grid

NOTE

Gravity meter readings were converted to observed gravity values using the International Gravity Standardization Net 1971 base values. The Geodetic Reference System 1967 formula was used to calculate the theoretical gravity. Bouguer anomaly values were then computed using an assumed average rock density of 2.67 gm/cm³, and terrain corrections were made by hand template through Hammer Zone H. The principal facts for the gravity stations are found in Dansereau, D. A., and Wynn, J. C., 1978, principal facts for gravity stations in the Hillsboro and San Lorenzo Quadrangles, Grant and Sierra Counties, New Mexico: U.S. Geological Survey Open-File Report 78-541.

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1978

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