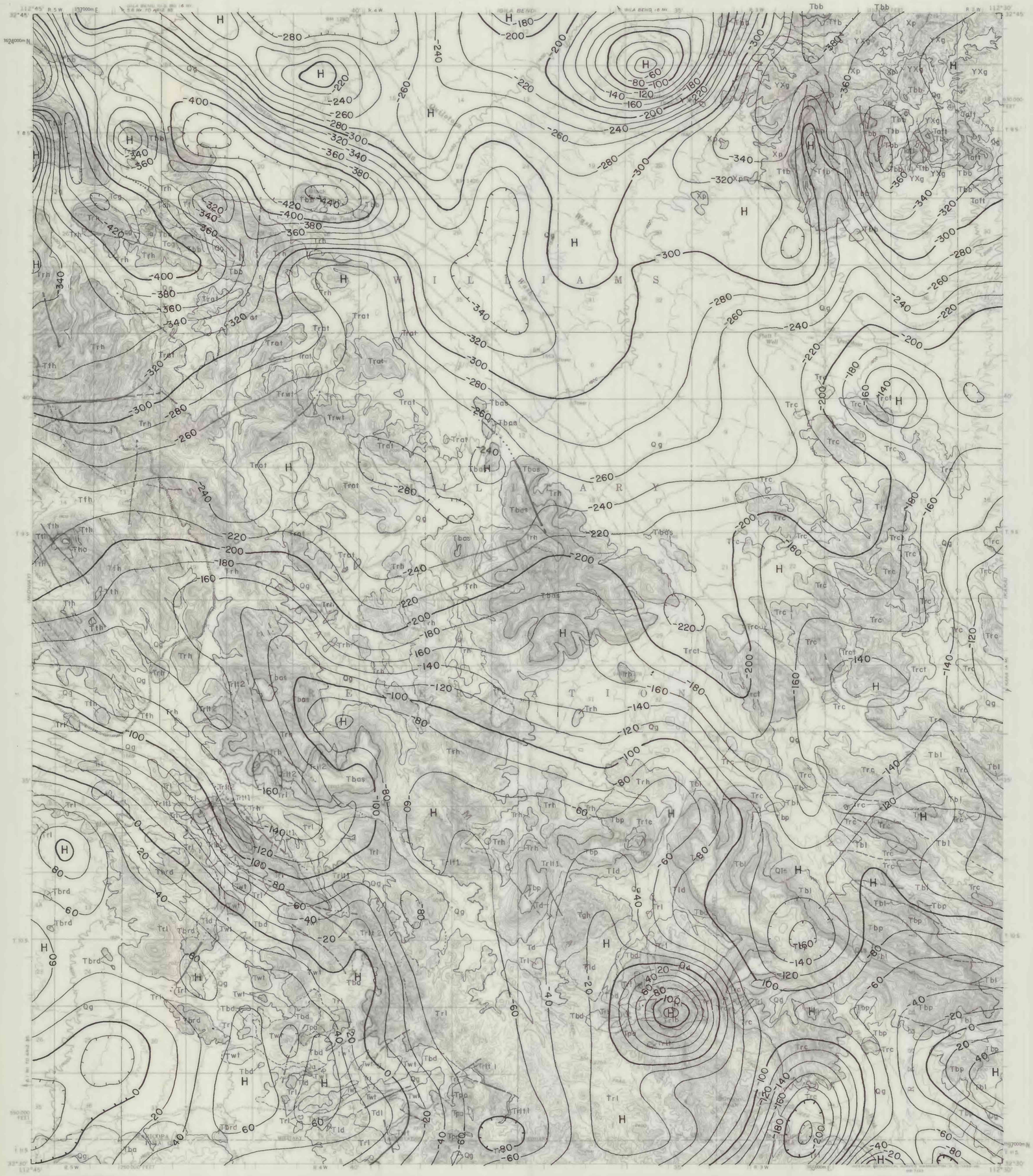
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

OPEN FILE REPORT
85-138



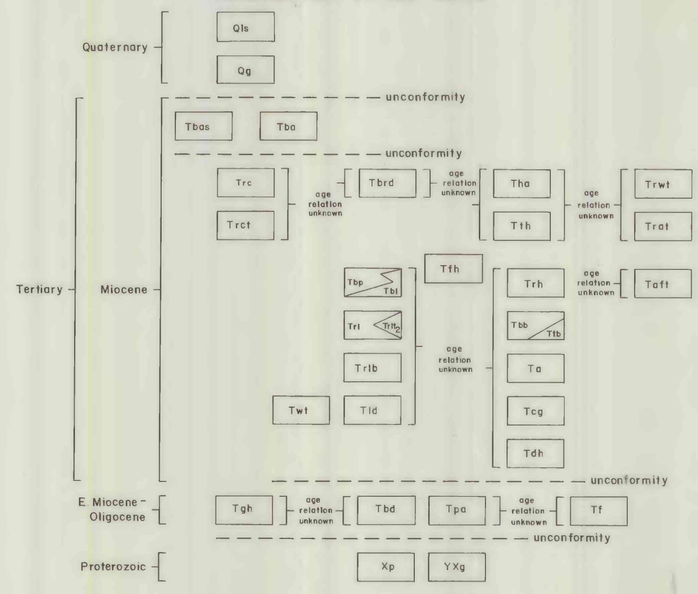
RECONNAISSANCE GEOLOGIC MAP AND AEROMAGNETIC MAP OF THE HAT MOUNTAIN QUADRANGLE, MARICOPA COUNTY, ARIZONA

by

Floyd Gray, Robert J. Miller, and Lottie Soll

1985

CORRELATION OF MAP UNITS



see SHEET 1 for Description of Map Units

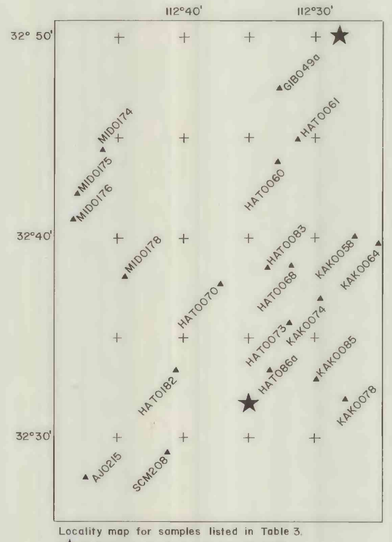
Table 3.--Tabulation of magnetic rock properties
[And, andesite; B, Basalt; Dac, dacite; Rhy, rhyolite; Rhd, rhyodacite]

Sample	Latitude (N)	Longitude (W)	Rock type	Magnetic susceptibility	Remnant magnetism	Magnetic Q-fac	Apparent susceptibility
HAT086a	32.557	112.556	And	80.7	167.0	.802	111 (5)*
MID0175	32.703	112.802	And	48.5	3.6		
HAT0083	32.642	112.559	And	12.8	6.6		
MID0178	32.634	112.740	And	161.6	19.2		
MID0176	32.682	112.807	And	49.0	17.5		
AJ00215	32.466	112.790	B	72.6	84.6	1.72	382 (7)
GIB049b	32.792	112.544	B	289.0	137.0		
HAT0060	32.730	112.547	B	41.2	156.0		
GIB049a	32.792	112.544	B	307.9	150.0		
HAT086b	32.557	112.556	B	74.1	39.2		
HAT0070	32.628	112.618	B	201.6	34.3		
MID0174	32.740	112.770	B	152.1	117.0		
KAK0078	32.532	112.460	Dac	8.0	8.6	2.69	29.7 (1)
HAT0061	32.749	112.659	G	1435.1	61.8	.108	.159E+04 (1)
SCM0208	32.488	112.686	Rhy	178.4	-1.0	.291	4.02 (2)
KAK0064	32.662	112.417	Rhy	1.3	0.1		
HAT0073	32.596	112.531	Rhy	7.0	1.7		
KAK0058	32.668	112.449	Ryd	22.1	10.0	1.33	57.3 (3)
HAT0068	32.644	112.592	Ryd	18.1	8.1		
KAK0085	32.549	112.497	Ryd	36.2	26.9		
KAK0074	32.616	112.491	Tuff	51.8	12.3	.721	77.9 (2)
HAT0182	32.556	112.676	Tuff	39.2	13.6		

EXPLANATION

——— MAGNETIC CONTOURS--Hachured to indicate closed lows. Relative highs indicated by "H". Contour interval 20 nT

FLIGHT ELEVATION--1,220 M (4,000 FT) barometric.
LINE SPACING --1,600 m (1.0 mi).
LINE DIRECTION --east-west.



Locality map for samples listed in Table 3.
★ indicates superimposed sample labels

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.