DEPARTMENT OF THE INTERIOR
U. S. GEOLOGICAL SURVEY

OPEN-FILE REPORT
84-278
Sheet 3 of 7

AEROMAGNETIC MAP OF THE BUTTE 1° BY 2° QUADRANGLE, MONTANA

BY

U.S. GEOLOGICAL SURVEY

1984

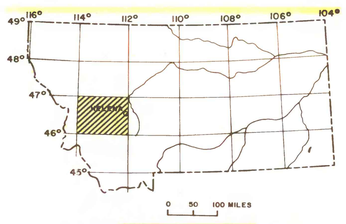
EXPLANATION

FLIGHT ALTITUDE	9000 FEET BAROMETRIC
FLIGHT INTERVAL	TRAVERSE 1.0 MILE TIE LINE VARIABLE
TRAVERSE DIRECTION	EAST – WEST
CONTOUR INTERVAL	10 GAMMA
PROJECTION	U.T.M. CLARKE 1866, ZONE 12
BASE MAP USED	U.S.G.S. 1:24,000
SURVEY FLOWN AND COMPILED	AUGUST 1983 BY AIRMAG SURVEYS INC. PHILADELPHIA, PENNSYLVANIA
MAGNETOMETER SAMPLING RATE	0.5 & 1.0 SECONDS
MAGNETOMETER USED	AIRMAG MARK IV FLUXGATE
AIRMAG PROJECT NO.	871

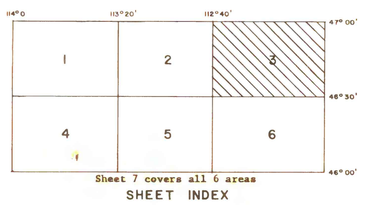
REGIONAL IGRF (1980→1983.65) CALCULATED EVERY 7 1/2 MINUTES AND APPLIED TO THE RECORDED FIELD.

TRAVERSE LINE 170 FIDUCIAL 54200 HAS TOTAL MAGNETIC INTENSITY VALUE OF 57,040 GAMMA. SAMPLE TAKEN JULY 21–83, 0732 HOURS LOCAL TIME.

CONTOURING GRID NET OF 150 METERS N/S, E/W.



Index map of Montana showing location of this study area



Sheet 7 covers all 6 areas

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SCALE 1:62,500

1 1/2 0 1 2 3 4 5 MILES

1 0 1 2 3 4 5 KILOMETERS