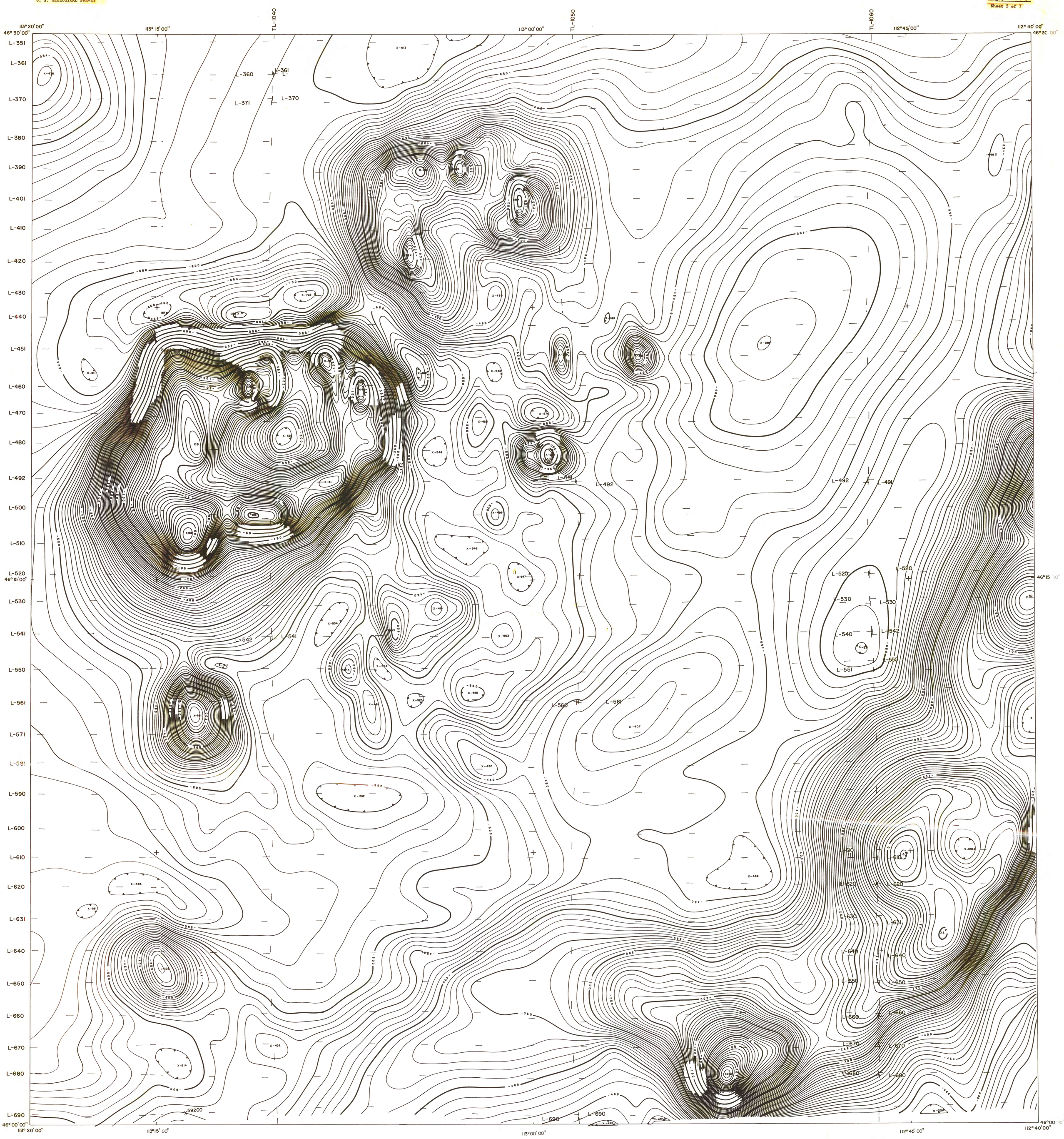
DEPARTMENT OF THE INTERIOR
U. S. GEOLOGICAL SURVEY

OPEN-FILE REPORT
84-278
Sheet 5 of 7



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

BY

U.S. GEOLOGICAL SURVEY

1984

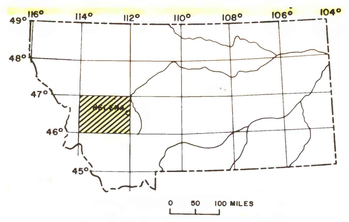
EXPLANATION

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

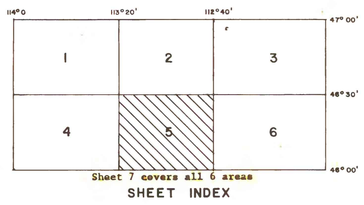
REGIONAL IGRF (1980 → 1983.65) CALCULATED EVERY 7 1/2 MINUTES AND APPLIED TO THE RECORDED FIELD.

TRAVERSE LINE 690 FIDUCIAL 59200 HAS TOTAL MAGNETIC INTENSITY VALUE OF 56603 GAMMA. SAMPLE TAKEN AUGUST 28-83, 0813 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

SHEET INDEX

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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