PLATE 2 OF 2

TO ACCOMPANY U.S. GEOLOGICAL SURVEY

OPEN FILE REPORT 78-558C

TALKEETNA MTS. QUADRANGLE

ALASKA

1:250,000 AEROMAGNETIC SERIES

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS

AEROMAGNETIC MAP OF THE TALKEETNA MOUNTAINS QUADRANGLE, ALASKA

BY

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS
NORMAN J. VEACH, GEOPHYSICIST

1973

SCALE 1:250,000

5 0 5 10 15 20 25 MILES

EXPLANATION

10 GAMMA CONTOUR

20 GAMMA CONTOUR

100 GAMMA CONTOUR

500 GAMMA CONTOUR

MAGNETIC LOW

FLIGHT LINE AND DIRECTION WITH BEGINNING AND ENDING PHOTO NUMBERS

MAGNETIC MAXIMUM/MINIMUM

FLIGHT LINE SPACING 3/4 MILE

FLIGHT ALTITUDE NOMINALLY 1000 FEET ABOVE GROUND

REGIONAL MAGNETIC FIELD **SHEET CENTER 56,226 GAMMAS**

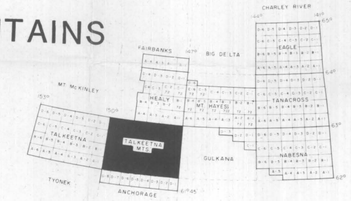
REGIONAL FIELD REMOVED. THE FIELD INCREASES

APPROXIMATELY 5.4 GAMMAS/MILE, N 47° E

APPROXIMATE FIELD INCLINATION +75.5°

Line separating aeromagnetically dissimilar northwestern and southeastern portions of the quadrangle.

5 Magnetic anomaly or anomaly pattern area discussed in text.



TALKEETNA MTS., ALASKA
AEROMAGNETIC SERIES

The magnetic contours shown on this map represent the total anomalous magnetic field of the earth. Variations in this field are caused by the variable magnetic character of rock units crossed by the survey flights, and hence, can be used to estimate the apparent location of rocks rich in magnetic minerals. Such rock units may be either at the surface of the ground or buried beneath it. Anomalies show both positive and negative variations depending on the shape, attitude, and constituents of local rocks. Geophysical interpretation will be helpful in determining boundaries or depth of burial of anomaly-causing rock units. Some anomalies may be impossible to interpret without further geologic information. Basic profile data is retained at the Division of Geological and Geophysical Surveys and should be consulted for detailed analysis.

Contract specifications written in consultation with United States Geological Survey
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LOCKWOOD, KESSLER & BARTLETT, INC. Pasadena, California.