

Airborne Magnetometer Survey
Permits 963 to 974, Northwest Territories

This airborne magnetic survey was flown and compiled by Aeromagnetic Surveys Limited during the months of November, 1956 to January, 1957. The survey covered an area of approximately 1,200 square miles including Permits Nos. 963 to 974 in the Northwest Territories. This area is situated between latitudes 60° 00' and 60° 29' N and longitudes 119° 00' and 60° 29' N and longitudes 119° 16' and 120° 46' W.

The survey was made using a twin engined aircraft based at Fort St. John, British Columbia. The survey was monitored using a ground magnetometer of the flux gate type, which was operated at the flying base. A mean flight altitude was maintained above the terrain of 1,000 to 1,500 feet. The positioning of the record was accomplished using a 35 mm. camera synchronized with the magnetic record.

The records measure the earth's total magnetic field with a minimum noise level from extraneous sources. This does not exceed plus or minus 1.5 gamma. The resolution of the instrument is such that variations of field intensity of 2.5 gamma or less will be readable.

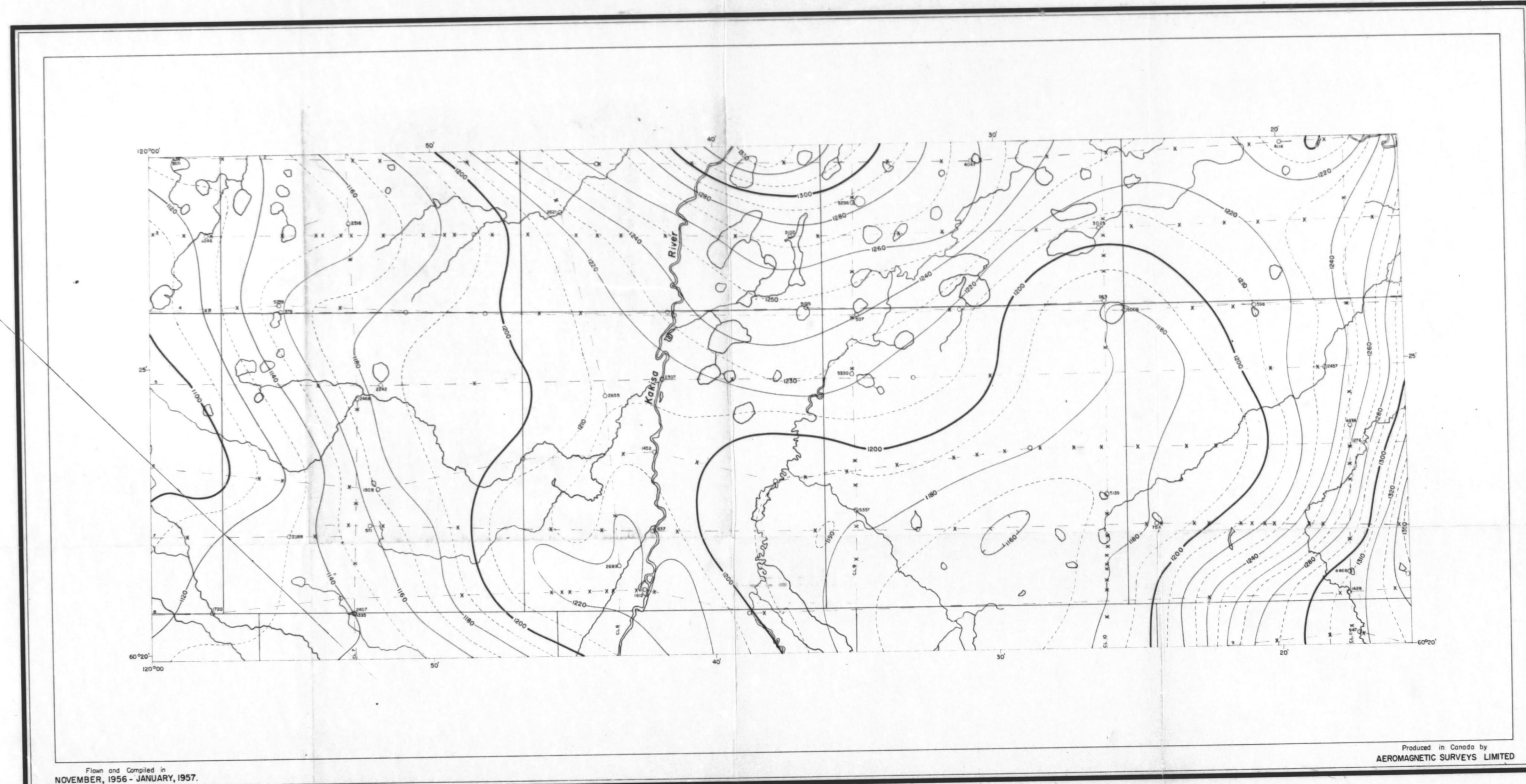
Two total magnetic maps are being submitted, which show the variation of the total magnetic force in gamma with a scale of 1 inch to 1 mile. The contour interval is 10 gamma with a mean flight line spacing of 1½ miles and a datum altitude above sea level of 3,500 feet. The fiducial points are circled and labelled with their numerical sequence, while the inflection points are checked along the light of flight. The flight lines are numbered consecutively

from the top to the bottom of the map from 2 to 24. The variable spacing between surveyed lines has been kept to a minimum and the east to west flight lines have been adjusted for diurnal variation by the use of north to south control lines spaced at approximately 6 mile intervals.

October 1, 1957.

T. C. Richards
Chief Geophysicist

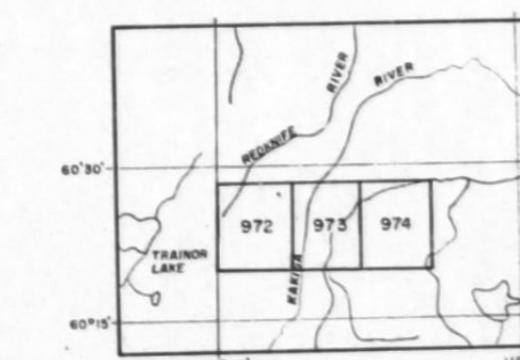
TRIAD OIL COMPANY LIMITED
AIRBORNE MAGNETOMETER SURVEY



CONTOUR INTERVAL..... 10 GAMMA
MEAN FLIGHT LINE SPACING..... 1/8 MILES
ALTITUDE ABOVE SEA LEVEL..... 3500 FT
500 GAMMA CONTOUR.....
100 GAMMA CONTOUR.....
20 GAMMA CONTOUR.....
10 GAMMA CONTOUR.....
MAGNETIC LOW.....
FIDUCIAL POINTS..... 1000
FLIGHT LINES..... 3 to 9
INFLECTION POINTS..... * - * - *

PERMITS N° 972-973-974
NORTHWEST TERRITORIES

SCALE
1 MILE
1 inch to 1 Mile



GP947/1

33B

