

Airborne Magnetometer Survey
Permits 963 to 974, Northwest Territories

This airborne magnetic survey was flown and compiled by Aero-magnetic 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 $60^{\circ} 00'$ and $60^{\circ} 29' N$ and longitudes $119^{\circ} 00'$ and $60^{\circ} 29' N$ and longitudes $119^{\circ} 16'$ and $120^{\circ} 46' W$.

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.

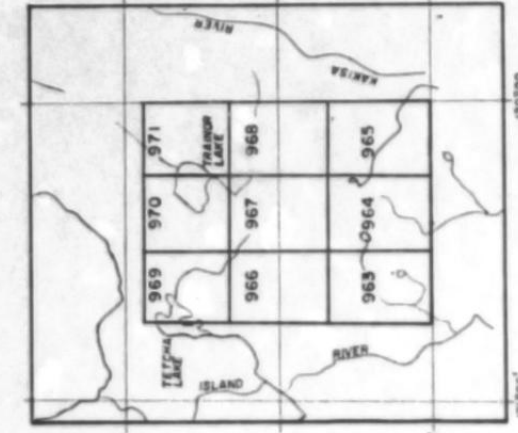
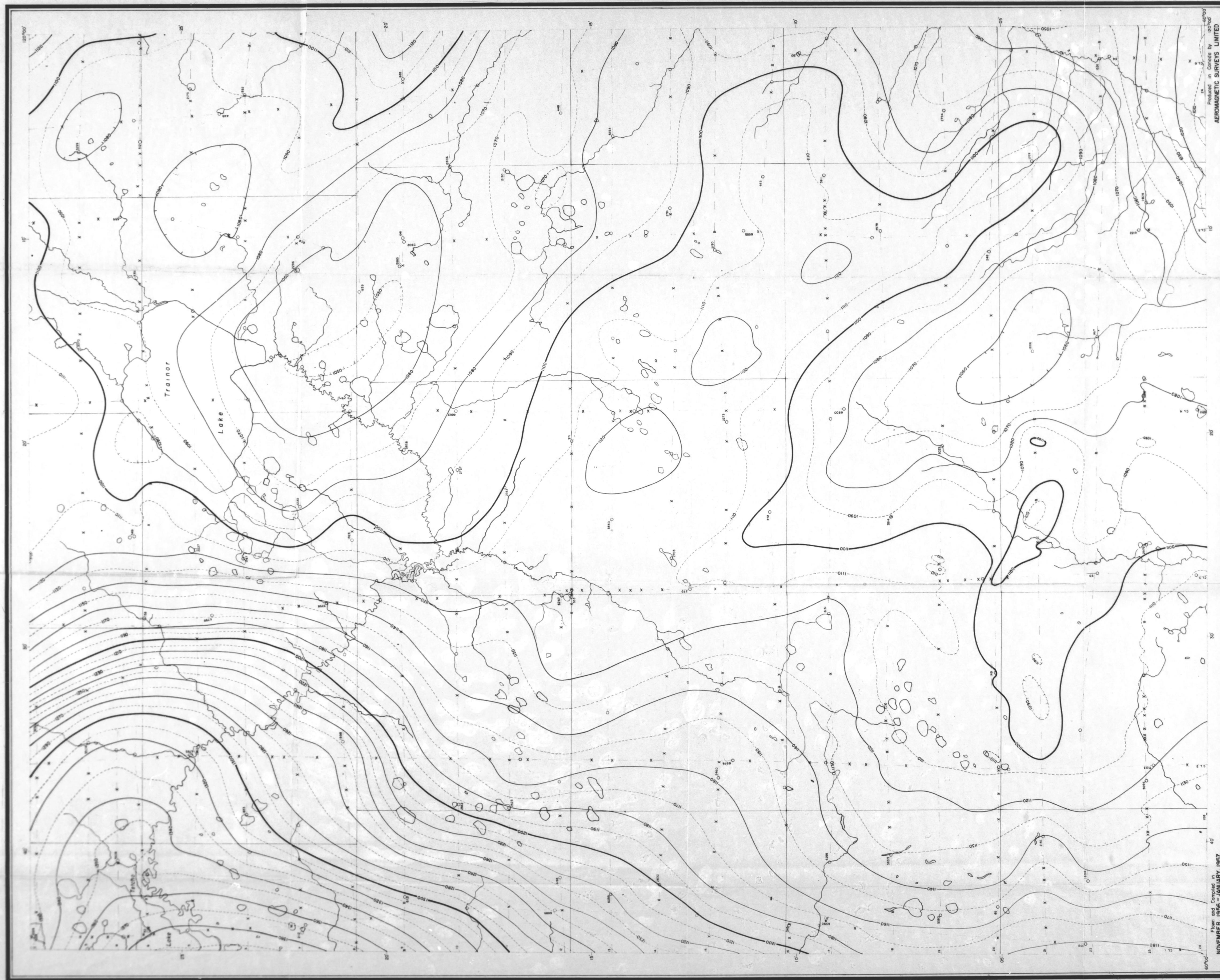
Two total magnetic maps are being submitted, which show the variation of the total magnetic force in gamma with a scale of 1 inch to 1 mile. The contour interval is 10 gamma with a mean flight line spacing of $1\frac{1}{2}$ miles and a datum altitude above sea level of 3,500 feet. The fiducial points 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.

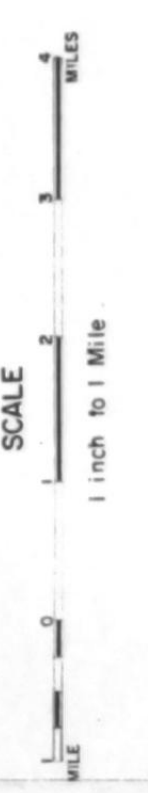
October 1, 1957.

T. C. Richards
Chief Geophysicist

TRIAD OIL COMPANY LIMITED
AIRBORNE MAGNETOMETER SURVEY



PERMITS No 963-964-965-966-967-968-969-970-971
NORTHWEST TERRITORIES



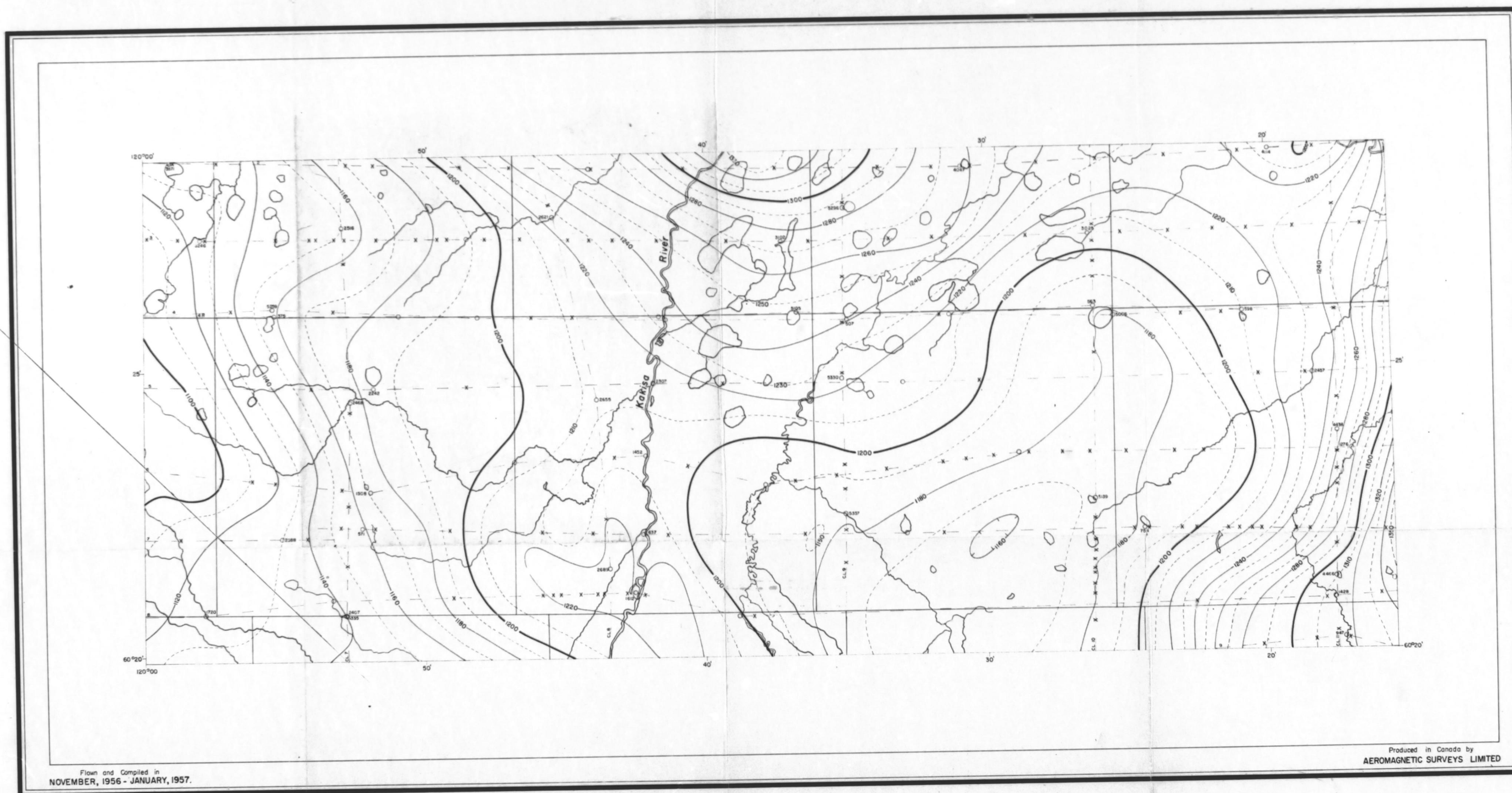
CONTOUR INTERVAL 10 GAMMA
MEAN FLIGHT LINE SPACING 1 MILE
ALTITUDE ABOVE SEA LEVEL 3500 FEET
500 GAMMA CONTOUR
100 GAMMA CONTOUR
10 GAMMA CONTOUR
MAGNETIC LOW
MAGNETIC HIGH
FLIGHT LINES
INJECTION POINT



30x

West Canadian Graphic Industries Ltd.

TRIAD OIL COMPANY LIMITED
AIRBORNE MAGNETOMETER SURVEY



CONTOUR INTERVAL.....10 GAMMA
MEAN FLIGHT LINE SPACING.....1 1/2 MILES
ALTITUDE ABOVE SEA LEVEL.....3500 FT
500 GAMMA CONTOUR.....
100 GAMMA CONTOUR.....
20 GAMMA CONTOUR.....
10 GAMMA CONTOUR.....
MAGNETIC LOW.....
FIDUCIAL POINTS.....
FLIGHT LINES.....
INFLECTION POINTS.....

PERMITS N° 972-973-974
NORTHWEST TERRITORIES

SCALE
1 inch = 1 Mile



GP947/1

33B



30x

West Canadian Graphic Industries Ltd.