REPORT ON MAGNETOMETER SURVEY & SOIL
SAMPLING OF MINERAL LEASES M62 & M63
IN THE SIMILKAMEEN MINING DIVISION
by DAVID M. WILSON, B.SC.
LAT. 49° 21'LONG. 120° 30'
Ownership - 49 128 9
GIANT EXPLORATIONS LIMITED (N.P.L.)
Work Done For -
GIANT EXPLORATIONS LIMITED (N.P.L.)
by DAVID M. WILSON, B.SC.
Supervised by E. R. GAYFER, P. ENG.

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MINE OFFICE: P. O. BOX 820, HOPE, B. C. TELEPHONE: ABBOTSFORD RADIO

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GIANT MASCOT MINES LIMITED

(NON-PERSONAL-EMBRITY) 1825-355 BURRARD STREET VANCOUVER 1, B.C.

June 4, 1968

49 120 SE

Giant Explorations Limited (N.P.L.), 1825 - 355 Burrard Street, Vancouver 1, B.C.

Dear Sirs:

The following report is an account of the Magnetometer Survey and Soil Sampling Program carried out on the Mineral Leases M62 and M63, and the Kathleen Fractional and Margaret Fractional Mineral Claims situate in the Similkameen Mining Division and held by Giant Explorations Limited (N.P.L.).

Respectfully submitted,

Deard in Kilter, David M. Wilson, B.Sc.,

David M. Wilson, B.Sc., Geologist

Endorsed by, E. R. Gayfer, P.Eng., Chief Engineer,

Giant Mascot Mines Limited

TELEPHONE: 683-8204

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MAPS

Numb	ber		Title												
3000-	-S-	0-1	•	•	•	•	•	•	•	•	•	•	•	•	Sample Grid $#/$
11	н	-2	•	-	•	-	•	-	•	•	•	•	•	•	Magnetometer survey #3 readings
n		-3	•	•	•	•	•	٠	•	٠	•	•	•	•	Magnetometer survey # 2 contour map
41	11	-4	•	•	•	-		•		•	-		•	•	Soil Sample numbering $^{\#}6$
14	n	-5	•	•	•	•	•	•	•	•	•	•	•	•	Soil Sample copper #5 assays.
п	н	-6	•	٠	•	٠	•	•	٠	•	•	•	•	•	Geology, Topography $\# 4$ and Access.

REPORT ON MAGNETOMETER SURVEY AND SOIL SAMPLING OF MINERAL LEASES M62 AND M63 IN THE SIMILKAMEEN MINING DIVISION

INTRODUCTION

Giant Explorations Limited (N.P.L.) holds two mineral leases, M62 and M63, and two fractional mineral claims, the Kathleen Fraction and the Margaret Fraction, in the Similkameen Mining Division 8 miles south of Princeton and 2 miles north of the old Copper Mountain camp.

With the exception of the M63 lease, rock exposure on the property is poor and it was decided to run a joint geophysical and geochemical program in order to more fully evaluate the ground.

As magnetite is known to be associated with copper in this area, a magnetometer survey was undertaken in conjunction with a soil sampling program.

SURVEY AND SAMPLE GRID

A survey and sample grid was set up as shown on Map No. 3000-S-O-1. The grid was made up of 21 chain and compass location lines totalling approximately 37,000 feet and, except over Mineral Lease M63, with an initial spacing between lines of 250 feet. This distance was later reduced to 125 feet in areas of high magnetometer readings.

Soil samples and magnetometer readings were taken at 100 foot intervals along each line and the pos-

ition of each station was marked by tying a piece of red flagging to a nearby tree.

The western end of the base line ran through an old Crown-grant survey post, marked "A" on Map No. 3000-S-0-1.

MAGNETOMETER SURVEY

(a) General Description

The ground magnetometer survey was conducted using a Sharpe, Model A2 Magnetometer. This instrument is of the Schmidt Variometer type and measures changes in the vertical component of the earth's magnetic field, rather than absolute values of the field. The readings taken can be converted to total vertical components if the normal absolute value of the earth's field at the locality in question is known. Alternatively, An arbitrary 'zero' level can be set against which to compare the measurements. In this case, the latter practice was followed. A daily check was made for diurnal variation and the necessary adjustments made. The variation was usually found to be quite small, of the order 20 - 30 gammas.

The survey was carried out by one geologist with an assistant (who collected soil samples) over the period, March 6th to March 23rd, 1968.

(b) Results of Magnetometer Survey

The magnetometer readings are shown plotted on the accompanying Map No. 3000-S-0-2 and from this, a magnetic contour Map No. 3000-S-0-3 was produced.

- 4 -

As can be seen on the latter map, the No. 2 Mineral Claim (L1773^S), forming part of M62, contains an anomalous area approximately 900 feet long and varying from 250 feet to 550 feet in width, which is 300 gammas or more, above background. Contained within this, are several anomalies which are of smaller area but higher magnitude, in one case, up to 3000 gammas above background.

Other anomalies of smaller magnitude and area occur on line No. 2 around stations 1000'N and 3200'N and also, on line No. 1 around 2700'N.

SOIL SAMPLING PROGRAM

(a) General Description

Individual samples were taken from 6 inches to 1 foot below the ground surface in a fine, organic-free clay, using a 3/4" x 4' auger. In certain sheltered localities the ground was frozen and some difficulty was encountered in penetrating the soil. At several stations it was, in fact, impossible to obtain a sample. Sufficient sample was collected to half-fill a Kraft $9\frac{1}{2}$ " x $3\frac{1}{2}$ " soil sample envelope, which was then numbered (see Map 3000-S-0-4).

The samples were dried slowly and then dispatched to Coast Eldridge Engineers and Chemists Limited. Here they were screened and the "minus 80" fraction used in an assay for copper by the "hot extraction" process.

The soil samples were taken by the exploration assistant, and occupied thirteen full days work between March 6th and March 22nd, 1968.

(b) Laboratory Analytical Procedure

(Courtesy of Coast Eldridge Engineers and Chemists Ltd.)

	Sample
-8	0 mesh V +80 mesh Rejected
Remainder	
returned	Scoop out 1 gm ± 0.5
to envel-	Transfer to test tube
ope	(a) Add 5 mls Perchloric acid.
	Keep at fuming temperature for l hr. (dissolves; destroys organic material)
	(b) Add 5 mls Aluminium Chloride. (23 gm/litre solution) plus 20% HCL.
1	(c) Add water to 25 ml.
· ·	(d) Mix.
	(e) Settle.
\downarrow	
_	d Ash Atom".

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(c) Results of the Soil Sampling Program

The values for the copper assays are shown on Map 3000-S-0-5.

The region of high copper values on No. 2 Mineral Claim corresponds quite well with the magnetic field anomaly, although some of the highest soil concentrations of copper are found just to the east of the magnetic high.

Other small areas of high soil copper values cannot be related to magnetic anomalies.

GEOLOGY

Soil cover was quite extensive, particularly on Mineral Lease M62, and rock outcrops were infrequent. The geology of the area is shown on Map No. 3000-S-O-6 and is necessarily of a generalized nature. Contacts have been conjectured from the positions as shown on Map 888A (GSC Memoir 243 by H.M.A. Rice).

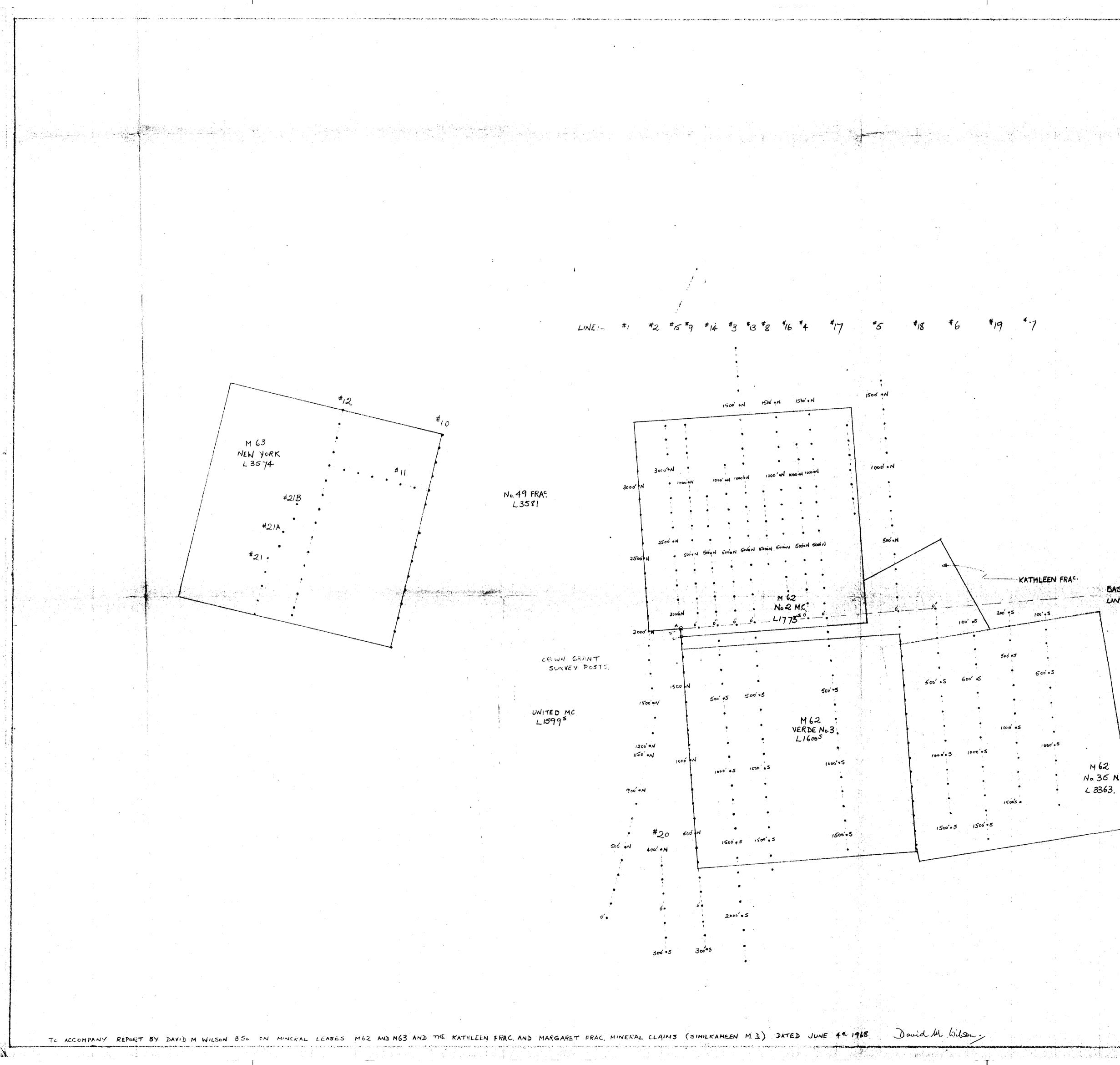
Sufficient time was not available in which to make a detailed examination.

David W. Wilson

DAVID M. WILSON, B.Sc., Geologist

June 4, 1968

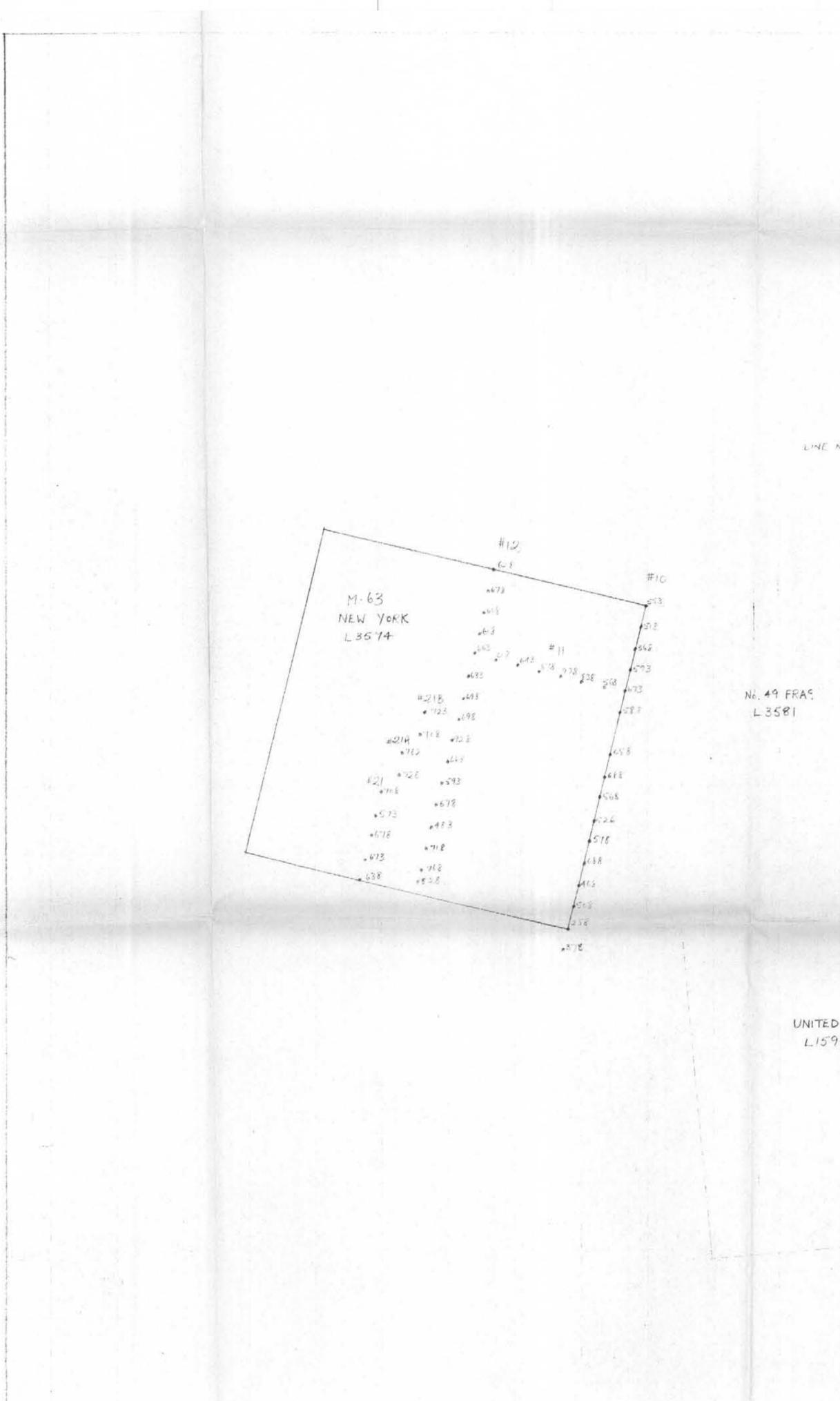
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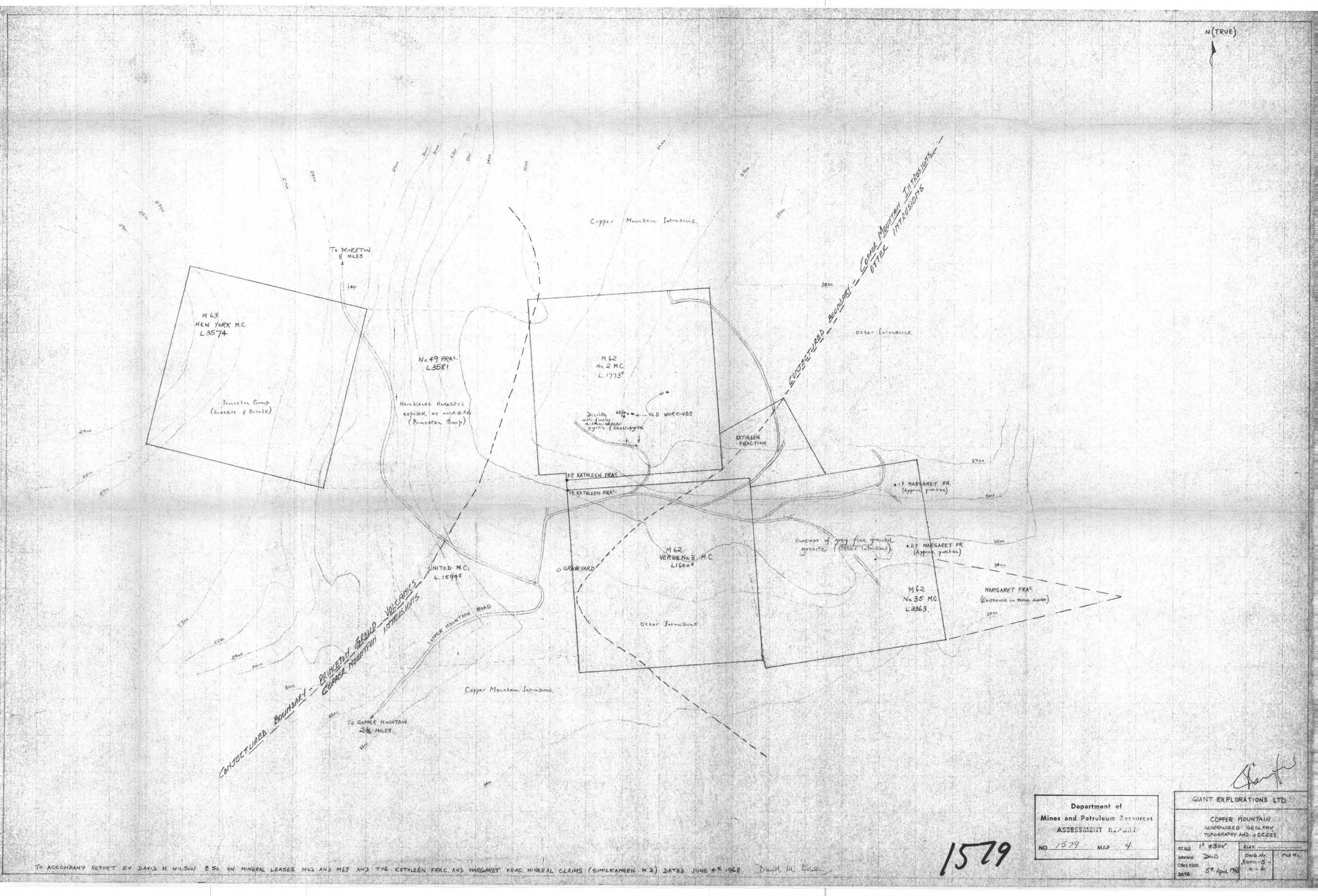


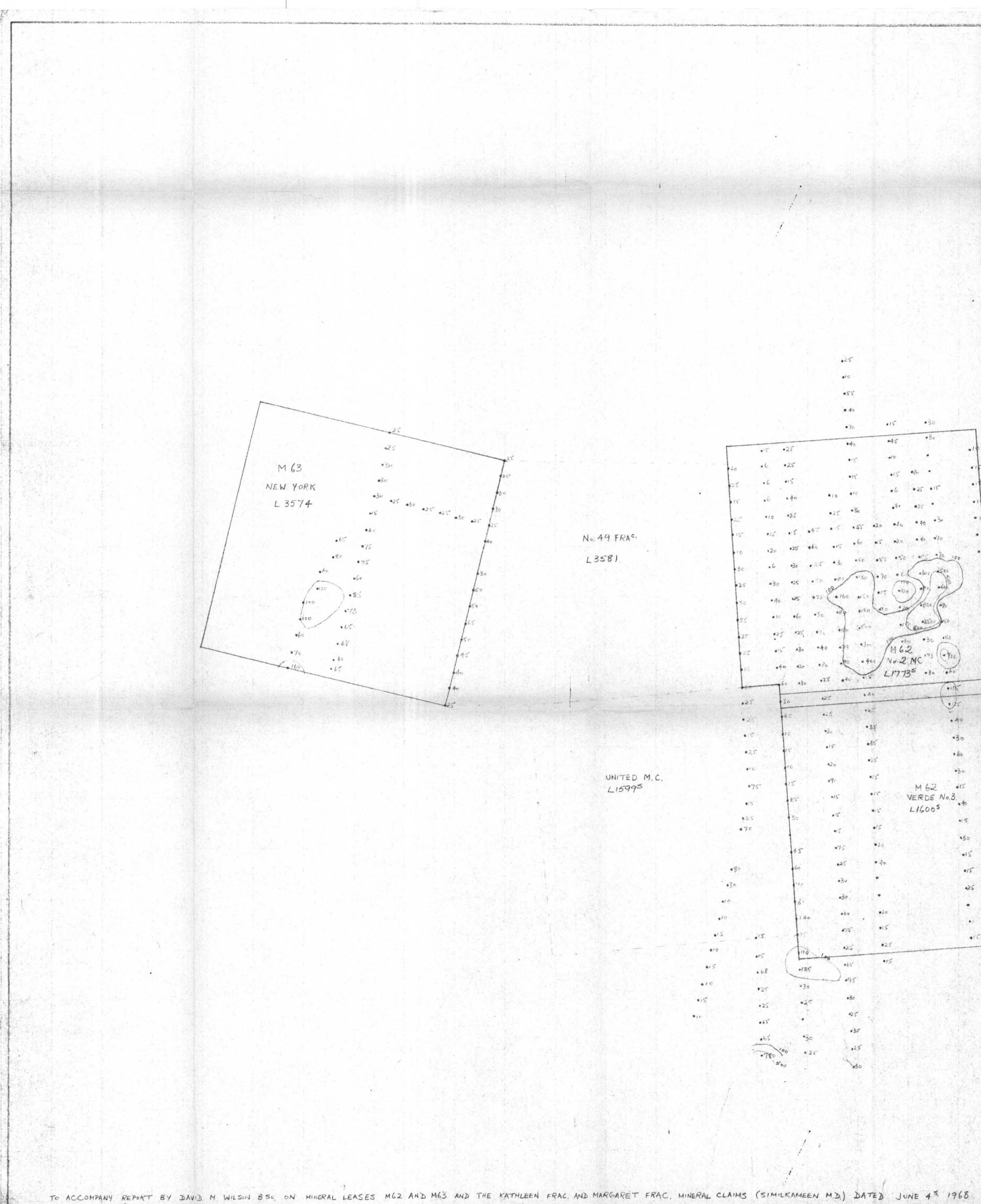


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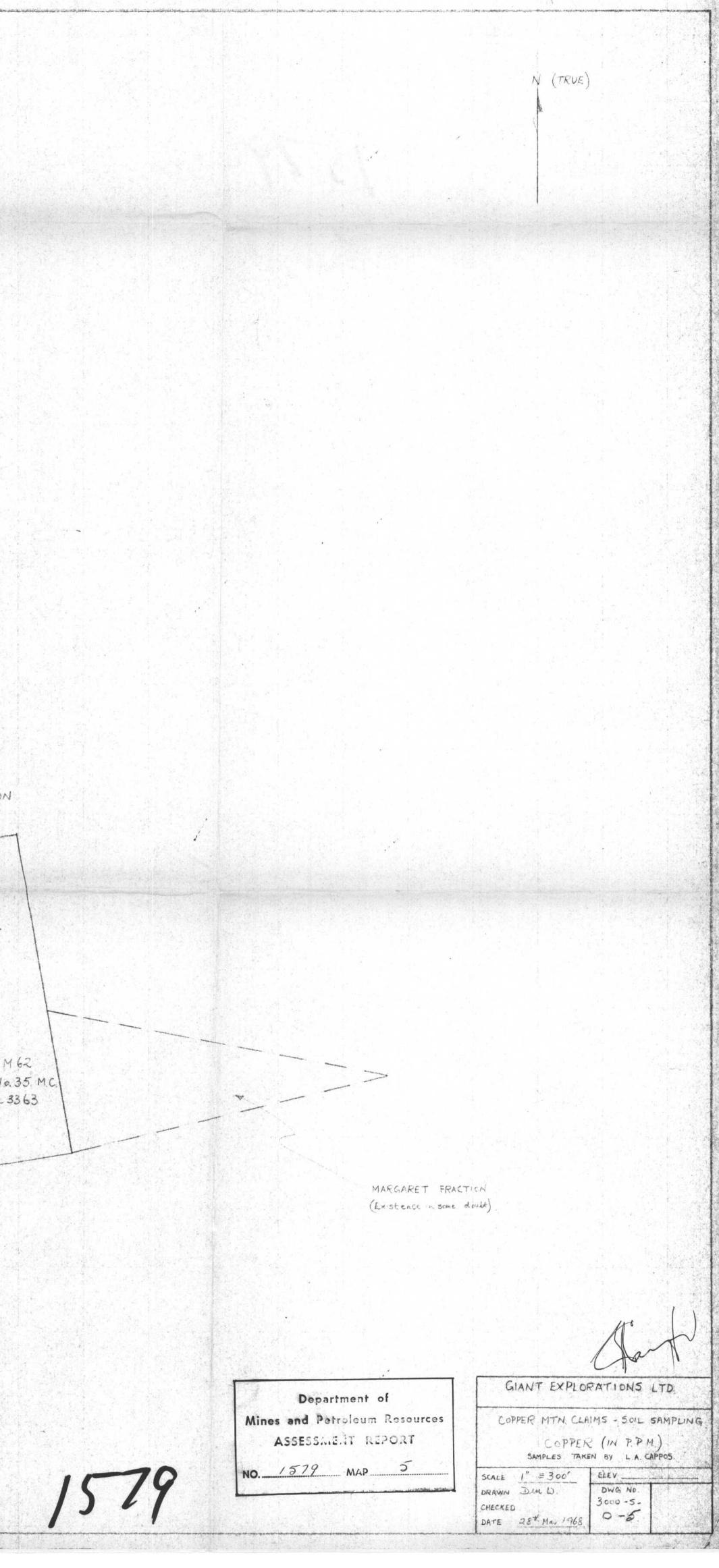
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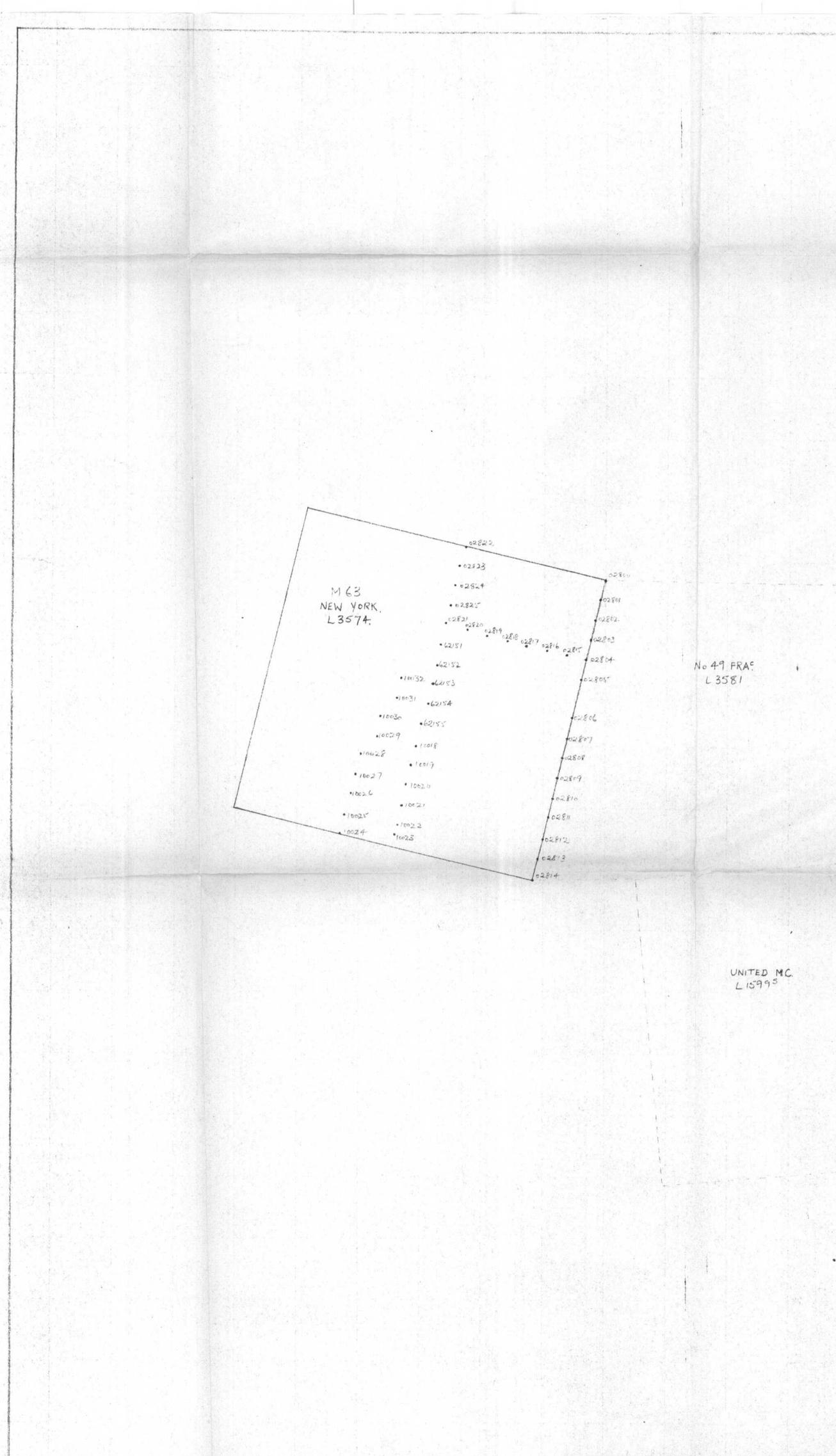




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