

# 4536

GEOCHEMICAL & GEOPHYSICAL

REPORT

ON

THE NI-83 & NI-85 GROUPS

HARRISON LAKE AREA, B.C.

Lat. 49° 30' Long. 121° 40'

by

IRA S. ROTE (Geologist)

endorsed by

W. E. CLARKE, B.Sc., P. Eng.

July 24, 1973

for

GIANT EXPLORATIONS LIMITED (N.P.L.)

Suite 2410, Pacific Centre,

700 West Georgia Street,

Vancouver 1, B.C.

Dates: July 12th, 1973 - July 18th, 1973 incl.

Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. <u>4536</u> MAP
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MAPS ACCOMPANYING REPORT

With Text:

Map Number:

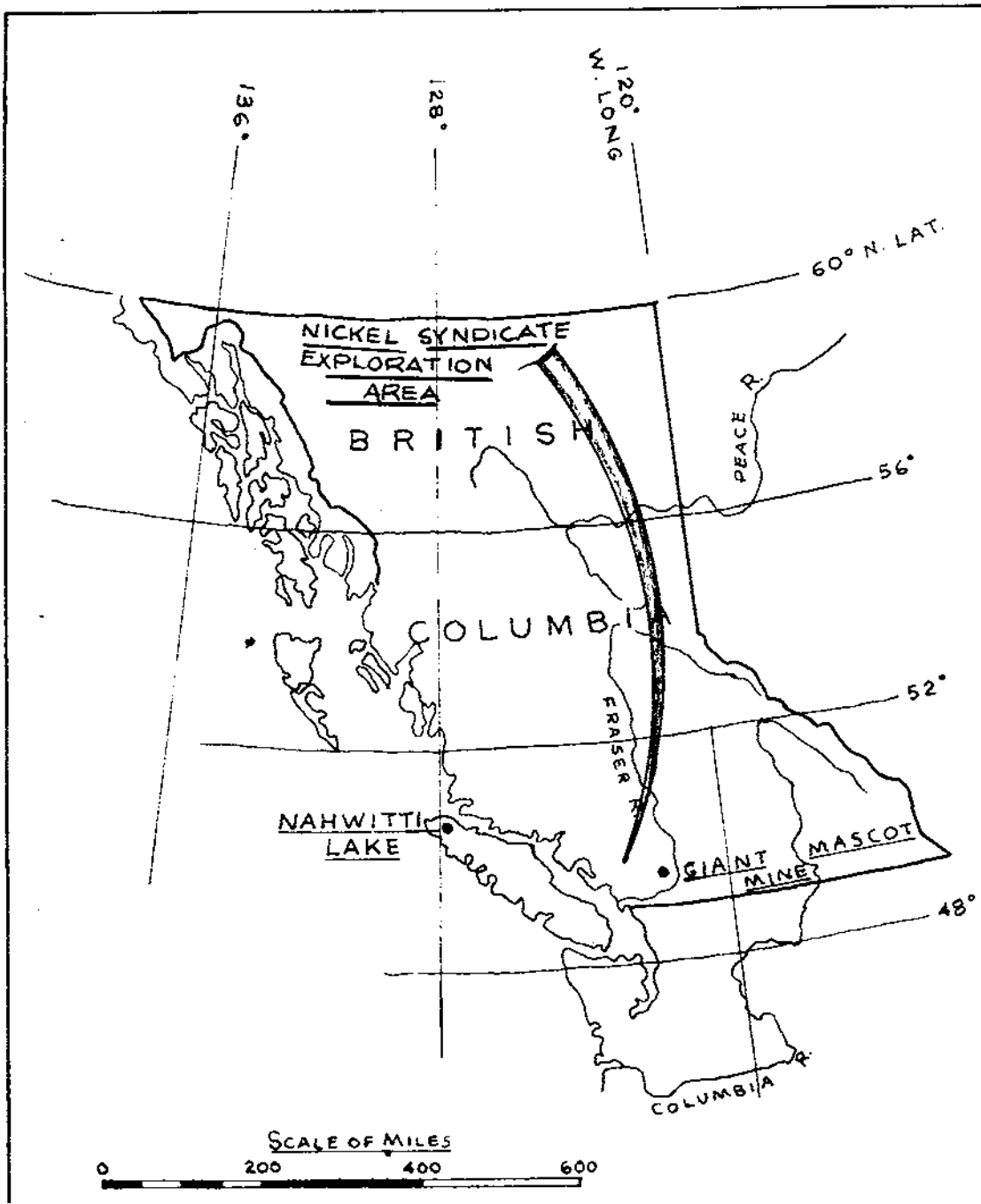
Nickel Syndicate

#1 Index Map	2800-S-6-1
#2 Claims Map and Grid Location	2800-S-6-2

In Pocket:

Nickel Syndicate - Ni 83-85 Grid

#3 Magnetometer Survey	2800-S-6-3
#4 PPM Ni	2800-S-6-4
#5 PPM Cu	2800-S-6-5



To Accompany  
 Geochemical & geophysical  
 report by I. S. ROTE  
 B.Sc., on the Ni-83-85  
 Groups on Talc Creek  
 east of Harrison Lake  
 in the New Westminster  
 Mining Division, dated  
 July 23<sup>rd</sup>, 1973.

*Martin E. ...*

GIANT EXPLORATIONS LTD.	
NICKEL SYNDICATE INDEX MAP	
SCALE 1" = 200mi	DWG. NO.
DRAWN I. S. R.	2800-S-6-1
CHECKED	
DATE June, 1973	

*I. S. Rote* 4536-M1

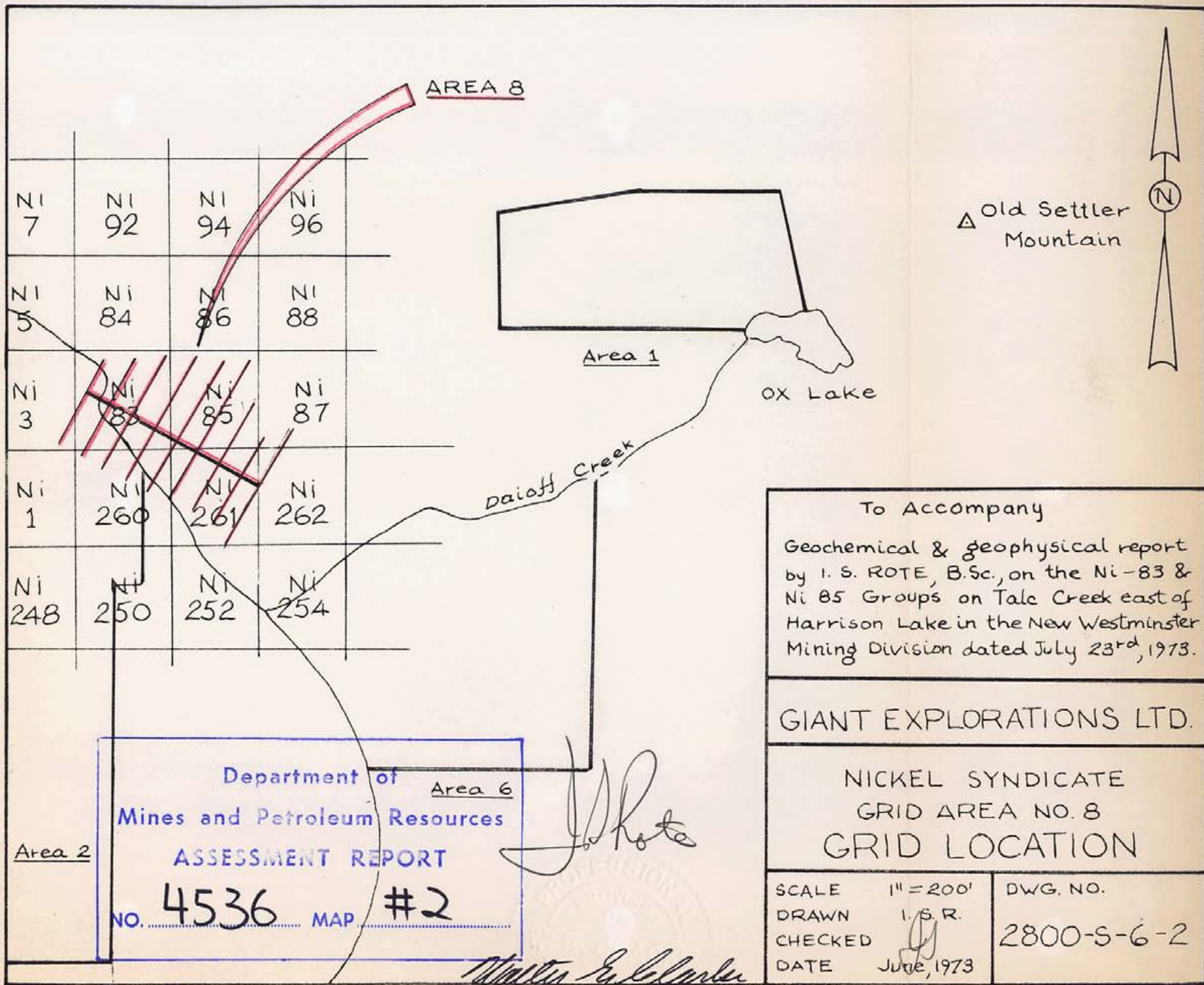
## INTRODUCTION

Giant Explorations Limited (N.P.L.) and Mascot Copper Mines (N.P.L.) are carrying out an exploration program in an area centered on Old Settler Mountain.

The property consists of 530 mineral claims; it is bounded on the west by Harrison Lake, on the south by Bear Creek, on the north by Cogburn Creek, and on the east by the Giant Nickel Mine.

Exploration work carried out in 1970 and 1971 resulted in a number of target areas being chosen for detailed exploration.

During the 1973 season a survey grid was established on Target Area 8, and a geochemical and geophysical survey was carried out on the ground over the period July 12th, - July 18th, 1973.



To Accompany  
 Geochemical & geophysical report  
 by I. S. ROTE, B.Sc., on the Ni-83 &  
 Ni 85 Groups on Talc Creek east of  
 Harrison Lake in the New Westminster  
 Mining Division dated July 23<sup>rd</sup>, 1973.

GIANT EXPLORATIONS LTD.

NICKEL SYNDICATE  
 GRID AREA NO. 8  
 GRID LOCATION

SCALE 1" = 200'  
 DRAWN I. S. R.  
 CHECKED [Signature]  
 DATE June, 1973

DWG. NO.  
 2800-S-6-2

[Signature: I. S. Rote]

[Signature: Walter E. Clarke]

PROPERTY - LOCATION & ACCESS

The claims on which the survey was conducted are located near the junction of Daioff and Talc Creeks, approximate 6 miles from the small logging community of Bear Creek. A gravel logging road parallels Talc Creek and provides easy access to the property. Ancillary roads allow one to drive to most parts of the grid area.

The claims covered by the No. 8 grid are:

<u>Claim</u>	<u>Record No.</u>
Ni 3	21773
Ni 83	21847
Ni 85	21849
Ni 260	22045
Ni 261	22046

GENERAL GEOLOGY

The talc Creek - Daioff Creek junction is overburden covered with an estimated average depth of 30 feet of glacial drift. Only two outcrops were seen in the grid area, and each consisted of diorite.

The surrounding country rock is comprised of an altered basic intrusive to the southwest of Talc Creek, an altered mineralized pyroxenite to the southeast, and an intrusive diorite body immediately northeast of Target Area 8. Metamorphosed sediments occur to the northeast of the junction.

An airphoto study has indicated that the Daioff - Talc Creek junction area is cut by a number of intersecting faults with the implication being that economic nickel-copper mineralization might be associated with the above fault structures, providing that a favourable rock-type underlies the area.

SURVEY GRID (4.5 line miles)

A baseline bearing  $116^{\circ}$  was flagged and picketed over a chained distance of 3,200 feet, with stations every 100 feet. Crosslines were put in every 400 feet with a chain and compass, and stations were established at 100 foot intervals. The lines were blazed and flagged and undergrowth cut where necessary.

The survey grid has a five digit number to designate each station. The first digit represents the target area number, the second two digits represent the line number, and the last two digits indicate the station number. For example, 8-28-3 defines station number 3 on line 28 in grid area number 8.

GEOCHEMICAL SURVEY (4.3 line miles)

Geochemical samples were taken at each 100 foot station on the crosslines. The B soil horizon was sampled wherever possible. A mattock was used to dig the sample pit, and the sample was placed in a Kraft wet-strength envelope.



Fraser Laboratories Ltd., 1175 West 15th, Street, North Vancouver, assayed the samples for total nickel and copper using the following procedure: One-half gram of the -80 mesh fraction was digested with nitric and perchloric acid. Following heating and bulking the samples to standard volume, values for nickel and copper were obtained on an atomic absorption spectrometer.

MAGNETOMETER SURVEY (4.5 line miles)

The magnetometer survey was carried out using a Scintrex Model M-F2 flux-gate magnetometer with readings taken every fifty feet on the crosslines. An arbitrary "zero" (5,000 $\gamma$ ) was set at a base station against which measurements taken on the crosslines were compared. A daily check was made for diurnal variation, and the necessary adjustments made. The variation was generally nil to 50 gammas. As an additional control, crossline readings were tied into the base station so as to form a loop traverse. Moreover, the instrument was reset to 5,000 $\gamma$  at the base station at least twice a day.

DESCRIPTION & INTERPRETATION OF RESULTS

Geochemical Survey

High values in PPM nickel (Anomaly A) occur in the southwest corner of the grid. The nickel values may reflect silicate nickel embodied in the underlying peridotite rocks. No economic nickel-copper mineralization was observed at this location. Other threshold-plus values occurred throughout the grid, but these are not thought to be significant. Anomaly A is open to the south.

Copper values in the order of 60-70 PPM comprise anomalies B and C in the northwest corner of the grid. Anomaly B is probably a drainage feature, whereas Anomaly C may represent transported material incorporated in the glacial drift.

Magnetometer Survey

The contoured magnetometer values do not indicate a marked magnetic relief in the Ni 83-85 grid area.

A weak high, Anomaly B in the northeastern corner of the grid, may represent an occurrence of ultrabasic rocks. This anomaly is open to the east.


Other sporadic high values may be indicative of boulders contained within the glacial drift, i.e., Anomaly A.

CONCLUSIONS & RECOMMENDATIONS


In order to fully ascertain the significance of magnetometer Anomaly B, it would be necessary to extend the grid to the east and connect with Area 6. This work should be done.

The area anomalous in nickel values should be prospected in detail for possible mineralization. It has been noted that high values in PPM nickel in this sector of the grid are of the same magnitude as those known to occur in Target Area 2 immediately west of Area 8.

Additional investigation of the area anomalous in copper is not warranted.

  
I. S. Rote, Geologist

Endorsed by:

  
W. E. Clarke, B.Sc., P. Eng.

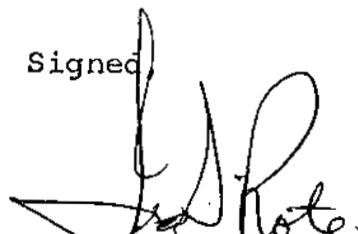
CERTIFICATE

I, Ira S. Rote, of the City of Vancouver in the Province of British Columbia hereby certify:

1. That I am engaged in work as a Geologist and reside at #205 - 1717 Comox Street, Vancouver 5, British Columbia.
2. That I am a graduate of the University of Guelph with an Honours Bachelor of Science degree.
3. That I have done two years work towards an M.Sc. in Geology at the University of British Columbia.
4. That I have practiced as an exploration Geologist for three years.
5. That I have personally done work on the claims mentioned in this report.
6. That I am presently employed by Giant Mascot Mines Limited.

DATED this 24th day of July, 1973

Signed

A handwritten signature in black ink, appearing to read 'Ira S. Rote', written in a cursive style.

Ira S. Rote, Geologist

PERSONNEL & EXPENDITURESPERSONNEL

From July 12 to July 20, 1973, work on the Ni 83-85 Grid was carried out under the writer's supervision. The personnel were as follows:

Ira S. Rote	#205 - 1717 Comox St., Vancouver, B.C.
G. Guy	1832 Napier St., Vancouver, B.C.
J. Ruza	#309 - 122 W. 4th St., N. Vancouver, B.C.
D. MacKenzie	3087 E. 3rd Ave., Vancouver, B.C.
J. Mitchell	790 Inglewood Cres., West Vancouver, B.C.

EXPENDITURES

A cost statement for work done on the Ni 83-85 Grid is as follows:

CREW

I. Rote	Period: July 12th - 20th incl.	
	Days worked:	
	9 days @ \$60/day	\$ 540.00
G. Guy	July 12th - 18th incl.	
	Days worked:	
	6 days @ \$36/day	216.00
J. Rusa	July 12th - 18th incl.	
	Days worked:	
	6 days @ \$36/day	216.00
D. MacKenzie	July 12th - 18th incl.	
	Days worked:	
	6 days @ \$36/day	216.00
J. Mitchell	July 12th - 18th incl.	
	Days worked:	
	6 days @ \$36/day	<u>216.00</u>
	SUB TOTAL	\$1,404.00

continued page 2 --

INSTRUMENT RENTAL

Scintrex MF-2	Time Period. - 1 week	
Fluxgate Magnetometer		\$ 70.00

VEHICLE RENTAL & OPERATION

Chev Crew Cabs	Time Period - 1 week	80.00
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CAMP OPERATION

Meals and accomadation for 5 men for 6 days		276.00
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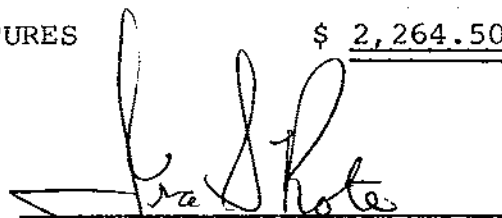
ASSAYING

235 soil samples @ \$ 1.25 per sample		293.75
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ENGINEERING SUPPLIES

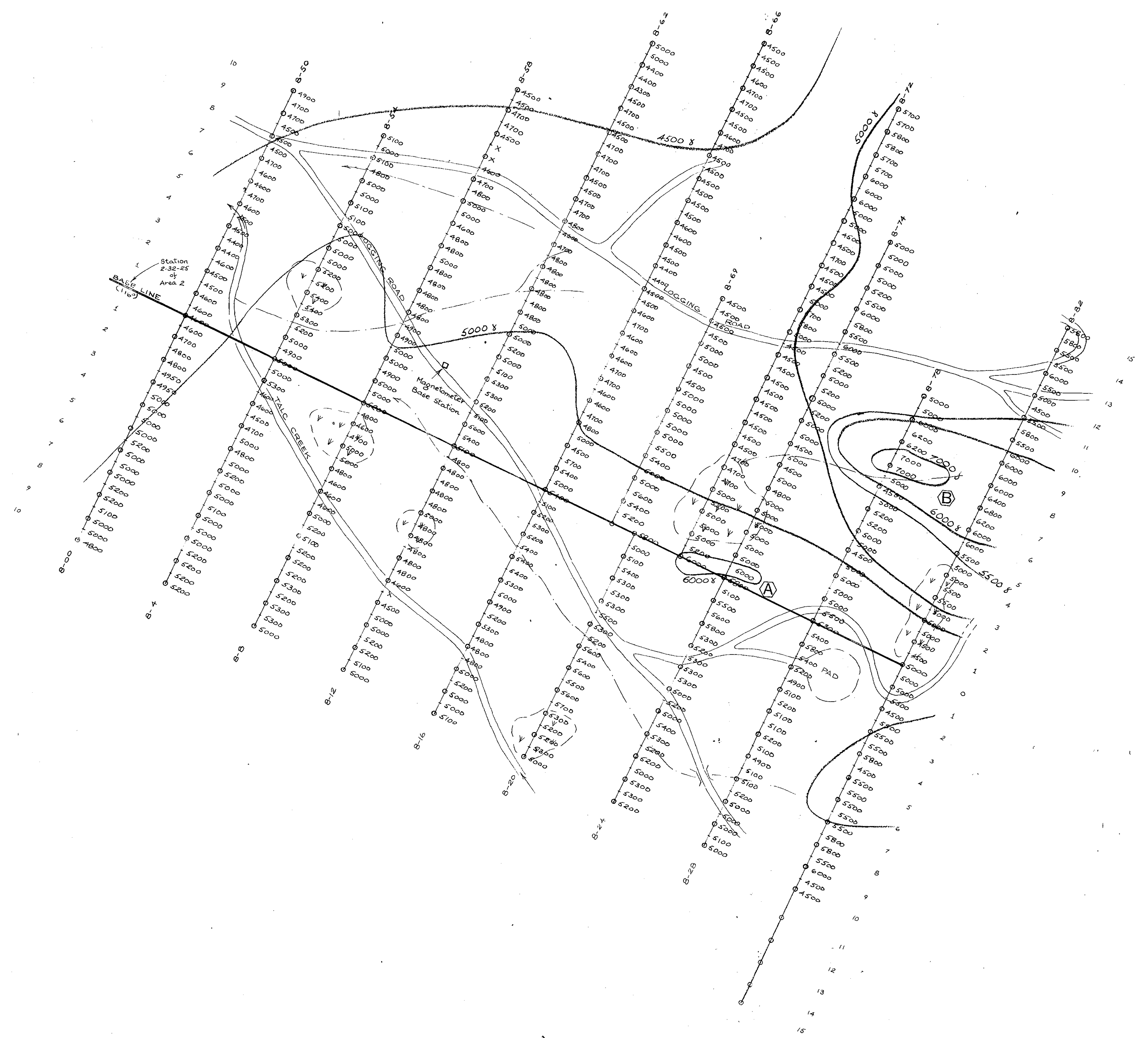
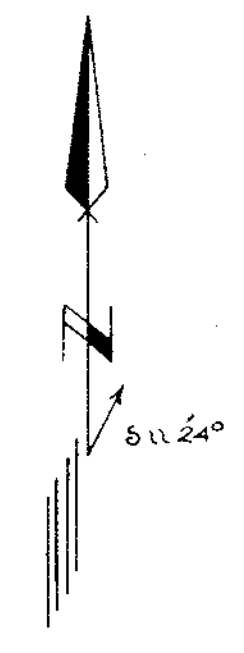
As indicated		140.75
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TOTAL EXPENDITURES		<u>\$ 2,264.50</u>
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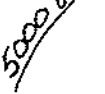
  
Ira S. Rote, Geologist

Endorsed by:

  
W. E. Clarke, B.Sc., P. Eng.



**LEGEND**

-  - Magnetometer station
-  - Mag Contour - 1000 x interval.

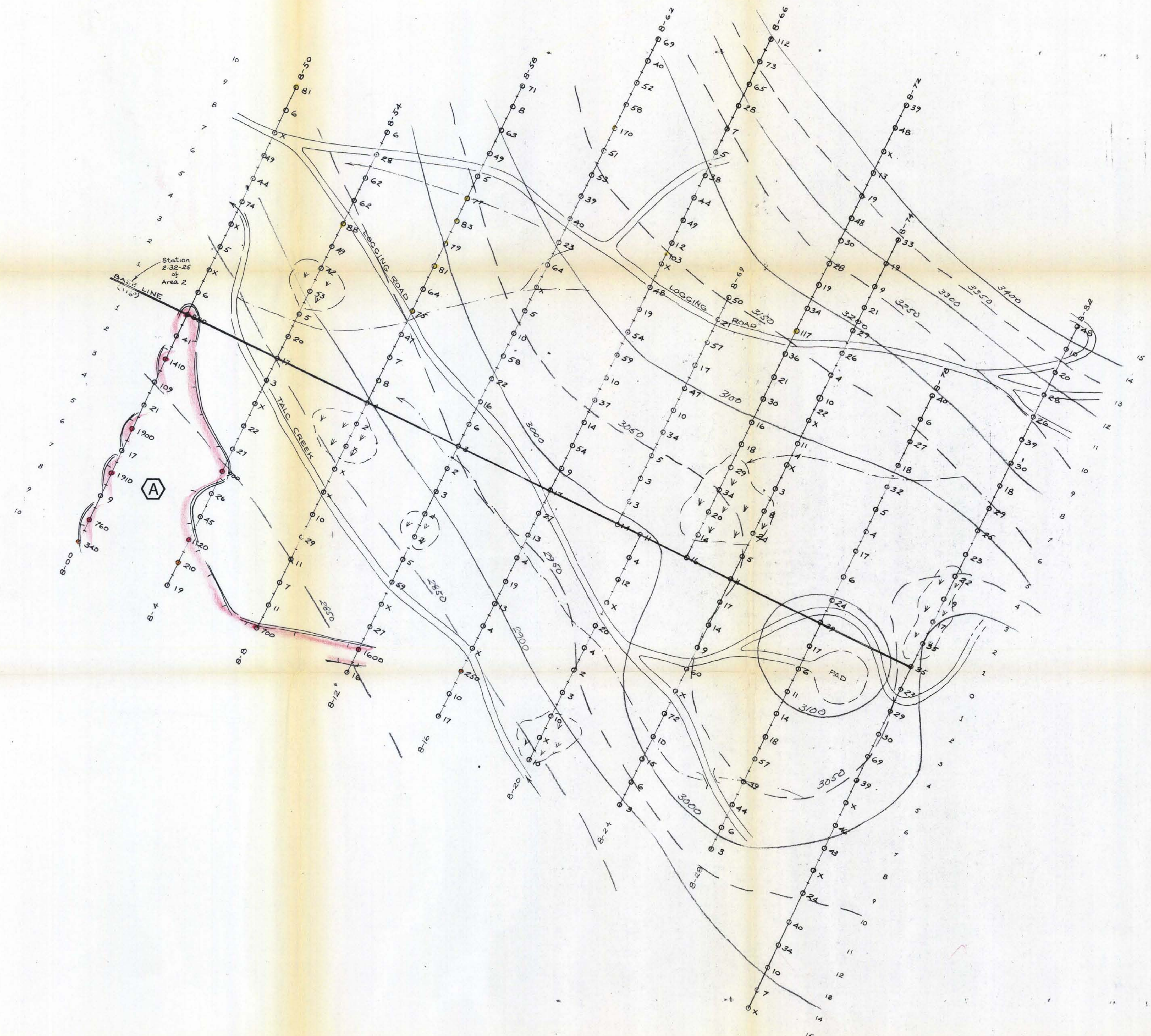
**4536**  
**M3**

*J. S. Rote*

To Accompany	
Geochemical & geophysical report by I. S. ROTE, B.Sc. on the NI-83 & NI 85 Groups on Talc Creek east of Harrison Lake in the New Westminster Mining Division dated July 23 <sup>rd</sup> , 1973.	
GIANT EXPLORATIONS LTD.	
NICKEL SYNDICATE GRID AREA NO. 8 Magnetometer Survey	
SCALE 1" = 200'	DWG NO.
DRAWN I.S.R.	2800-9-6-3
CHECKED	
DATE JUNE 1973	

*Walter J. ...*

NO. 17230 W.M. #11  
 V.T.C. 11. 1750V1  
 W.M. and geophysical sections  
 Department of  
 81124°



**LEGEND**

- ⊕ - Threshold+ ( 75-200 PPM)
- ⊙ - Anomalous ( 200-500 PPM)
- ⊚ - Most Anomalous ( 500+ PPM)
- X - No sample taken
- ⊖ - Anomaly
- Topographic contour @ 50' interval
- - - Small stream
- ~ Creek
- ⊕ Bog

4536 MA

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GIANT EXPLORATIONS LTD.

NICKEL SYNDICATE  
 GRID AREA NO. 8  
 PPM Ni

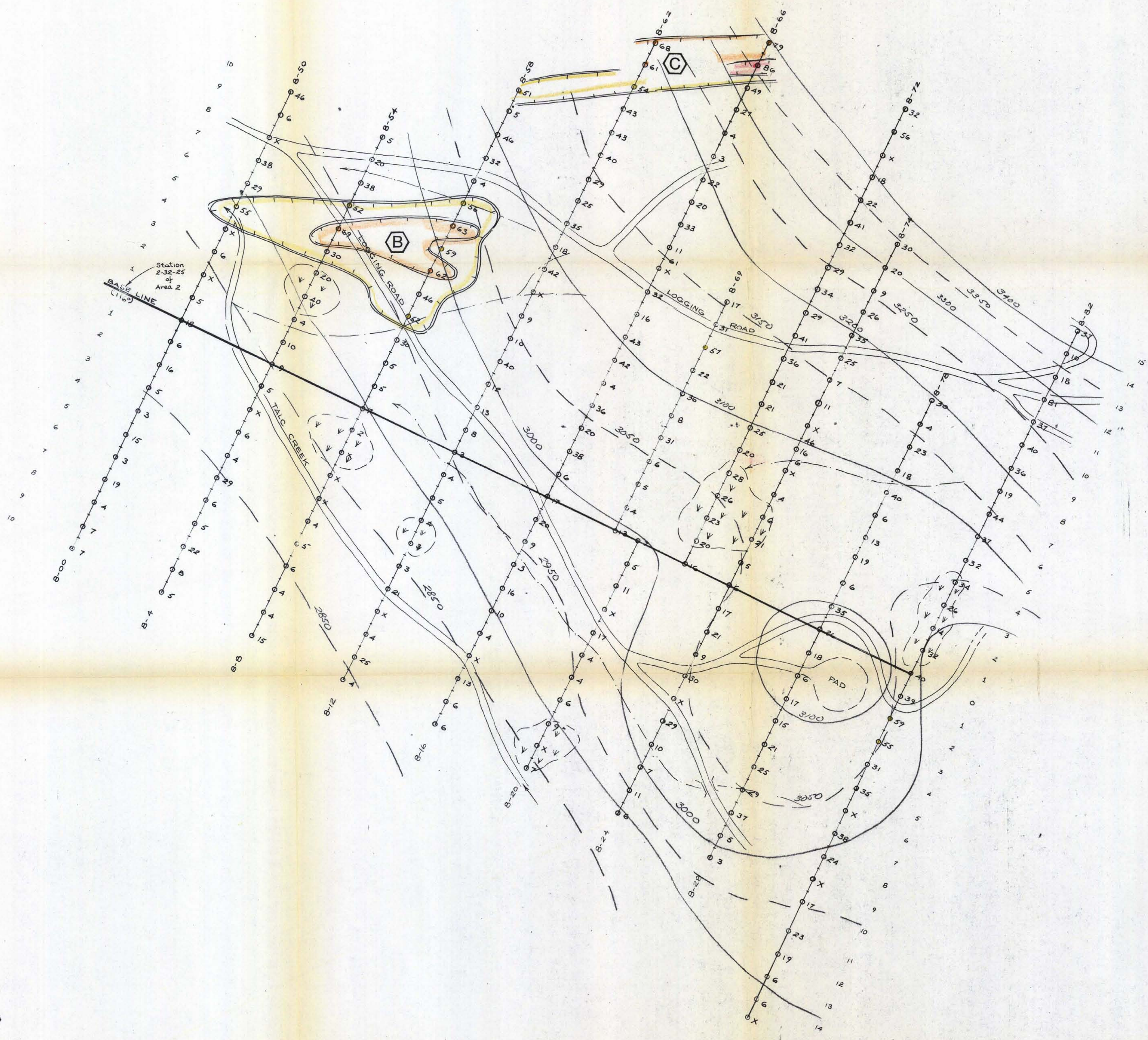
SCALE 1" = 200'  
 DRAWN I. S. R.  
 CHECKED I. S. R.  
 DATE JUNE, 1973

DWG NO  
 2800-S-6-4

*I. S. Rote*

*Walter S. ...*





No. 4536  
 M5  
 GEOTECHNICAL  
 CONSULTANTS  
 1000 WESTERN AVENUE  
 VANCOUVER, B.C.

**LEGEND**

- - Threshold+ (50-60 PPM)
- - Anomalous (60-80 PPM)
- - Most Anomalous (80+ PPM)
- X - No sample taken
- U - Anomaly
- 3050 - Topographic contour @ 50' interval
- Small stream
- Creek
- ⓧ - Bog

**4536**  
**M5**

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GIANT EXPLORATIONS LTD.

NICKEL SYNDICATE  
 GRID AREA NO. 8  
 PPM Cu

SCALE 1" = 200'	DWG NO.
DRAWN I.S.R.	2800-5-6-5
CHECKED J.S.	
DATE June 1973	

*John Rote*

*Walter E. ...*