

410155W0049 2.8136 DENYES

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RESULTS OF GEOPHYSICS DYMENT LAKE PROPERTY, EASTERN EXTENSION, DENYES TWP., PORCUPINE MINING DIVISION, ONTARIO

for

PLACER DEVELOPMENT LTD.

RECEIVED

MAY 21 1985

MINING LANDS SECTION

J. B. Boniwell Exploration Geophysical Consultant

by

April 22, 1985.





410155W0049 2.8136 DENYES

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Discussion of Results - A. Magnetics		4
B. V.L.F.		4
Conclusions and Recommendations		6
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LIST OF DRAWINGS

DWG. NO.	TITLE	SCALE
EIC - 1544	Locality Plan Showing Claims	1:31,680
- 1545	Plan of Interpretation	1:2500
Reference Maps		
P-200-8A	Magnetic Values in Plan	1:2500
P-200-8	Magnetic Contours	1:2500
P-200-9	V.L.F. Stacked Profiles	1:2500
P-200-10	V.L.F. Filtered In-Phase Contours	1:2500



INTRODUCTION

Investigations on the Dyment Lake claims to the west had resulted in the detection of a hitherto unknown induced polarization zone at a likely felsic volcanic contact. Its overt sulphide potential and its evident continuation eastwards into open ground impelled a protective staking in that direction. In addition, some recorded airborne em. anomalies to the north-east of this zone suggested that a co-ordinated exploration in the region could prove worthwhile.

To this end, a combined magnetic and V.L.F. (radio) electromagnetic survey was carried out in a systematic coverage of the claims in the early parts of 1985. The results of this work form the subject of the present reporting.



- 1 -

DESCRIPTION OF PROPERTY

The newly acquired claims within the context of the current Dyment Lake venture are referred to as the Eastern Extension. They number 16 in all, each unpatented and of 40 acres. They are contiguous and together form a square block which abuts in full on its west side the claims of the original Main Block or Patrie Option (Dwg. No. EIC-1544).

The subject claims are specifically identified as:

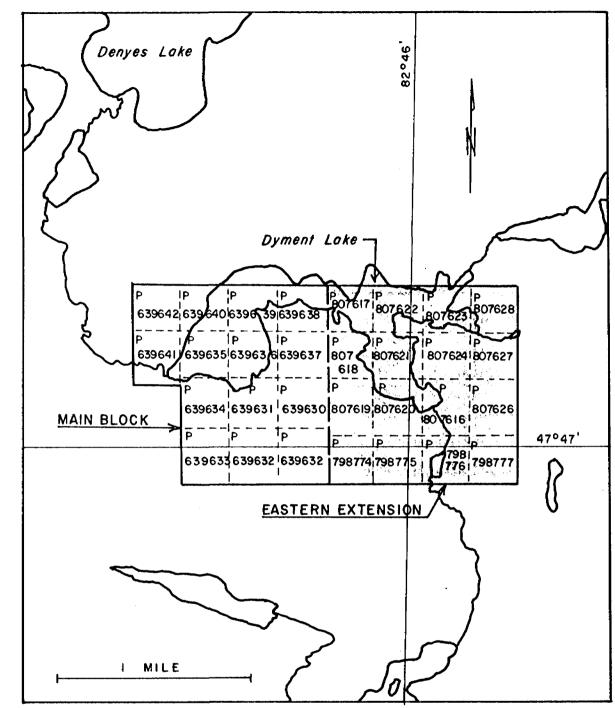
<u>Claim No.</u>	No. of Claims	Township
P 798774-77	4	Denyes
P 807616-24	9	11
P 807626-28	3	11
	16	

As prescribed, they fall entirely within Denyes Township, Porcupine Mining Division, Ontario. All are registered in the name of Placer Development Ltd., 401 Bay St., Toronto, Ontario, M5H 2Y4.

The property physiographically encompasses the eastern half of Dyment Lake and the fairly low-lying ground which surrounds it. Access is had as for the Main Block, either overland from the Chapleau-Timmins road 15 kms to the north-west, or by air from either Chapleau or Folyet.



- 2 -



after OMNR Plan M758

PLACER DEVELOPMENT LIMITED CLAIMS AND LOCATION SKETCH DYMENT LAKE PROPERTY DENYES TWP., ONTARIO

V 200 April , 198 NTS 41-0-15

April , 1985

Dwg. No. E.I.C.- 1544 Figure I

DETAILS OF SURVEY

The grid of lines previously established on the Main Block was continued into the Eastern Extension without interruption, maintaining thereby the co-ordinate system, line direction (N30E) and line spacing (100 m). Again stations were picketed every 25 m.

Both magnetic and V.L.F. (radio) em. surveys were conducted on this grid to the limit of the claims. The magnetic survey itself was performed with a Geometrics model G-816 proton precession magnetometer measuring the total terrestrial field to a sensitivity of 1 nT. Diurnal variations were checked in periodic loops against a series of base stations set up for the purpose. Given that very quiet geomagnetic conditions existed through the term of the survey, field accuracies of between 2-3 nT were deemed to have been attained.

The V.L.F. coverage of this same grid was undertaken with a Geonics model EM-16 receiver tuned to the broadcast field of NAA transmitting from Cutler, Maine, at a frequency of 24.0 kHz. Measures of the in-phase and quadrature components of the vertical (secondary) field were effected to an estimated accuracy of $\frac{+}{2}$ 1% (of the primary field).

The collected magnetic data after diurnal correction, and the companion V.L.F. results before and after their processing (using the Fraser filter), have been compiled into plan at a scale of 1:2500. The magnetics have been contoured at a fundamental contour interval of 20 nT; the V.L.F. results are presented both in profiles stacked against the line of recording,



- 3 -

and as contours to illustrate potential spatial relationships and the relative strength of anomaly across the grid.



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DISCUSSION OF RESULTS

A. Magnetics (Dwg. Nos. P-200-8,8A)

Unlike the adjoining ground to the west, mafic dykes do not overwhelm the data quite so evidently here. Only two dykes in fact can be recognized, and these in their magnetic expressions are comparatively muted. As delineated, they transgress the northern quarter, one bearing north, the other north-east converging upon 1000E/1400N at the perimeter of the grid. However, they are regarded not so important in themselves as the structures they reflect.

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The N-S dyke for instance, occupies in part a NNW break that magnetically is one of the major features of the area. It cuts across the background trends, and very ostensibly truncates the one sector that is of high magnetic relief. It appears in consequence a fault of strong regional pretensions. Importantly, it strikes into what might be reasonably interpreted on the magnetic evidence as an intrusive mafic plug in the extreme south-east corner of the grid. It emerges therefore as a structural line of weakness which has been exploited by later intrusive events potentially more than once. Such a determination could have implications for gold occurrence locally.

The magnetic regime which has been so abruptly terminated by this break is presumed to represent mafic volcanics, predominantly metabasalts. They exist as shown (Dwg. No. EIC-1545) in contrast with the more intermediate/ felsic members of the succession composing the environment. Through these

f

latter domains, the background values remain low (circa 59,100 nT) and change rarely amounts to more than 50 nT locally. In these circumstances, it is difficult to discern any features that may be described as out of the ordinary. The one conceivable possibility which does present itself therein, viz. the depression at 800E/1000N, suffers by being confined to one line and over a precise section of it; moreover it is not supported by flanking data on three sides, including notably the BL. In short, this sudden lowering (by about 60 nT) appears spurious, a function of the fact that this is a landward section which has been traversed at a different time from the lake section to the north. A non-compensated level change is likely cause.

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In the more mafic domain, another and more beckoning possibility arises in the 800N/2100E vicinity. This is a low, perceived as a potential alteration involving magnetite depletion, interrupting the smooth flow of the magnetic trends through this particular neighbourhood. Its appeal largely resides with the evidence that it locates adjacent to the NNW lineament of prior note at a point where it could be in interaction with a cross-cutting ENE fault. However in magnetic terms, the locality is not truly defined uniquely, and indeed there is every chance it belongs to a sub-domain with overtly similar characteristics extending eastwards 500 m to grid limits where it continues to remain open. This runs counter to the concept of a localized alteration, and so hurts the primary proposition. More corroborative evidence is needed.

B. V.L.F. (radio) EM. (Dwg. Nos. P-200-9,10)

The V.L.F. results have produced strong indications of a number of structural axes taking on several headings across the area. The most pronounced

EXGALIBUR INTERNATIONAL GONSULTANTS LTD. bear NW-SE in conformity with the geologic grain, and in two instances at least, the magnetics suppose they are bounding fault/shears to individual units in the volcanic succession. In two other cases, sub-parallel V.L.F. anomaly alignments appear more purely as contact features, that is, they derive (only) from interfaces between contrasting resistivity blocks in bedrock. Axes in the first category populate the grid north-east, in the second, the central south. Besides these events, a number of additional V.L.F. lineaments can be discerned totally transgressing the lithologic trends.

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Perhaps again the most important of these is the central N-S fault bisecting the grid area as propounded by the magnetics. Its existence finds a ready support in the V.L.F. data, particularly since much of the response involved is enhanced by the arm of the lake it falls in, and which presumably it, to some extent, has controlled. Within the limits of these claims, this looks like a singular occurrence. However it is probable that satellites exist, and thus some credence is granted the hint provided to grid west that there exists a parallel structure, albeit this sensed over a relatively short strike section only.

Cutting across these breaks is a set of axes which in the main head ENE. The most authoritative is an axis which intersects the N-S fault of prominence at about 1100N/1500E. Here, a local magnetic dilation suggests that a small (mafic) intrusive stock has taken advantage of the broken ground here afforded. Notably one of these ENE axes is seen to traverse the magnetic low in the 800N/2100E locality aforementioned. This may hold enough significance for mineral occurrence to warrant some sampling in the setting.

Nevertheless despite this note of encouragement, there is nothing



BXGALIBUR INTERNATIONAL GONSULTANTS LTD. in the V.L.F. expressions here or elsewhere in the grid to project a sulphide conduction. The horizon which directed the original attention to the eastern potentialities tends to break up as it enters this claims area (circa 1500E/ 250N). It is possible it is disrupted by a NE-SW fault which is recognized at the northern side of the grid (at 1100E) but which because of its close approximation to the line direction is not well resolved as it proceeds southwards. On the odds, this is a comparatively young structure, and thus it may well have displaced this one known mineralized formation beyond the full reach of the present exploration.



CONCLUSIONS AND RECOMMENDATIONS

It is concluded that the same volcanic suite as in the Main Block to the west extends in kind and style into the present claims area, and that many of the features recognized there find continuation or repetition in the pertaining geophysical data here. The N-S mafic dykes, the pattern of faults, the intravolcanic differentiations, for example, all find as ready expression as heretofore within reasonable bounds of interpretation, and the environmental conditions pertaining to lake sediments and overburden are if anything even less a factor than before.

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What is missing nevertheless is any strong evidence of sulphide occurrence in the area; moreover and perhaps more to the point there is no real definition of anything new in the way of mineral focus for this added area. The one suggestion that does exist pertains to a locality centred at the southern end of Dyment Lake where an alteration may have evolved around a rather interesting intersection of fault lineaments in a general volcanic contact setting including metabasalts. However it lacks the uniqueness of description to certify its probability to a degree where it would command drilling.

As a consequence, no recommendations for further detailing are at this stage listed. Just the same, it would be appropriate that if in the course say, of a geologic reconnaissance of this claims group in the summer months, a geochemical sampling is undertaken in this specific locality. The sampling material may be humus or soils or both. Basal till sampling is not considered an imperative unless the near-surface or outcrop indications



become highly positive.

JBB:sb April 29, 1985. J. B. Boniwell Exploration Geophysical Consultant



APPENDIX

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Property: Dyment Lake Eastern Extension, Swayze Area Township: Denyes, Porcupine Mining Division, Ontario

ASSESSMENT INFORMATION

No. of Claims: 16

	No. of Stations	Line Kms.
Grid preparation		25.6
Geophysical Surveys: i) Magnetics	2021	25.6
ii) V.L.F.	1976	23.6

Dates of Survey: Feb. - March '85

Contractor : Linecutting, chaining, etc.-Ingemar Explorations Ltd., Connaught, Ontario

Geophysical : Placer Development Ltd., Surveys 401 Bay Ste., Ste. 2600, Toronto, Ontario M5H 2Y4.

Data Processing: Placer Development Ltd. Compilation,

Presentation

Interpretation,: reporting

on,: Excalibur International Consultants Ltd., 10 Hurontario St., Mississauga, Ontario L5G 3G7



Personnel:

- contract crew of four (4)

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- ii) Magnetic & V.L.F. surveys
 - F. Faulkner
 - D. Andreson
- iii) Data Processing, presentation
 - F. Faulkner
 - J. Wilson
 - iv) Interpretation, reporting
 - J. B. Boniwell
 - S. Blunt
 - R. T. Marcroft



Natural (Geo	ort of Work physical, Geological, chemical and Expendi	tures) #	=1					יר ול זי ול
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Type of Survey(s)					Township o			-
Magnetomete: Claim Holder(s)	r & VLF-EM				Deny		r's Licence No.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Placer Deve	lopment Limi	ted				1	837	
Address	401 Bay Str	eet T	oronto	Ontario.	M5H 2Y	4		
Survey Company	401 Day Der		0101100	Date of Survey	(from & to)	····	Total Miles of line C	Cut
	lopment Limi	ted		15 02 Day Mo.	85 15 Yr. Day N	05 85 ^{Ao.} Yr.	25.55 Km	
Name and Address of Author (o Dr. J.B. BO	niwell, 10 H	uronta	rio St	reet, Miss	sissauga	, Ont	ario	
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Special Provisions	Geophysical	Days per Claim	Prefix	Aining Claim Number	Expend. Days Cr.	N Prefix	lining Claim Number	Expend, Days Cr.
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using the same grid:	- Other		in den en e			a shekara ta she Ta shekara ta shekara		
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	- Magnetometer			807620			geophysic	al
	Radiometric			807621			coverage	1
	- Other			807622			30 claims	
	Geological			807623				
	Geochemical			807624			by Placer	
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Date Recorded Holder or Agent (Signature) 960 Date Approved as neconded Busch Director								
Certification Verifying Report of Work								
I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed berate, having performed the work or witnessed same during and/or after its completion and the annexed report is true.								
Name and Postal Address of Person Certifying Mr. F.H. Faulkner, Suite 2600, 401 Bay Street								
Toronto, Ontario		v		Date Certified		Certified	by (Signature) H. Araba	<u></u>
362 (81/9)								

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File: 2.8136

1985 05 27

Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

We received reports and maps on May 21, 1985 for a Geophysical (Magnetometer and Electromagnetic) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 798874, et al, in the Township of Denyes.

This material will be examined and assessed and a statement of assessment work credits will be issued.

We do not have a copy of the report of work which is normally filed with your office prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone:(416)965-4888

A. Barr:mc

cc: Placer Development Ltd Suite 2600 401 Bay Street Toronto, Ontario M5H 2Y4 cc: J.B. Boniwell 10 Hurontario Street Mississauga, Ontario L5G 3H3



Ministry of Natural Resources

File_

1

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

	Type of Sur	rvey(s) <u>VLF</u>	<u>'-EM & Ma</u>	agnetometer		
Claim Holder(s)Placer_Development Limited	Township o	Township or Area Denyes Township MINING CLAIMS TRAVERSED				
Survey Company_Placer Development Limited P. 798774 Author of Report Dr. J. Boniwell P. 798774 Address of Authorlo Hurontario St., Mississauga,Ont. P. 798775 Covering Dates of Survey_Peb.15 to May 15, 1985 P. 798776 TotaMM#05 of Line Cut_25.55 Km P. 798776 SEECIAL PROVISIONS CREDITS REQUESTED Geophysical ENTER 40 days (includes inccuting) for first survey. -Electromagnetic_40 -Electromagnetic_20 diditional survey using same grid. P. 807617 AIRBORNE CREDITS (Special provision credits do not spPty to althorne survey) Res. Geol						
Suite Company General Dr. J. Boniwell Author of Report Dr. J. Boniwell P. 798775 Address of Author 10 Hurontario St. Mississauga.Ont. P. 798775 Covering Dates of Survey. Peb.15 to May 15, 1985 P. 798776 (meaning to office) P. 798776 TotaMM#25:06 Line Cut_25.55 Km P. 807516 SPECIAL PROVISIONS DAYs CREDITS REQUESTED Geophysical ENTER 40 days (includes Electromagnetic_40 line cutting) for first Magnetometer_20 survey. Radiometric ENTER 20 days for each -Other. additional survey using same grid. Geological AIRBORNE CREDITS (Special provision credit do not supply to airborne survey) P. 807624 DATE:		Sui	te 2600	, 401 Bay Stree	t, Toront	o
Author of Report DT. J. BODIWEII P. 798775 Address of Author 10 Hurontario St., Mississauga, Ont. P. 798776 Covering Dates of Survey_Feb.15 to May 15, 1985 P. 798776 TotaMNikex of Line Cut_25.55 Km P. 798776 SPECIAL PROVISIONS CREDITS REQUESTED Geophysical ENTER 40 days (includes Electromagnetic_40 line cutting) for first survey. Radiometric_20 ENTER 20 days for each -Other20 additional survey using same grid. Geochemical	Survey Con	npany <u>Pla</u>	acer Deve	elopment Limite	d	
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837 (5/79)

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

(GROUND SURVEYS - If more than one survey, specify data	for each type of survey			
	VLF - 940	VLF - 1976			
Ν	Jumber of Stations <u>Mag 1020</u>	Number of Readings Mag 2021			
S	tation interval 25 meters	Line spacing 100 meters			
P	Profile scale $1 \text{ cm} = 10\%$				
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	Instrument Geometrics Model G-816 Proton Pr	recession			
I					
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MAGNETIC	Base Station check-in interval (hours) <u>1 - 2 hrs.</u>				
	Base Station location and valueBase stations wer				
	standard loop method was used - stations				
	survey completed October 1984 (See your	file 2.7436)			
	Instrument Geonics VLF-EM.16				
ETI	Coil configuration				
GN	Coil separation				
MA	Accuracy <u>± 2%</u>				
ELECTROMAGNETIC	Method: xx Fixed transmitter Sho	ot back 🗀 In line 🗀 Parallel line			
EC	Frequency24.0 Khz NAA, Cutler, Mair				
EL	(specify V.L. Parameters measured In-phase & guadrature con	F. station)			
	field as a percentage of horizontal prim				
	Instrument				
М	Scale constant				
ΠΛ	H Corrections made				
RA					
G	Base station value and location				
	Elevation accuracy				
	•				
	Instrument	Frequency Domain			
	Method	• •			
	Parameters – On time	Range			
IV	- Off time				
N	– Delay time				
RESISTIVITY	– Integration time				
RE	Power				
	Electrode array				
	Electrode spacing				
	Type of electrode				

INDUCED POLARIZATION

SELF POTENTIAL

Instrument	Range
Survey Method	
Corrections made	

RADIOMETRIC

Instrument	
Values measured	
Energy windows (levels)	
Height of instrument	_Background Count
Size of detector	
Overburden(type, depth – include outcrop m	nap)
OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)	
Type of survey	
Instrument	
Accuracy	
Parameters measured	
Additional information (for understanding results)	
AIRBORNE SURVEYS	
Type of survey(s)	
Instrument(s)(specify for each type of survey)	
Accuracy	
Sensor altitude	
Navigation and flight path recovery method	
Aircraft altitude	_Line Spacing
Miles flown over total area	

GEOCHEMICAL SURVEY - PROCEDURE RECORD

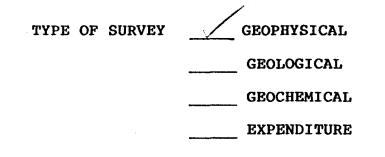
Numbers of claims from which samples taken_____

Total Number of Samples	ANALYTICAL METHODS				
Type of Sample(Nature of Material)					
Average Sample Weight	p. p. b.				
Method of Collection	Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)				
Soil Horizon Sampled	Others				
Horizon Development	Field Analysis (tests)				
Sample Depth	Extraction Method				
Terrain	Analytical Method				
	Reagents Used				
Drainage Development	Field Laboratory Analysis				
Estimated Range of Overburden Thickness	No. (tests)				
	Extraction Method				
· · · · · · · · · · · · · · · · · · ·	Analytical Method				
	Reagents Used				
SAMPLE PREPARATION	Commercial Laboratory (tests)				
(Includes drying, screening, crushing, ashing)	Name of Laboratory				
Mesh size of fraction used for analysis	Extraction Method				
	Analytical Method				
	Reagents Used				
General	General				
-					

Mining Lands Section

File No 2.8136

Control Sheet



MINING LANDS COMMENTS:

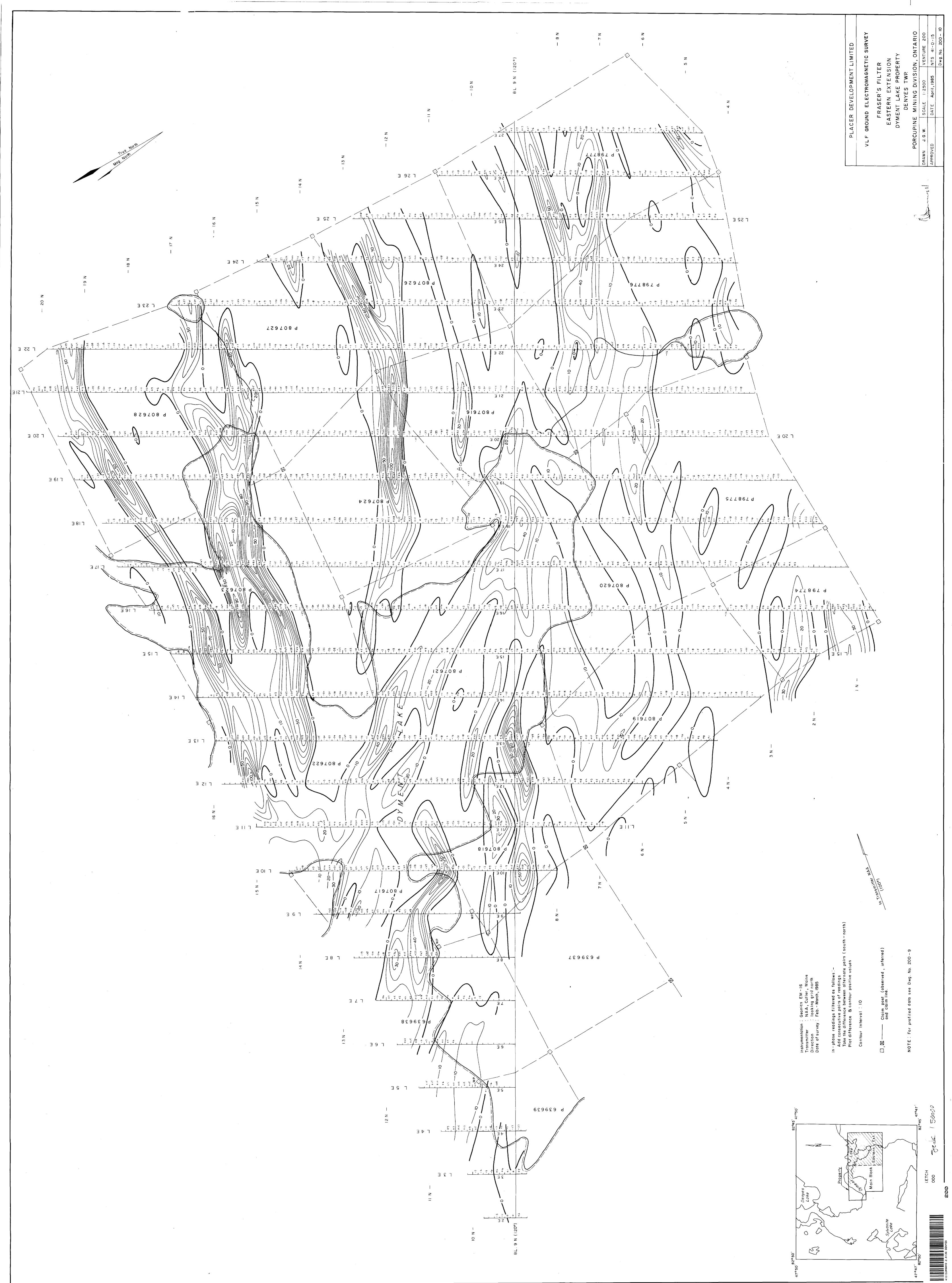
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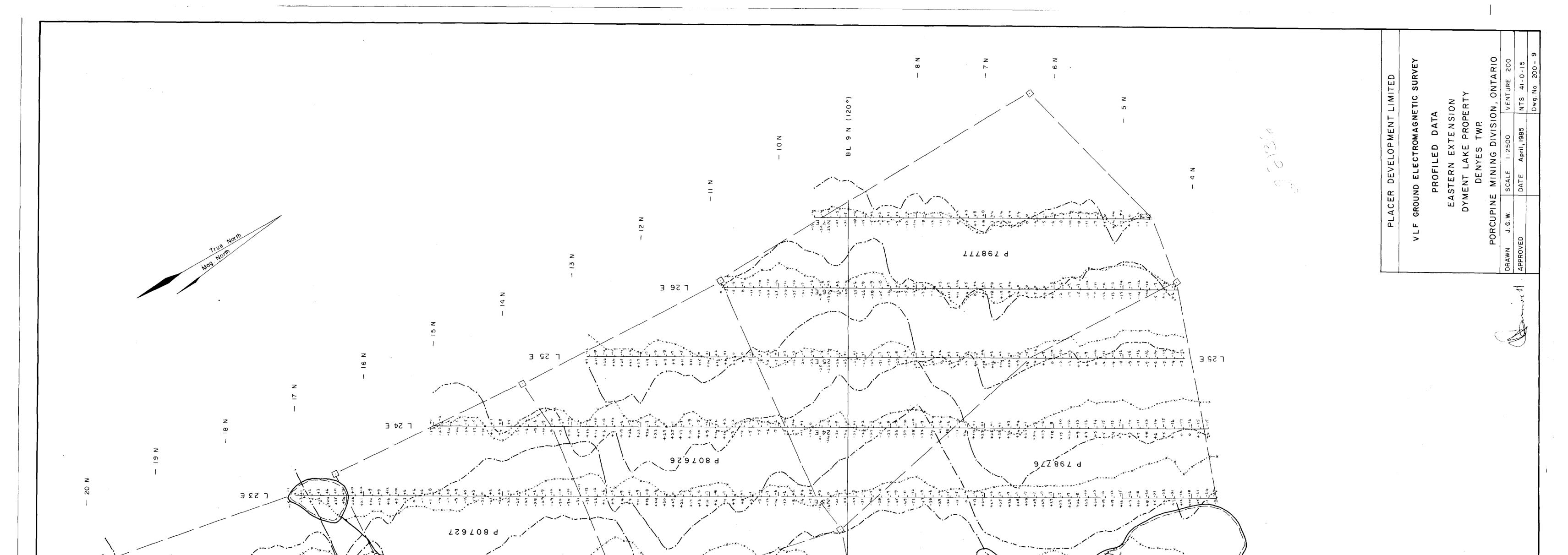
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Signature of Assessor

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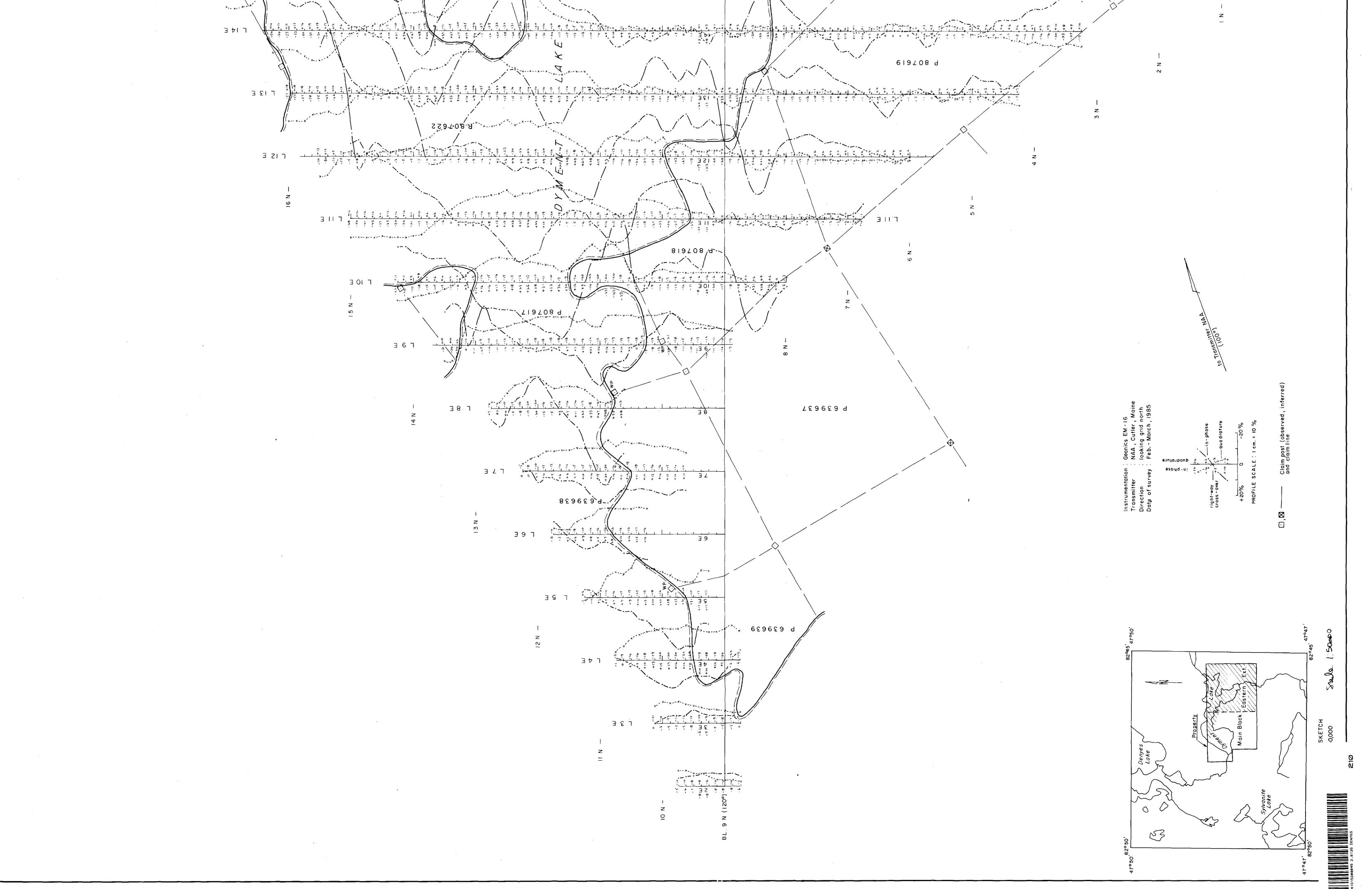
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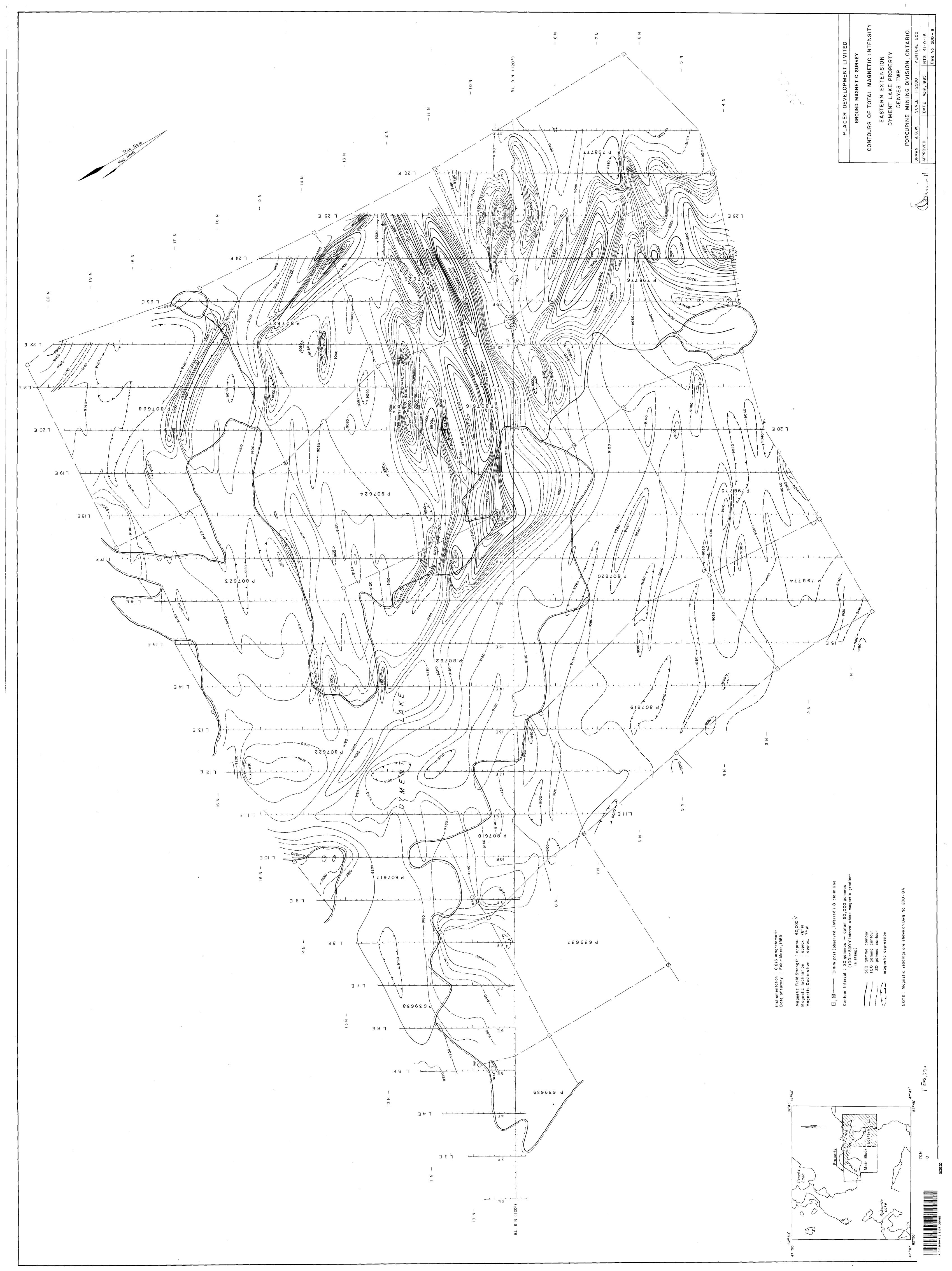
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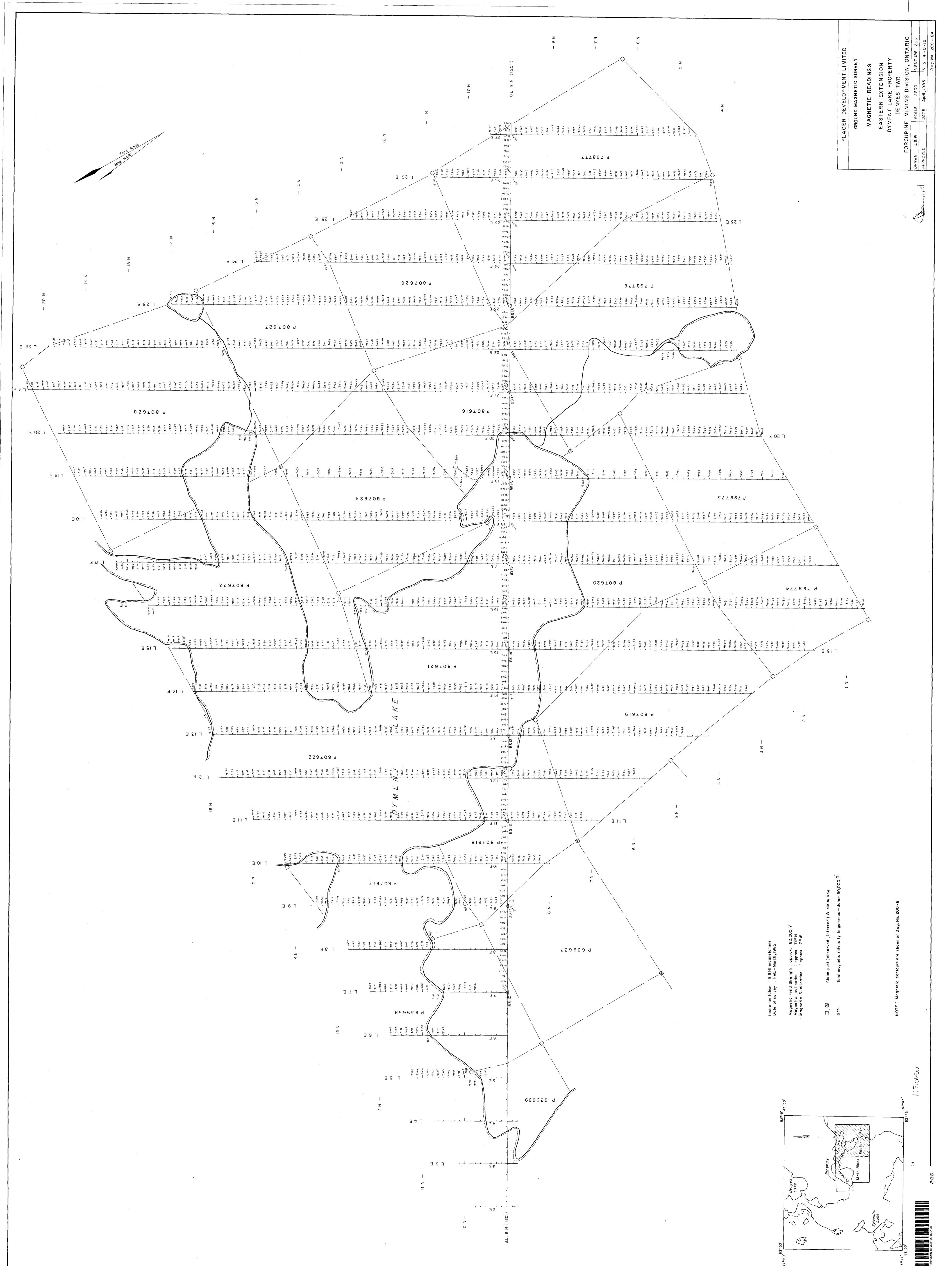
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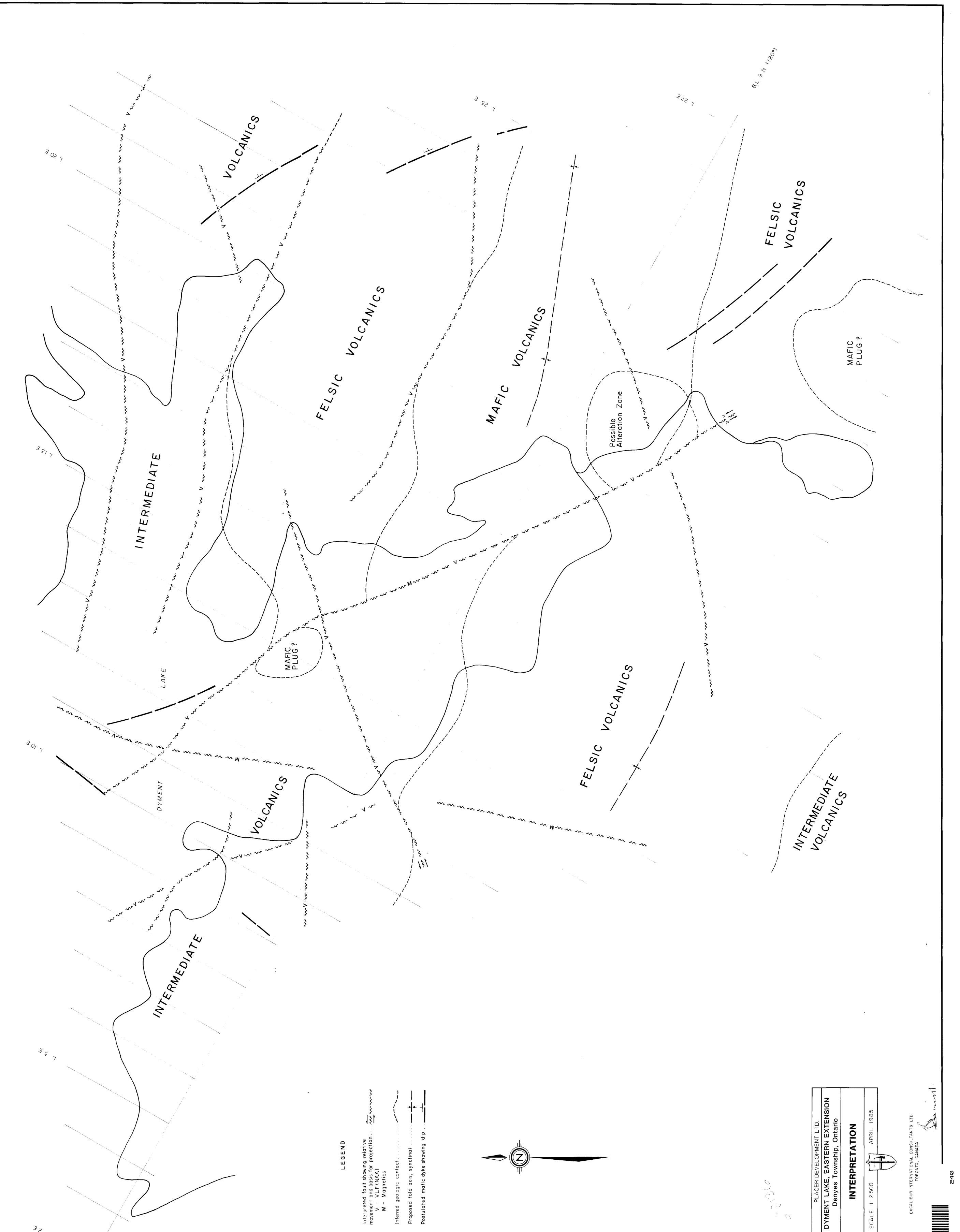
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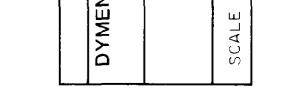








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