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<u>REPORT ON THE GEOPHYSICAL SURVEYS</u> <u>ON THE GHOST RIVER PROPERTY</u> <u>GARRISON AND HARKER TOWNSHIPS FOR</u> <u>GRANDAD RESOURCES LTD.</u>

NTS 32D/5, 12

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DERRY, MICHENER, BOOTH & WAHL

MINING LANDS SECTION

R. W. North

R. W. Woolham, P.Eng. Geophysicist

REF.: 84-55

Toronto, Canada December 10, 1984

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SUMMARY

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Magnetic and VLF electromagnetic surveys, consisting of approximately 80 line km each, have been completed on the Grandad Resources Ltd. Ghost River property. The surveys were designed to identify prospective auriferous interflow sediment/tuff horizons, which sometimes occur associated with a magnetic/non-magnetic basalt flow contact zone.

Two such horizons were indicated in a very general way by the magnetic results. A single obvious narrow contact zone was not indicated by the magnetic results. Two wide "transition" zones of possible interest were identified on the north side of magnetic zones A and B. The VLF electromagnetic results were inconclusive, reflecting many short east-west conductive trends subparallel to the magnetic strike that might be associated with conductive overburden. One long VLF conductor had a definite relationship to a contact zone, as indicated by the magnetic responses seen at the west end of Zone A, south side. Other more subtle conductors may be associated with bedrock sources.

Geochemical soil sampling of the prospective horizons has been completed as part of another phase of the exploration program. It is recommended that any anomalous areas from this survey be correlated with the magnetic interpretation compilation map. Structural and/or specific magnetic response characteristics may have corresponding anomalous geochemical halos. Prospective areas, where thick overburden cover precludes reliable soil geochemical results, could then be identified for more definitive bedrock sediment sampling techniques. Further detailed geochemical, geophysical and geological surveys may also be warranted in prospective areas prior to the initiation of a drill program.

(ii)

Respectfully submitted, DERRY, MICHENER, BOOTH & WAHL

R. W. Northes

R. W. Woolham, P.Eng. Geophysicist

This report, prepared by Derry, Michener, Booth & Wahl, is an evaluation and interpretation of magnetometer and VLF electromagnetic surveys performed on the Ghost River property for Grandad Resources Ltd.

- 1 -

The surveys were carried out by R. Moore, a private contractor, during the period July 1st to August 15th. This work was under the supervision of F. Sharpley, who consulted with the author from time to time regarding survey implementation and specifications.

LOCATION AND ACCESS

The property is located 44 km east of Matheson, Ontario. Accessibility is via Highway 101 east from Matheson and south for a distance of 5 km from the highway along a logging road. A small portion of the west part of the claim block straddles the boundary of Garrison and Harker Townships, with the major part of the claims situated in the southwest quadrant of Harker Township. A location map is shown on the survey maps 84-55-1, 3 or 5.

PROPERTY

The property consists of 45 contiguous claims. They are numbered as follows:

Garrison Township: 9 claims

L737509 to L737517, inclusive

Harker Township: 36 claims

L737529 to L737548, inclusive L738103 to L738112, inclusive L738114 to L738119, inclusive

A claim map is shown on each of maps 84-55-1, 3 and 5.

HISTORY

In 1946, Northland Mines (1940) Limited carried out geological mapping and ground magnetometer surveys covering a portion of the present property. Their work involved investigations over a strike length of 13 km in Garrison and Harker Townships.

GEOLOGY AND MINERALIZATION

The property is predominately underlain by mafic metavolcanics consisting of andesite and basalt. An iron-rich mafic unit has been recognized and mapped as unit 6 on OGS Map P. 2434. A separate magnesium-rich unit is also designated on the geology map as unit 5. These strike generally 070° and have a dip of 80° south.

- 2 -

Narrow bands of auriferous interflow sediments and tuffs are sometimes intercalated with the metavolcanic flows. They are stratigraphically associated with the contact horizon between unit 5 to the north and unit 6 to the south. One, and possibly two, of these prospective contact zones are thought to cross the property. They are on the same stratigraphic horizon as the McDermott deposit located 10 km to the northeast in Holloway Township (OGS Map 1951-4).

- 3 -

There is no known mineralization on the property, although an old pit is noted in one outcrop. On the old Imperial Reserve Mines Ltd. property, located 3 km to the northeast, grab samples from pyritized sediments assayed 0.01 to 0.17 oz. of gold per ton (ODM Vol. LX, part VII, 1951).

SURVEY PARAMETERS AND PRESENTATION

Magnetometer Survey

A Scintrex Model MP-2 Proton magnetometer was used to measure the total magnetic field (see Instrument Specifications, Appendix I). Readings were taken every 12.5 m along the grid lines. Diurnal correction control was obtained by looping through pre-established base stations at intervals that did not exceed one and one half hours. Survey line separation was 100 m. A total of approximately 80 line km of magnetic data were obtained in this way.

The results were corrected for diurnal variations. A regional total field value of 57,000 nanotesla (nT) was subtracted from all readings. The resulting

values were plotted and contoured at an interval of 200 nT and are shown on maps 84-55-1 and 2 at a scale of 1:2500 (see maps in pocket).

- 4 -

VLF Electromagnetic Survey

The VLF EM survey utilized a Geonics EM-16 instrument to measure the secondary field components produced by the VLF transmitter station at Cutler Maine (NAA). Measurements of the in-phase and quadrature values were taken every 25 m along the survey lines. A total of approximately 80 line km of data were collected in this way.

The results were plotted in profile at a scale of 1:2500. A conductive response is indicated in a change of gradient from a positive to negative proceeding in the north direction, as shown on maps 84-55-3 and 4. The Fraser filter values were calculated for the in-phase profiles. The values were then plotted and contoured at a 20 unit interval. The results are presented on maps 84-55-5 and 6 also at a scale of 1:2500.

RESULTS

Magnetometer Survey (Maps 84-55-1 and 2)

The regional magnetic responses within the claim block are characterized by two major magnetic horizons, which strike almost east-west across the property (See compilation Map 84-55-7). They are designated as Zone "A" and Zone "B".

Zone "A", the southern horizon, occurs south of the 8 south tie line centered at about 1200 south. It is approximately 200 to 350 m wide. The horizon consists of narrow sinuous linear anomalies having average amplitudes ranging from 500 to 2,000 nT above a regional background of 58,800 nT. On the west side of the property, from line 12 E westwards, there are sharp anomaly gradients with significant amplitude changes sometimes occurring within one station interval along the line. On the east side of line 12E, however, anomaly peaks are much smoother and have broader flanks.

Throughout the whole horizon, identifiable anomaly trends are often interrupted or displaced. The south side of the horizon reduces in amplitude gradually, not reaching background levels until several hundreds of metres south of the main higher amplitude horizon boundary. Except for line 6E, background level magnetic values having few perturbations are present right to the south boundary of the south central claim block. On line 6E, values are elevated almost to the south end of the line. The north boundary of the magnetic horizon at 1200 south, Zone "A", is marked by a very abrupt change in magnetic response along most of its length going from anomalous to below background values within one or two station readings (12.5 to 25 metres). This lower amplitude region, which parallels the high magnetic zone, is about 100 to 300 nT below background. It is about 300 metres wide and generally straddles or is slightly south of the tie line. Within this lower level zone, there are several narrow, magnetically high lineaments having amplitudes of about 200 to 500 nT above background. These lineaments generally occur on the south half of the lower level zone close to the major magnetic horizon, described previously, and form a type of transition zone between the two magnetically distinctive high and low amplitude horizons.

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- 5 --

The northern major magnetic horizon, zone "B", has similar regional magnetic amplitude characteristics to the southern horizon, with a sharp anomaly cutoff on the north side and a slowly reducing anomaly level on the south side. The zone partly covers the main base line area. Zone "B" is wider than zone "A," having a width of 400 to 600 metres. The anomaly characteristics are also slightly different. In the north central part of zone "B", a large, complex, very high amplitude series of semi-continuous localized anomalies are present. These anomalies are 3,000 nT above background and form a distinctive magnetic feature between lines 4 east and 10 east north of the base line.

- 6 -

North of zone "B", there is a low amplitude horizon 200 to 400 nT below background with a width of about 300 metres. On the west side, it is not immediately adjacent to the higher magnetic zone to the south, but is separated by a magnetically quiet area interspersed with a few local magnetic linears. On the east side, it is bounded to the south by the high amplitude magnetic complex mentioned previously. North of this low amplitude zone, the magnetic field slowly increases to average background levels until a third high amplitude horizon is encountered at the northwest corner of the claim group. This latter horizon is only partly covered by the survey grid.

VLF Electromagnetic Survey (Maps 84-55-3 and 4)

The conductive trends, interpreted from the maximum amplitude peak positions of the Fraser filter values, lacked any extensive continuity, except in the south-central part of the grid. Trends were generally terminated or displaced along a few hundred metres of strike direction, except for a major feature that will be discussed later. Most of the trend directions are east-west paralleling the regional drainage directions and crosscutting the magnetic trends, which are oriented east-northeast. There appears to be very few conductive structural patterns associated with magnetic features that can be recognized. There is a preponderance of conductors in the central portion of the grid, which terminate rather abruptly east of line 14 east.

One exception to the EM/Mag relationships is the conductor at about 1350 south occurring from line 0 to line 10 east. This conductor very closely parallels the southern edge of the Zone "A" major magnetic horizon, described earlier in the magnetic survey section.

CONCLUSIONS

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The magnetic and conductive trends, which define the major structures in the area, have been indicated on an interpretation compilation map at a scale of 1:5000 (Map 84-55-7). The boundaries which demarcate the magnetic domains, as described previously, have also been designated in addition to interpreted fold/fault breaks.

The two main high amplitude magnetic complexes, designated as zones A and B, are shown on the compilation map. They are no doubt the magnetic signature of the iron-rich mafic flow complexes mapped in the area as unit 6. Their magnetic signatures, consisting of sharp north boundaries and gradually sloping south flanks, are indicative of a south-dipping source. The less pronounced narrow magnetic linears just to the north of these zones, probably represent a "transition" zone

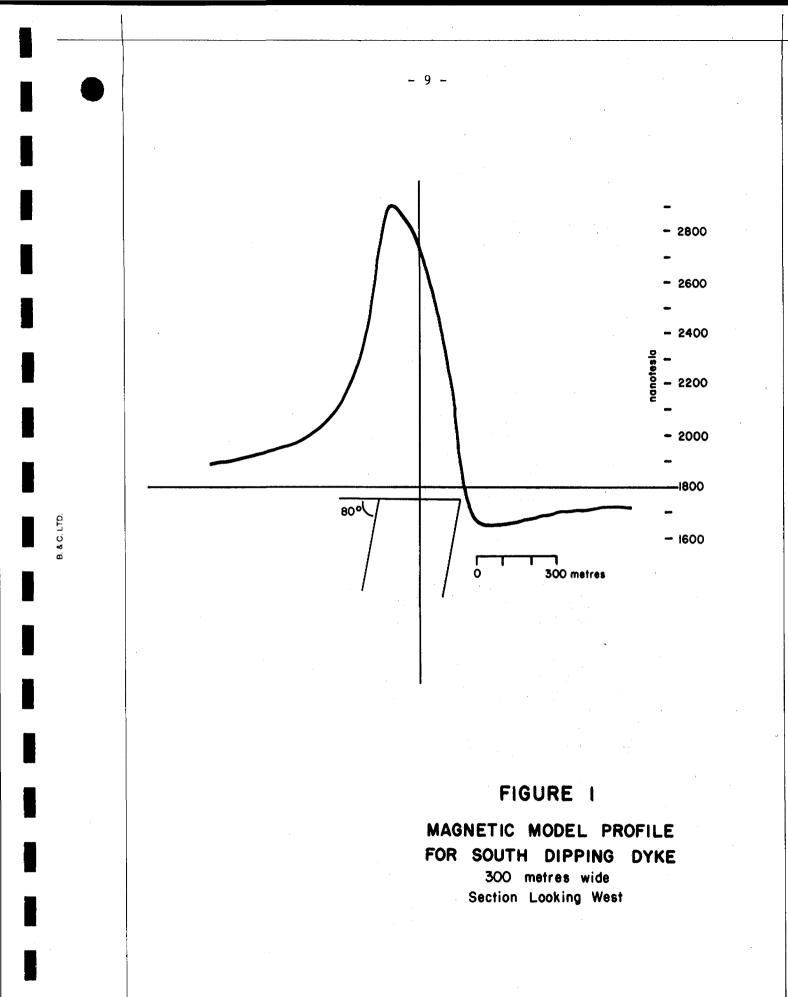
between the iron-rich and magnesium-rich mafic flows. Diabasic lavas have been mapped in the area just to the north of the south zone complex. Note that the broader contour patterns in the northern and eastern parts of the survey grid suggest that a deeper overburden cover is present in these regions. Overburden depths of a few metres to a few tens of metres are indicated by the magnetic responses.

- 8 -

The below background horizons, which occur on the north flanks of zones A and B, could be related to a combination of sources. A magnetic dyke, dipping to the south at 70 to 80°, will have a significant negative north flank. Figure 1 illustrates this effect. Near-surface, narrow magnetic bodies, within unit 6, tend to obliterate the regional response of unit 6. Careful inspection of the actual magnetic values in profile shows that Figure 1 could be considered to be a good representation of the average positive and negative components associated with the zone "A" and "B" horizons. At the same time, however, the width and characteristics of the low amplitude horizons, flanking zones A and B, suggest that non-magnetic sources could also be contributing to the effects seen. These ambiguities mean that it is not possible to accurately define the width or differentiate between nonmagnetic basalt flow rocks and similarly non-magnetic interflow sediments that might be present. Two broad prospective horizons have been identified however, where interflow sediments may occur based on the geological model indicated earlier. This area occurs along the north boundaries of zones 1 and 2 as far north as the north boundaries of the transition zones.

The fold/fault breaks, shown on the map, are interpreted from the magnetic trend displacements and anomaly amplitude changes. In some instances, these breaks

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may relate to folding and, in others, they may actually represent fault structures. The inherent nature of the magnetic method makes definite identification of the source of the structure difficult to determine. Also shown on the map are north and northwest-trending linears interpreted as diabase dyke sources. They are very difficult to recognize where they intersect magnetic complexes because they are parallel to the survey line direction. The dyke shown parallel to line 6E at its south end is a regional feature, which is shown on the OGS 1 in. = 4 mi. geological compilation map #2205.

RECOMMENDATIONS

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The two potentially prospective horizons, demarcated by the magnetic/nonmagnetic transition zone, are recommended for further investigation. Geochemical soil sampling has recently been completed along the horizons of interest indicated by the magnetics and geology. In the areas of deep overburden, which occur to the north and east of the property, bedrock sediment investigations using percussiontype sampling methods are suggested.

Anomalous areas of interest, if indicated, should be correlated with the structural magnetic interpretation compilation map. Some relationship between structure and/or magnetic response characteristics may be evident. This information could guide further exploration efforts consisting of detailed geochemical sampling, geophysical surveys and geological mapping followed by drilling.

CERTIFICATE OF QUALIFICATIONS

I, Roderick W. Woolham of the town of Pickering, Province of Ontario, do hereby certify;

- (1) That I am a geophysicist and reside at 1463 Fieldlight Blvd., Pickering, Ontario, L1V 2S3.
- (2) That I graduated from the University of Toronto in 1961 with a degree of Bachelor of Applied Science, Engineering Physics, Geophysics Option.
- (3) That I am a member in good standing of the following organizations: The Association of Professional Engineers of the Province of Ontario (Mining Branch); Society of Exploration Geophysicists; South Africa Geophysical Association.
- (4) That I have been practising my profession for a period of more than 20 years.
- (5) That I am an Associate with Derry, Michener, Booth & Wahl, Consulting Geologists and Engineers.
- (6) That I personally was involved with the technical supervision of the survey and wrote the report.
- (7) That I have no direct or indirect interest or expect to receive any in the properties or securities of Grandad Resources Ltd. or any affiliate.
- (8) Permission is given to use this report for assessment and/or qualification requirements.

R'H North

R. W. Woolham B.A.Sc., P.Eng.

DERRY, MICHENER, BOOTH & WAHL



Toronto, Canada December 10, 1984

APPENDIX I

INSTRUMENT SPECIFICATIONS

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VLF Electromagnetic Unit

Pioneered and patented exclusively by Geonics Limited, the VLF method of electromagnetic surveying has been proven to be a major advance in exploration geophysical instrumentation.

Since the beginning of 1965 a large number of mining companies have found the EM16 system to meet the need for a simple, light and effective exploration tool for mining geophysics.

The VLF method uses the military and time standard VLF transmissions as primary field. Only a receiver is then used to measure the secondary fields radiating from the local conductive targets. This allows a very light, one-man instrument to do the job. Because of the almost uniform primary field, good response from deeper targets is obtained.

The EM16 system provides the *in-phase* and *quadrature* components of the secondary field with the polarities Indicated.

Interpretation technique has been highly developed particularly to differentiate deeper targets from the many surface indications.

Principle of Operation

EM16

The VLF transmitters have vertical antennas. The magnetic signal component is then horizontal and concentric around the transmitter location.



Specifications

Source of primary field	VLF transmitting stations.	Reading time	10-40 seconds depending on signal strength.
Transmitting stations used	Any desired station frequency can be supplied with the instrument in the	Operating temperature range	-40 to 50° C.
	form of plug-in tuning units. Two tuning units can be plugged in at one time. A switch selects either station.	Operating controls	ON-OFF switch, battery testing push button, station selector, switch,
Operating frequency range	About 15-25 kHz.		volume control, quadrature, dial ± 40%, inclinometer dial ± 150%.
Parameters measured	(1) The vertical in-phase component (tangent of the tilt angle of the polarization ellipsold).	Power Supply	6 size AA (penlight) alkaline cells. Life about 200 hours.
	(2) The vertical out-of-phase (quadra-	Dimensions	42 x 14 x 9 cm (16 x 5.5 x 3.5 in.)
	ture) component (the short axis of the polarization ellipsoid compared to the long axis).	Weight	1.6 kg (3.5 lbs.)
Method of reading	In-phase from a mechanical Inclino- meter and quadrature from a calibrated dial. Nulling by audio tone.	Instrument supplied with	Monotonic speaker, carrying case, manual of operation, 3 station selector plug-in tuning units (additional fre- quencies are optional), set of batteries.
Scale range	In-phase \pm 150%; quadrature \pm 40%.	Shipping weight	4.5 kg (10 lbs.)
Readability	± 1%.		



GEONICS LIMITED

Designers & manufacturers of geophysical instruments

subsidiary of Deering Milliken Inc. 2 Thorncliffe Park Drive Toronto/Ontario/Canada M4H 1H2 Tel: (416) 425-1821 Cables: Geonic's



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RESOLUTION	1 Gamma.
TOTAL FIELD ACCURACY	± 1 Gamma over full operating range.
RANGE	20,000 to 100,000 gammas in 25 overlapping steps.
INTERNAL MEASURING PROGRAMME	Single reading — 3.7 seconds. Recycling feature permits automatic repetitive readings at 3.7 seconds intervals.
EXTERNAL TRIGGER	External trigger input permits use of sampling intervals longer than 3.7 seconds.
	5 digit LED (Light Emitting Diode) readout dis- playing total magnetic field in gammas or nor- malized battery voltage.
DATA OUTPUT	Multiplied precession frequency and gate time outputs for base-station recording using inter- facing optionally available from Scintrex.
GRADIENT TOLERANCE	Up to 5000 gammas/metre.
POWER SOURCE	8 alkaline "D" cells provide up to 25,000 readings at 25° C under reasonable signal/noise conditions (less at lower temperatures). Premium carbon-zinc cells provide about 40% of this number.
SENSOR	Omnidirectional, shielded, noise-cancelling dual coil, optimized for high gradient tolerance.
HARNESS	Complete for operation with staff or back pack sensor.
OPERATING TEMPERATURE RANGE	35°C to +60°C.
SIZE	Console, with batteries: 80 x 160 x 250mm. Sensor: 80 x 150mm. Staff: 30 x 1550mm. (extended) 30 x 600 mm. (collapsed)
WEIGHTS	Console, with batteries: 1.8kg. Sensor: 1.3kg. Staff: 0.6kg.

SCINTREX LIMITED 222 Snidercroft Road, Concord, Ontario, Canada L4K 1B5 TELEPHONE (416) 669-2280, TELEX 06-964570

APPENDIX II

TECHNICAL DATA STATEMENT

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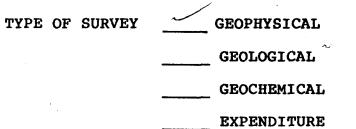
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Mining Lands Section

File No 2.7608

Control Sheet



MINING LANDS COMMENTS:

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Signature of Assessor

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Date

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Ministry of Natural Resources

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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.

Claim Holder(s) <u>Grandad</u>	nd Garrison Townships Resources Limited	MINING CLAIMS TRAVERSED List numerically
Survey Company R. Moore		L 737509 (prefix) (number)
Author of Report <u>R. W. WO</u> Address of Author <u>20 Richm</u>		to
	·	517
	1 to August 15, 1984 (linecutting to office)	737529
Total XXIEX of Line Cut 91.0	<u>km</u>	to 548
SPECIAL PROVISIONS	DAYS	738103
CREDITS REQUESTED	Geophysical per claim	to 112
ENTER 40 days (includes	-Electromagnetic	738114
line cutting) for first	–Magnetometer20 –Radiometric	+- 110
survey.		to 119
ENTER 20 days for each additional survey using		
same grid.	Geological Geochemical	
AIRBORNE CREDITS (Special pro	vision credits do not apply to airborne surveys)	
MagnetometerElectroma	gnetic Radiometric	
	r days per claim)	
DATE: December 10/84 SIGN	ATURE:	

Res. GeolQual	lifications <u>63.1718</u>	
Res. GeolQual Previous Surveys	lifications63.1718	
•	lifications <u>63.1718</u> Claim Holder	
Previous Surveys		

GEOPHYSICAL TECHNICAL DATA

GROUND SI	<u>JRVEYS</u> – If more	than one survey	, specify data	for each type	of survey	
Number of St	ations Mag/6400	VLF/32(00	Number of F	Readings Mag 64	00/VLF6400
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INDUCED POLARIZATION

SELF POTENTIAL	
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RADIOMETRIC	
Instrument	
Energy windows (levels)	
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Size of detector	
Overburden	
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vpe of survey	(type, depth - include outcrop map) L LOGGING ETC.) tanding results) (specify for each type of survey) (specify for each type of survey)
ype of survey	(type, depth – include outcrop map) L LOGGING ETC.) tanding results) (specify for each type of survey) (specify for each type of survey)
ype of survey	(type, depth - include outcrop map) L LOGGING ETC.) tanding results) (specify for each type of survey) (specify for each type of survey) (specify for each type of survey) method
vpe of survey	(type, depth – include outcrop map) L LOGGING ETC.) tanding results) (specify for each type of survey) (specify for each type of survey)

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken_____

Fotal Number of Samples	ANALYTICAL METHODS
Fype of Sample(Nature of Material)	<u>ANALI IICAL METHODS</u>
(Nature of Material) Average Sample Weight	p. p. m.
Method of Collection	p. p. s. 🗀
	Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)
Soil Horizon Sampled	Others
lorizon Development	Field Analysis (tests
Sample Depth	Extraction Method
Cerrain	Analytical Method
	Reagents Used
Drainage Development	Field Laboratory Analysis
Estimated Range of Overburden Thickness	No. (test
	Extraction Method
	Analytical Method
	Reagents Used
SAMPLE PREPARATION	Commercial Laboratory (test
(Includes drying, screening, crushing, ashing)	Name of Laboratory
Mesh size of fraction used for analysis	Extraction Method
	Analytical Method
	Reagents Used
	General
General	

GRANDAD RESOURCES LIMITED SUITE 709, 185 BAY STREET TORONTO ONTARIO M5J 1K6

December 15,1984

Land Management Branch Mining Lands Section Ministry of Natural Resources Rm 6610, Whitney Block Queen's Park Toronto, Ontario M7A 1W3

Re: Assessment Work 45 Claims - Garrison & Harker Township Larder Lake Mining Division

Gentlemen:

Enclosed are two copies of a Technical Report by R. Woolham, geophysicist, covering geophysical surveys on the Ghost River property in Garrison & Harker Townships, Ontario which we are submitting for assessment work.

Yours truly,

Grandad Resources Limited

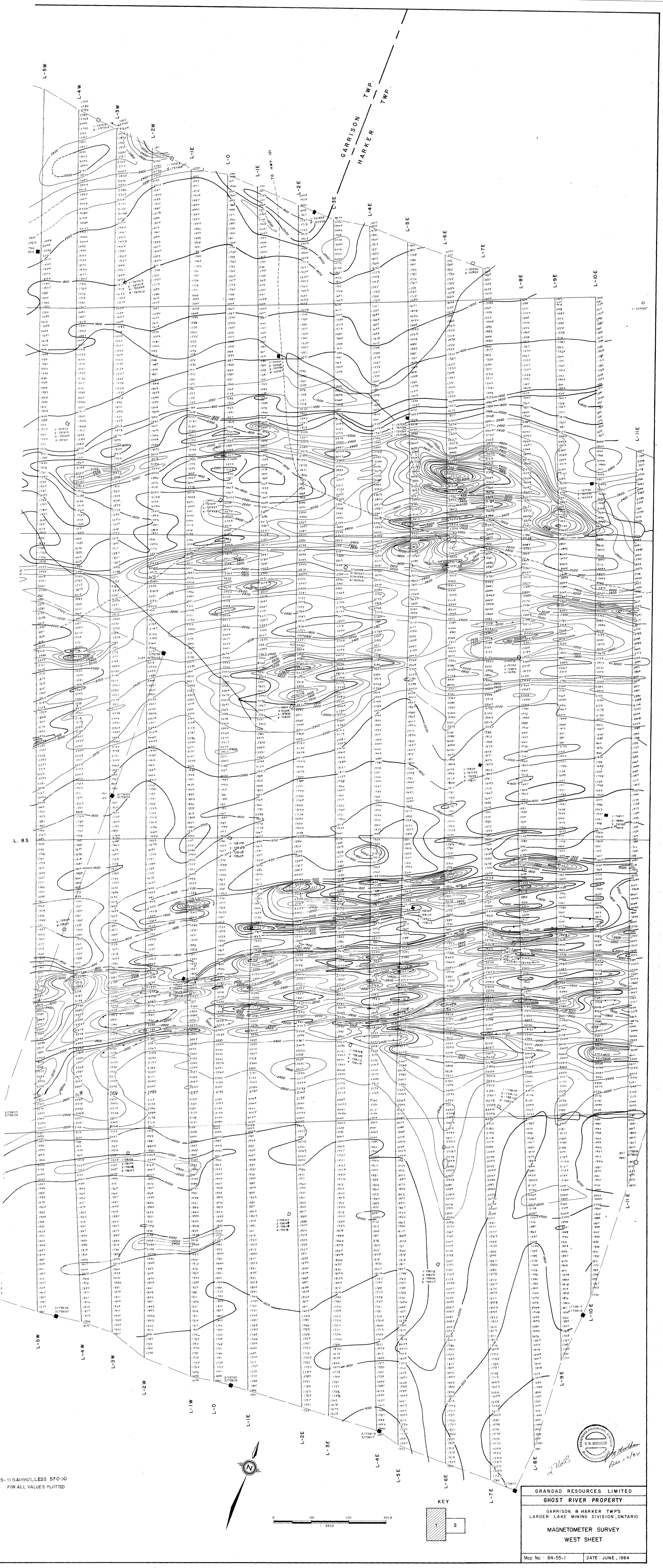
Ishapley

F.J. Sharpley

RECEIVED

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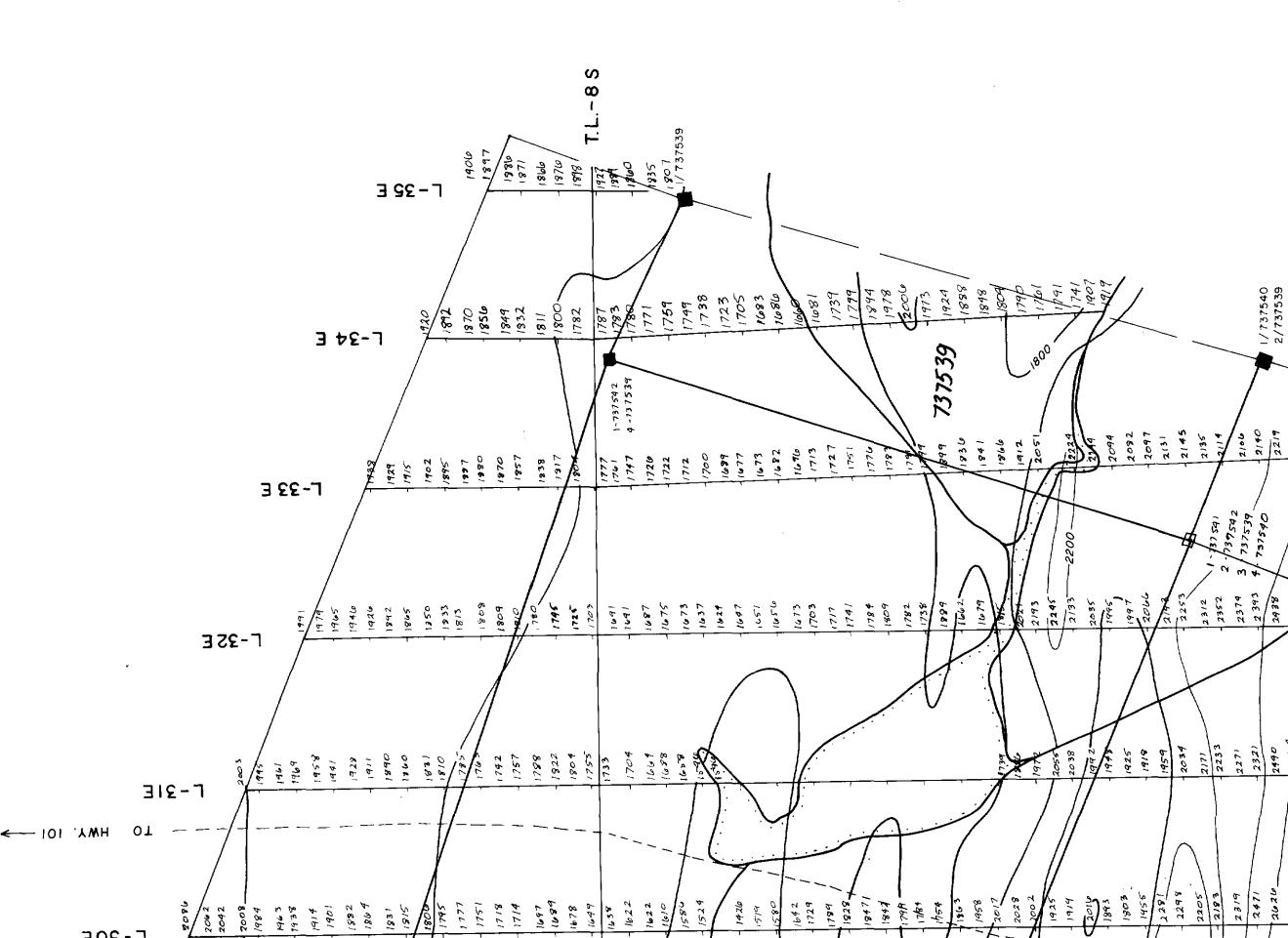
MINING LANDS SECTION



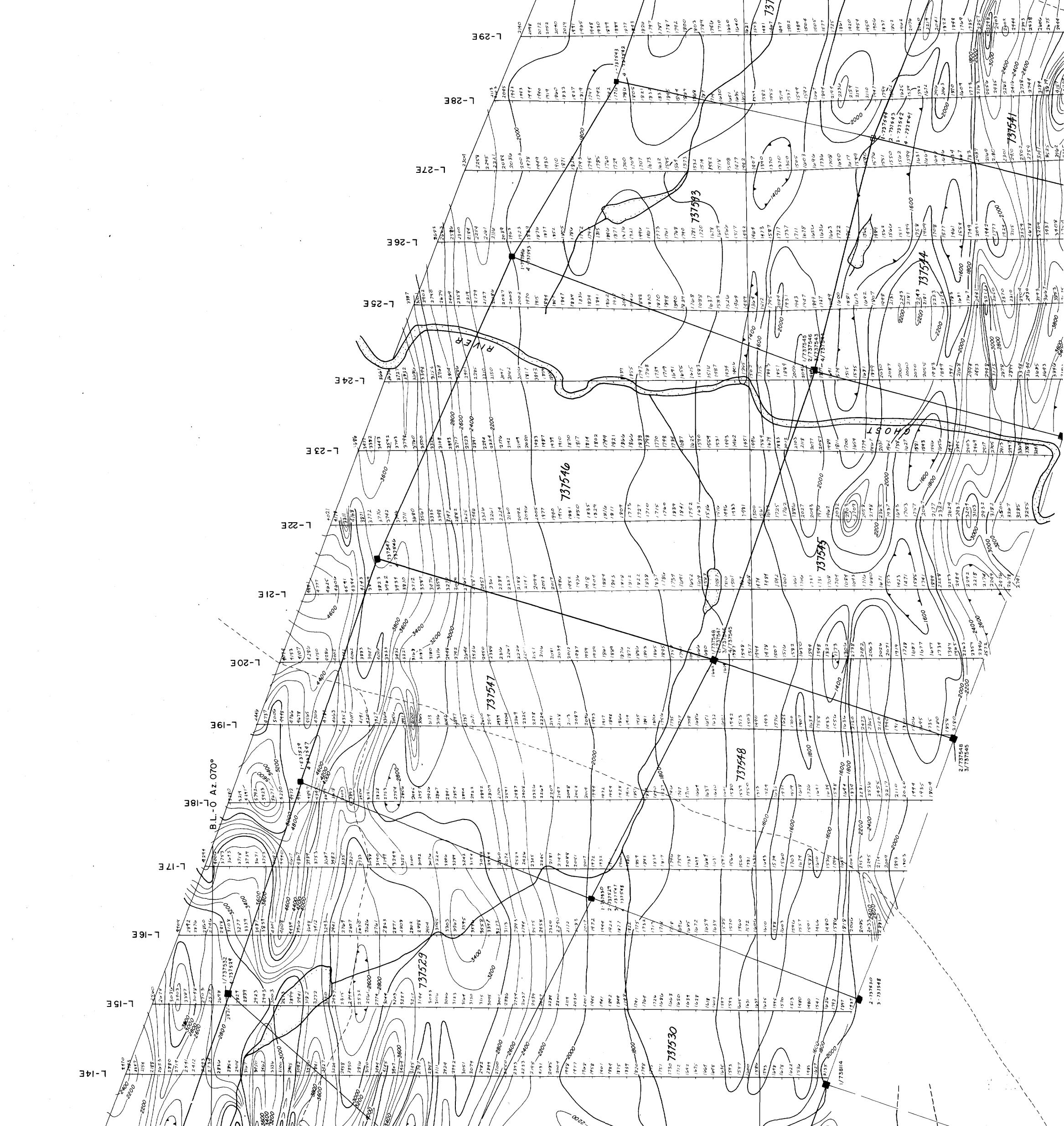
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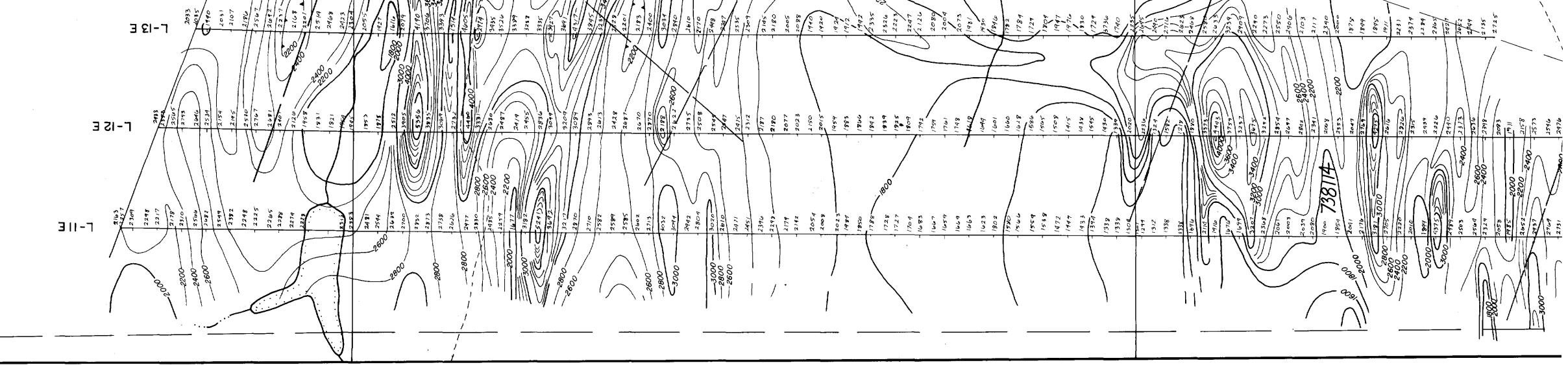


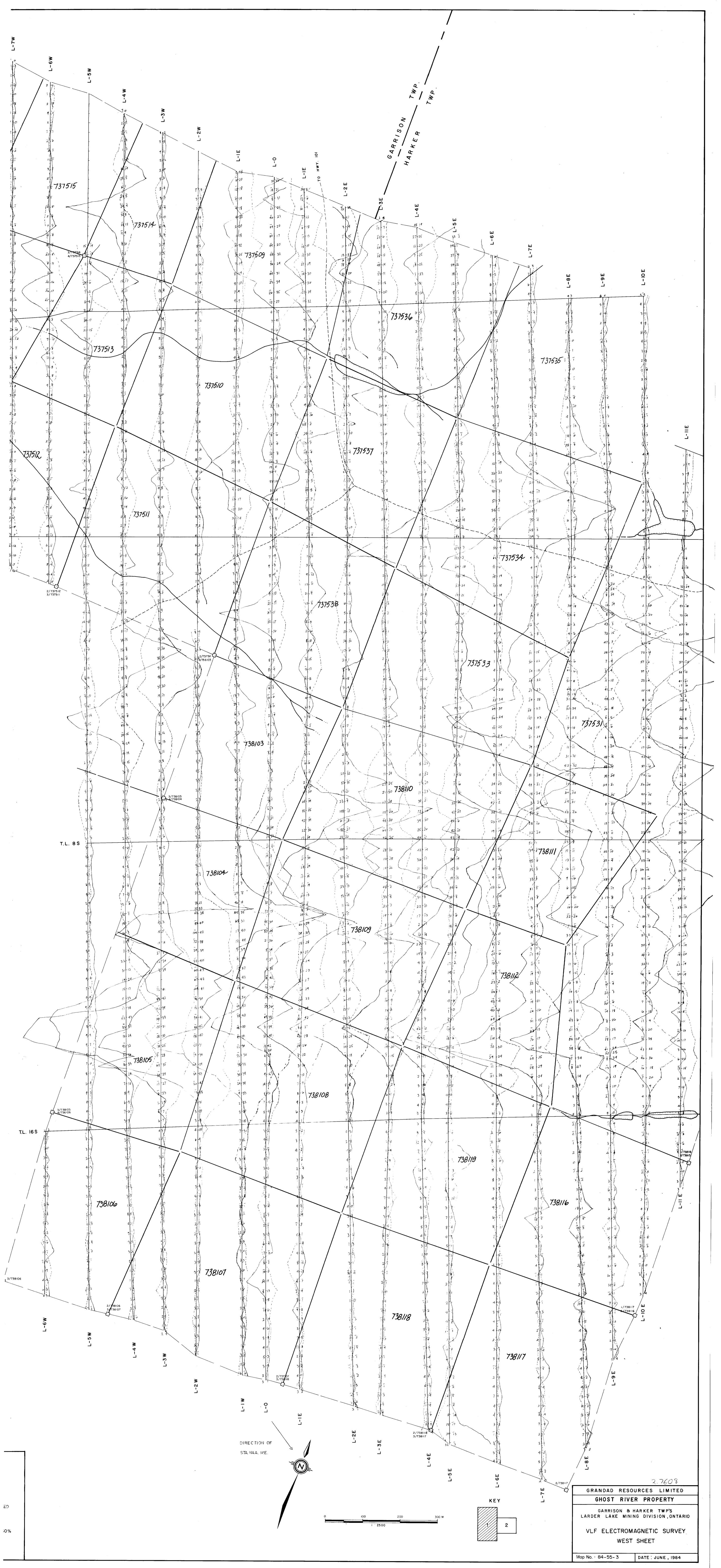




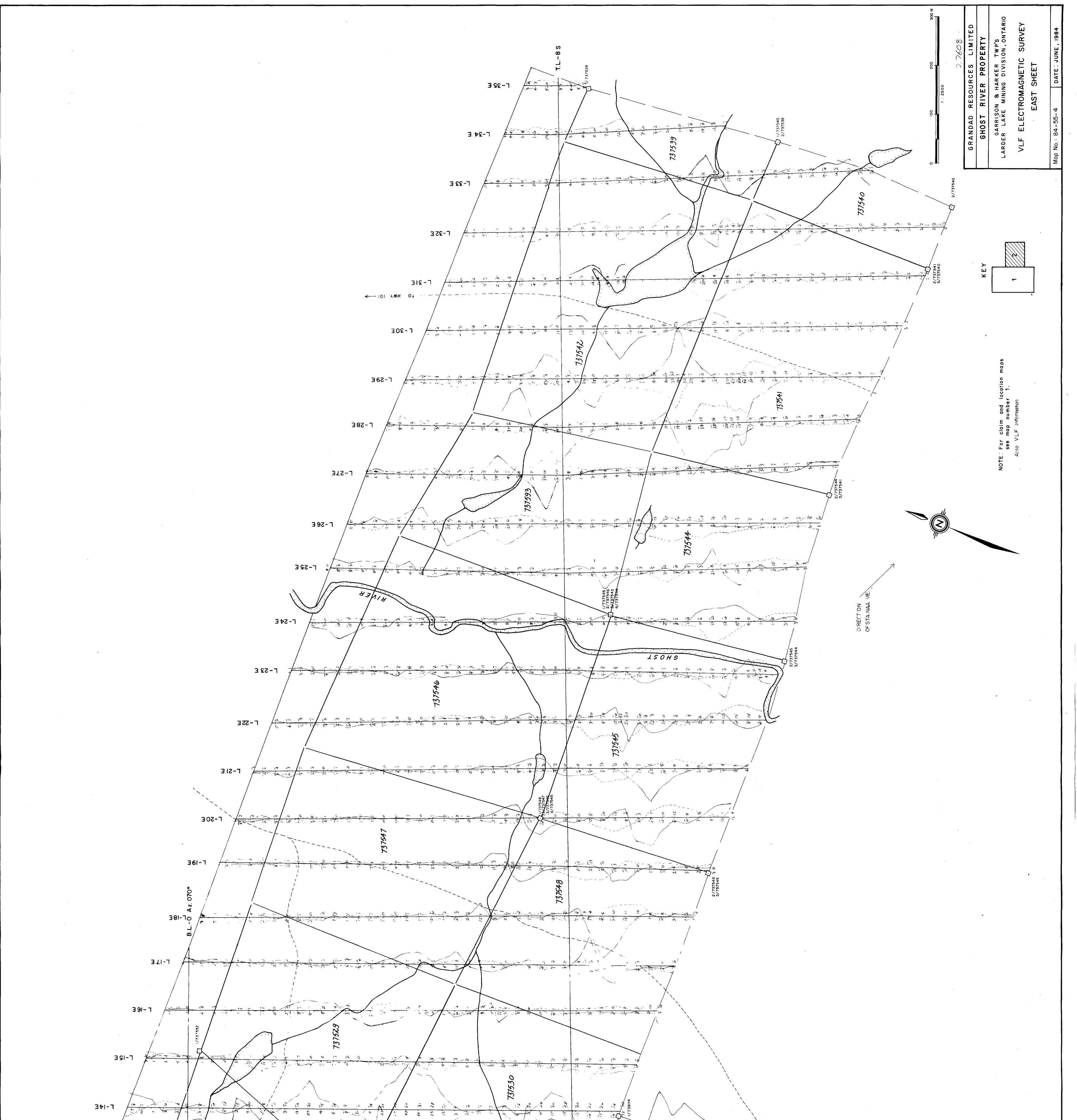
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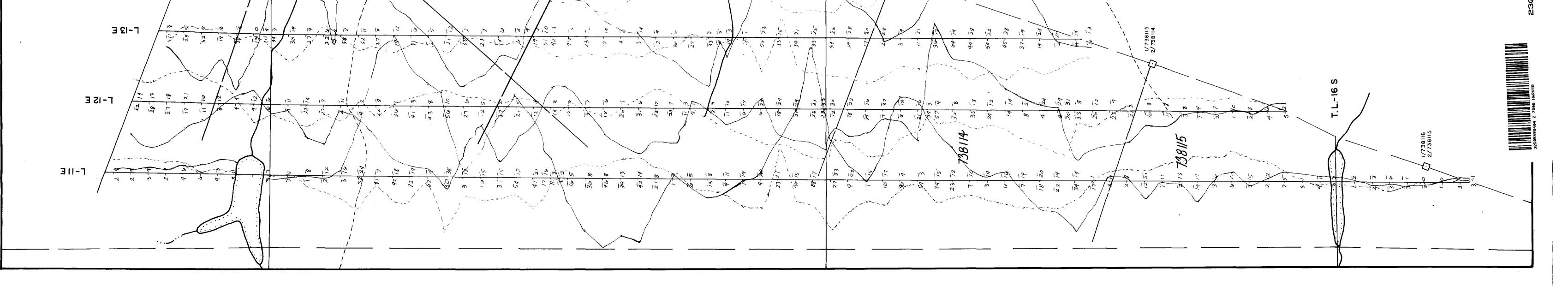


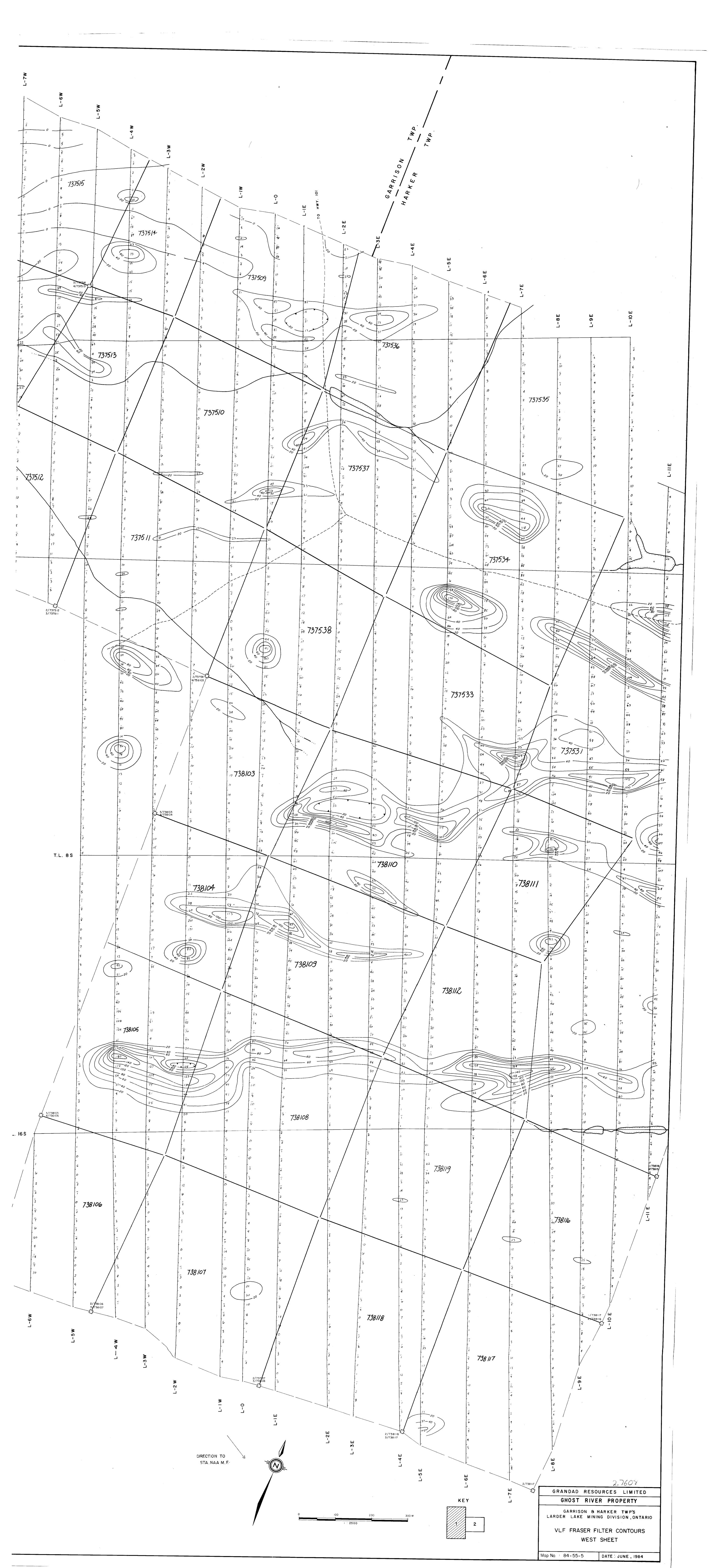


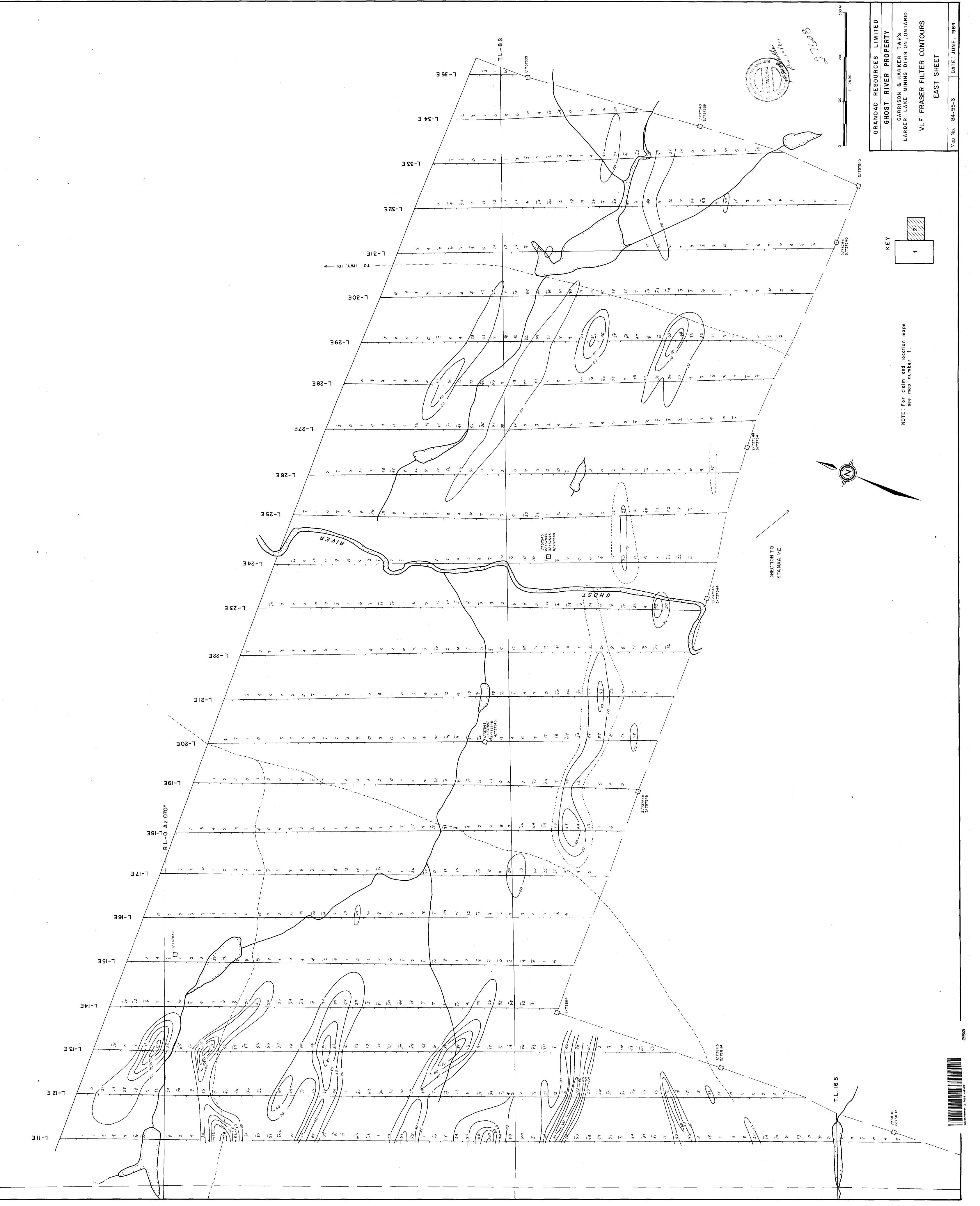
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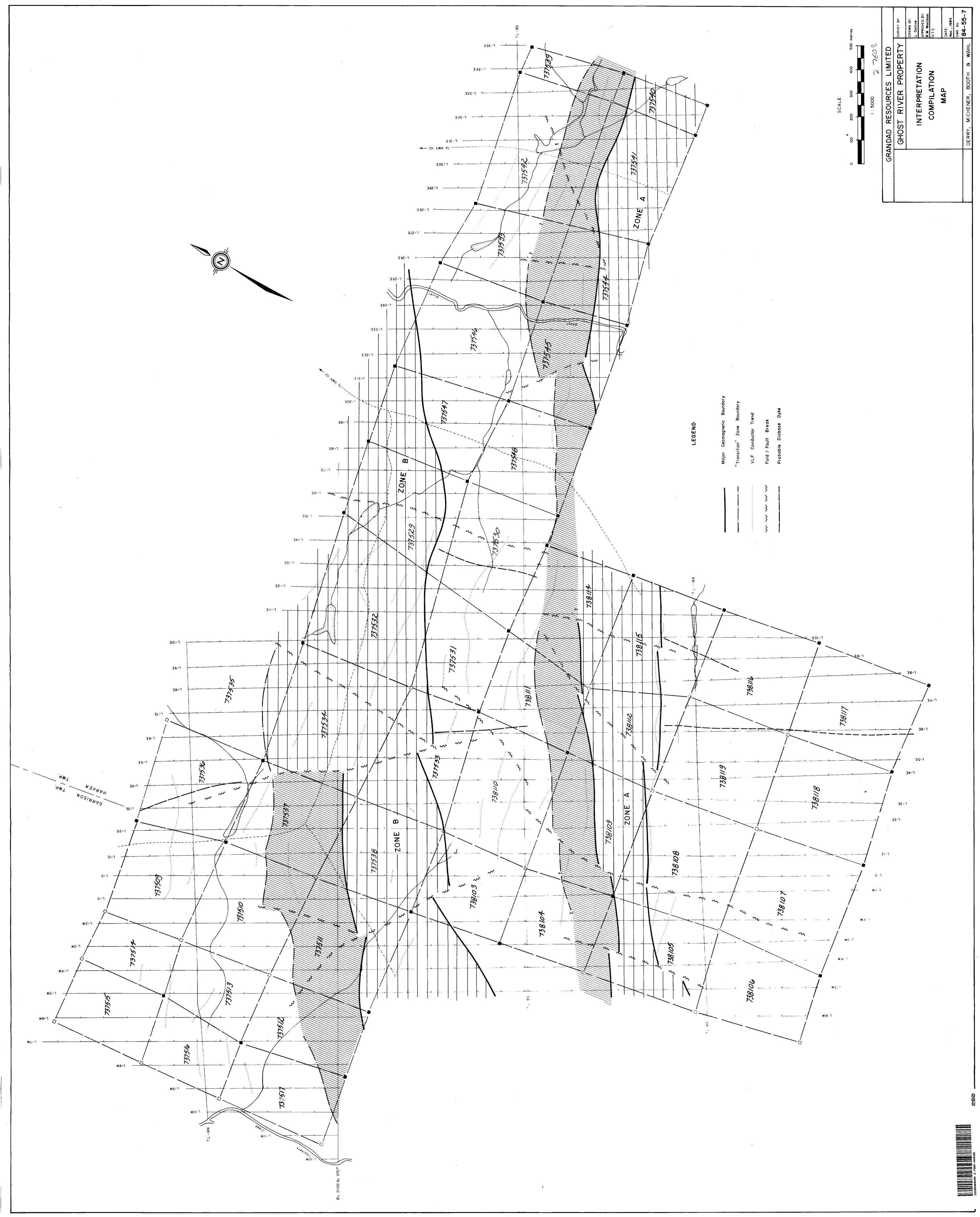


يري مصفيتين بالمراجع المراجع



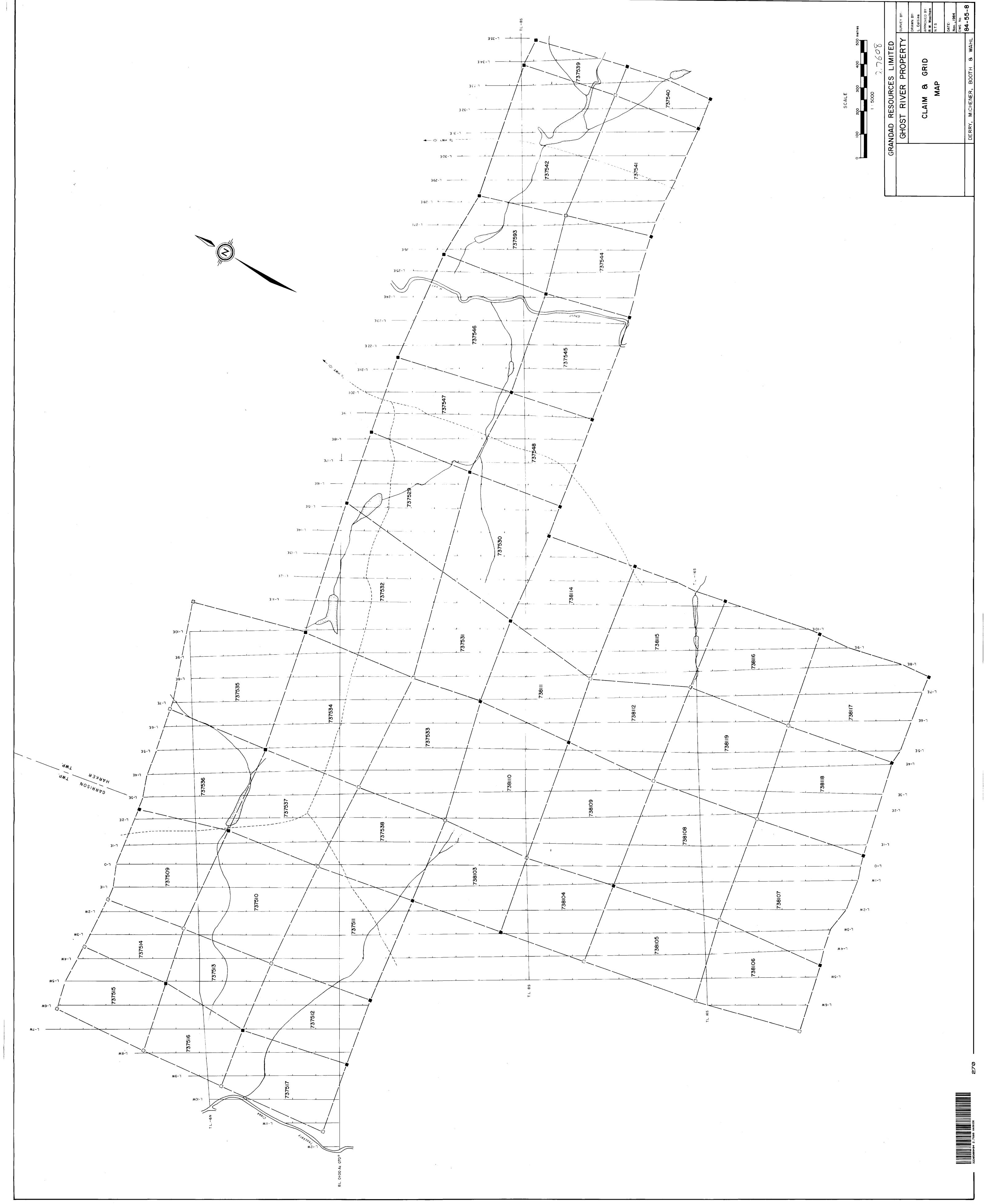






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