



42A10NE0010 2.7562 WILKIE

010

KIDD CREEK MINES LTD.

GEOPHYSICAL REPORT

ON

WILKIE 22

WILKIE TOWNSHIP

N.T.S.: 42-A-10

PROJECT NO. 932

RECEIVED

DEC 13 1984

MINING LANDS SECTION

DECEMBER, 1984

M. W. ZANG

SUMMARY AND RECOMMENDATIONS

Geophysical surveys consisting of proton precession magnetometer, VLF electromagnetic and horizontal loop electromagnetic traverses were conducted in Wilkie Township. A total of four poor to moderately conductive zones were detected in this survey.

It is recommended that a systematic in-loop DEEPEM survey be carried out on the existing grid to search for conductors hidden by the conductive overburden. Also, any of the drill holes mentioned in the previous work review, that still have collars, should be borehole surveyed. As well, the HEM survey coverage should be extended, during the winter months, to cover the areas made inaccessible by open water.



42A10NE0010 2.7562 WILKIE

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INTRODUCTION

A proton precession magnetometer, VLF electromagnetic and horizontal loop electromagnetic survey was carried out in August, 1984 over 37 contiguous staked claims in southwest Wilkie Township and southeast Walker Township. The property extends from Lot 9, Concession II Wilkie Township westward to Lot 2, Concession II, Walker Township. The following is a list of the claims covered in this report.

L 758209, 210, 212, 213, 214, 216, 217, 218

L 758220 to 758229 inclusive

L 790110 to 790118 inclusive

L 618113 to 618122 inclusive

Access to the property was attained by boat along the Black and Shallow Rivers.

People involved in the field work include B. Campbell, R. Daigle and B. Pigeon.

PREVIOUS WORK (W. K. Smith)

1939 Three showings were described by D. K. Burke of Sylvanite Gold Mines. They occur in Lot 10

- and S1/2 Lot 11, Concession II, Wilkie Township.
- 1960 Texasgulf Sulphur Company conducted an extensive airborne electromagnetic survey which included Wilkie Township.
- 1962 Noranda Exploration drilled two holes into their corresponding magnetic - electromagnetic anomaly, located in NW quarter N1/2 Lot 12, Concession II. Both holes intersected conductive graphite zones.
- 1964 - 65 Monpre Mining Company drilled two holes intending to intersect their electromagnetic anomalies located in SE quarter S1/2 Lot 1, Concession II, Walker Township. Both holes intersected predominantly mafic volcanics hosting minor sulphides.
- 1965 Continental Copper Mines drilled a hole in the NW quarter N1/2 Lot 9, Concession II, Wilkie Township which intersected mafic volcanic rocks.
- 1970 Hecla Mining Company drilled one hole in the NW quarter S1/2 Lot 10, Concession II, Wilkie Township. It intersected "massive mafic metavolcanics".

- 1972 - 73 Noranda Mines Exploration drilled one hole NW quarter S1/2 Lot 10, Concession II, Wilkie Township. It was intended to undercut a chalcopyrite showing. One other hole was drilled in the SW quarter N1/2 Lot 10, Concession II, Wilkie Township. It intersected mainly mafic volcanics containing numerous weakly conductive graphite sections.
- 1977 Hollinger Mines drilled one hole in the SE quarter N1/2 Lot 10, Wilkie Township, intending to intersect an electromagnetic conductor. The hole intersected a graphitic zone hosting pyrite at the contact between ultramafic and felsic rocks. One other hole aimed at another conductor located in the northwest quarter N1/2 Lot 10, Concession II, intersected predominantly felsic volcanics.
- 1978 A Hollinger Mines airborne input survey traced a conductor in N1/2 Lot 12, Concession II, Wilkie Township which was drilled by Noranda in 1962.
- 1983 Kidd Creek Mines optioned 10 claims in Lots 10 and 11, Concession II, Wilkie Township. One hole was drilled in SW quarter N1/2 Lot 10, Concession II. It intersected predominantly

felsic volcanics. Seventy-four more claims were staked along strike to the east and west.

SURVEY DESCRIPTION

An east-west base line was established with crosslines cut at 100 metre intervals and stations established every 20 metres.

Magnetic readings were taken with a Scintrex IGS-2/MP-4 proton precession magnetometer. This instrument measures the Earth's total magnetic field to an accuracy of ± 0.1 nanoteslas. The diurnal drift corrections were made using a base station recorder. A total of 3424 readings were taken along 65.06 kilometres of line.

The VLF survey was carried out with a Scintrex IGS-2/VLF-4 electromagnetic receiver. This instrument measures the amplitude of the horizontal field vector as well as the amplitude of the component of the vertical field vector which is in phase and 90 degrees out of phase with the horizontal vector. All readings are taken to an accuracy of ± 0.1 percent. The in phase reading of the vertical field vector is converted into a dip angle measurement. A profile plot of these dip angles is given in this report. A total of 3424 stations were sampled along 65.06 kilometres of line.

The horizontal loop survey was carried out with an Apex Parametrics Max Min II using a coil separation of 200 metres. Readings were taken every 40 metres (20 metres in anomalous areas) at frequencies of 444 and 1777 Hz. A total of 1785 stations were sampled along 55.56 kilometres of line.

SURVEY RESULTS

The horizontal loop survey detected four conductive zones, labelled A, B, C and D in Figure 1. An interpretation of these anomalies is given in Tables 1 and 2.

Anomaly A, found on Lines 10000E, 10100E, 10200E and 10300E (Table 1), represents a bedrock conductor with moderate conductivity thickness. The profiles suggest that the anomaly is produced from two or more closely spaced parallel conductors. The conductor is found on the south edge of a zone of high magnetic susceptibility (Figure 2). Noranda Exploration appears to have drilled two holes into this conductor (W62-1 and W62-2). Both holes intersected conductive graphite on the margin of an ultramafic unit.

Anomaly B, found on Line 12500E (Table 1), represents a bedrock conductor with poor conductivity thickness. As seen in the 1777 Hz HEM results (Figure 1) the conductor is found within a series of overburden anomalies which may mask

the bedrock response. Hollinger Mines drilled one hole (WI-1-1-77) 100 metres west of the anomaly. The hole intersected a graphitic zone hosting pyrite at the contact between ultramafic and felsic rocks.

Anomaly C, found on Line 12900E, 13000E and 13100E (Table 2), represents a questionable bedrock conductor with poor conductivity thickness. This zone is found on the north side of a bedrock ridge response and may represent an accumulation of conductive clays within a bedrock low.

Anomaly D, found on Line 12000E (Table 2), represents another questionable bedrock conductor with poor conductivity thickness. In general, all of the HEM results are greatly influenced by conductive overburden or bedrock ridge responses.

As seen in Figure 2, the magnetic picture is dominated by two north-south and two northeast-southwest striking diabase dikes. The east-west trending magnetic highs found in claims L-790117, 790110 and 758213 represent magnetite rich, ultramafic rocks. Of all the HEM anomalies only anomaly A has a corresponding magnetic expression.

As seen in Figure 3, numerous VLF electromagnetic anomalies occur in the survey results. Since none of these

correspond with any HEM anomalies and due to the radical variations in overburden thickness, the VLF anomalies probably represent poorly conductive bedrock structures or surficial conductors.

Michael W. Zang
M. W. ZANG

TABLE 1

ANOMALY A WILKIE 22 HEM 444 Hz 200 m Coil Separation

Line	Anomaly Center	Anomaly Width	Indicated Depth	I. P Max.	O. P Max.	Response Parameter	Conductivity Thickness	Remarks
10000E	11350N	20m ?	24m ?	-3	-7	1.5	2 mhos	Assume all dips 90°.
10100E	11355N	10m ?	30m ?	-13	-16	5	7 mhos	Response is of multiple conductors.
10200E	11365N	25m ?	30m ?	-13	-16	5	7 mhos	
10300E	11400N	40m ?	40m ?	-5	-8	3	4 mhos	

ANOMALY B WILKIE 22 HEM 444 Hz 200 m Coil Separation

Line	Anomaly Center	Anomaly Width	Indicated Depth	I. P Max.	O. P Max.	Response Parameter	Conductivity Thickness	Remarks
12500E	11310N	Thin	20m	-4	-9	2	3 mhos	Assume dip 90°.

TABLE 2

ANOMALY C WILKIE 22 HEM 444 Hz 200 m Coil Separation

Line	Anomaly Center	Anomaly Width	Indicated Depth	I. P Max.	O. P Max.	Response Parameter	Conductivity Thickness	Remarks
12900E	10940N	Thin	20m	-8	-14	3	4 mhos	Assume all dips 90°
13000E	10940N	Thin	20m	-9	-22	2.5	4 mhos	Possible overburden response
13100E	10920N	Thin	20m	-6	-15	2	3 mhos	

ANOMALY D WILKIE 22 HEM 444 Hz 200 m Coil Separation

Line	Anomaly Center	Anomaly Width	Indicated Depth	I. P Max.	O. P Max.	Response Parameter	Conductivity Thickness	Remarks
12000E	10570N	Thin	20m	-4	-10	1.5	2 mhos	Assume dip 90°. Possible overburden response



Ontario

Lands Management
Ministry of Natural Resources
Report of Work

(Geophysical, Geological,
Geochemical and Expenditures)

W84 08 00512

Instructions: - Please type or print.

Jan 12 00
#512

File

The Min



42A10NE0010 2.7562 WILKIE

900

Type of Survey(s)
GEOPHYSICAL

Claim Holder(s)
Kidd Creek Mines Ltd.

Prospector's Licence No.
T-1848

Address
P.O. Box 1140, 571 Moneta Avenue, Timmins, Ontario P4N 7H9

Survey Company
Kidd Creek Mines Ltd.

Date of Survey (from & to)
26 07 84 10 08 84
Day Mo. Yr. Day Mo. Yr.

Total Miles of line Cut
84.72 km

Name and Address of Author (of Geo-Technical report)
M. W. Zang, 571 Moneta Avenue, P.O. Box 1140, Timmins, Ontario P4N 7H9

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	40
	- Magnetometer	40
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Electromagnetic	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
L	758229		L	758214	
	758228			758213	
	758227			758212	
	758226			758210	
	758225			758209	
	758224			790118	
	758223			790117	
	758222			790116	
	758221			790115	
	758220			790114	
	618122			790113	
	618121			790112	
	618120			790111	
	618119			790110	
	618118				
	618117				
	618116				
	618115				
	618114				
	618113				
	758218				
	758217				
	758216				

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MINING LANDS SECTION

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. 37

For Office Use Only

Total Days Cr. Recorded: 2960

Date Recorded: NOV 13 1984

Date Approved as Recorded: see revised statement

Mining Recorder: [Signature]

Branch Director: [Signature]

Date: Nov. 8/84

Recorded Holder or Agent (Signature): Michael Zang

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 hereto, 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
Michael W. Zang, P.O. Box 1140, 571 Moneta Avenue, Timmins, Ontario

P4N 7H9

Date Certified: Nov. 8/84

Certified by (Signature): Michael Zang

Mining Lands Section

File No 2.7562

Control Sheet

TYPE OF SURVEY

GEOPHYSICAL
 GEOLOGICAL
 GEOCHEMICAL
 EXPENDITURE

MINING LANDS COMMENTS:

1 - VLF 20
1 - HIEM 20
1 - MAG 40

L.D.

Perry
Signature of Assessor

19/12/84
Date

1985 01 16

Your File: 512
Our File: 2.7562

Mining Recorder
Ministry of Natural Resources
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

RE: Notice of Intent dated December 27, 1984.
Geophysical (Electromagnetic & Magnetometer)
Survey on Mining Claims L 618113 et al in
Wilkie Township & Walker Township.

The assessment work credits, as listed with the
above-mentioned Notice of Intent, have been approved
as of the above date.

Please inform the recorded holder of these mining
claims and so indicate on your records.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416) 965-6978

D. Isherwood:sc

cc: Kidd Creek Mines Limited
P.O. Box 1140
571 Moneta Avenue
Timmins, Ontario
P4H 7J9
Attn: K.W. Zang

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

cc: Resident Geologist
Kirkland Lake, Ontario

Recorded Holder
KIDD CREEK MINES LTD

Township or Area
WILKIE, WALKER TOWNSHIPS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic <u>HEM</u> <u>20</u> days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	L 618113 618116 618118 to 121 inclusive 758209-210 758212-213 758216 to 218 inclusive 758220 to 229 inclusive 790110 to 113 inclusive 790115 to 117 inclusive

Special credits under section 77 (16) for the following mining claims

<u>10 DAYS</u>	<u>5 DAYS</u>
L 618117 618122 790114	L 618114-115 758214 790118

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77 (19)—60:

Recorded Holder
KIDD CREEK MINES LTD

Township or Area
WILKIE, WALKER TOWNSHIPS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ VLF 20 days	L 618113 to 122 inclusive
Magnetometer _____ 40 days	758209 - 210
Radiometric _____ days	758212 to 214 inclusive
Induced polarization _____ days	758216 to 218 inclusive
Other _____ days	758220 to 229 inclusive
	790110 to 113 inclusive
	790115 to 117 inclusive
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
Man days <input type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/>	
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

<u>10 DAYS ELECTROMAGNETIC</u> <u>20 DAYS MAGNETOMETER</u>	<u>5 DAYS ELECTROMAGNETIC</u> <u>10 DAYS MAGNETOMETER</u>
L 790114	L 790118

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77 (19)—60:



Jan 11/85

1984 12 27

Your File: 512
Our File: 2.7562

Mining Recorder
Ministry of Natural Resources
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

D. Isherwood:mc

Encls.

cc: Kidd Creek Mines Ltd
P.O. Box 1140
571 Moneta Avenue
Timmins, Ontario
P4N 7H9
Attention: M.W. Zang

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario



Ministry of
Natural
Resources

Ontario

Notice of Intent
for Technical Reports
1984 12 27
2.7562/512

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



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 Survey(s) Geophysical
Township or Area Wilkie Township
Claim Holder(s) Kidd Creek Mines Ltd.
571 Moneta Ave., Timmins, Ontario P4N 7H9
Survey Company Kidd Creek Mines Ltd.
Author of Report Michael W. Zang
Address of Author P.O. Box 1140, Timmins, Ontario
Covering Dates of Survey 26/07/84 to 10/08/84
(linecutting to office)
Total Miles of Line Cut 84.72 Km

MINING CLAIMS TRAVERSED	
List numerically	
L - 758209 ✓	L-790114 ✓
<small>(prefix)</small>	<small>(number)</small>
L - 758210 ✓	L-790115 ✓
L - 758212 ✓	L-790116 ✓
L - 758213 ✓	L-790117 ✓
L - 758214 ✓	L-790118 ✓
L - 758216 ✓	L-618113 ✓
L - 758217 ✓	L-618114 ✓
L - 758218 ✓	L-618115 ✓
L - 758220 ✓	L-618116 ✓
L - 758221 ✓	L-618117 ✓
L - 758222 ✓	L-618118 ✓
L - 758223 ✓	L-618119 ✓
L - 758224 ✓	L-618120 ✓
L - 758225 ✓	L-618121 ✓
L - 758226 ✓	L-618122 ✓
L - 758227 ✓	
L - 758228 ✓	
L - 758229 ✓	
L - 790110 ✓	
L - 790111 ✓	
L - 790112 ✓	
L - 790113 ✓	
TOTAL CLAIMS <u>37</u>	

If space insufficient, attach list

<u>SPECIAL PROVISIONS</u>	<u>DAYS</u>
<u>CREDITS REQUESTED</u>	<u>per claim</u>
Geophysical	
-Electromagnetic	<u>40</u>
-Magnetometer	<u>40</u>
-Radiometric	
-Other	
Geological	
Geochemical	

ENTER 40 days (includes line cutting) for first survey.
ENTER 20 days for each additional survey using same grid.

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Dec 7/84 SIGNATURE: Michael W. Zang
(Author of Report or Agent)

Res. Geol. _____ Qualifications 24262

Previous Surveys

File No.	Type	Date	Claim holder

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MINING LANDS SECTION

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations 3320 Number of Readings Mag:3424 VLF: 3424 HL:3570
Station interval 20 metres Line spacing 100 metres
Profile scale VLF: 1 cm = 20 degrees, HL 444Hz; 1 cm = 20% 1777Hz; 1 cm = 40%
Contour interval

MAGNETIC

Instrument Scintrex IGS-2/MP-4 Proton Precession Magnetometer
Accuracy - Scale constant + 0.1 gamma
Diurnal correction method Base Station Recorder
Base Station check-in interval (hours) 30 seconds
Base Station location and value Line 11200E, 10300N, 58942 gammas

ELECTROMAGNETIC

Instrument Apex Parametrics MaxMin II
Coil configuration Horizontal Loop
Coil separation 200 metres
Accuracy + 1%
Method: [] Fixed transmitter [] Shoot back [x] In line [] Parallel line
Frequency 444 and 1777 Hz (specify V.L.F. station)
Parameters measured Secondary field as a percent of the primary field

GRAVITY

Instrument
Scale constant
Corrections made
Base station value and location
Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument
Method [] Time Domain [] Frequency Domain
Parameters - On time Frequency
- Off time Range
- Delay time
- Integration time
Power
Electrode array
Electrode spacing
Type of electrode

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 map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____ Electromagnetic _____

Instrument _____ Scintrex IGS-2/VLF-4 _____

Accuracy _____ $\pm 0.1\%$ _____

Parameters measured The horizontal amplitude and the amplitude of the component of the vertical field vector which is inphase and 90° out-of-phase with the horizontal vector.

Additional information (for understanding results) Station Utilized: Cutler Main 24.0kHz

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____
(specify for each type of survey)

Accuracy _____
(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

Kidd Creek Mines Ltd.

Box 1140
571 Moneta Avenue,
Timmins, Ontario P4N 7H9
(705) 267-1188

Exploration Division

December 12, 1984

Mr. Fred Matthews
Director, Land Management Branch
Whitney Block, Room 6450
Queen's Park
TORONTO, Ontario
M7A 1W3

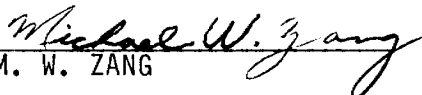
Dear Sir:

Re: WILKIE TOWNSHIP

Enclosed please find duplicate copies of a report and maps covering claims in Wilkie Township. The claims aforementioned are L-758209, L-758210, L-758212 to L-758214 inclusive, L-758216 to L-758218 inclusive, L-758220 to L-758229 inclusive, L-790110 to L-790118 inclusive, L-618113 to L-618122 inclusive.

Your prompt attention to this matter would be greatly appreciated.

Yours very truly,


M. W. ZANG

MWZ/pp
Encls.

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MINING LANDS SECTION

Kidd

2.7562

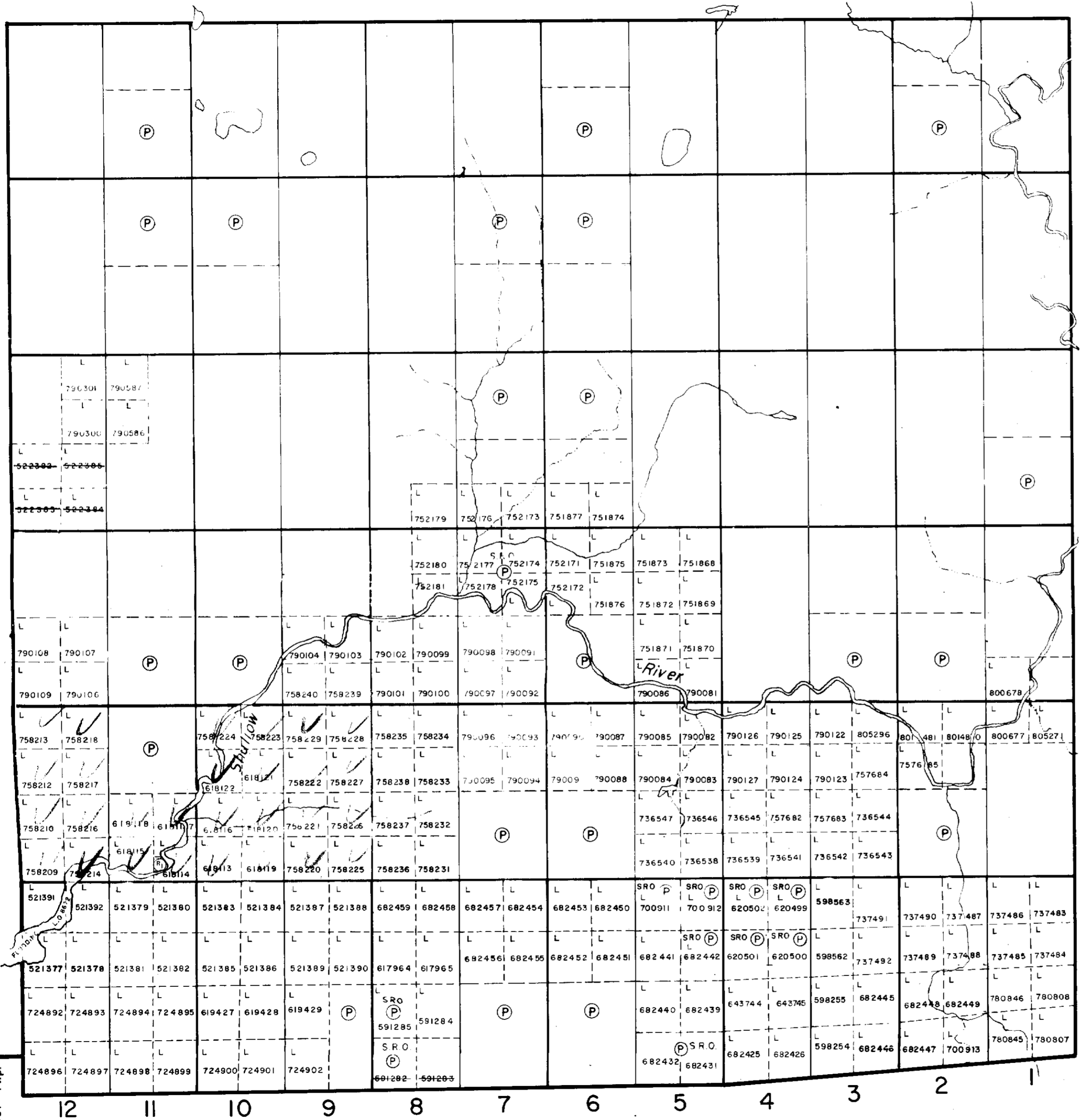
	cm	mag	h _{lim}		cm	mag	h _{lim}		cm	mag	h _{lim}
758 229	✓	✓	✓	618 122	1/4	1/4	2/4	790 118	3/4	3/4	3/4
228	✓	✓	✓	121	✓	✓	✓	117	✓	✓	✓
227	✓	✓	✓	120	✓	✓	1/4	116	✓	✓	✓
226	✓	✓	✓	119	✓	✓	✓	115	✓	✓	✓
225	✓	✓	✓	118	✓	✓	✓	114	2/4	2/4	2/4
224	1/4	1/4	1/4	117	1/4	1/4	2/4	113	✓	✓	✓
223	✓	✓	✓	116	✓	✓	✓	112	✓	✓	✓
222	✓	✓	1/4	115	✓	✓	3/4	111	✓	✓	✓
221	✓	✓	1/4	114	✓	✓	3/4	110	✓	✓	✓
220	✓	✓	✓	113	✓	✓	✓				
				758 218	1/4	1/4	1/4				
				217	✓	✓	✓				
				216	✓	✓	✓				
				214	1/4	1/4	3/4				
				213	1/4	1/4	1/4				
				212	✓	✓	✓				
				210	✓	✓	✓				
				209	✓	✓	✓				

803 M

WILKIE Twp.

W 398

Rickard Twp.



VI

V

IV

III

II

I

Coulson Twp.

THE TOWNSHIP OF

WILKIE

DISTRICT OF COCHRANE

LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

PATENTED LAND	Ⓟ
CROWN LAND SALE	C.S.
LEASES	Ⓛ
LOCATED LAND	Loc
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	— — — — —
IMPROVED ROADS	— — — — —
KING'S HIGHWAYS	— — — — —
RAILWAYS	— — — — —
POWER LINES	— — — — —
MARSH OR MUSKEG	— — — — —
MINES	Ⓜ

NOTES

400' Surface rights reservation around all lakes and rivers.

AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
SEC 36/80	W.82/84	17/4/84	M.S.	171506

DEC 1 1984

TITLES ROOM

PLAN NO.- M.398

ONTARIO MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH

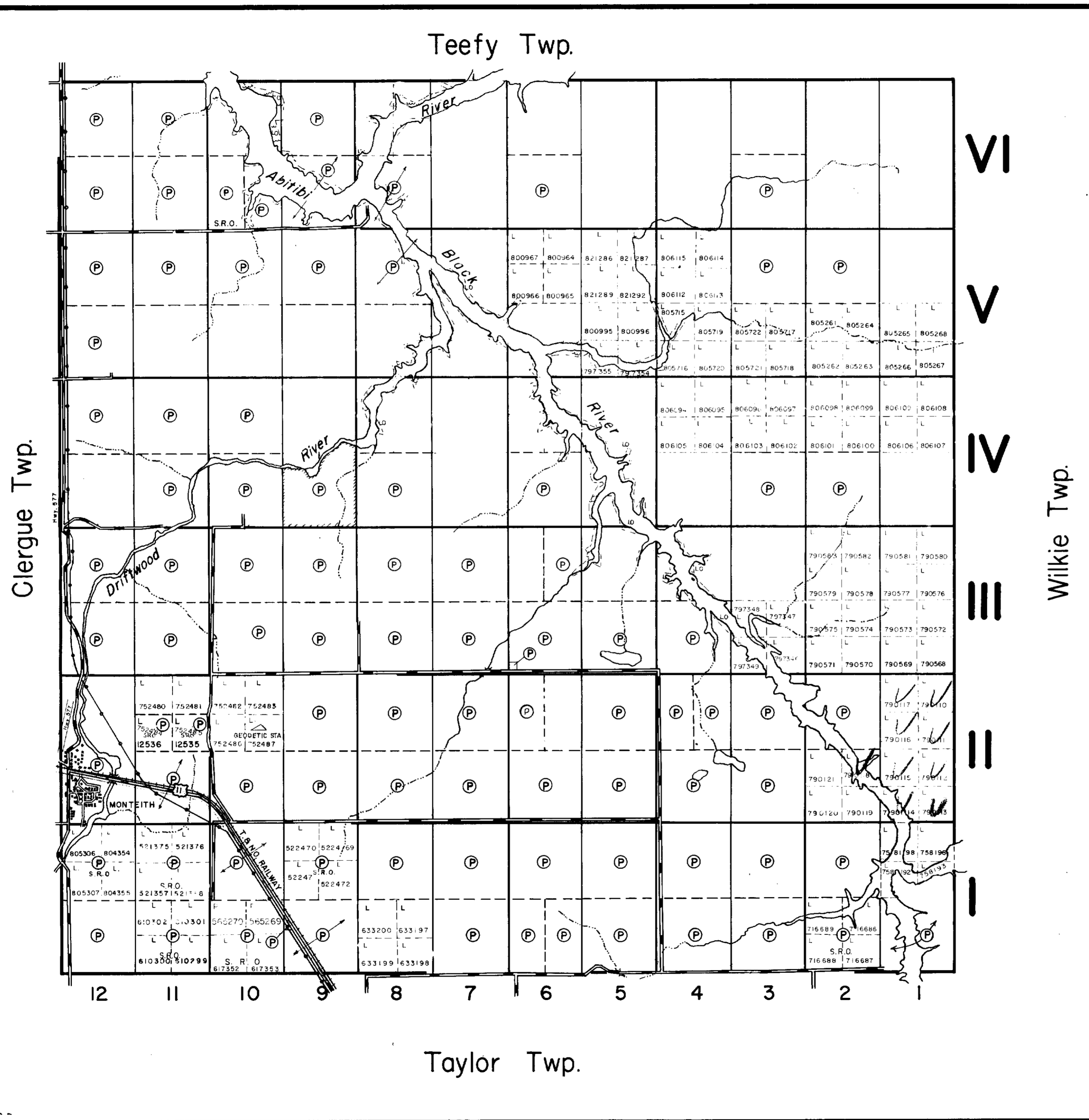


Carr Twp.

W 398

WILKIE Twp.

803 M



THE TOWNSHIP
OF
WALKER
DISTRICT OF
COCHRANE
LARDER LAKE
MINING DIVISION
SCALE: 1-INCH= 40 CHAINS

LEGEND

PATENTED LAND	Ⓟ
CROWN LAND SALE	Ⓞ or Ⓠ
LEASES	Ⓛ
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	—
IMPROVED ROADS	—
KING'S HIGHWAYS	—
RAILWAYS	—
POWER LINES	—
MARSH OR MUSKEG	—
MINES	—

NOTES

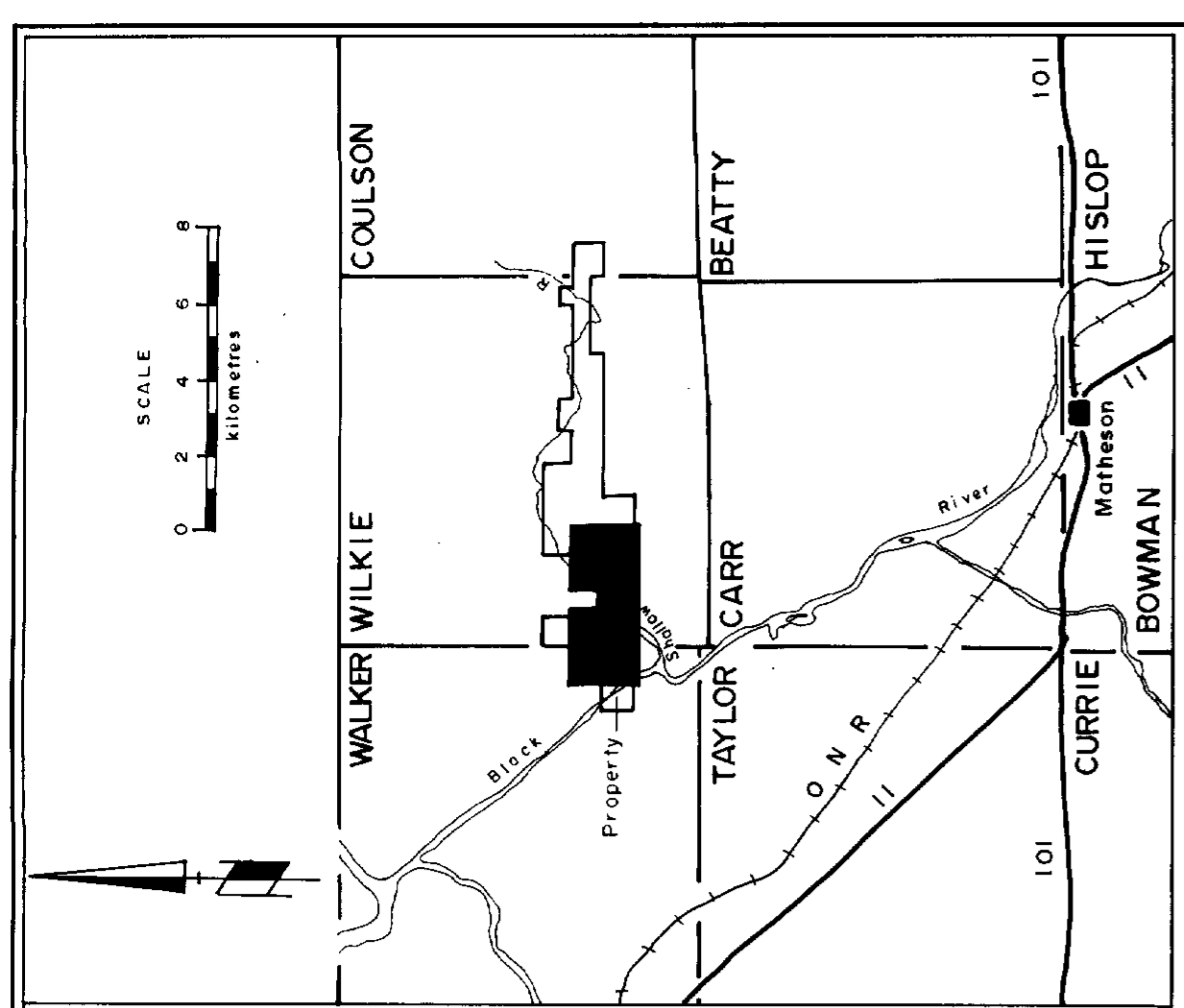
400' Surface rights reservation around all lakes and rivers.

L.O. 8672 issued for flooding rights along the shores of Abitibi, Black and Driftwood Rivers.

DEC 14 1984
TITLES SECTION
ROOM

PLAN NO.- M-396
ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPS DIVISION





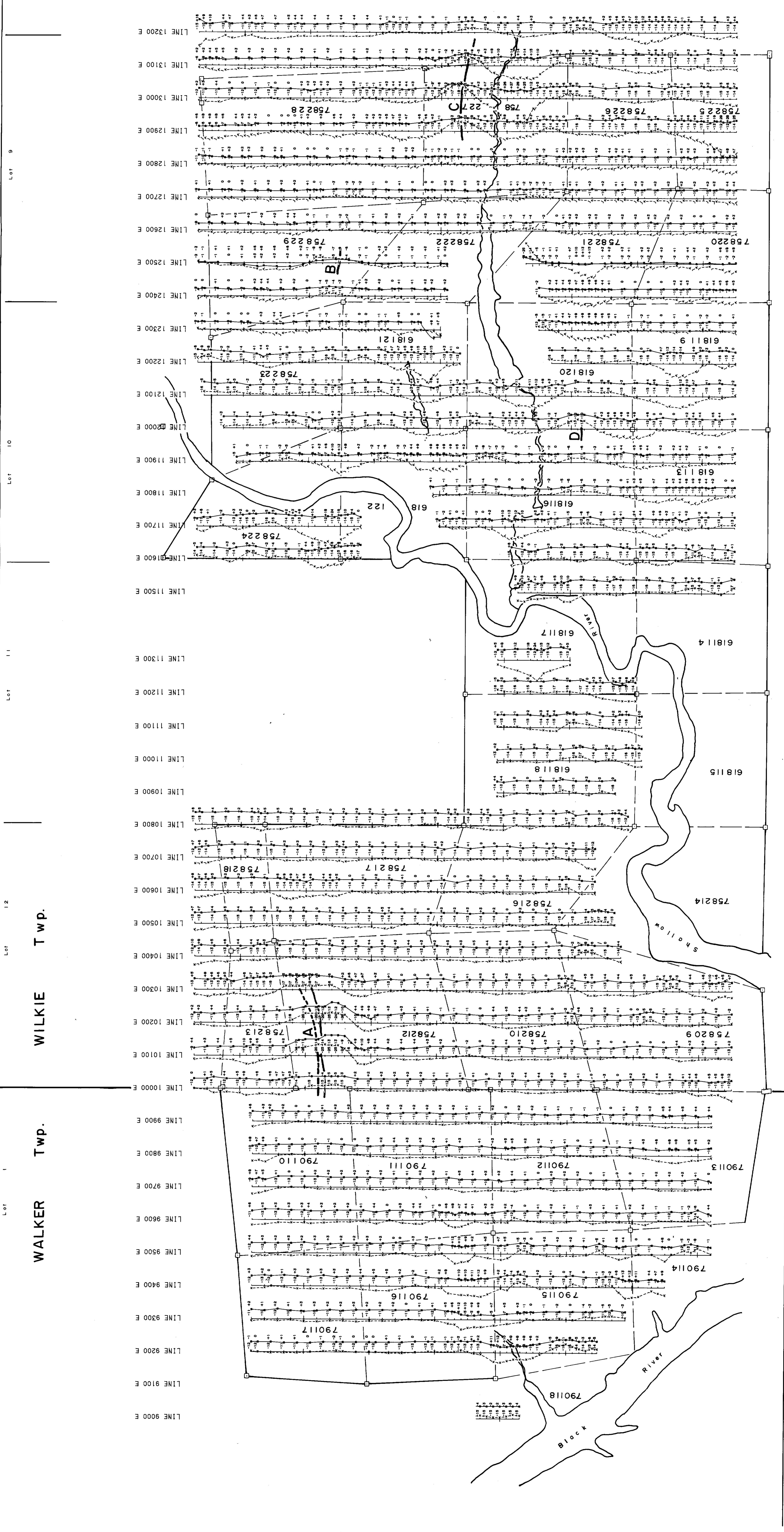
Lot 8
Lot 9
Lot 10
Lot 11
Lot 12

116 N
114 N
112 N
110 N
108 N
106 N
104 N
102 N

LINE 13200 E
LINE 13100 E
LINE 13000 E
LINE 12900 E
LINE 12800 E
LINE 12700 E
LINE 12600 E
LINE 12500 E
LINE 12400 E
LINE 12300 E
LINE 12200 E
LINE 12100 E
LINE 12000 E
LINE 11900 E
LINE 11800 E
LINE 11700 E
LINE 11600 E
LINE 11500 E
LINE 11300 E
LINE 11200 E
LINE 11100 E
LINE 11000 E
LINE 10900 E
LINE 10800 E
LINE 10700 E
LINE 10600 E
LINE 10500 E
LINE 10400 E
LINE 10300 E
LINE 10200 E
LINE 10100 E
LINE 10000 E
LINE 9900 E
LINE 9800 E
LINE 9700 E
LINE 9600 E
LINE 9500 E
LINE 9400 E
LINE 9300 E
LINE 9200 E
LINE 9100 E
LINE 9000 E

WALKER TWP.
WILKIE TWP.

116 N
114 N
112 N
110 N
108 N
106 N
104 N
102 N



Lot 8
Lot 9
Lot 10
Lot 11
Lot 12

116 N
114 N
112 N
110 N
108 N
106 N
104 N
102 N

LINE 13200 E
LINE 13100 E
LINE 13000 E
LINE 12900 E
LINE 12800 E
LINE 12700 E
LINE 12600 E
LINE 12500 E
LINE 12400 E
LINE 12300 E
LINE 12200 E
LINE 12100 E
LINE 12000 E
LINE 11900 E
LINE 11800 E
LINE 11700 E
LINE 11600 E
LINE 11500 E
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LINE 11100 E
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LINE 9800 E
LINE 9700 E
LINE 9600 E
LINE 9500 E
LINE 9400 E
LINE 9300 E
LINE 9200 E
LINE 9100 E
LINE 9000 E

WALKER TWP.
WILKIE TWP.

116 N
114 N
112 N
110 N
108 N
106 N
104 N
102 N

KIDD CREEK MINES LTD.
HORIZONTAL LOOP SURVEY
WILKIE TOWNSHIP
WILKIE 22

NTS:42-A/10
DATE: 1984
PROJECT: #932

CON. 11
CON. 1

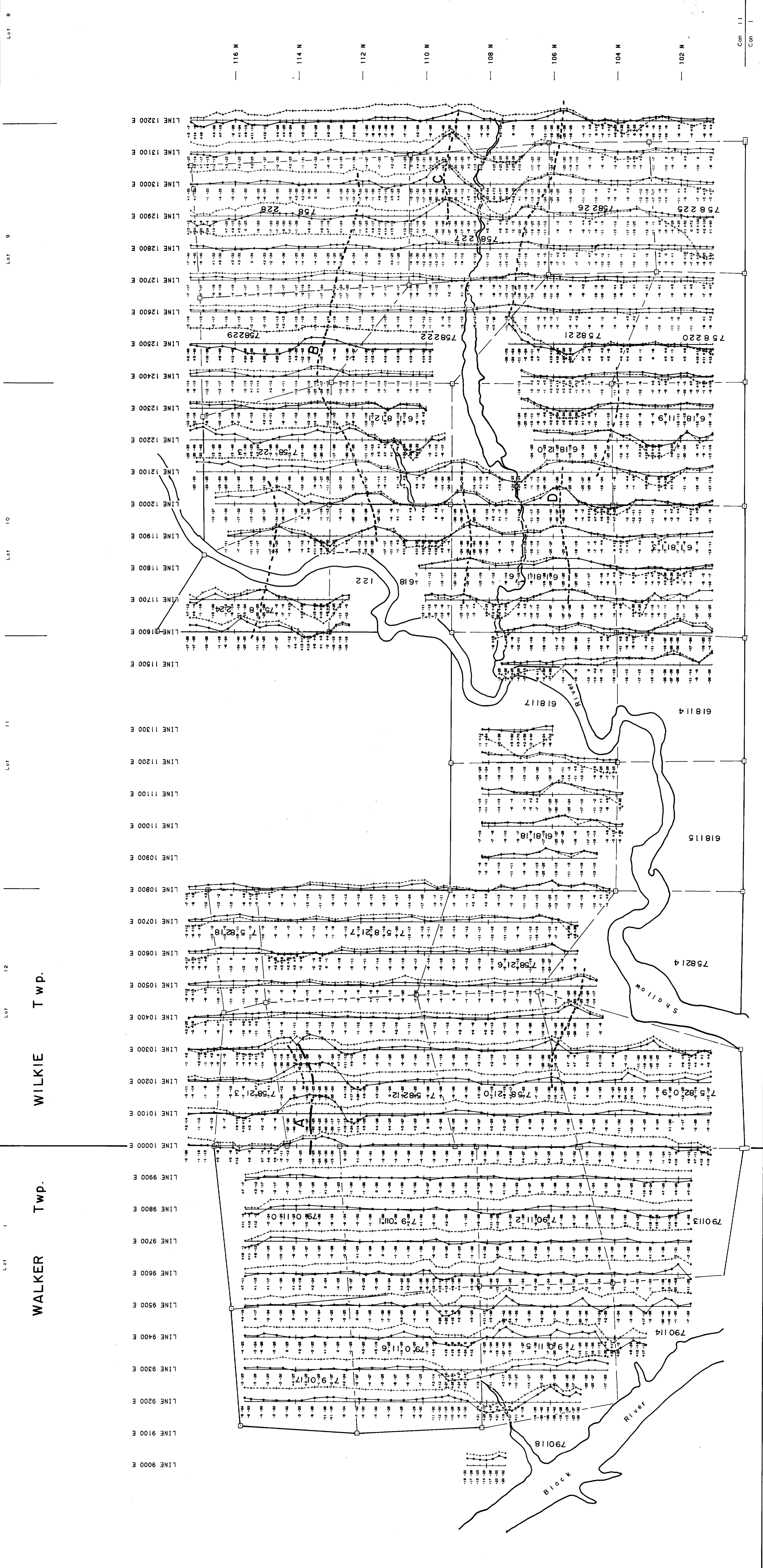
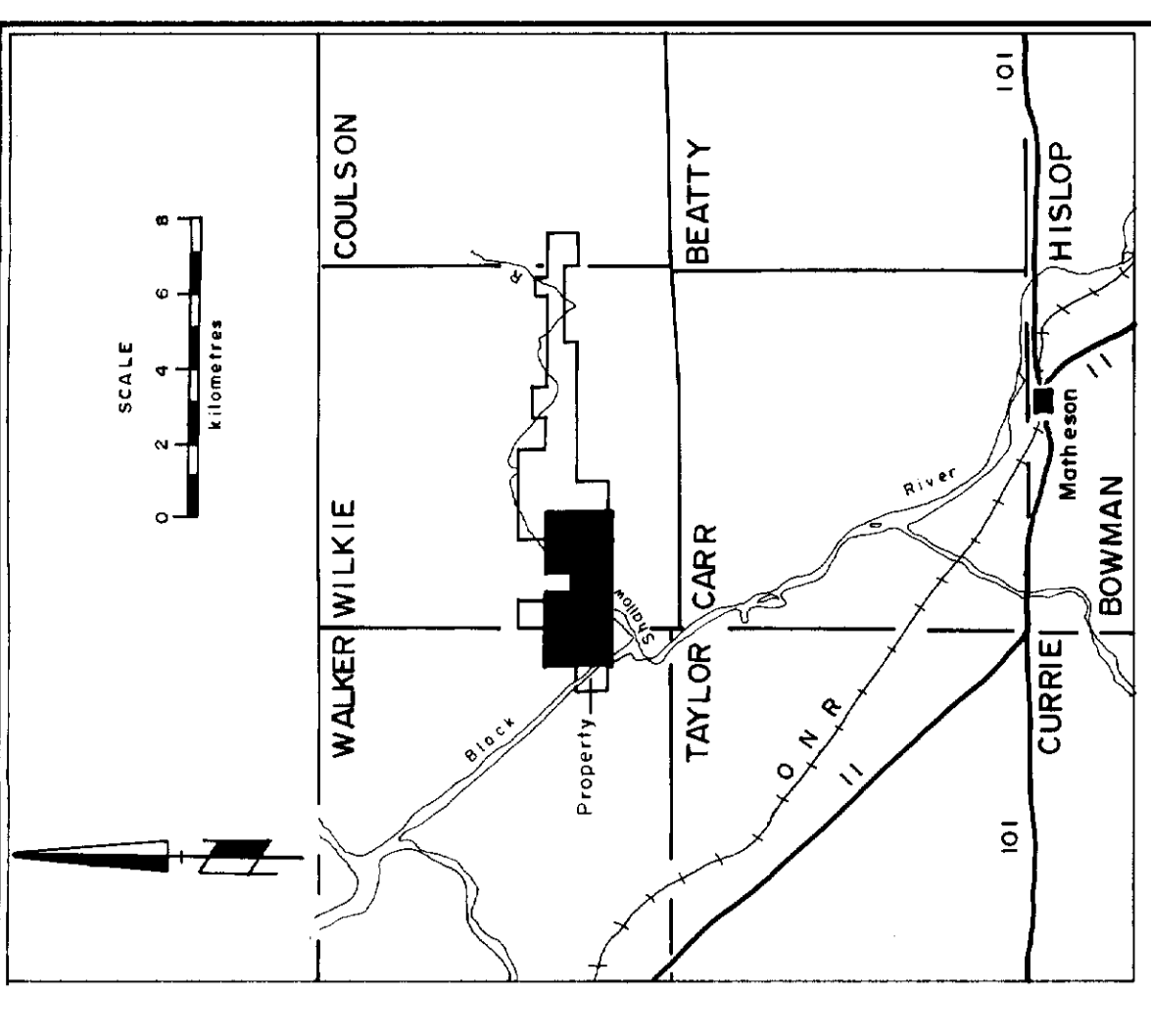
ASTRO
HEM. ANOMALY
A

LEGEND
444 Hz
IN-PHASE READINGS
QUADRATURE READINGS

INSTRUMENT: APEX PARAMETRICS MAXMIN II
FREQUENCY: 444 Hz
COIL SPACING: 200 METRES
PROFILE SCALE: 1 CM: 20X

+ READINGS
- READINGS

0 100 200 300 400 500
METRES (1:15000)



Lot 8
Lot 9
Lot 10
Lot 11
Lot 12
WILKIE TWP.
WILKIE TWP.

ASTRO

HEM ANOMALY

LEGEND

1777 Hz

IN-PHASE READINGS

QUADRATURE READINGS

INSTRUMENT : APEX PARAMETRICS MAXMIN II
 FREQUENCY : 1777 Hz
 COIL SPACING : 200 METRES
 PROFILE SCALE : 1 CM = 40%

← + READINGS
 → - READINGS

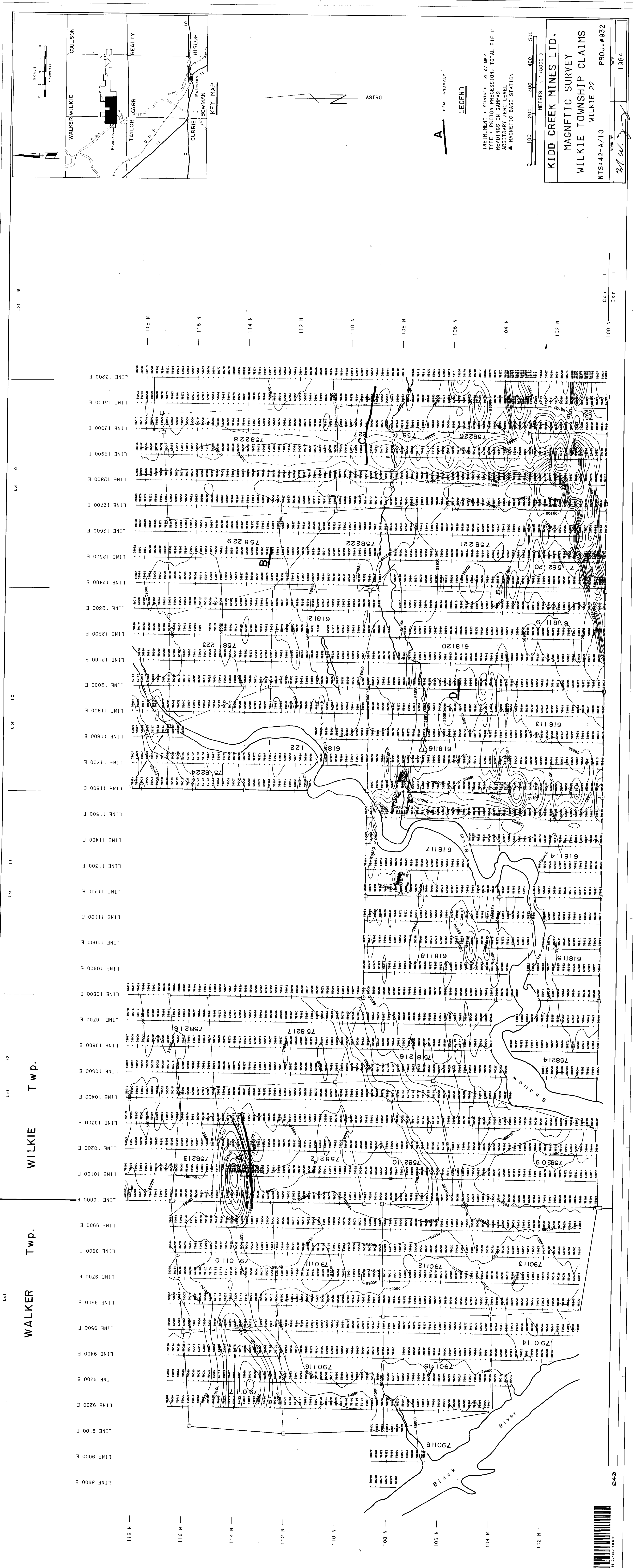
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 METRES (1:50000)

KIDD CREEK MINES LTD.
 HORIZONTAL LOOP SURVEY
 WILKIE TOWNSHIP
 WILKIE 22

NTS-42-A/10
 PROJ. #932

DATE 1984
 WORK BY M. G. J.

Con 11
 Con 1



KIDD CREEK MINES LTD.
 MAGNETIC SURVEY
 WILKIE TOWNSHIP CLAIMS
 WILKIE 22
 NTS-42-A/10
 PROJ. #932
 DATE 1984
 WORK BY *M. W.*



