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MAGNETOMETER SURVEY

MINNITAKI IRON RANGE LIMITED

Sioux Lookout Area - District of Kenora
Ontario

Report of Magnetometer Survey on Property of Minmitaki Iron Range Limited Minmitaki Lake Area, Ontario.

Personnel

C. S. Longley is a graduate in Geology and Mineralogy B.A. from Queen's 1932. He has had 29 years experience in geology in the Porcurine Area.

Robert McChesney organized the work on Minnitaki Iron Range. He is Professional Engineer for Ontario.

Locatic...

The property of Minnitaki Iron Range lies south of Minnitaki Lake. The base line crosses the meridian 92 W. just north of Lat. 49°55'30". Swi, Dallas, and Twill Lakes lie along the north boundary of the property. These lakes are suitable for small aircraft. There is an old logging winter road that was reopened early in 1965 from the south shore of Minnitaki Lake, along the iron formation, and ending at the camp on Twill Lake. Service has been both by air and water.

Ownership

The property is owned by Minnitaki Iron Range Limited, Suite 1405, 100 Adelaide St. W. Toronto 1.

Survey

The magnetometer survey is submitted as assessment work by Minnitaki Iron Range Limited with C. S. Longley, South Porcupine as geologist.

Claims Covered

Much of the property was covered by Campbell Fox on a survey dated Dec. 1964. The lines were 400' apart. In order to get more detail some of the lines were re-surveyed at 10' intervals and new lines were cut across the main zone of iron formation between the other lines at 200' spacing. The survey was also extended east of the previous survey across claim Pa29464 and into claim Pa29463. Claim Pa29464 is over half a mile east-west along the iron formation.

The survey covered parts of seven claims Pa29454 to 29458 inc. Pa29463 and 29464 on the east anomaly and parts of four claims Pa29860, 29861, Pa29900, and 29901 on the central anomaly.

Date of Survey

The survey was started while the diamond drilling was being done. The magnetometer survey began March 13, 1965 and completed on the eastern part of the property August 18th. Geological mapping was also being done at the same time usually on separate days and is separate. With the tangle of fallen timber and thick undergrowth much of the property is about the roughest that I have worked in slowing progress. The field work was done of the central amomaly September 1st to 4th.

PATRICIA

Summary of Work

The property was covered in the O.D.M. report 1932 Part 6
Dr. M.E. Hurst.

AM 10:11:19:1-2:3:4:5.6

In 1961 or somewhat later Mr B. K. Meikle Ph.D. did a reconnaissance magnetometer survey of the iron formation on claims Pa29450 to 29464 and made a report.

In the fall of 1964 Campbell Fox dad a magnetometer survey of six miles along the iron formation for Minnitaki Iron Range. This has been reported for assessment work. His maps have been used as a base for my maps.

In 1964 Mr F. J. Johnston mapped the property as far east as meridian 92°W. The Preliminary O.D.M. Map No. P269 was published in 1965.

The eleven diamond drill holes drilled have a total footage of 5102.

Summary of Results

The closely spaced magnetometer survey was done to get better detail of the outline of the iron formation. Readings were taken on some previously cut lines at ten foot intervals. Extra lines cut across the iron formation at 200' intervals were closely surveyed. The survey was also extended 3000 feet east to an interruption in the iron formation.

The detail survey is plotted in 100 gammas with the "Fox" survey in gammas for comparison. There were a few readings that space was not available to plot as when a station was re-surveyed.

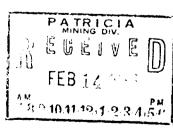
When doing the survey on the eastern part of the property the base station was a stump 24" in diameter 30' east of the dock on Twill Lake on the shore of the lake. The camp for the central anomaly was at the end of the road on Minnitaki Lake. The base readings were taken over a flat rock four feet in diameter in the road 40' from the shore.

The McIntyre Mag. station was not found. Nearby read 56,800 gammas.

In a few places there were strong negative readings. There were high positive readings nearby either to the north or south. The detail survey showed in some places that there were parallel bands of iron formation rather than the folds as shown on the "Fox" maps. The results are satisfactory that it is planned to resume diamond drilling. The eastern anomaly has wide bands with moderately strong readings. The central anomaly has several bands with some very high readings.

get. 10,1865

Signed,
C. S. Longley,



LEGEND

Gammas

50,000 Plus

30,000 - 50,000

20,000 - 30,000

10,000 - 20,000

0 - 10,000

0 - Minus

MAGNETIC DATA



Picket Line
"Fox" Readings in Gammas
New Readings in 100 Gammas

ISOMAGNETIC LINES

20,000 Camma Intervals

Magnetic Depression Contour.

Copied from Map No. 632A2 February 10, 1966, By C. S. Longley, C. S. Longley.



MAGNETOMETER SURVEY

MINNITAKI IRON RANGE LIMITED

Sioux Lookout Area - District of Kenora

Ontario

SUMMARY

During the past decade increasing attention has been given to beneficiating taconite ores because of the gradual exhaustion of domestic direct shipping ore, and the demand by steel companies for ore with a minimum of 60% natural iron and less than 5% silica. Clean magnetite ore is the most desirable taconite as it can be concentrated as a rule easier than hematite or siderite. Briefly, the features to be kept in mind regarding the evaluation of an iron ore deposit are location, size, grade, physical structure and included impurities.

Due to various evident favourable and advantageous features the Minnitaki Iron Range property was acquired in the Fall of 1961 by The Gunflint Syndicate. Limited magnetometer work and concentrating tests on grab samples gave inconclusive but encouraging results.

Railway transportation would not exceed 200 miles to the Creat Lakes shipping point of Port Arthur. Electric power lines and gas lines pass a distance of 30 miles to the south.

Results of the magnetometer survey just completed by the writer over half of the 159 claims show a band of iron formation 6000 feet long and up to 800 feet wide. The iron formation diverges as two separate bands to the east but irregularly coalesces to the west to form a maximum width of 800 feet.

A fairly extensive diamond drill program will be necessary to determine the grade and width of the iron formation as well as physical structure and amount of impurities. Substantial length is evident. Magnetic iron formation is indicated over 5 miles of the θ_2 miles covered by the survey.

A ...

PROPERTY

Topography - The surface features in the area are typical of a large part of the Precambrian Canadian Shield. A large proportion of the region is covered by water. The west end of the property is mostly covered by cedar swamp. Towards the east the relief is more pronounced with irregular hummocky basalt ridges. The iron formation follows a more moderate ridge to the north and extends for some distance. It is moss-covered for the most part. To the east it flattens out somewhat and appears to be covered by from 20' to 40' of overburden in places. Much of the property is covered by varying degrees of windfalls (fallen trees).

Although there are numerous small lakes, water dammed by beavers and available small creeks will constitute a more convenient supply for diamond drilling purposes.

Location - The property is located 10 miles south of Sioux Lookout in the District of Kenora, Ontario, and parallels Minnitaki Lake from 1 to 2 miles to the south. Adequate electric power lines and the Trans-Canada pipeline carrying natural gas from western to eastern Canada pass 30 miles to the south.

Claim Details - The property consists of a single block of 159 unpatented claims comprising (159 x 40) 6360 acres more or less. The claims were staked in the Patricia Mining Division of Ontario in the Fall of 1961.

Fifteen claims numbered Pa 29450 - 29464 have been optioned from T.A. Gustafson of Port Arthur. The rest are owned outright by the Company.

List of Claims

Pa 29450 - 29467 Pa 29970 - 29986 Pa 29825 - 29833 Pa 30225 - 30260 Pa 29834 - 29905 Pa 30337 - 30343

ACCESSIBILITY

The property is 190 miles from the Great Lakes shipping point of Port Arthur - 170 miles on an existing branch line of the Canadian National Railways plus 20 miles of proposed line to connect with the property. At present the property is accessible by charter plane from Sioux Lookout 10 miles to the north. Sioux Lookout is located on a main transcontinental line of the Canadian National Railways and is 245 miles by highway to Port Arthur.

HISTORY

It is evident because of the obvious outcrop of iron formation and periods of intense prospecting in the Sioux Lookout area that the presence of this deposit has been known for many years. A number of trenches and pits 30 years or older were noted on and near the iron formation. At that time low grade silicious iron formation was not economic. Relatively recent advances in iron technology and the increasing scarcity of direct shipping iron ore helped focus attention on this deposit and other deposits of this type.

The iron formation was mapped and is shown by M.E. Hurst for the Ontario Department of Mines on Map No. 41h, 1932. This work was of a reconnaissance nature and of course covered only that limited part of the iron formation which outcropped.

With the exception of the very old trenching there is no evidence of serious investigation of this property prior to the present acquisition by H.L. Isaacs from T.A. Gustafson for the Minnitaki Iron Range Company.

GEOLOGY IN RELATION TO IRON FORMATION

The generalized geological picture is simple. A persistent band of silicious iron formation is associated with Coutchiching greywacke sediments near its south contact with Keewatin greenstone. The general strike of the formations on the property area

is N 75°E. The dip appears to be vertical or steep to the north. The iron formation extends intermittently for a length of 20 miles (Ont. Dept. of Mines, Map 41h, 1932) and is repeated to some degree, probably by folding of the sediments, on the north side of the 3 mile wide band of sediments.

There are many other occurrences of Keewatin-type silicious iron formations. A few at present have been proved economically feasible. The Anaconda Company's Nakina iron ore body is situated in a similar environment on strike about 200 miles to the northeast. This iron formation is also associated with Coutchiching greywacke sediments:

Most of the magnetite in iron formations of the Lake Superior district is believed to have formed under conditions of low-grade regional metamorphism.

MAGNETOMETER SURVEY

Details concerning the recent magnetometer survey are presented as follows:

Grid - A picket line grid system was established to cover the most important appearing part of the iron formation over about half of the claim group. The base line was laid out at N 78°E to follow the iron formation as closely as possible. Lines were established at 400 foot invervals at right angles to the base line. They were cut and picketed every 100 feet and extended to the claim boundaries where possible.

Instrument - A Sharpe MF - 1 fluxgate-type magnetometer with a maximum sensitivity of 20 gammas was used. This instrument has a magnetic range of ± 100,000 gammas.

Method - Magnetic readings were taker along all lines at 100 foot intervals and at 50 and 25 foot intervals in anomalous areas. The readings were corrected for diurnal variation and plotted as relative vertical magnetic intensities from which magnetic contours were drawn on the base map.

Magnetic Survey Data -

1) Station readings 4903

2) Length & direction of base line 6.3 mi. at N 78°E

3) Line-miles of survey 73.5 miles

4) Claims covered by survey 82 claims

-including

Pa 29450 -29458 Pa 29900 -29901

Pa 29834 -29887 Pa 29970 -29986

DISCUSSION OF RESULTS OF MAGNETOMETER SURVEY

Over a 6.5 mile length covered by the magnetometer survey the iron formation follows 75% of this distance, or about 5 miles. The most important part of the iron formation is located in the east part of the area surveyed. Here for a length of 6000 feet, the formation increases in width and diverges into two separate bands on the extreme east end of the area surveyed. On the west end of this band the iron formation varies in proportion, irregularly coalescing in places with adjacent bands and similar bands along strike. The indicated total width varies from 200 to 800 feet.

A large part of this band of iron formation is covered by shallow overburden. Diamond drilling will be necessary to obtain more exact information.

There doesn't appear to be any large scale drag folding, but some intense small scale drag folding was noted on a few outcrops in the east section. At other nearby places the bands appeared undisturted. This condition could be caused by moderate cross-folding. Somewhat irregular magnetic contours in the area on the east end of the survey helps to bear out this assumption. Minor drag folding was not observed on outcrop or magnetically on the west part of the area surveyed.

On Claim Pa 29840, on the west end of the area surveyed, there are magnetic indications that a north-south fault offsets the east side of the iron formation 350 feet to the north.

TRUN FORMATION - MAGNETIC CONCENTRATION THAT

A grab sample of the iron formation was concentrated by the Davis Tube. Results are as follows:

Product	Weight %	Soluble 1ron	Distribution Soluble Iron
Feed	100.0	28.0	100.0
Mag. Conc.	ш.5	58.0	91.9
Tailing	55.5	4.1	8.1

Note: Examination of specimens of the iron formation collected by the writer showed the incividual magnetic grains to be moderately coarse and no sulphide was observed.

CONCLUSIONS AND RECOMMENDATIONS

- 1) <u>location</u> The location in regard to Great takes shipping point 190 miles by rail is favourable. Location in regard to climatic conditions is not unfavourable. Location in regard to large quantities of water, fuel and power is favourable.
- 2) Size: Substantial lengths are magnetically indicated. The width in the favourable magnetically indicated section should be checked by diamond drilling.
- 3) Grade- Grade and width are dependent on testing by diamond drilling.
- h) Physical Structure and Impurities Very limited observation and testing reveal no troubles in these respects. Bulk samples should be taken from suitable iron formation outcrop for concentration tests and analysis for impurities.



It is recommended that a preliminary testing program be carried out as soon as possible to consist of the following:

Diamond Drilling - 6000' Cost - 6000' @ \$4.50 (incl. supervision, assays, etc.)

\$27,000

(in conjunction with magnetometer survey to test the eastward extension of the favourable zone)

Magnetometer Survey - 10 miles at 400' intervals Cost - 10 miles 6 \$120 (incl. line-cutting)

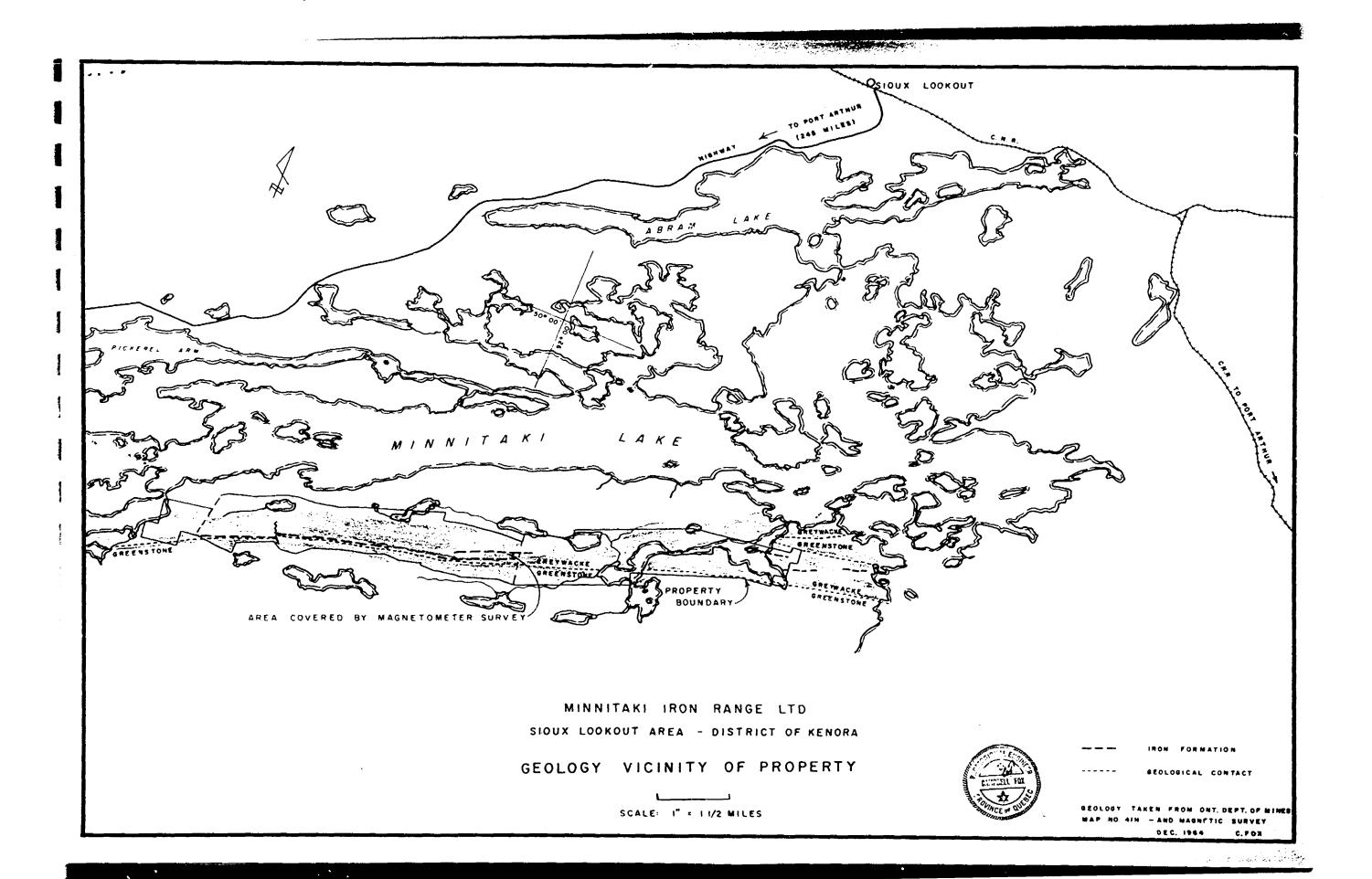
\$1,200

Total preliminary exploration cost

\$28,200

Depending on favourable results obtained from the preliminary work a second phase of drilling should be carried out to detail ore bodies for open pit mining. A minimum program consisting of 20,000' of diamond drilling would be necessary. The cost would be 20,000' # \$4.50 (incl. supervision, assaying, etc.) for a total of \$90,000. An additional \$10,000 should be allowed for bulk sampling, concentration tests and contingencies.

December 5, 1964 Brighton, Ontario



CERTIFICATE

I, Campbell Fox, of the Town of Brighton, in the Province of Ontario, do hereby certify:

- That I am a consulting geologist, residing at R.R.#4. Brighton, Ontario.
- 2. That I am a graduate Mining Engineer from the University of Nevada, Reno, Nevada, with the Degree of Buchelor of Science (1940).
- 3. That I am a Member of the Corporation of Professional Engineers of the Province of Quebec and have practised my profession continuously since 1940.
- That I have no interest, direct or indirect, in the securities or properties of the Company, nor do I expect to receive any such interest.
- 5. That the information in the accompanying report on a magnetometer survey carried out on the Minnitaki Iron Range property is based on:
 - (a) Personal association with the carrying out of a magnetometer survey over half of the 159 claim property in the Sioux Lookout area in October 1964.
 - (b) Previous experience of a similar nature on Keewatintype iron formation in Fenton township, Ontario in 1961.
 - (c) Reference to various government publications and maps, including - Ontario Department of Mines Map No. 41h, Sioux Lookout area, 1932; aeromagnetic map sheets "Yonde" and "Sandybeach Lake", 1961.
 - (d) Reference to various publications for iron data of a general nature (e.g. The Northern Miner magazine supplement - "Iron and Steel, Sept. 24, 1964").

Dated at Brighton, Ontario this 5th day of December 1964 Campbell Fox, P.Eng.

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Prospectus

of

MINNITAKI IRON RANGE LIMITED

SUITE 1405-100 ADELAIDE STREET WEST TORONTO 1, ONTARIO



Dated July 29, 1965

THESE ARE SPECULATIVE SECURITIES



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CHARTER

Incorporated as a mining company under The Corporations Act of Ontario by letters patent dated October 13, 1964, and subject to the provisions of Part IV thereof.

OFFICERS AND DIRECTORS

WILLIAM CARL RINGSLEBEN	President and	Glencarle Acres, Con. 5E, Markham Township Box 119, Unionville, Ontario, Geologist.
CECIL ALBERT BURNS	Vice-Presidentand Director	.23 Tanager Avenue, Toronto, Ontario, Geologist.
MARY LOUISE ISAACS	Secretary-Treasurer and Director	.39 White Oak Bouleva:d, Toronto, Ontaric, Librarian.
FRANK WILLIAM PLUMB	. Director	.9 Donwoods Drive, Toronto, Ontario, Mining Engineer
HAROLD JAMES MCKEE	Director	.63 Lanser Drive, Maple, Ontario, Technician.

PROMOTER AND PRINCIPAL SHAREHOLDER

The Guntlint Syndicate, Suite 403, 100 Adelaide Street West, Toronto 1, Ontario

is the promoter of the Company and as owner of a majority of the outstanding shares is in

The Estate of Harry L. Isaacs and Robert J. Isaacs each have more than a 5% interest in The Gunflint Syndicate.

a position to elect or cause to be elected a majority of the directors of the Company.

UNDERWRITER/OPTIONEE

Taranco Holdings Limited, 4 King Street West, Toronto 1, Ontario.

AUDITORS

Allen, Miles, Fox & Johnston, Chartered Accountants, 250 University Avenue, Toronto, Ontario.

REGISTRAR AND TRANSFER AGENT

The Sterling Trusts Corporation,

372 Bay Street, Toronto, Ontario.

No person has been authorized to give any information or to make any representations other than those contained in this Prospectus, and, if given or made, such information or representations must not be relied upon as having been authorized by the Company.

This Prospectus is dated July 29, 1965.

CAPITAL

Authorized: \$6,000,000 divided into 6,000,000 shares of the par value of

\$1.00 each.

Issued: 950,005 shares as fully pall and non-assessable.

Escrowed: Certificates for 675,000 of the issued shares are held in

escrow by The Sterling Trusts Corporation, 372 Bay Street, Toronto, subject to release therefrom and to hypothecation, alienation, transfer or assignment within the escrow only with the written consent of the Ontario Securities Com-

mission.

Shares sold for cash:

5 shares in the capital of the Company have been issued as fully paid and non-assessable at the rate of \$1.00 per share to the directors of the Company as qualifying shares.

200,000 shares have been issued as fully paid and non-assessable at the rate of 15 cents per share to The Gunflint Syndicate, Suite 403, 100 Adelaide Street West, Toronto, Ontario, as to 36,667 shares and to Robert John Isaacs, 330 Bay Street, Toronto, Ontario as to 163,333 shares in satisfaction of advances aggregating \$30,000 made to the Company following its incorporation. The aforesaid sum of \$30,000 was paid to T. A. Gustafson on the acquisition of certain mining properties as more particularly referred to below under the heading "The Mining Properties".

200,000 shares have been subscribed for at the rate of 15 cents per share by 20 individuals and uncertified cheques for the aggregate subscription price of \$30,000 have been paid to and are bein, held by The Sterling Trusts Corporation, the Company's Registrar and Transfer Agent, pending allotment and issue of the said shares. Almost all of the said 20 individuals were personal friends or close business associates of the late Harry L. Isaacs who, as is hereinafter mentioned, originally caused the Company to be incorporated. The said shares were subscribed for subject to acceptance for filing of this Prospectus by the Ontario Securities Commission and to the delivery of a copy of this Prospectus to each subscriber. It is a condition of the allotment and issue of the said shares that each subscriber agree not to sell or otherwise dispose of his shares until May 20, 1966 or until the underwriter has completed the primary distribution of the shares referred to below under the heading "Present Underwriting and Options".

No commissions were paid by the Company on the sale of shares. No bonds or debentures are outstanding or proposed to be issued.

Except as set out herein, no securities other than shares have been sold to date or are now proposed to be issued.

Present Underwriting and Options:

By agreement dated July 26, 1965 made by the Company with Taranco Holdings Limited, a registered securities dealer, 4 King Street West, Toronto, as Underwriter/Optionee, acting on its own b half as to 65% and on behalf of its clients, Shulo Investments Limited, 19th Floor, 4 King Street West, Toronto, as to 25% and Houden Enterprises Limited, 82

Church Street, Toronto, as to 10%, the Underwriter/Or for 200,000 shares at 20¢ per share payable on the Fffasaid agreement the Underwriter/Optionee was als purchase all or any part of 200,000 shares at 25¢ and of the Effective Date and of further 200,000 shares at 30¢ per share exercisable afore a date of months from the Effective Date.

The "Effective Date" under the terms of the aforesaid agreement means the third business day after the date of final acceptance for filing of this Prospectus under The Securities Act of Ontario.

Options to Employees

By agreement dated April 5th, 1965, the Company granted to each of William Carl Ringsleben, the President of the Company and Cecil Albert Burns, a director, an option to purchase all or any part of 15,000 shares at 15¢ per share exercisable on or before a date (the "First Option Date") being 9 months after the date of acceptance for filing of this Prospectus by the Ontario Securities Commission and, subject to the exercisa thereof, an option to purchase all or any part of a further 15,000 shares at 30¢ per share exercisable on or before a date being 12 months after the First Option Date. The said William C. Ringsleben and Cecil Albert Burns are both consulting mining geologists and carry on business in partnership under the firm name of Ringsleben and Burns. Under the terms of the said agreement, the firm of Ringsleben and Burns has been retained as consultants for the Company for the 2 year period commencing March 15, 1965 at a retainer fee of \$150 a month.

Loans to the Company

In addition to monies advanced to the Company as referred to under the heading "Share: sold for cash" above, the sum of \$15,016.40 has been advanced by the late Harry Lothan Isaacs, to defray the preliminary expenses of incorporation and organization of the Company and the preliminary work on the Company's mining claims. The executors of the Estate of the said Harry Lothan Isaacs have agreed that repayment of the said sum may be deferred until the preliminary testing program recommended by Campbell Fox, P.Eng. in his report dated December 5, 1964 referred to below has been completed and paid for and until the ordinary operating expenses of the Company incurred prior to completion of such program have also been paid.

Amendment to Prospectus

The signatories to this Prospectus understand that in the event of default under any of the options referred to above, an amendment to this Prospectus is required to be filed within 20 days in order to permit continued primary distribution of the Company's shares in Ontario. Taranco Holdings Limited, William Carl Ringsleben and Cecil Albert Burns have each advised the Company that there are no sub-underwritings, sub-options or assignments given or proposed save with respect to the interests of Shulo Investments Limited and Houden Enterprises Limited in the underwriting and options more particularly referred to under the heading "Present Underwriting and Options".

HISTORY IN BRIEF

The late Harry L. Isaacs caused the Company to be incorporated in 1964 to take title to certain mining claims (hereinafter called the "Mining Properties") in the Minnitaki Lake Area in the District of Kenora, Patricia Mining Division, owned by The Gunflint Syndicate, Suite 403, 100 Adelaide St. W. Toronto, Ontario, in consideration of the issue to The Gunflint Syndicate of certain vendors shares, as hereinafter mentioned. The Estate of the late Harry Lothan Isaacs and Robert John Isaacs, 330 Bay Street, Toronto, Ontario, are the only persons owning more than a 5% interest in The Gunflint Syndicate. The Company has also acquired from The Gunflint Syndicate an assignment of an option held by The Gunflint Syndicate from T. A. Gustafson providing for the purchase of an additional 15 mining claims in the said Minnitaki Lake Area contiguous to the Mining Properties. The purchase price for such claims as provided in the said option agreement is \$30,000 plus 90,000 shares of the Company.

The Mining Properties are located approxim. 'y 10 miles southeast of the town of Sioux Lookout and a road runs to within one mile of the Mining Properties. The Mining Properties are also accessible by air from Sioux Lookout and are approximately 190 miles from Port Arthur. The Mining Properties are also accessible by water via Minnitaki Lake.

There is no known previous history of the Mining Properties and to date an exploration program of line cutting and a magnetometer survey have been carried out by The Gunslint Syndicate. Except for the preliminary work done by the Company referred to below under the headings "The Mining Properties — Work Done", there has been no underground, exploration or development work on the Mining Properties. There is also no underground or surface plant or equipment on the Mining Properties.

The current financing is to provide capital to carry out exploration work on the Mining Properties as set forth below.

THE MINING PROPERTIES

As a result of the foregoing, the Company is the holder of record at the Office of the Mining Recorder for the Patricia Mining Division of Kenora of the following mining claims:

Pa-29465 to 29467 inclusive, Pa-29827. Pa-29828, Pa-29831 to 29833 inclusive, Pa-29834 to 29845 inclusive, Pa-29853 to 29856 inclusive, Pa-29859 to 29862 inclusive, Pa-29865 to 29868 inclusive, Pa-29872 to 29875 inclusive, Pa-29877, Pa-29878, Pa-29880, Pa-29881, Pa-29883, Pa-29884, Pa-29886 to 29905 inclusive, Pa-29971 to 29976 inclusive, Pa-29979 to 29984 inclusive, Pa-29986, Pa-30226 to 30229 inclusive, Pa-30232 to 30235 inclusive, Pa-30237 to 30240 inclusive, Pa-30242, Pa-30244 to 30246 inclusive, Pa-30249 to 30252 inclusive, Pa-30255 to 30258 inclusive and Pa-30340 to 30343 inclusive, all acquired from The Gunflint Syndicate.

Pa-29450 to Pa-29464 inclusive, acquired from T. A. Gustafson.

The mining properties acquired from The Gunflint Syndicate were acquired under an agreement dated March 15, 1965 made between The Gunflint Syndicate, as vendor, and the Company, as purchaser, in consideration of the allotment and issue of 660,000 fully paid and non-assessable shares. The remaining claims acquired from T. A. Gustafson were acquired in consideration of the allotment and issue of 90,000 fully paid and non-assessable shares and the payment of \$30,000 cash referred to above under the heading "Shares sold for cash".

Certificates for 90% of such shares issued to the allottees were deposited with and are held in escrow by The Sterling Trusts Corporation subject to release, transfer, assignment or other alienation from time to time only with the consent of the Ontario Securities Commission. All of the said shares were allotted at the price of 10¢ per share, that is at a discount of 90% of their par value. The Gunflint Syndicate participated in the staking of certain of the claims. The cost of the claims to the vendor and allottee was its time and expenses incidental to staking, recording, prospecting and surface work on these claims.

The Estate of the late Harry Lothan Isaacs and Robert John Isaacs, are the only persons, to the knowledge of the undersigned, entitled to receive from The Gunflint Syndicate greater than a 5% interest in any of the shares allotted to it.

Work Done

The Company has incurred expenditures to the date hereof estimated at \$45,000 (of which \$15,000 has been paid) in the drilling of 10 holes aggregating approximately 5,200 feet and in carrying on a magnetometer survey, all as recommended by Campbell Fox, P.Eng. in his report dated December 5, 1964 attached to and forming part of this Prospectus. Further drilling and assay of the cores drilled will complete the preliminary work recommended by the said engineer.

PURPOSE OF ISSUE

The Company proposes to use the proceeds from the sale of the 200,000 shares subscribed for by 20 individuals more particularly referred to above under the heading "Shares Sold for Cash" and from the sale of shares to the Underwriter/Optionee together with the balance of monies on hand advanced by way of loan to the Company as referred to above:

- (i) to pay the balance of the expenditures incurred for work done on the mining properties to date estimated at \$30,000 and the legal and audit expenses incurred in connection with this Prospectus estimated at \$3,200 being the only known liabilities of the Company other than the indebtedness to Harry Lothan Isaacs referred to below:
- (ii) to complete the preliminary testing program as recommended by Campbell Fox, P.Eng., in his report dated December 5, 1964 attached to and forming part of this Propectus; and
- (iii) to pay the ordinary operating expenses of the Company.

No part of the proceeds will be used to invest, underwrite or trade in securities other than those that qualify as investments in which life insurance companies may invest under the laws of Canada. Should the Company propose a departure from the foregoing after primary distribution of the securities offered by this Prospectus has ceased, approval by the shareholders will be obtained and disclosure will be made to the Ontario Securities Commission.

FINANCIAL

The organizational expenses of the Company and the administrative expenses since incorporation in 1964 are shown on the attached financial statement as of March 31, 1965, which forms a part of this Prospectus.

There is no indebtedness intended to be created or assumed which is not revealed by the financial statement so attached other than in connection with the expenditures on the programs proposed above.

No dividends have been paid since incorporation, there having been no production from any property, nor earnings.

INFORMATION CONCERNING DIRECTORS AND OFFICERS

The principal business in which each director and officer has been engaged during the past three years is as follows:

William Carl Ringsleben is a geologist and partner in the firm of Ringsleben and Burns.

Frank William Plumb is employed by the Department of Economic Development of the Province of Ontario.

Mary Louise Isaacs is a professional librarian employed by the Township of Etobicoke.

Harold James McKee is a technician employed by Canadian General Electric Company Limited.

Cecil Albert Burns is a geologist and a partner in the firm of Ringsleben and Burns.

William Carl Ringsleben and Cecil Albert Burns, in addition to the practice of their profession as geologists, are also directors and/or officers

of other mining companies, none of which have any connection whatsoever with the Company. Frank William Plumb has subscribed for 30,000 of the 200,000 shares subscribed for in the capital of the Company referred to above under the heading "Shares sold for cash" and William C. Ringsleben and Cecil Albert Burns are the optionees of an aggregate of 60,000 shares as more particularly referred to above under the heading "Options to Employees". Mary Louise Isaacs and Harold James McKee are unit holders in The Gunflint Syndicate. Except as aforesaid and except for their directors' qualifying shares, the directors and officers of the Company do not own any shares in the capital of the Company or any units in The Gunflint Syndicate. Except for the interest of Mary Louise Isaacs and Harold James McKee as unit holders in The Gunflint Syndicate, no director or officer of the Company has or ever had any interest, direct or indirect, in any property acquired or to be acquired by the Company.

No remuneration has been paid by the Company since its incorporation to the directors or officers of the Company as such and no remuneration is estimated to be pavable during the current financial year to the directors or officers of the Company as such.

PRINCIPAL SHAREHOLDERS

The Gunflint Syndicate, in which the Estate of Harry Lothan Isaacs and Robert John Isaacs aforesaid are the only persons having more than a 5% interest, is in a position to elect or cause to be elected a majority of the directors of the Company.

OFFERING AND OTHER MATTERS

The Underwriter/Optionee has advised that on its own behalf and on behalf of its clients aforesaid, Shulo Investments Limited and Houden Enterprises Limited, it intends to sell part or all of the 300,000 shares underwritten and optioned as described above under the heading "Capital", in Ontario either itself or through registered securities dealers, and at prices not in excess of the ceiling price fixed from time to time or approved by the Broker-Dealers Association of Ontario.

Shareholders of the Company as above described under the heading "Capital", or who may have received shares for properties acquired by the Company free of escrow, or who may hereafter from time to time be granted release of certificates from escrow of additional holdings of escrowed vendor shares as the same may be released, may offer such shares for sale through registered securities dealers in Ontario; the proceeds of any such shares so offered for sale by present shareholders will not accrue to the treasury of the Company but to the vending shareholder. Otherwise there is no arrangement known to the signatories for the sale or disposal of vendor shares, and there are no other facts known to be material not disclosed by the foregoing statement.

The foregoing constitutes full, true and plain disclosure of all material facts in respect of the offering of securities referred to above, as required by Section 38 of The Securities Act (Ontario) and there is no further material information applicable other than in the financial statements and geologist's reports where required.

Dated this 29th day of July, 1965.

(Signed) W. C. RINGSLEBEN

(Signed) FRANK W. PLUMB William Carl Ringsleben, Director Frank William Plumb, Director

(Signed) MARY L. ISAACS Mary Louise Isaacs, Director (Signed) C. A. Burns Cecil Albert Burns, Director

(Signed) H. I. MCKEE Harold James McKee, Director

To the best of our knowledge, information and belief, the foregoing constitutes full, true and plain disclosure of all material facts in respect of the offering of securities referred to above as required by Section 38 of The Securities Act (Ontario), and there is no further material information applicable other than in the financial statements or reports where required. In respect of matters which are not within our knowledge we have relied upon the accuracy and adequacy of the foregoing.

Underwriter/Optionee

TARANCO HOLDINGS LIMITED By: (Signed) G. A. HUNTER

(Signed) MARSHAL STEARNS

(Corporate Seal)

The following are the names of every person having an interest either directly or indirectly to the extent of not less than 5\% in:

(i) the capital stock of Taranco Holdings Limited:

Thomas Alexander Richardson, George Alaistair Richardson, 427 Russell Hill Road, Toronto, Ontario.

49 Country Lane. Willowdale, Ontario.

Marshal Stearns, 91 Glen Edvth Drive. Toronto, Ontario.

George Alexander Hunter. 5 Alderbrook Drive. Toronto, Ontario.

Harold Anthony Oaks. 322 Rosemary Road. Toronto, Ontario.

(ii) the capital stock of Shulo Investments Limited:

George Alaistair Richardson, 49 Country Lane. Willowdale, Ontario.

Paul James McCann. 25 Marchwood Drive. Downsview, Ontario.

Mrs. Justine Richardson, 49 Country Lane. Willowdale, Ontario.

Estate Cecil James Lecour. c/o Eastern & Chartered Trust Co., 1901 Yonge Street. Toronto 7. Ontario.

Glenesk Investments Limited. 257 Dundas Street West. Oakville, Ontario.

Samuel Frost, Box 501. Lake George, New York, U.S.A.

Franklin Harold Smith. 1 Nelson Lane. Bay City, Michigan, U.S.A.

Estate Vincent Paul Reid, c/o V. P. Reid. Osler, Hoskin & Harcourt, 4 King Street West, 16th Floor. Toronto 1, Ontario.

John McCann. 35 Hampshire Heights, Islington, Ontario.

Fernando Leon, 503 Phoenix Building, Bay City, Michigan, U.S.A.

(iii) the capital stock of Houden Enterprises Limited:

Fred Robert Duncan. 1220 Bayview Avenue. Toronto, Ontario.

Richard McRae Hogarth. 38 Bridle Path, Willowdale, Ontario.

Auditors' Report

To the Directors of Minnitaki Iron Range Limited

We have examined the balance sheet of Minnitaki Iron Range Limited as at March 31, 1965 and the statement of deferred exploration, development and administrative expense from incorporation on October 13, 1964 to March 31, 1965 and we have received all of the information and explanations we have required. Our examination included a general review of the accounting procedures and such tests of accounting records and other supporting evidence as we considered necessary in the circumstances.

In our opinion the accompanying balance sheet and statement of deferred exploration, development and administrative expense present fairly the financial position of the company as at March 31, 1965 and the results of its operations from incorporation on October 13, 1964 to March 31, 1965, in accordance with generally accepted accounting principles.

We have also examined the pro-forma balance sheet as at March 31. 1965 and we report that, in our opinion, the accompanying pro-forma balance sheet presents fairly the financial position of the company as at March 31, 1965 after giving effect as of that date to the transactions set out in note 1 to the financial statement, in accordance with generally accepted accounting principles.

Toronto, Canada, July 29, 1965.

(Signed) ALLEN MILES FOX & JOHNSTON

Chartered Accountants

MINNITAKI IRON RANGE LIMITED

Incorporated under the laws of the Province of Ontario

Balance Sheet at March 31, 1965

Assets

CURRENT ASSETS Cash in bank		\$ 777.67
PROPERTY		
Unpatented mining claims located in the Patricia Mining Division, Ontario, acquired for 660,000 shares of capital stock issued subsequent to March 31, 1965 at ten cents per share		66,000.00
OTHER ASSETS		
Deferred exploration, development and administrative expense	\$ 37,446.51	
Payments under option to purchase mining claims (note 1b)	5,500.00 2,100.00	45,046.51 \$111,824.18
Liabilities and Capit	tal	
-	(A)	
CURRENT LIABILITIES Accounts payable and accrued liabilities Advances from deceased director (note 4).	\$25,302.78 15,016.40	40,319.18
CAPITAL STOCK Authorized — \$6,000,000 divided into 6,000,000 shares of the par value of \$1.00 each		
Issued — (note 1) 5 shares issued for cash Consideration received for shares issued subsequent to March 31, 1965	5.00	
Mining claims (660,000		
shares) (note 1a) \$66,000.00		
Cash advances (36,667		
1		
shares) (note 1c) 5,500.00	71,500.00	71,505.00 \$111.824.18

The accompanying notes are an integral part of this statement and should be read in conjunction therewith.

Approved on behalf of the Board of Directors

Director (Signed) W. C. RINGSLEBEN

Director (Signed) MARY L. ISAACS

11

MINNITAKI IRON RANGE LIMITED

Incorporated under the laws of the Province of Ontario

PRO-FORMA BALANCE SHEET AT MARCH 31, 1965

(After giving effect to the transactions set out in Note 1 to Financial Statement)

Assets

Assets	
CURRENT ASSETS Cash in bank	\$ 70,777.67
PROPERTY	4 70,717.07
Unpatented mining claims located in the Patricia Mining Division, Ontario, acquired for \$30,000.00 cash and 750,000 shares of capital stock issued at ten cents per share	105,000.00
OTHER ASSETS	
Deferred exploration, development and administrative expense	
Organization expense 2,100.00	39,546.51
2,100.00	
	\$215,324.18
Liabilities and Capital	
CURRENT LIABILITIES	
Accounts payable and accrued liabilities 25,302.78	
Advances from deceased director (note 4). 15,016.40	40,319.18
CAPITAL STOCK Authorized—\$6,000,000 divided into 6,000,000 shares of the par value of \$1.00 each	
Issued	
(notes 2 and 3) Par Value Discount Net	
600,005 shares for cash \$ 600,005.00 \$ 500,000.00 \$100,005.00	
750,000 shares	
for property 750,000.00 675,000.00 75,000.00	
1,350,005 \$1,350,005.00 \$1,175,000.00	175,005.00
	\$215,324.18

The accompanying notes are an integral part of this statement and should be read in conjunction therewith.

Approved on behalf of the Board of Directors

Director (Signed) W. C. RINGSLEBEN

Director (Signed) MARY L. ISAACS

MINNITAKI IRON RANGE LIMITED

Notes to Financial Statement at March 31, 1965

- 1. The pro-forma balance sheet gives effect to the following:
 - (a) The issue of 660,000 shares of capital stock of the company at ten cents per share which were issued subsequent to March 31, 1965 in payment for mining claims.
 - (b) The payment of an additional \$24,500.00 cash and the issue of 90,000 shares of capital stock of the company at ten cents per share for the purchase of fifteen mining claims, contiguous to the company's property, held under an option agreement which was exercised subsequent to March 31, 1965.
 - (c) The issue, subsequent to March 31, 1965, of 200,000 shares of capital stock of the company at fifteen cents per share in repayment of cash advances of \$5,500.00 received prior to March 31, 1965 and \$24,500.00 received subsequent to that date.
 - (d) The issue of 200,000 shares of capital stock of the company at twenty cents per share under an agreement dated July 26, 1965 between the company and an underwriter which is subject to the acceptance for filing of a prospectus of the company by the Ontario Securities Commission not later than September 9, 1965, and the receipt of \$40,000.00 cash in payment for the shares.
 - (e) The issue of 200,000 shares of capital stock of the company at fifteen cents per share for which the company has received subscriptions from certain individuals, and the receipt of \$30,000.00 cash in payment for the shares. The issue of these shares is subject to the acceptance for filing of a prospectus of the company by the Ontario Securities Commission and delivery of a copy thereof to the subscribers.
- Under the underwriting agreement referred to in note 1 (d), the company has granted an option on 400,000 shares of its unissued capital stock as follows:

Number of shares	Price per share	Period from third business day after date of acceptance for filing of the prospectus within which exercisable	
200,000	25€	3 months	
200.000	30é	6 months	

3. By agreement dated April 5th, 1965, the company granted to each of William Carl Ringsleben, the President of the Company and Cecil Albert Burns, a director, an option to purchase all or any part of 15,000 shares at fifteen cents per share exercisable on or before a date (the "First Option Date") being 9 months after the date of acceptance for filing of a prospectus of the company by the Ontario Securities Commission and, subject to the exercise thereof, an option to purchase all or any part of a further 15,000 shares at thirty cents per share exercisable on or before a date being 12 months after the First Option Date.

4. The executors of the estate of the deceased director have agreed the	
repayment of advances to the company amounting to \$15,016.40 masses	
be deterred until the premimary testing program on the company	
property, as recommended by Campbell Fox, P.Eng., in his reposition	
dated December 5, 1964, has been completed and paid for and until	
ordinary operating expenses of the company incurred prior to	Communication of the Communica
completion of such program have also been paid.	

MINNITAKI IRON RANGE LIMITED

Statement of Deferred Exploration, Development and Administrative Expense from Incorporation on October 13, 1964 to March 31, 1965

EXPLORATION AND DEVELOPMENT

Prospecting and surface exploration	\$ 8,815.18
Geological fees	4,884.00
Diamond drilling	8,634.21
Engineering salaries and expense	2,076.22
Camp expense	3,231.62
Fees, licences and extensions	4,476.00
Travel	724.10
Miscellaneous	390.33

\$33.231.66

ADMINISTRATIVE

Accounting and audit fees	750.00
Bank charges	2.88
Consulting fees	800.00
Legal fees	2,500.00
Miscellaneous licences and fees	105.00
Stationery and printing	42.59
Telephone and telegraph	14.38

4,214.85	=

Deferred exploration, development and administrative expense at March 31, 1965.....

\$37,446.55

CERTIFICATE

- 1, Campbell Fox, of the Town of Brighton, in the Province of Ontario, do hereby certify:
- 1. That I am a consulting geologist, residing at R.R. #4, Brighton,
- 2. That I am a graduate Mining Engineer from the University of Nevada, Reno, Nevada, with the Degree of Bachelor of Science (1940).
- That I am a Member of the Corporation of Professional Engineers of the Province of Quebec and have practised my profession continuously since 1940.
- 4. That I have no interest, direct or indirect, in the securities or properties of the Company, nor do I expect to receive any such interest.
- 5. That the information in the accompanying report on a magnetometer survey carried out on the Minnitaki Iron Range property is based on:
 - (a) Personal association with the carrying out of a magnetometer survey over half of the 159 claim property in the Sioux Lookout area in October 1964.
 - (b) Previous experience of a similar nature on Keewatin-type iron formation in Fenton township, Ontario in 1961.
 - (c) Reference to various government publications and maps, including —Ontario Department of Mines Map No. 41h, Sioux Lookout area, 1932; aeromagnetic map sheets "Yonde" and "Sandybeach Lake", 1961.
 - (d) Reference to various publications for iron data of a general nature (e.g. The Northern Miner magazine supplement "Iron and Steel, Sept. 24, 1964").

Dated at Brighton, Ontario this 5th day of December 1964

(Signed) CAMPBELL FOX Campbell Fox, P.Eng.

MAGNETOMETER SURVEY

MINNITAKI IRON RANGE LIMITED

Sioux Lookout Area - District of Kenora

ONTARIO

SUMMARY

During the past decade increasing attention has been given to beneficiating taconite ores because of the gradual exhaustion of domestic direr shipping ore, and the demand by steel companies for ore with a minimum of 60% natural iron and less time 5% silica. Clean magnetite ore is the most desirable taconite as it can be concentrated as a rule easier than hematite or siderite. Briefly, the features to be kept in mind regarding the evaluation of an iron ore deposit are location, size, grade, physical structure and included impurities.

Due to various evident favourable and advantageous features the Minnitaki Iron Range property was acquired in the Fall of 1961 by The Gunflint Syndicate. Limited magnetometer work and concentrating tests on grab samples gave inconclusive but encouraging results.

Railway transportation would not exceed 200 miles to the Great Lakes shipping point of Port Arthur. Electric power lines and gas lines pass a distance of 30 miles to the south.

Results of the magnetometer survey just completed by the writer over half of the 159 claims show a band of iron formation 6000 feet long and up to 800 feet wide. The iron formation diverges as two separate bands to the east but irregularly coalesces to the west to form a maximum width of 800 feet.

A fairly extensive diamond drill program will be necessary to determine the grade and width of the iron formation as well as physical structure and amount of impurities. Substantial length is evident. Magnetic iron formation is indicated over 5 miles of the 6½ miles covered by the survey.

PROPERTY

Topography—The surface features in the area are typical of a large part of the Precambrian Canadian Shield. A large proportion of the region is covered by water. The west end of the property is mostly covered by cedar swamp. Towards the east the relief is more pronounced with irregular hummocky basalt ridges. The iron formation follows a more moderate ridge to the north and extends for some distance. It is moss-covered for the most part. To the east it flattens out somewhat and appears to be covered be from 20' to 40' of overburden in places. Much of the property is covered by varrying degrees of windfalls (fallen trees).

Although there are numerous small lakes, water dammed by beavers and available small creeks will constitute a more convenient supply for diamond drilling purposes.

Location—The property is located 10 miles south of Sioux Lookout in the District of Kenora, Ontario, and parallels Minnitaki Lake from 1 to 2 miles to the south. Idequate electric power lines and the Trans-Canada pipeline carrying natural gas from western to eastern Canada pass 30 miles to the south.

Claim Details—The property consists of a single block of 159 unpatented claims comprising (159 x 40) 6360 acres more or less. The claims were staked in the Patricia Mining Division of Ontario in the Fall of 1961.

Fifteen claims numbered Pa 29450 — 29464 have been optioned from T. A. Gustafson of Port Arthur. The rest are owned outright by The Gunflint Syndicate.

List of Claims

Pa 29450 — 29467	Pa 29970 — 29986
Pa 29825 — 29833	Pa 30225 — 30260
Pa 29834 — 29905	Pa 30337 — 30343

ACCESSIBILITY

The property is 190 miles from the Great Lakes shipping point of Port Arthur — 170 miles on an existing branch line of the Canadian National Railways plus 20 miles of proposed line to connect with the property. At present the property is accessible by charter plane from Sioux Lookout 10 miles to the north. Sioux Lookout is located on a main transcontinental line of the Canadian National Railways and is 245 miles by highway to Port Arthur.

HISTORY

It is evident because of the obvious outcrop of iron formation and periods of intense prospecting in the Sioux Lookout area that the presence of this deposit has been known for many years. A number of trenches and pits 30 years or older were note I on and near the iron formation. At that time low grade silicious iron formation was not economic. Relatively recent advances in iron technology helped focus attention on this deposit and other deposits of this type.

The iron formation was mapped and is shown by M. E. Hurst for the Ontario Department of Mines on Map No. 41h, 1932. This work was of a reconnaissance nature and of course covered only that limited part of the iron formation which outcropped.

With the exception of the very old trenching there is no evidence of serious investigation of this property prior to the present acquisition by The Gunflint Syndicate.

GEOLOGY IN RELATION TO IRON FORMATION

The generalized geological picture is simple. A persistent band of silicious iron formation is associated with Coutchiching greywacke sediments near its south contact with Keewatin greenstone. The general strike of the formations on the property area is N 75°E. The dip appears to be vertical or steep to the north. The iron formation extends intermittently for a length of 20 miles (Ont. Dept. of Mines, Map 41h, 1932) and is repeated to some degree, probably by folding of the sediments, on the north side of the 3 mile wide band of sediments.

There are many other occurrences of Keewatin-type silicious iron formations. A few at present have been proved economically feasible. The Anaconda Company's Nakina iron ore body is situated in a similar environment on strike about 200 miles to the northeast. This iron formation is also associated with Coutchiching greywacke sediments.

Most of the magnetite in iron formations of the Lake Superior district is believed to have formed under conditions of low-grade regional metamorphism.

MACNETOMETER SURVEY

Details concerning the recent magnetometer survey are presented as follows:

Grid—A picket line grid system was established to cover the most important appearing part of the iron formation over about half of the claim group. The base line was laid out at N 78°E to follow the iron formation as closely as possible. Lines were established at 400 foot intervals at right angles to the base line. They were cut and picketed every 100 feet and extended to the claim boundaries where possible.

Instrument — A sharpe MF — 1 fluxgate-type magnetometer with a maximum sensitivity of 20 gammas was used. This instrument has a magnetic range of \pm 100,000 gammas.

Method — Magnetic readings were taken along all lines at 100 foot intervals and at 50 and 25 foot intervals in anomalous areas. The readings were corrected for diurnal variation and plotted as relative vertical magnetic intensities from which magnetic contours were drawn on the base map.

Magnetic Survey Data —

(1)	Station readings	 4903
(2)	Length and direction of base line	 6.3 mi. at N 78°E
(3)	Line-miles of survey	 73.5 miles
(4)	Claims covered by survey —including	 82 claims
	Pa 29450 29458	Pa 29900 — 29901
	Pa 29834 — 29887	Pa 29970 - 29986

DISCUSSION OF RESULTS OF MAGNETOMETER SURVEY

Over a 6.5 mile length covered by the magnetometer survey the iron formation follows 75% of this distance, or about 5 miles. The most important part of the iron formation is located in the east part of the area surveyed. Here for a length of 6000 feet, the formation increases in width and diverges into two separate bands on the extreme east end of the area surveyed. On the west end of this band the irc formation varies in proportion, irregularly coalescing in places with adjacent bands and similar bands along strike. The indicated total width varies from 200 to 800 feet.

A large part of this band of iron formation is covered by shallow overburden. Diamond drilling will be necessary to obtain more exact information.

There does it appear to be any large scale drag folding, but some intense small scale drag folding was noted on a few outcrops in the east section. At other nearby places the bands appeared undisturbed. This condition could be caused by moderate cross-folding. Somewhat irregular magnetic contours in the area on the east end of the survey helps to bear out this assumption. Minor drag folding was not observed on outcrop or magnetically on the west part of the area surveyed.

On Claim Pa 29840, on the west end of the area surveyed, there are magnetic indications that a north-south fault offsets the east side of the iron formation 350 feet to the north.

IRON FORMATION — MAGNETIC CONCENTRATION TEST

A grab sample of the iron formation was concentrated by the Davis Tube. Results are as follows:

Product	Weight %	Soluble Iron %	D'stribution Soluble Iron %
Feed	100.0	28.0	100.0
Mag. Conc.	44.5	58.0	91.9
Tailing	55.5	4.1	8.1

Note: Examination of specimens of the iron formation collected by the writer showed the individual magnetic grains to be moderately coarse and no sulphide was observed.

CONCLUSIONS AND RECOMMENDATIONS

- Location The location in regard to Great Lakes shipping point 190 miles by rail is favourable. Location in regard to climatic conditions is not unfavourable. Location in regard to large quantities of water, fuel and power is favourable.
- Size: Substantial lengths are magnetically indicated. The width in the favourable magnetically indicated section should be checked by diamond drilling.

- Grade Gracie and width are dependent on testing by diamond drilling.
- Physical Structure and Impurities Very limited observation and testing reveal no troubles in these respects. Bulk samples should be taken from suitable iron formation outcrop for concentration tests and analysis for impurities.

It is recommended that a preliminary testing program be carried out as soon as possible to consist of the following:

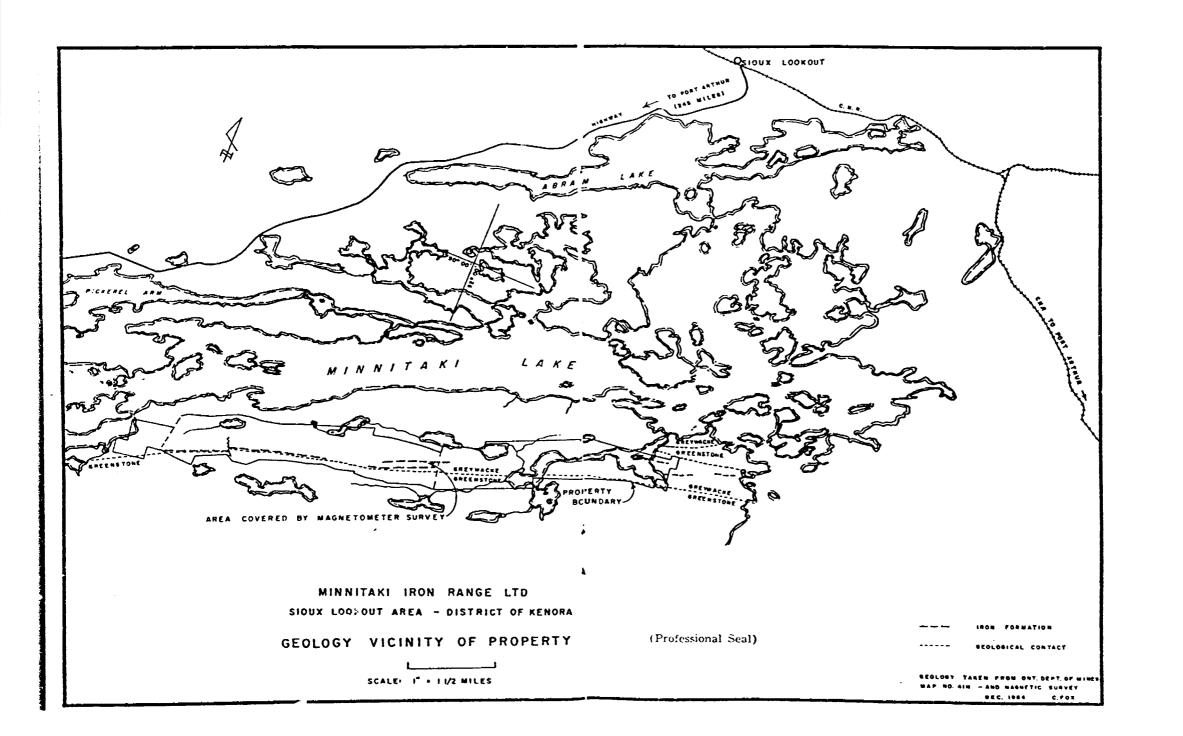
- 1. Diamond Drilling 6000'
 Cost 6000' @ \$4.50 (incl. supervision, assays, etc.)
 (in conjunction with magnetometer survey to test the eastward extension of the favourable zone)

 \$27,000
- 2. Magnetometer Survey 10 miles at 400' intervals
 Cost 10 miles @ \$120 (incl. line-cutting). \$1,200
 Total preliminary exploration cost. \$28,200

Depending on favourable results obtained from the preliminary work a second phase of drilling should be carried out to detail ore bodies for open pit mining. A minimum program consisting of 20,000' of diamond drilling would be "...y. The cost would be 20,000' @ \$4.50 (incl. supervision, ar ying, etc.) for a total of \$90,000. An additional \$10,000 should be 2' wed for bulk sampling, concentration tests and contingencies.

December 5, 1964 Brighton, Ontario

(Signed) CAMPBELL FOX Campbell Fox, P.Eng.





52G13NW8329 63.1537 KABIK LAKE

900

Use for one type of survey only

* Complete only if applicable

Submit in duplicate

Assessment Work Breakdown

1.	Type of Survey	MAGNE	TOMETER	
2.		kout.	MINNITAII	LK Slow
3.	29454 > 29458 INC Mining claim numbers to 29454 to 20458 Inc. 29860 - 61 29900 29901	Par 29463.	pagget Kast	AREA TOO
	Fn29:60,-61, Pn29900, Pn29901			
	Total 11 olains 7 o7: // C/	nins		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
4.	4. Number of miles of line cut 6.16 6.16			
* 5.	5. Type of instrument used SharpeA-3Magnetone	<u> </u>	HARPE . A-	3.MAG.
* 6.	6. Scale constant or sensitivity 30 gainmas 20	GAMM	'AS	
• 7.	7. Num. of stations established 37.06	7		***************************************
8.	8. Summary of days worked (details on reverse side) Total technical (include consultants, draughting etc. Total line-cutting (-maximum 5 men days per claim)			
	Total man-days (technical plus line-cutting)			
	Assessment days credit per claim	PATRICIA		,
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Complete list of names, addresses and dates on reverse side

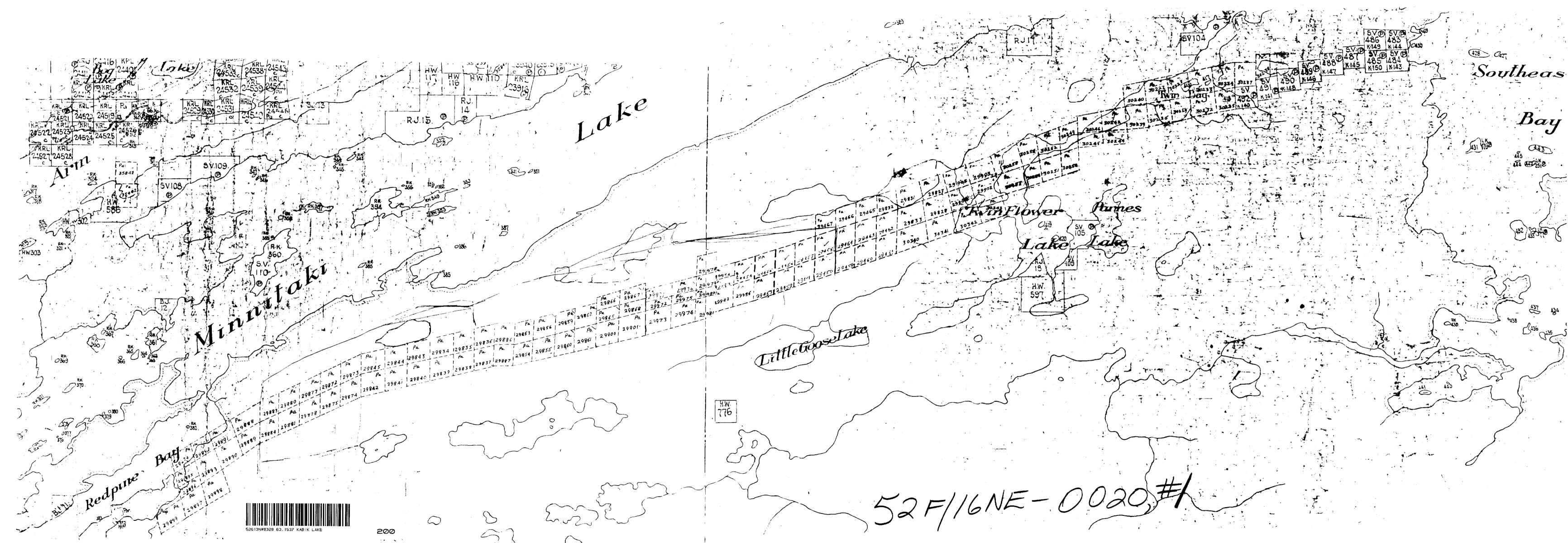
Assessment Work Breakdown

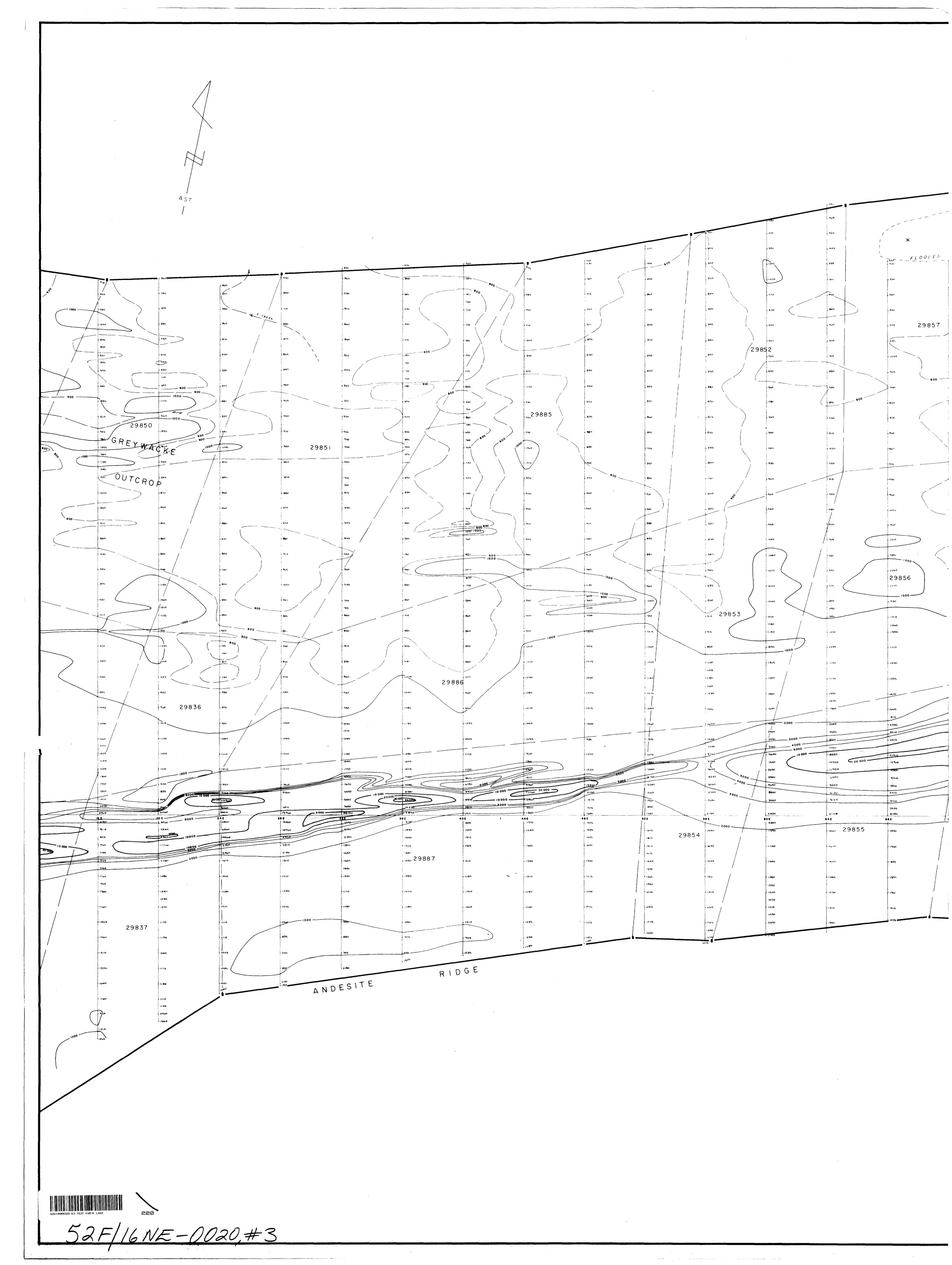
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17, 21, 22, 2	9, Rpril 16, May 12, 196	5					
Op.Sup. C. S.	Longley, South Porcuping	e, May 12, 25, 28, Aug. 11	. 88	11			
18, Sept. 1,							
Op. Robt. Bow	man, Sioux Lookout, Apr.	2, June 17, Sept.4/65	72	9			
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Consultants							
Name & Address	Dates Worked (specify in field or o		Hours	Da			
Mr C. A. Burn	as, Suite 1405, 100 Adela	ide St. W., Toronto 1.	,				
		Totals					
Draughtsman, Typir		D W 1 1	11				
Name & Address	Type of Work	<u>Dates Worked</u>	Hours	Do			
		s March 25, 24, 196	;				
Robt. Bowman	1, 11	June 19 to 22, 196	5 24				
C. S. Longley, Draughtsman, May 13, 29, July 15-31, Aug. 23-28 typing, calculations, report, Sept 7-11, 1965							
, , , , , , , , , , , , , , , , , , , ,		Totals	232	8			
Line-Cutting							
Name	Address	Dates Worked	Hours	<u>D</u>			
R. Bownan, S	ioux Lockout, Ont	Dotes Worked Sept. 1,2/ May 25, 28, Je.1-5,Au.11	,18 80)]			
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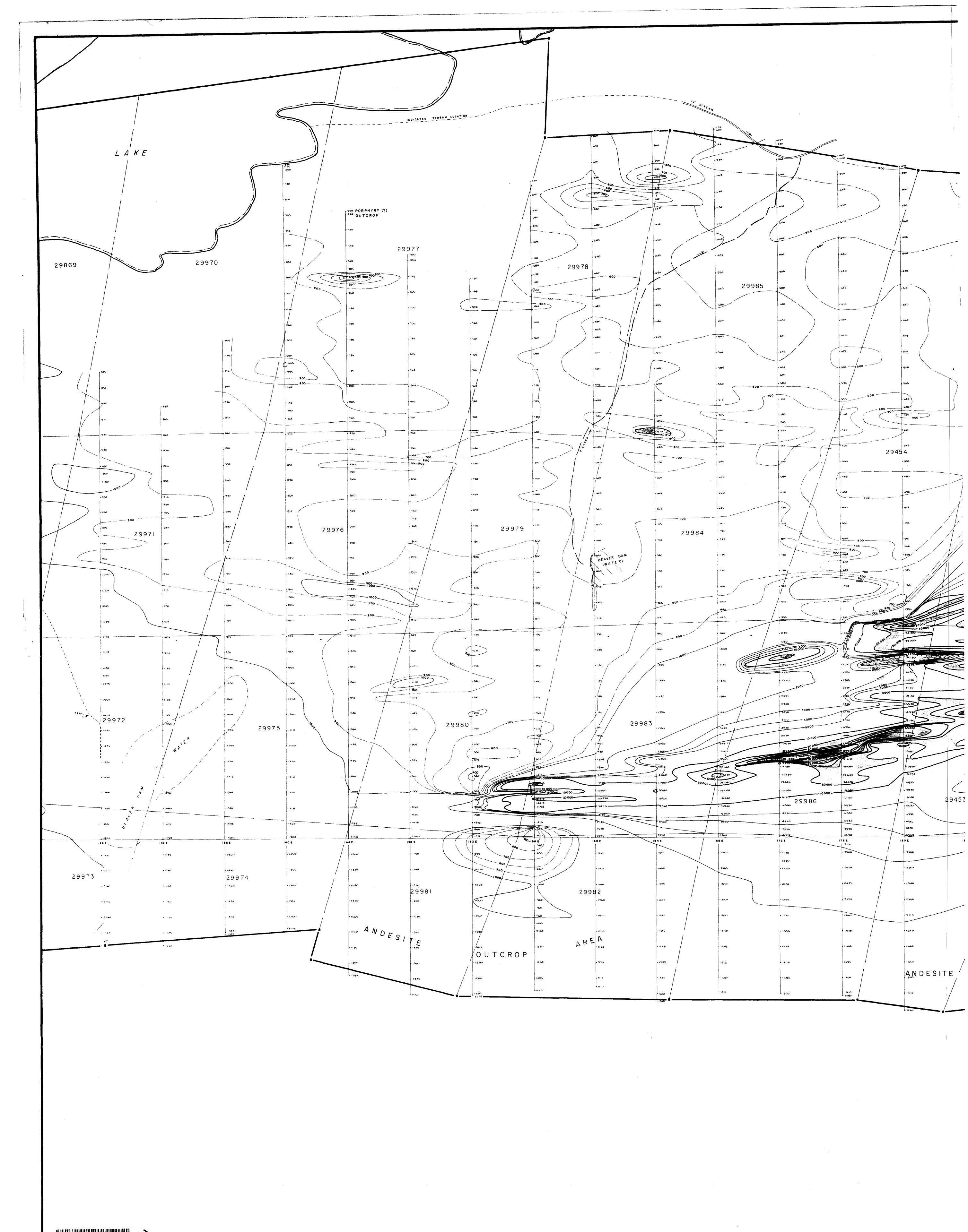
- Totals 136 17

FOR ADDITIONAL
INFORMATION
SEE MAPS:

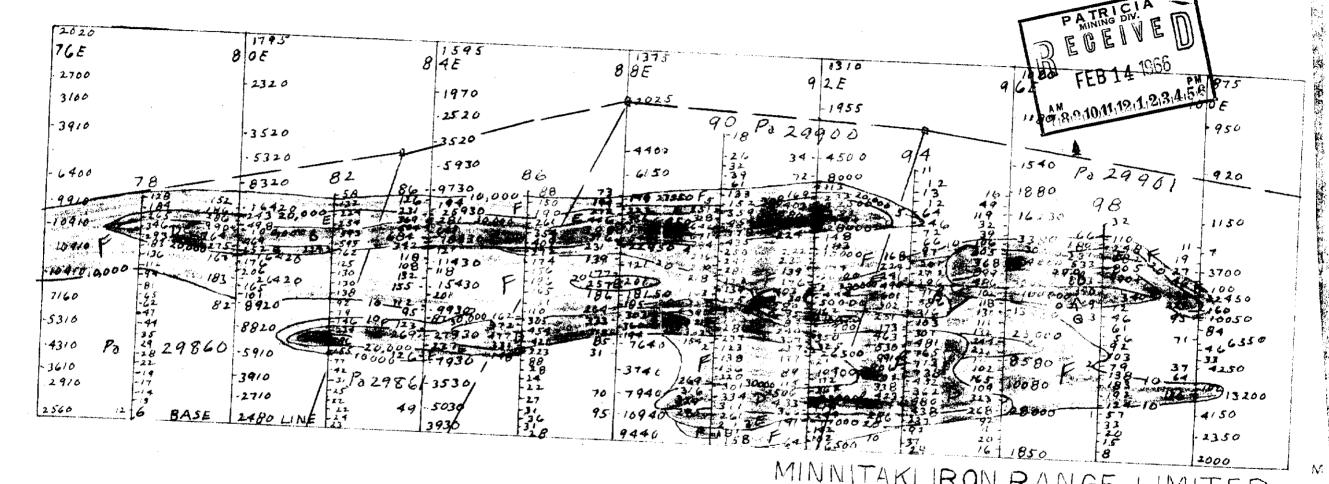
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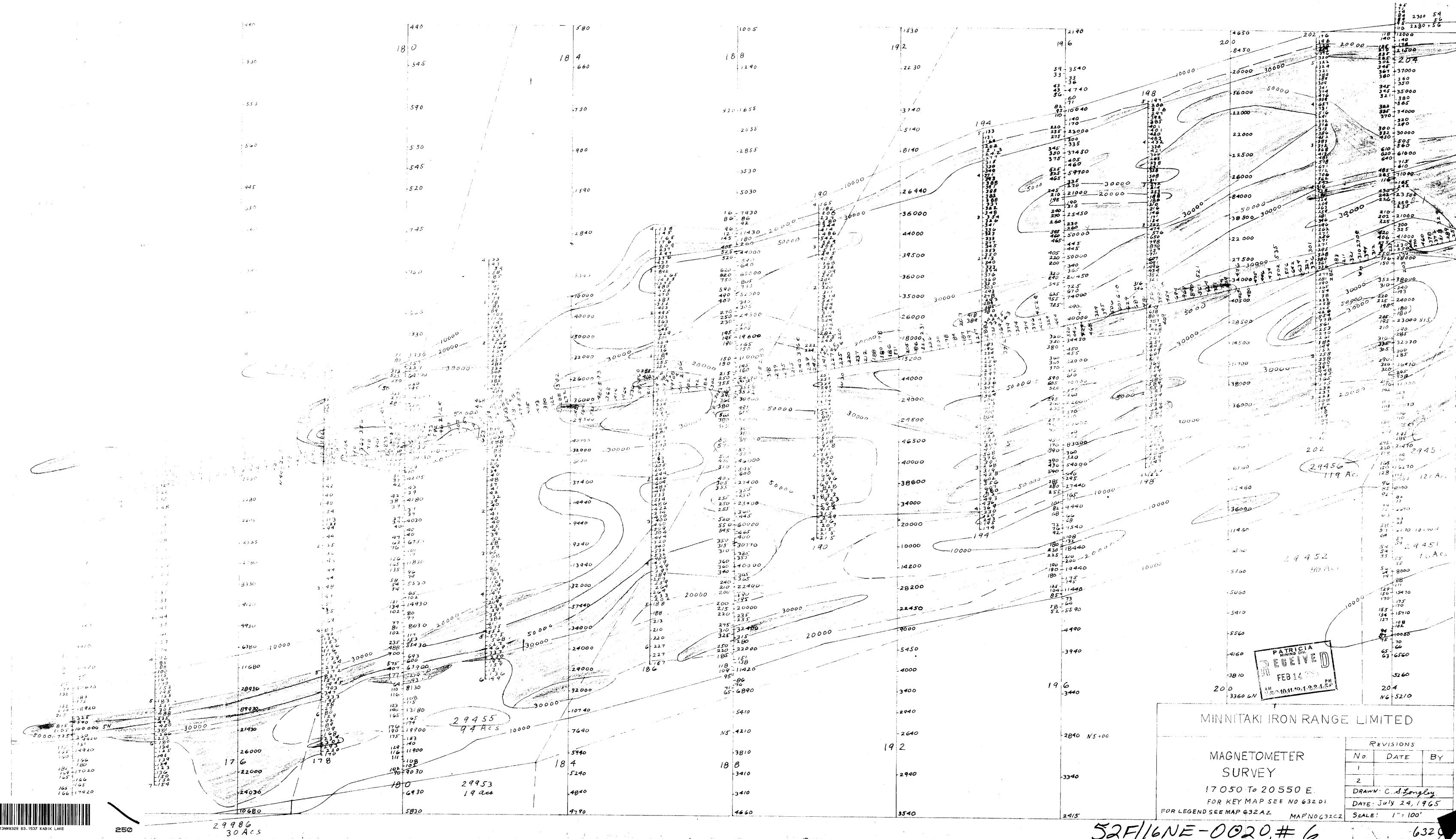
52G13NW8329 63.1537 KABIK LAKE 230 52G13NW8329 63.1537 KABIK LAKE 230



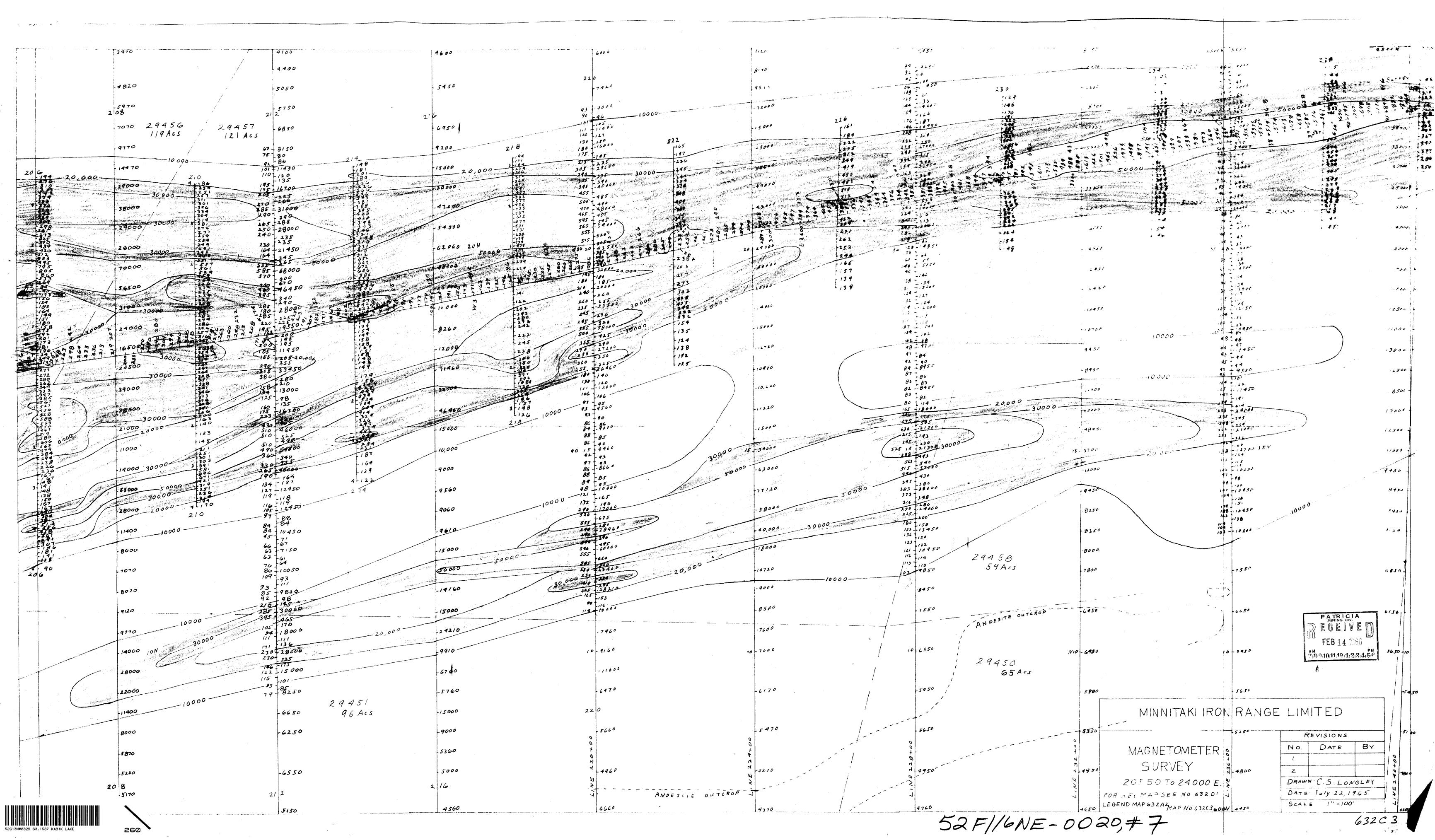
Sept. 1965 BASE FROM MAP NO. 632 FOR LEGEND SEE MAP 632A2 MAGNETOMETER SURVEY - FOR KEY MAP SEE NO. 632 DI

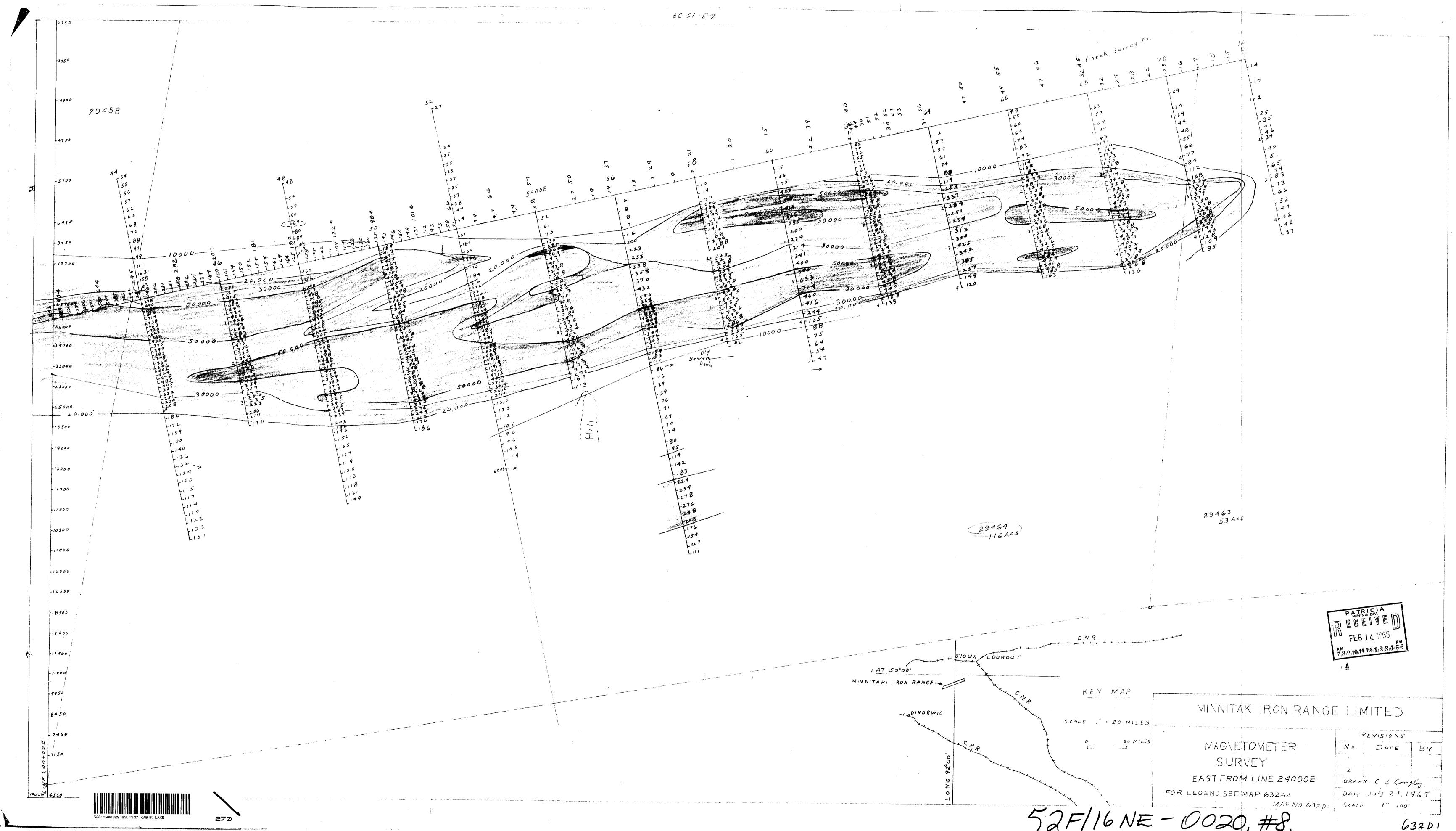


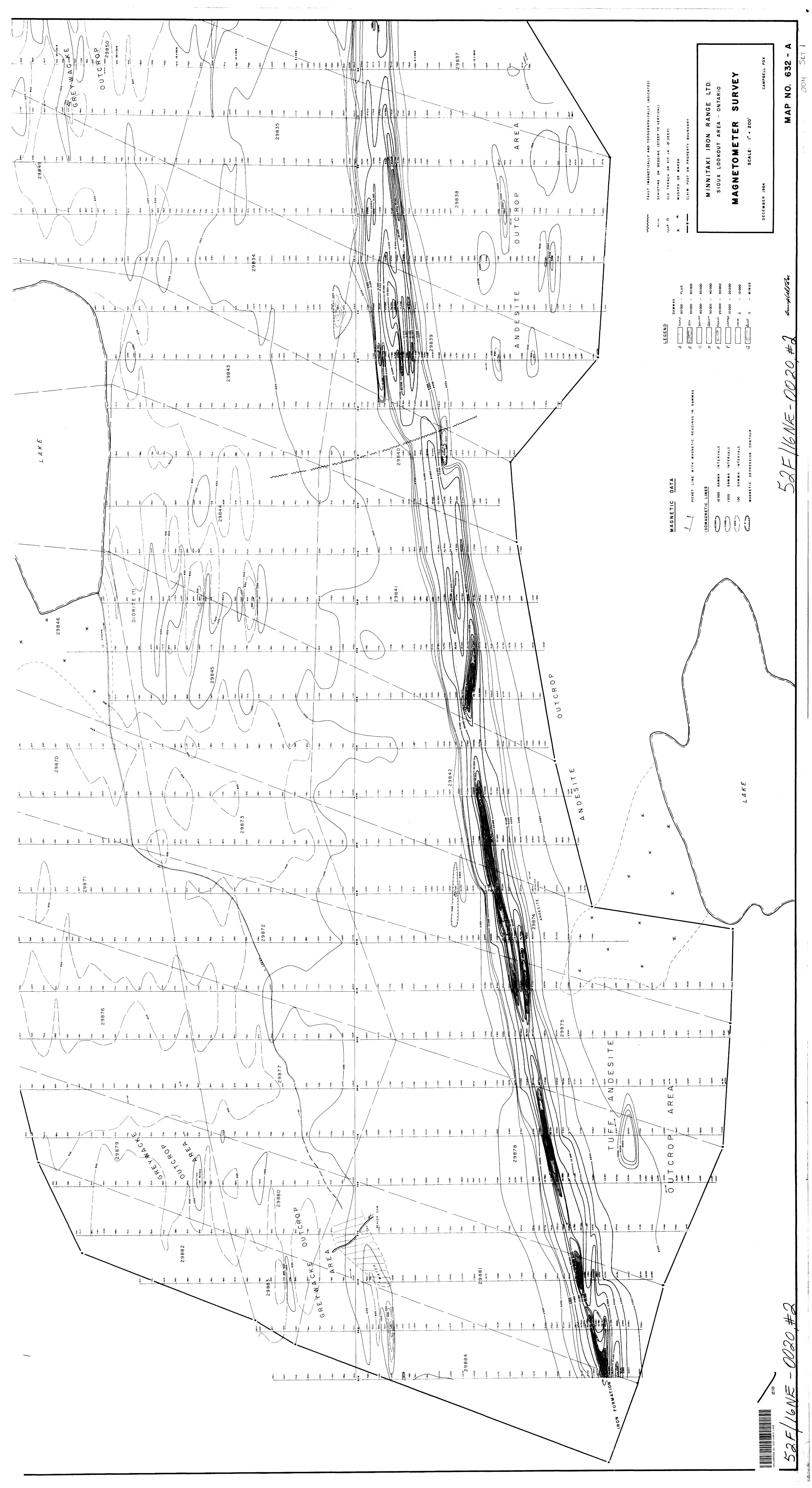


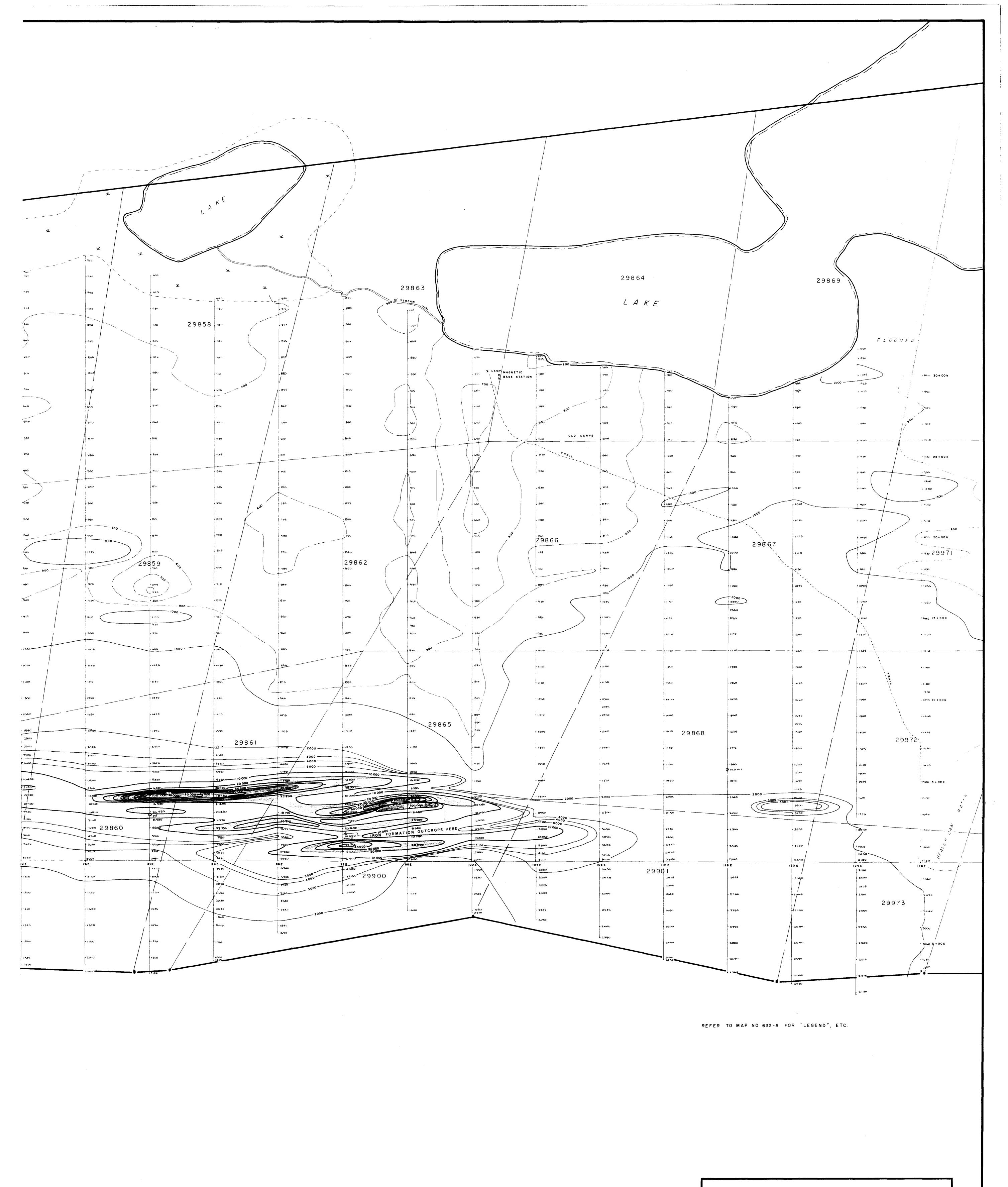


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MINNITAKI IRON RANGE LTD.
SIOUX LOOKOUT AREA - ONTARIO

MAGNETOMETER SURVEY

64 1137

SCALE: | " = 200'

DECEMBER 1964

CAMPBELL FOX

ODM

JET (

