



52K13N8837 2.2187 FAULKENHAM LAKE

010

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AUG 20 1976

MINING LANDS SECTION

SELCO MINING CORPORATION LIMITED

BLOCK 150 - 6

DIXIE LAKE AREA

GEOPHYSICAL REPORT

RECEIVED

AUG 27 1976

PROJECTS UNIT

K. Thorsen,
Cochonour, Ontario
July, 1976

INTRODUCTION

During December 1975 and January 1976, an exploration programme including linecutting, electromagnetic and magnetic surveys was conducted over the following claims:

KRL 423512 to 423518 incl.

KRL 423553 to 423554 incl.

KRL 423797 to 423800 incl.

Several conductive zones were noted.

LOCATION, DESCRIPTION & ACCESS TO PROPERTY

These claims are located in the S.W. quadrant of claim sheet M-2146 (Faulkenham Lake) in the District of Kenora, Patricia Portion.

The block can be reached by float plane from Red Lake, Ontario--a distance of approximately 12 miles.

PROPERTY OWNERSHIP

These claims are held by Selco Mining Corporation Limited, Licence T-190.

PRESENTATION OF RESULTS

The results of the horizontal loop E.M. and magnetometer surveys are presented on separate 1" = 200 ft. plans.

PREVIOUS WORK

No evidence of any previous mineral exploration was observed.

GENERAL GEOLOGY

The group lies at the extreme west end of the Uchi Lake greenstone belt. Indicated rock types from government maps are metasediments and mafic volcanics striking

approximately east-west.

GEOPHYSICAL SURVEY DETAILS

Horizontal Loop E.M.

A geonics E.M. 17 horizontal loop unit was used with a 400 ft. coil separation using a frequency of 1600 cps. Data was recorded as the in-phase and out-of-phase percentages of the primary field and plotted as a graph with a scale of 1" = 20%.

Magnetometer

A McPhar M-700 magnetometer was used with base stations established at the intersection of the base line and each cross line. Readings were corrected to conform, plotted at the scale of 1" = 200 ft. and contoured.

E.M. and magnetometer readings were taken at 100 ft. intervals on lines spaced 400 ft. apart. When anomalous conditions occurred, station spacing was dropped to 50 ft.

DISCUSSION OF RESULTS

Several conductive zones were noted but only that on Line 44W at 4 + 00S is thought to be caused by bedrock conditions. The rest have the appearance of being overburden anomalies.

RECOMMENDATIONS

One hole should be drilled to intersect the conductor on Line 44 + 00W.

Respectfully Submitted



K. Thorsen

July, 1976
ked

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2-2187

File 150-6

AUG 27 1976

GEOPHYSICAL - GEOLOGIC
TECHNICAL DATA

PROJECTS UNIT.



52K13NW8937 2.2187 FAULKENHAM LAKE

900

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

Type of Survey Geophysics
Township or Area Faulkenham Lake M-2146
Claim holder(s) Selco Mining Corporation Limited
Author of Report K. Thorsen
Address P.O. Box, Cochenour, Ontario
Covering Dates of Survey Dec. 1, 1975 - Jan. 30, 1976
(linecutting to office)
Total Miles of Line cut 8.73 mi.

MINING CLAIMS TRAVERSED			
List numerically			
KRL	✓	423512	1/3 NC
(prefix)		(number)	
KRL	1/4	423513	1/2
KRL	1/3	423514	1/2
KRL	1/4	423515	1/4
KRL		423516	
KRL	2/3	423517	3/4
KRL	1/4	423518	3/4
KRL	2/3	423553	3/4
KRL	✓	423554	1/4
KRL	✓	423797	1/4
KRL	1/4	423798	1/2
KRL	1/4	423799	1/2
KRL	✓	423800	1/4 NC

Mag. Area of claims NC = 2 1/2
 $12 \times 40 = 480 \div (12+2) = 34 4/7$
 days per claim
 Circled claim Not Covered
 E.M Area of claims NC = 5 1/2
 $12 \times 20 = 240 \div (12+5) = 14 4/7$

TOTAL CLAIMS 13

If space insufficient, attach list

<u>SPECIAL PROVISIONS</u>		DAYS
<u>CREDITS REQUESTED</u>		per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical	
	--Electromagnetic	20
	--Magnetometer	40
	--Radiometric	
ENTER 20 days for each additional survey using same grid.	--Other	
	Geological	
	Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Aug 19/76 SIGNATURE: K. Thorsen
Author of Report or Agent

PROJECTS SECTION 1.0
Res. Geol. _____ Qualifications 2.2012.
Previous Surveys no previous surveys

Checked by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

OFFICE USE ONLY

Show instrument technical data in each space for type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations E.M. 362, Mag. 473 Number of Readings E.M. 362, Mag. 473
Station interval 100 ft. with some 50 ft. intervals
Line spacing 400 ft.
Profile scale or Contour intervals Mag. - 100 gamma intervals, E.M. 1" = 20%
(specify for each type of survey)

MAGNETIC

Instrument McPhar M-700
Accuracy - Scale constant ±5 gammas
Diurnal correction method Base stations
Base station location Intersection of base line and cross lines

ELECTROMAGNETIC

Instrument Geonics E.M. 17
Coil configuration Horizontal
Coil separation 400 ft.
Accuracy ±0.5 %
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 1600 cps.
(specify V.L.F. station)
Parameters measured % primary field

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____
Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION - RESISTIVITY

Instrument _____
Time domain _____ Frequency domain _____
Frequency _____ Range _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

AREA OF 2.2187
FAULKENHAM LAKE
 DISTRICT OF KENORA
 PATRICIA PORTION
 RED LAKE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATENTED LAND P pr
- PATENTED FOR SURFACE RIGHTS ONLY P pr
- LEASES L.O.
- LICENSE OF OCCUPATION C.S.
- CROWN LAND SALE Loc.
- LOCATED LAND C.
- CANCELLED M.R.O.
- MINING RIGHTS ONLY S.R.O.
- SURFACE RIGHTS ONLY S.R.O.
- HIGHWAY & ROUTE No. 17
- ROADS ---
- TRAILS ---
- RAILWAYS ---
- POWER LINES ---
- MARSH OR MUSKOG ---
- MINES X

*used only with summer resort locations or when space is limited

NOTES

400' Surface Rights Reservation Around the Shores of All Lakes and Rivers

Areas withdrawn from staking under Section 42 of the Mining Act.

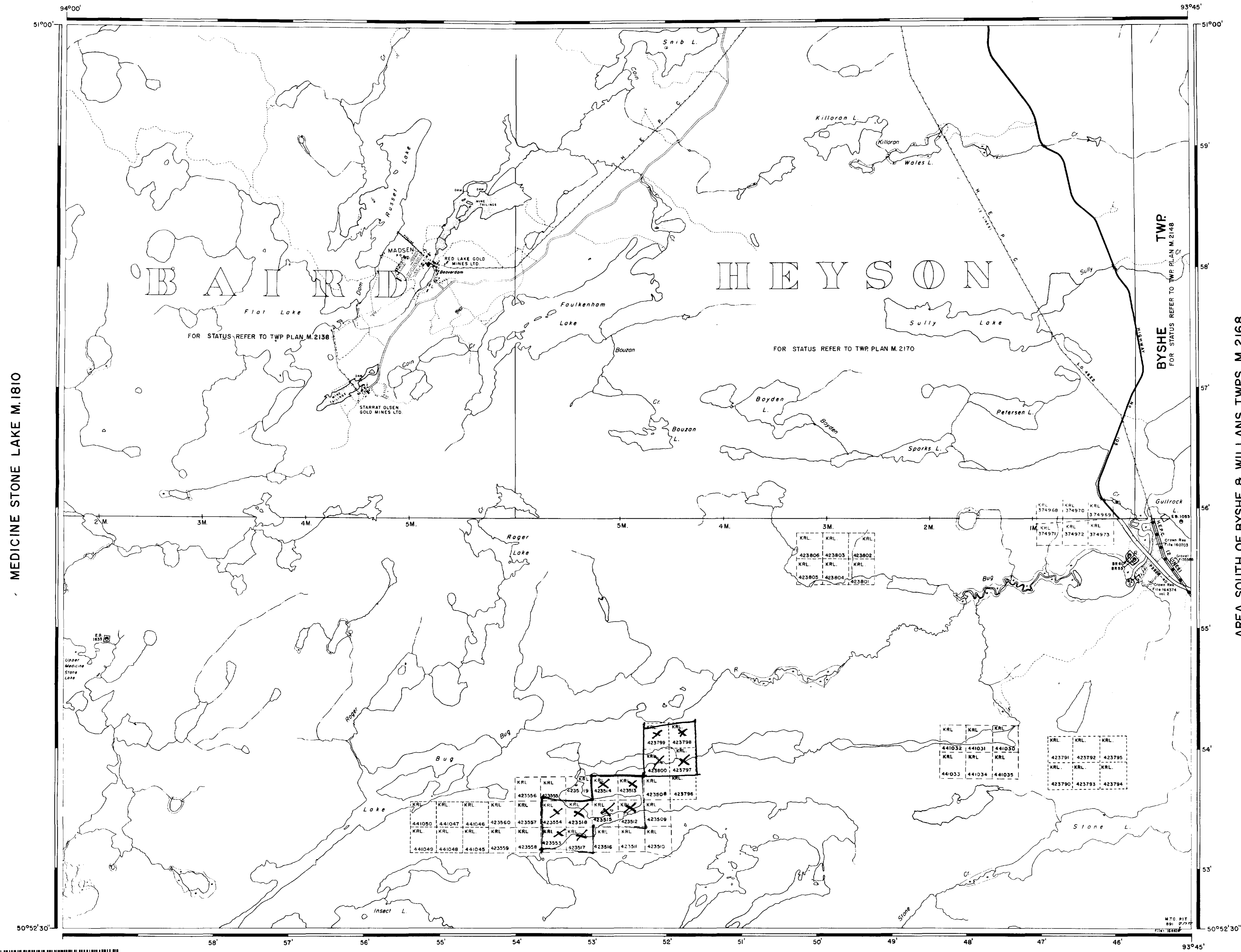
File	Date	Disposition
163474	Feb. 25/71	S.R.O.

DATE OF ISSUE
 AUG 27 1976
 SURVEYS AND MAPPING
 BRANCH

NATIONAL TOPOGRAPHIC SERIES 52 K

PLAN NO. **M.2146**

ONTARIO
 MINISTRY OF NATURAL RESOURCES
 SURVEYS AND MAPPING BRANCH



MEDICINE STONE LAKE M.1810

AREA SOUTH OF BYSHE & WILLANS TWP. M. 2168



