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RECUEVED OCT 11 1972 PROJECTS SECTION

2.1037

A REPORT ON THE

GENERAL GEOLOGY

AS RELATED TO CERTAIN ANOMALIES

ON THE PROPERTY OF

SILVERSIDE MINES LIMITED

STURGEON LAKE AREA, ONTARIO



Thunder Bay, Ontario August 10, 1971 M.W. Bartley, P.Eng.

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INTRODUCTION

Silversides Mines Limited commissioned M.W. Bartley & Associates Ltd. to map the exposed rock in the vicinity of magnetic and electromagnetic anomalies previously outlined on a group of mining claims at Sturgeon Lake, Ontario.

The <u>geological mapping</u> was done by <u>D.C. Martin, geologist</u>, during July and August, 1971

CONCLUSIONS

Outcrop is not prevalent but exposures indicate that the claims are underlain by mafic and felsic volcanics.

Electromagnetic conductors correlate with shear zones containing varying quantities of pyrite and pyrrhotite.

The sources for the conductors might be determined by further detailed geophysical exploration, but a limited program of diamond drilling would produce more definitive results.

RECOMMENDATIONS

Initially three diamond drill holes should be located and drilled to test the sources of conductors "A" and "B". The holes should be located on line 44 at 1350S, on line 32 at 900S, and on line 20 at 1350S. The three holes should be drilled at azimuths of 360° and declinations of 45° . Each hole should be approximately 400 feet long depending on material encountered. If favourable geological conditions are encountered, the ground electromagnetic survey results should be reassessed to determine whether further geophysical work is required before further diamond drilling is undertaken.

PROPERTY AND LOCATION

The Silversides Mines Limited property consists of <u>31 claims</u> registered as:

P.A. 244301 to P.A. 244305 inclusive

P.A. 247201 to P.A. 247208 inclusive

P.A. 244213 to P.A. 247230 inclusive

The claim group is situated immediately west of King Bay, Sturgeon Lake, and approximately five miles east of Highway 599 from Ignace to Savant. Easiest access is by float or ski-equipped aircraft from Ignace or Savant.

PREVIOUS EXPLORATION

A combined <u>airborne</u> magnetic and electromagnetic survey was carried out over 28 of the claims by Scintrex Limited during March, 1970.

Follow-up ground magnetic and electromagnetic surveys were done by Prospecting Geophysics Limited on 31 claims during March, <u>1971</u>. These surveys outlined two areas containing conductive zones, all of which trend in a general east-west direction. The more significant area is in the east-central part of the property where three essentially parallel zonss, "A", "B" and "C", have been outlined. Three weaker conductors are located to the west. Details on these conductors are contained in the report by Prospecting Geophysics Limited dated March 30, 1971.

GEOLOGY

Outcrops are sparse but sufficient to indicate the general constitution of the bedrock.

The majority of the exposures are altered volcanics of mafic composition. Included are fine-grained, chloritized and carbonatized pillow lavas.

Minor occurrences of altered felsic volcanics appear to be stratigraphically concordant with the basic phases. One horizon, immediately north of the tie-line, is porphyritic and may represent an acid intrusive.

Carbonate and sulphides, principally pyrite, are ubiquitous but not plentiful.

GEOLOGY RELATIVE TO THE CONDUCTORS

The detailed geology as it can be ascertained from outcrops close to the electromagnetic conductors appears to be fairly uniform.

Zone "A" - The east end of the conductor on line 32W and 800 feet south of the baseline coincides with some trenches on an east-west trending shear in basalt and felsite. Minor amounts of pyrite are disseminated throughout the shear. The western portion of the conductor is bounded by massive mafic rock. Zone "B" - On line 20W and 1300 feet south of the baseline the electromagnetic conductor correlates with a seven foot wide shear in basalt which can be traced for approximately 60 feet. This shear contains a heavy gossan but sulphide mineralization is not prevalent. The west end of the conductor is beneath overburden but nearby outcrops are massive basaltic rock.

There is a possibility that zone "B" unites with the western portion of zone "A".

Zone "C" - This electromagnetic conductor on line 34W at 1900 feet south of the baseline and on line 36W at 1800 feet south of the baseline coincides with a shear zone varying from 6 to 11 feet in width in basalt. The shear at these locations contains narrow stringers of pyrite. The eastward trace of the conductor, on lines 28W and 24W, lies in a narrow, wet area where small outcrops of mafic and felsic rock were noted.

<u>Zones "D" and "E"</u> - These zones are beneath Leith Lake or beneath the boggy areas surrounding the lake.

<u>Zone "F"</u> - The electromagnetic conductor here is short and weak but not considered to be of significance.

Respectfully submitted,

MININC M.W. Bartley, -Eng Presiden OLINCE OF ONT

Thunder Bay, Ontario. August 10, 1971.

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CERTIPICATE

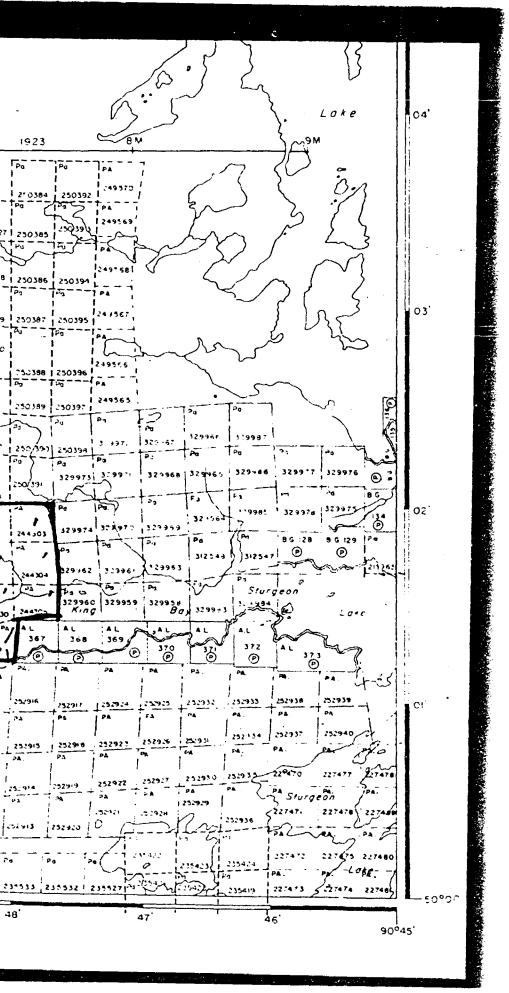
I, M. W. Bartley, of the City of Thunder Bay, in the Province of Ontario, do hereby certify that:

- 1. I am a geologist with an office at 202 Toronto-Dominion Bank Building, Thunder Bay, Ontario.
- 2. I am a member of the Association of Professional Engineers of the Province of Ontario.
- 3. I am a graduate of the University of Manitoba with a degree of Bachelor of Science in the year 1934, and a graduate of the University of Toronto with a degree of Doctor of Philosophy in the year 1940. I have been practising my profession since these dates.
- 4. I hold no interest whatspever, directly or indirectly, in the securities or property of Silversides Mines Limited, nor do I expect to receive any.
- 5. The geological mapping was performed by D. C. Martin, B.Sc., under my supervision during July and August, 1971.

DATED at Thunder Bay, Ontario, this 10th day of August, 1971,

M. W. Bartleys Z.E. M. W. 8 157

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Township or Arca Sturgeon Lake Area	List numerically
Type of Survey <u>Geological</u> A separate form is required for each type of sur	P.A. 244301 - P.A. 244305
Chief Line Cutter	P.A. 247201 - P.A. 247208
or Contractor	P.A. 247213 P.A. 247228
Address Party Chief D. C. Martin	
Name	
202 Toronto-Dominion Bank Bldg., Thunder Bay, Ontario Address	2
Consultant <u>M.W. Bartley & Associates Ltd.</u> Name	
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Line Cutting	PROJECTS SECTION
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	DEPARTMENT OF MINES & NORTHERN AFFAIRS
DATE October 6, 1972	WHITNEY BLOCK QUEEN'S PARK
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Performance and coverage credits do not apply to airborne surveys

PERFORMANCE & COVERAGE CREDITS

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Township or Arca <u>Sturgeon Lake Area</u>	List numerically
Type of Survey <u>Geological</u> A separate form is required for each type of survey	
Chief Line Cutter	
Address	P.A247213P.A247228
Party Chief D. C. Martin	
202 Toronto-Dominion Bank Bldg., Thunder Bay, Ontario Address	
Consultant M.W. Bartley & Associates Ltd. Name	, · · · · · · · · · · · · · · · · · · ·
202 Toronto-Dominion Bank Bldg., Thunder Bay, Untario	
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Geophysical Survey □ Show Check ✓	Send in duplicate to: FRED W. MATTHEWS
Geochemical Survey	SUPERVISOR-PROJECTS SECTION DEPARTMENT OF MINES &
DATE October 6, 1972	NORTHERN AFFAIRS WHITNEY BLOCK OUFFN'S PARK
SIGNED Sicher	QUEEN'S PARK Toronto, ontario

Performance and coverage credits do not apply to airborne surveys

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Ministry of Natural Resources Telephone 416:965-6918

Room W 1617 Parliament Buildings Toronto, Ontario M7A 1X1

January 3, 1973

52 J/02 SW(30)

Mr. W. A. Buchan Mining Recorder Court House Sioux Lookout, Ontario

Dear Sir:

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داف الاستيار والمتحاد

Re: Mining Claims Pa. 244301 et al, Fourbay Lake File 2.1037

The Geological assessment work credits as shown with my Notice of Intent dated December 18, 1972 have been <u>approved</u> as of the date above. Please inform the recorded holder and so indicate on your records.

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Yours very truly,

Filmacke

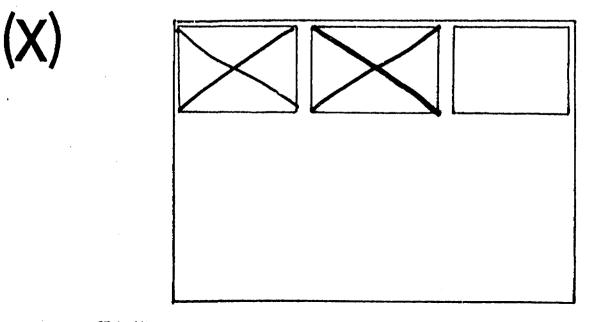
Fred W. Matthews Supervisor Projects Unit

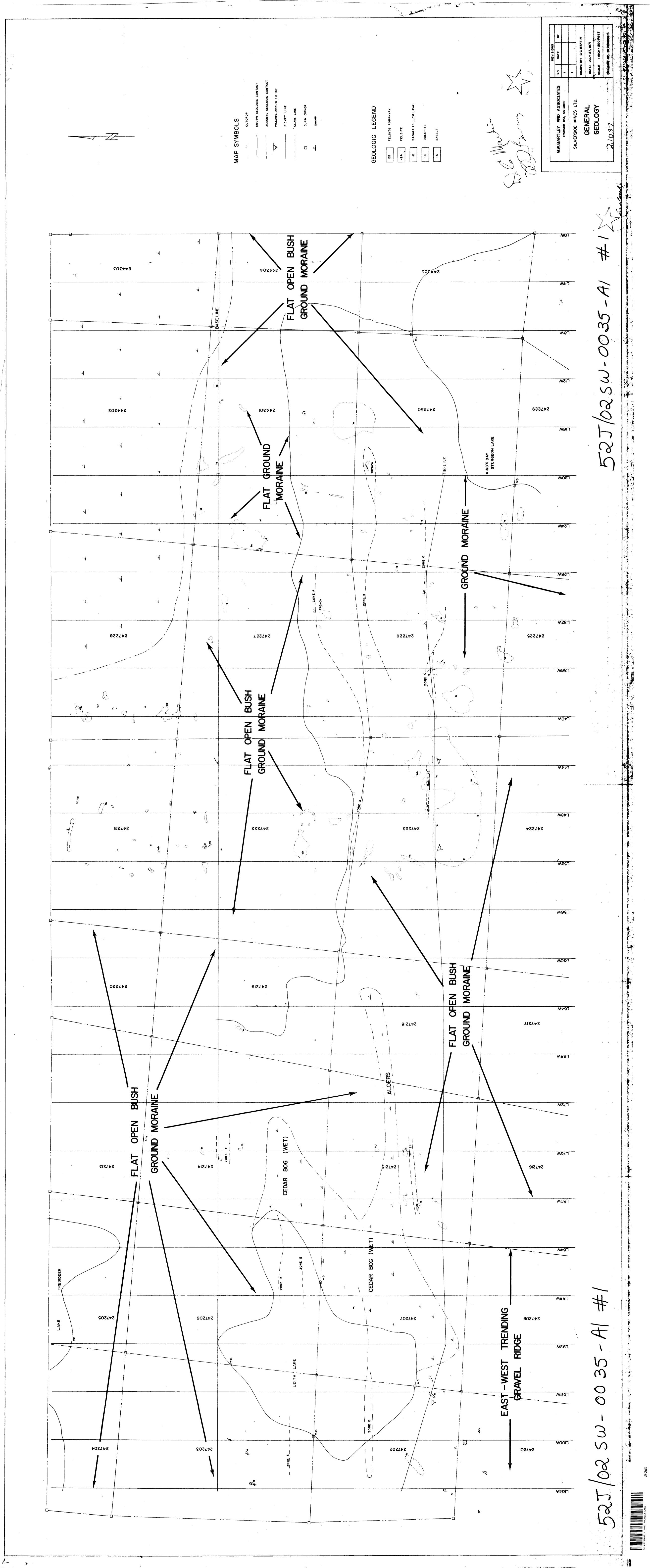
- cc: M. W. Bartley & Associates Ltd., 202 Toronto Dominion Bank Bldg., Thunder Bay "P", Ontario.
- cc: Silversides Mines Limited, Suite 901 - 159 Bay Street, Toronto, Ontario.
- cc: Resident Geologist, Kenora, Ontario.

SEE ACCOMPANYING MAP(S) IDENTIFIED AS

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LOCATED IN THE MAP CHANNEL IN THE FOLLOWING SEQUENCE





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