

Geological Assessment Report
Report no. 8106 3.2

Geology of the Potimo Claim Group Horwood Township, Ontario NTS 41 - 0/16

Gold Fields Canadian Mining Ltd. 335-230 Lakeshore Rd. East Mississauga, Ontario L5G 1G8

> by Ed Sawitzky December, 1983

> > RECEIVED

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MINING LANDS SECTION

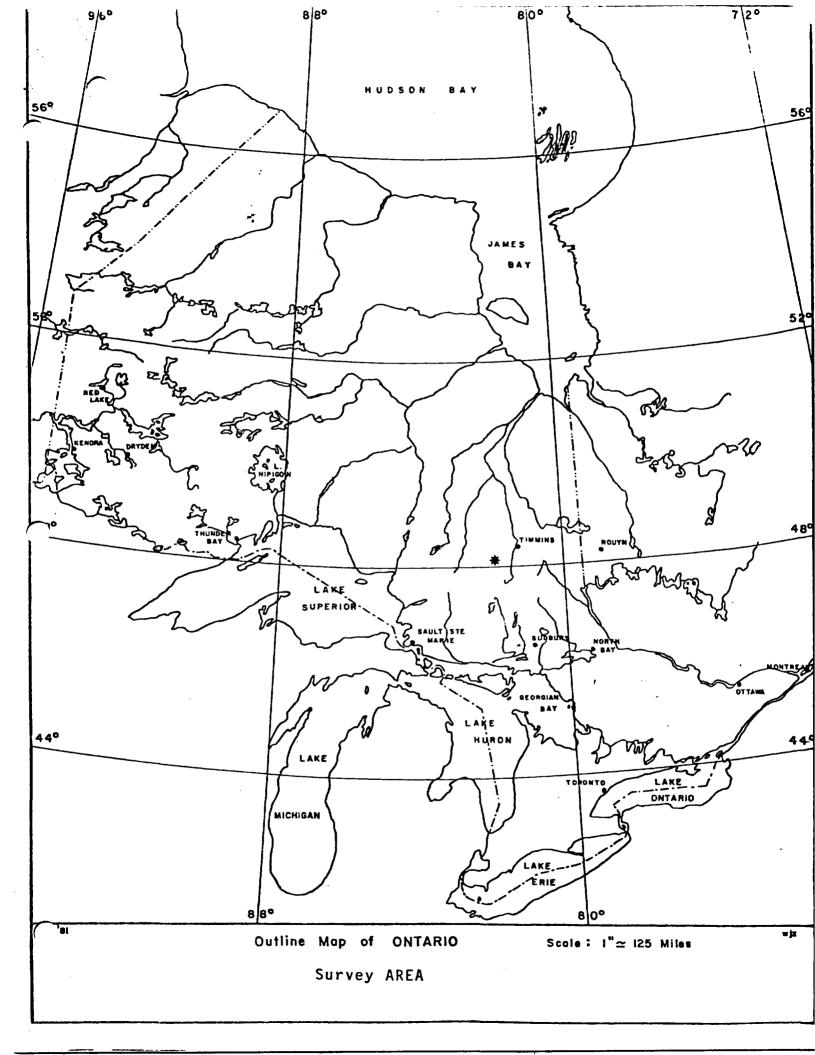
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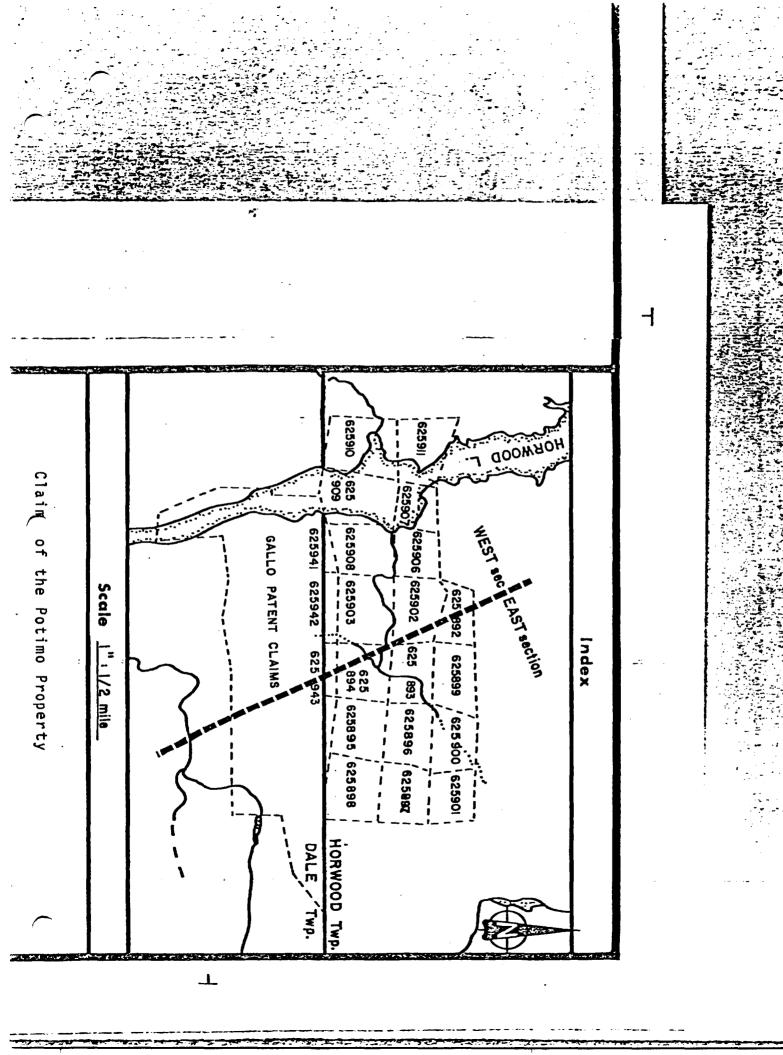
41016NW0019 2.6412 HORWOOD	21 0 C
Key Map	(1) (2) (3) (3) (3) (3) (4) (4) (4) (5) (7) (8) (9) (9) (9)
TABLES	
Table 1 Lithologic Units for Potimo Property FIGURES	(5)
Figure 1 Key map showing location of survey area Figure 2 Claim / index map showing Potimo claim gr	(1) coup (2)

ATTACHMENTS

Geological Maps (back pocket)

Map no. 8106.3 a. Geology, west half of Potimo Claim Group, Dist. of Sudbury, Scale 1:2500 b. Geology, east half of Potimo Claim Group, Dist. of Sudbury, Scale 1:2500 c. Geology, alteration zone of Potimo Claim Group, Dist. of Sudbury, Scale 1:1000





INTRODUCTION

This report pertains to the geological survey covering the Potimo claim group, registered under Darius Gold Mine; c/o Gold Fields Canadian Mining Ltd. Mississauga, Ontario.

Field work began July 28, 1982 and continued intermittently until Nov. 5, 1983.

LOCATION AND ACCESS

The survey area is located in the Foleyet region (Northeast Ontario), 56 air miles (90 kms) southwest of Timmins. The property is accessible from Timmins via Highway 101 (west) to the Palomar road turn off, go south via an Ontario Forests public access road to Wade's Camp, on the northwest shore of Horwood Lake, then lastly, via boat to the claim group.

GRID DESCRIPTION

The Potimo grid consists of 26 grid lines, a baseline and one tie line cut and chained for a total of 34.98 kms. The baseline was turned off the Dale-Horwood township line, approximately 850m (½ mile) east of Horwood Lake with an azimuth of 68°. Grid lines were turned off the baseline every 125m (90 degrees) and chained at 25m intervals.

TOPOGRAPHY AND VEGETATION

The terrain is "rugged" or hilly on the west side of the property with an elevation of approximately 100-125 ft. (38m) becoming gently undulating to flat, low lying and swampy progressively eastwards. This corresponds to decreasing rock exposure eastward, average outcrop density is 10-15%. Except for Horwood Lake no other lakes or rivers occur on the property. Drainage, poor to the east, is via one main creek traversing the entire property. Overburden consists of a basal till overlain by either fine outwash sands or silty clays of varying thickness.

A typical, mixed boreal forest vegetation covers the property consisting of "high ground" poplars, birches, jack pines, mountain maple and "low ground" black spruce, balsam fir and alder. Large white and red pines are scattered throughout the area.

FIELD METHODS

The claim group was mapped at a scale of 1:2500 (metric) on the above described grid (see map no.8106 3.2a,b). Location of features between picket lines used by pace and compass from a known location. Detailed mapping at a scale of 1:1000 (metric) was done over a small area, between lines 5+50E and 3+75E, south of the baseline (see map no. 8106 3.2c).

PREVIOUS WORK

The Cambach Syndicate staked 24 claims in 1922-33 on the east side of the south arm of Horwood Lake. Stripping and trenching was carried out over a small area on a shear zone. "Low gold values have been obtained from the shear zone and from an adjacent quartz vein. In 1934 the shear zone was explored by diamond drilling to the extent of four holes aggregating 400 feet (122m). Low gold values were obtained " (Harding, 1937, p. 25)

No additional work is reported. However, shortly after the original work, the shear zone was traced southwest into Dale Township where approximately 20 trenches were dug at various intervals along a 350m strike length. (The latter may be the result of work performed on the Burke claims circa 1940).

No recent exploration work has been carried out in this area, ie. no reference to this property has been made in the O.G.S. Report 169, by Breaks (1978)

This portion of the Swayze greenstone has been mapped by Laird. (1935), Harding (1937), and more recently by Breaks (1978).

GENERAL GEOLOGY

The Potimo claim group lies within a generally east-west trending metavolcanic-metasedimentary belt known as the Swayze greenstone belt (Goodwin, 1965) Breaks (1978, p5) describes the area as follows: "All bedrock is of Early Precambrian (Archean) age with the exception of Middle to Late Precambrian diabase dike swarms. Mafic metavolcanics predominate and together with minor felsic metavolcanics comprise the oldest rocks.... Pretectonic mafic to ultramafic plutons of variable size, which are especially notable in Horwood township, invade the metavolcanic sequence, and are believed to be consanguineous with Early Precambrian mafic volcanism..... The syntectonic domical Hardiman Lake Pluton, consisting predominately of foliated trondjemite, invaded the supra-crustal sequence in southeast Horwood Township and induced east-west to north-south trending cross-folds adjacent to the pluton near Great Pike Lake". Metasediments are rare in the area. Regional metamorphism is within the greenschist facies.

The geology south of the Horwood Township line is poorly understood, no recent mapping of the area has been attempted.

GEOLOGY OF THE POTIMO CLAIM GROUP

The Potimo claim group is underlain by mafic and felsic metavolcanics which are intruded by small masses of metagabbro and narrow felsic sills.

Mafic metavolcanics constitute the major lithologic unit underlying approximately eighty percent of the property. All of these rocks have been affected by greenschist facies metamorphism. These rocks range in character from massive to pillowed

TABLE 1

Lithologic Units:

Potimo Property

Cenozoic Quarternary Recent

Lake, stream and swamp deposits

Pleistocene

Glacial drift, sand and clay

Unconformity

Precambrian

Early Precambrian (Archean)

Late Felsic Intrusive Rocks

all dikes, sills of quartz monzonite (?) composition varying from fine to medium grained, massive to porphyritic, with or without phaneritic quartz, feldspar.

Intrusive Contact

Mafic Intrusive Rocks fine to coarse grained metagabbro

Intrusive Contact

Metavolcanics

Felsic to Intermediate Metavolcanics
Tuff, crystal tuff, lapilli-tuff, tuff breccia,
massive quartz and/or feldspar-bearing subvolcanic
(?) rocks.

Mafic to Intermediate Metavolcanics

fine to medium grained, massive to pillowed mafic metavolcanic flows, flow top breccia, hyaloclastite, variably amygdaloidal, porphyritic, variolitic, mafic breccia, banded metavolcanics, choritic schists, crenulated metavolcanics, immature interflow metasediments (greywackes).

 ϕ playing amygdaloidal and variolitic structures. Typically the ϕ ic metavolcanics are fine grained to aphanitic, less commonly medium grained, with fresh surface colours of pale to dark green and grey green and a weathering surface of grey green or buff green.

Amygdules range from less than one percent to, rarely, a maximum of three precent. Variolitic structures vary in character and distribution. They are commonly small (1-3mm) subspheroidal structures ranging from less than five percent, to areas containing up to twenty to forty percent. On the west side of Horwood Lake immissible (?) felsic masses, best referred to as "blobs" with diameters ranging from five to twenty centimeters, are found within massive mafic volcanic flows. The latter felsic blobs and the variolitic structures are not confined to a specific flow horizon but rather form a zone located south of, and along strike of, the felsic metavolcanics on the property.

A facies change occurs within the mafic volcanics across the map area; to the north, massive and pillowed mafic flows grade southwards into a sequence of mafic breccias intercalated with much less abundant feldspathic tuffs and wackes. Mafic flows, though present, are uncommon within the latter sequence. (West of grid line 0+00 the transition from flows to breccias, tuffs etc. occurs south of the Horwood-Dale Township line, east of L0+00 these same rocks occur south of the baseline (0+00)). In turn these breccias and tuffs are overlain (?) to the south by more massive and pillowed mafic metavolcanic rocks.

The nature of the latter mafic breccias is obscured by intense to moderate shearing and alteration. These rocks typically contain "wispy" shaped lapilli and breccia fragments, monolithic in composition, generally altered due to shearing, and with little if any supporting matrix. In part they form as fragmental upper zones (tops) of massive flows. In other areas (especially south of the baseline) large outcrops of solely mafic breccias occur, with no readily discernable layering. These may represent pyroclastic deposits, suggested by the presence of narrow (10-40 cm wide) intercalated beds of feldspathic tuff (the latter, occassionally displaying grading). Epiclastic sedimentation (feldspathic wackes), best recognized in drill core, forms only a very minor component of the stratigraphy, and is restricted to the area containing the mafic breccias. These epiclastic rocks appear to occur at several horizons within the breccia zone and represents "brief hiatuses" in volcanic activity.

The felsic metavolcanics constitute approximately 10% of the rocks on the property and are found mainly in the northwest corner of the property, east of Horwood Lake. These rocks vary from massive porphyritic (quartz and/or feldspar) felsic flows? intrusions? to fragmental rocks ranging from lapilli-tuff to (rarely) tuff-breccia. These rocks weather to a pale creamy buff or greyish green colour and have a fresh surface colour of pale greenish grey.

Small scale grading in an outcrop of lapilli-tuff corresponds well with an "overall" grading northward from tuff breccias to crystal tuffs. These outcrops, on the extreme northeast shoreline

of Horwood Lake in the study area, suggest that in part at least to se felsic volcanics are pyroclastic in origin. Further to the east the rocks are massive in nature, lacking any grading and contacts were not exposed. Their origin is problematic.

Mafic intrusions which constitute approximately 10 % of the rocks on the property are located in a zone central to the property. They occur in several small north-south and east-west trending bodies. These fine to coarse grained, rarely porphyritic, metagabbros may in places contain quartz or a minor pegmatitic phase.

Felsic intrusions comprise less than 2% of the rocks in the map area, occurring as scattered, generally narrow (0.5 m - 3.0m) sills (rarely dikes). These yellowish creamy weathering rocks are always aphanitic in texture and tend to be concentrated in the southern portion of the property where extensive shearing occurs. They appear to be the youngest rocks on the property.

STRUCTURAL GEOLOGY

There is a corresponding structural facies change with lithology across the property. Deformation is intense and localized within a relatively narrow zone (south of the baseline 0+00), corresponding to the area containing mainly mafic breccias. The key structural element here is shearing. North and south of the zone deformation is weaker as evidenced by decreasing pillow attenuation. (This interpretation incorporates data obtained from geological mapping in the northern portion of Dale Township, not included in this report).

Stratigraphy trends approximately east-west (260°-270°) and dips steeply (85°-60°) to the north. Although numerous facing determinations were obtained, the implied structural complexity maybe more apparent than real. Small isoclinal drag folds, outcrop scale, were observed in the zone of intense deformation, however, these may be related to shearing in this zone. (The significance of any major folding in the area will require a more regional mapping approach).

Rocks underlying the Potimo claim group are characterized by two foliations and a strong mineral lineation plunging to the west. Fi, the dominant foliation, is parallel to bedding (Sò), trending approximately 260°-270°, dipping steeply north. The F2 foliation trends approximately 235°-245° also dips north but varies from 70°-20°. In the aforementioned zone of intense deformation, F3 becomes the shear direction and the axial planar direction of the small scale isoclinal drag folds. Only in this zone of intense deformation does the F2 foliation direction also correspond with several other structural elements including kink banding, left-lateral fracture displacements and drag folding. Stretched variolites and amygduales all plunge westerly from 80°-20°.

Faulting with associated shearing occurs in several places throughout the property. A left-lateral sense of displacement appears to be most common.

MINERALIZATION AND ALTERATION

All rocks in the map area have undergone low greenschist facies metamorphism. Aside from this the only significant alteration in the area occurs within the zone of strong deformation and lithological facies change, mentioned above.

Noteable alteration features occurring in this zone include:

the alteration mineralogy (listed in decreasing abundance)

a. fine grained magnetite

- b. carbonate (calcite mainly, with lesser iron-rich carbonates).
- c. epidote
- d. sericite
- e. specular hematite
- f. quartz-tourmaline (stringers)
- 2. The extensive development of secondary, fine grained, dusty magnetite disseminated throughout the various rock types in the zone of deformation has left an overall high magnetic signature on this zone.
- 3. The most significant feature, however, is the presence of several distinct and narrow alteration zones, commonly associated with shearing, occurring within this broader altered package of rocks. On an outcrop scale, these alteration zones are to parallel stratigraphy, however on a more "regional" scale, alteration appears to transect stratigraphy.

Although the alteration zones vary somewhat from each other, they do have common characteristics which may include:

- a. Deformation: the rocks are generally schistose due to shearing; other structural features incluse kink-banding, fracturing, drag folding, boudinaging and the development of crenulations.
- b. Alteration: In the host rocks bounding the alteration zone, pervasive and stringer-type calcite alteration occurs. In the main alteration zone, calcite and iron-rich carbonates (as carbonate rhombs, stringers or thin bands) give the appearance of "chemical layering".
- sericitization, strong to weak.
 silicification, in the form of quartz stringer/veins (0.5cm-20cm wide disseminated magnetite (up to 10-15%), hematite (may form stringers), and rare quartz-tourmaline stringers.
- c. Host lithology: massive mafic volcanic or mafic
 - d. The presence generally of narrow felsite sills. These sills may or may not themselves be part of the alteration zone.

All zones were mineralized with pyrite (fine to medium g. ained) and rare chalcopyrite, however, the percentage of sulphide varied greatly and rarely exceeded 1-2%. Pyrite occurs disseminated through the host rock, increasing often towards quartz veins but rarely occurring within these veins. Visible native gold was not observed.

DIAMOND DRILLING DATA

One diamond drill hole (G-83-7), located on claim 625898 (see location map in appendix), has been submitted for assessment work credits. This 407 foot hole (B.Q. core size) was drilled by N. Morissette D.D. Ltd. on November 13, 1983. A drill log has been submitted.

QUALIFICATIONS

Ed.Sawitzky, geologist with Gold Fields Canadian Mining Ltd. located at 335-230 Lakeshore Rd. E. Mississauga, Ontario. M Sc. Geology (Laurentian University)

ACKNOWLEDGEMENTS

The author was ably assisted in the field during the 1982 field season by Pat Pope (senior assistant) and Alain Cotnoir, Ian Reid and Daniel Joubert (junior assistants). Thanks are due to Jack and Richard Wade of Wade's Camp for courtesies and hospitality extended to the field crew during the 1982 field season.

Ed Sawitzky

References

Laird, H.C. 1935:

Harding, W. D. 1937:

Breaks, F. W. 1978:

Seara, J. L. 1982:

Horwood Lake Area O.D.M. Annual Report Vol. 44, Pt.7 P. 37

Geology of the Horwood Lake Area O.D.M. Vol XLVL, Pt. II

Geology of the Horwood Lake Area, O.G.S. Report 169

Report on Ground VLF and Ground Magnetics, Potimo, Foleyet, Ontario

STATEMENT OF QUALIFICATION

Edward Sawitzky c/o Gold Fields Canadian Mining Ltd. Suite 335 - 230 Lakeshore Rd. East Mississauga, Ontario L5G 1G8

I certify that all the previous and below stated information is valid to the best of my knowledge.

1978	BSc in Geology	Carleton University, Ottawa,Ont
1984	MSc (pending)	Laurentian University, Sudbury, Ontario
1974-1977	Contract employme winter assistant	nt with O.G.S. as senior/and
1977-1978	M.N.R., Forestry Employed as a geo	Division logist for a regional soil survey
1982-1984	presently employe Gold Fields Canad As a Geologist	

Member of the Geological Association of Canada Member of the Prospectors and Developers Association

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Type of Survey(s)

GEOLOGICAL

Report of Work

(Geophysical, Geological, Geochemical and Expenditures





ownship or Area

HORWOOD

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DARIUS GOLD MI	NE INC.					Prospector T-1	's Licence No. 217	
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Survey Company	·			Date of Survey	(from & to)		Total Miles of line	
Gold Fields Ca		ng Ltd	•	Day Mari	32 16 I	3°66 ^83	34.98 k	ms
Edward Sawitzk	y 335-230 La	kesho	re Rd.	E. Missi	ssauga,	Ontar	io L5G 1G	8
Credits Requested per Each (Claim in Columns at r			laims Traversed (~~~~~~
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	orded Holder or Agent (Signature)	194	Days Approyed	Recorded		actor /	51
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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								
	/ 335-230 L	akeshoi	re Rd.	E. Missi	ssauga.	Ontar		
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Ontario

Ministry of Natural Resources

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) Geology	
Township or Area Horwood	MINING CLAIMS TRAVERSED
Claim Holder(s) Darius Gold Mine Inc.	List numerically
335-230 Lakeshore Rd. E., Mississa	1
Survey Company Gold Fields Canadian Mining Ltd. Author of Report Edward Sawitzky	P 625892 (prefix) (number)
Author of Report	— <u>625893</u>
Address of Author 335-230 Lakeshore Rd. E. Mississ	auga 625894
Covering Dates of Survey March/82-Dec/82 (linecutting to office)	— 625895
Total Miles of Line Cut 34.98km	_
	625896
SPECIAL PROVISIONS CREDITS REQUESTED Complying per claim	625897
Geophysical	625898
ENTER 40 days (includes —Electromagnetic	625899
line cutting) for first -Magnetometer	
survey. —Radiometric ENTER 20 days for each —Other	625900
additional survey using Geological	625901
same grid. Geochemical	625902
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)	625903
MagnetometerElectromagnetic Radiometric	_
	625906
DATE: 7 SIGNATURE: Author of Report of Agent	6.259.07
	625908
Res. Geol. Qualifications This Ite	625909
	625910
Previous Surveys File No. Type Date Claim Holder	!
	6.25.9.11
	625941
	6.259.42
	6.25.943
	TOTAL CLAIMS 21

OFFICE USE ONL



Geotechnical Report Approval

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GOLD FIELDS CANADIAN MINING, LTD.

A Consolidated Gold Fields Group Company

230 LAKESHORE ROAD EAST, SUITE 335 MISSISSAUGA, ONTARIO L5G 1G8

PHONE: (416) 271-0181 TELEX 06-960446

February 6, 1984

Mr. A. Barr Mining Lands Section Land Management Branch Ministry of Natural Resources Room 6643, Whitney Block Queen's Park Toronto, Ontario M7A 1W3

Dear Mr. Barr:

Enclosed are two copies of a geological report, the pertinent maps, and the completed "Technical Data Statement" on 28 mining claims (listed below) in the Horwood Lake (Foleyet area) of Ontario.

Claim group consists of the following:

625899 to 625892 (incl.) 625900 to 625903 (incl.) 625906 to 625911 (incl.) 625941 to 625943 (incl.) 720835 to 720841 (incl.)

Yours truly.

Ed. Sawitzky

Geologist

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ES/1m

RECEIVED

FEB 2 2 1984

MINING LANDS SECTION

1.	Type of Sur	vey GEOLOGICAL
_2.	Township or	Area HORWOOD
3.		Aining Claims Traversed by Survey P 625892, 625893, 625903, 625906 625941, 625942, 625943.
		•••••••••••••••••••••••••••••••••••••••
4.		iles of Line Cut 34.98 km Flown
* 5.	Number of \$	tations Established
* 6.	Make and ty	pe of Instrument Used
* 7.	Scale Const	ant or Sensitivity
*8.	Frequency U	sed and Power Output
9.	70	Assessment Credits (details on reverse side) Technical Days (Include Consultants, Draughting etc.) 123
	Total 8 hou	Line-Cutting Days
		(10 hrs = 8.7) 8.7 X = 1,076.245 - = 1,076.25 - 21 = 40 Line-cutting = 1,076.25 - Number Assessment credits
		of claims per claim
	of the abov	sted on this form represent working time spent entirely within the limits elisted claims Checke, please explain
	Dated:	7. b. 21/84 Signed: Old Com Tohy
	Note:	 (A) * Complete only if applicable. (B) Complete list of names, addresses and dates on reverse side. (C) Submit separate breakdown for each type of survey. (D) Submit in duplicate.

Details of Assessment Work Breakdown

FIELD WORK			
TIEBD WORK			Number of
Type of Work	Name & Address	Dates Worked	Nour days
Geology	Ed Sawitzky	July 28-Dec.16/82 July 28-Nov.5/82	25
	Pat Pope		
	Ian Reid	July 28-Aug.28/82	25
II	Daniel Joubert	July 28-Nov.5/82	6
II	Alain Cotnoir	July 28-Aug. 21/82	22
CONSULTANTS			
Name & Address	Dates Worked (specif	y in field or office)	Number of 8 hour days
DRAUGHTSMAN, TYPING	OTHERS (specify)		V 1 6
Name & Address	Type of Work	Dates Worked	Number of -
Ed Sawitzky		writing July 28-Dec16/82	10 5
Pat Pope	Drafting	July 28-Nov.5/82	6
Daniel Joubert	11	July 28-Nov.5/82	6
LINE-CUTTING		TOTAL & HOUR TECHNICAL DAYS	123
LINE-COTTING			Number of
Name	Address	Dates Worked	8 hour days
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		TOTAL & HOUR LINE CUTTING DAVE	
		TOTAL 8 HOUR LINE-CUTTING DAYS	

Our File: 2.6412

1984 02 29

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

We have received reports and maps for a Geological survey submitted under Special Provisions (credit for Performance and Coverage) on mining claims P 625892 et al in the Township of Horwood.

This material will be examined and assessed and a statement of assessment work credits will be issued.

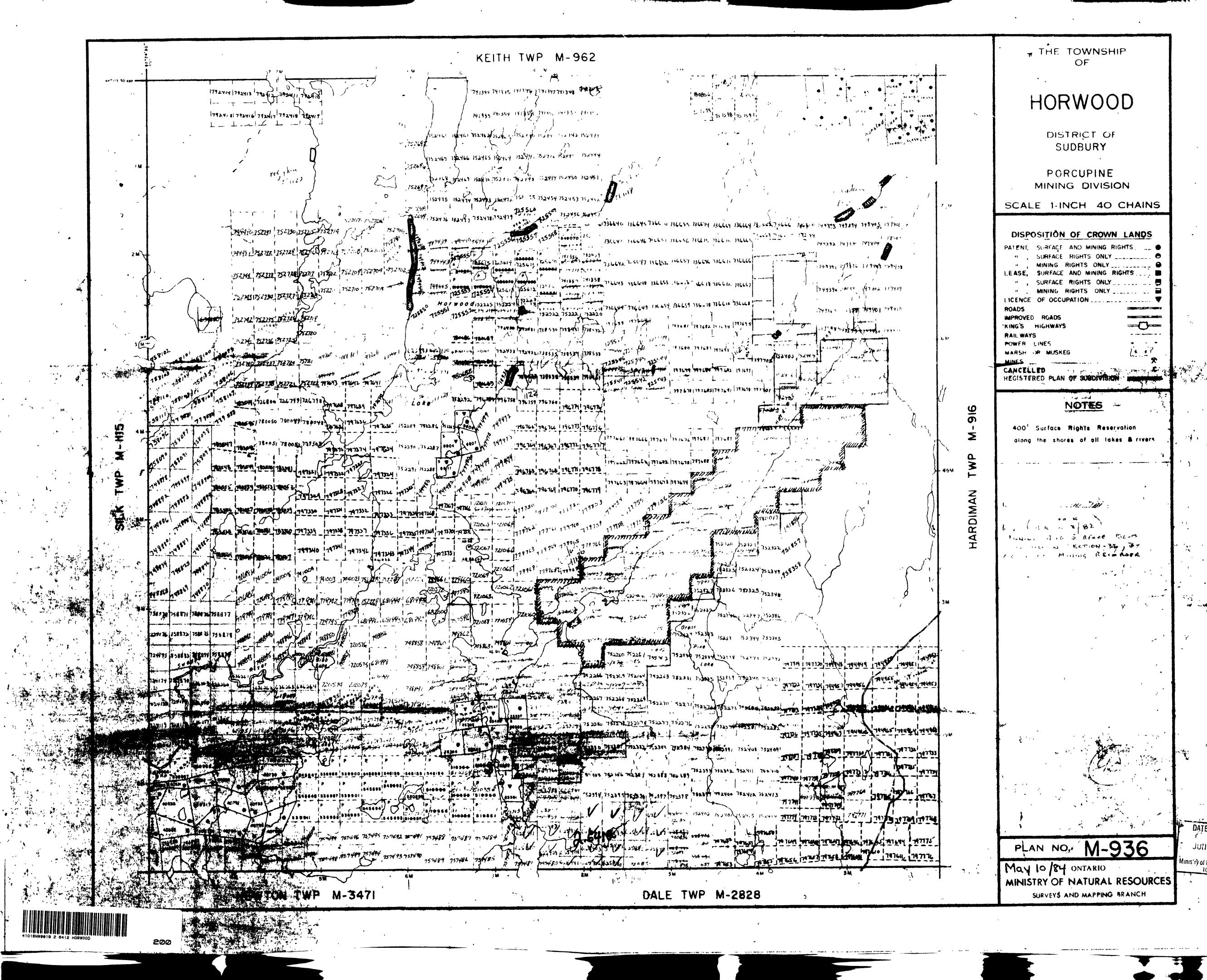
We do not have a copy of the report of work which is normally filed with you prior to the submission of this technical data. Please forward a copy as soon as possible.

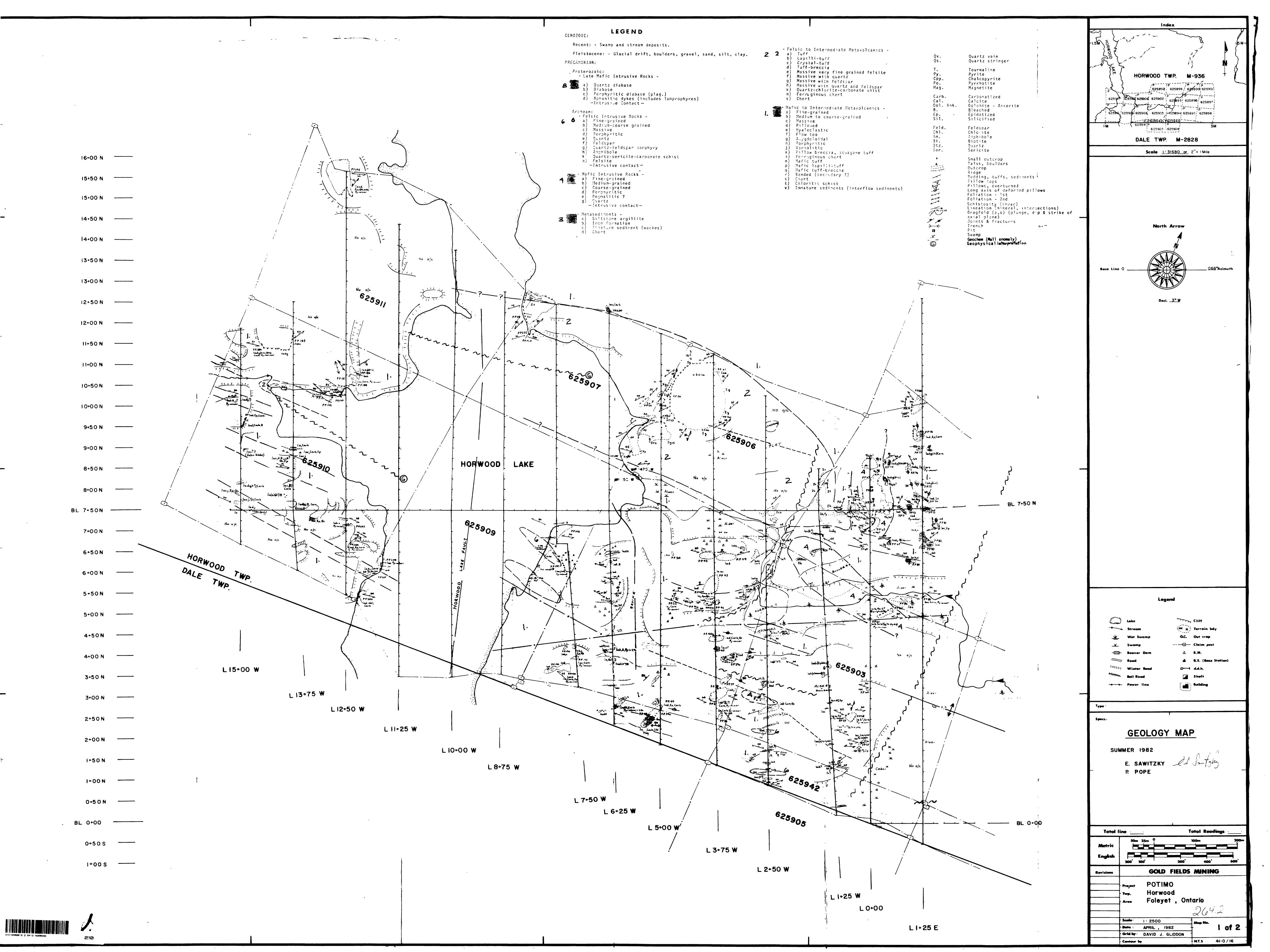
Yours very truly,

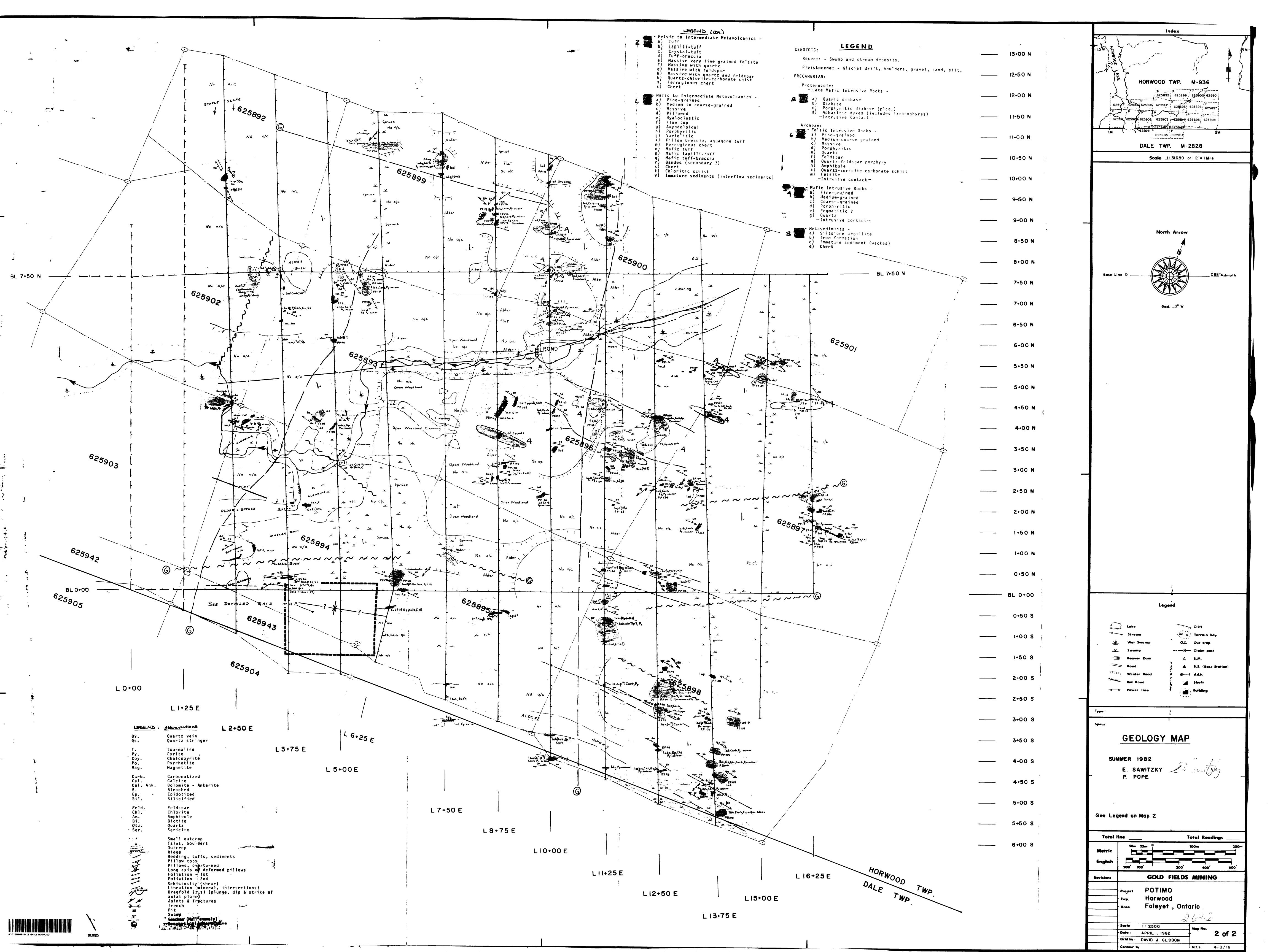
J.R. Morton
Acting Director
Land Management Branch
Ro
Whitney Block
Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

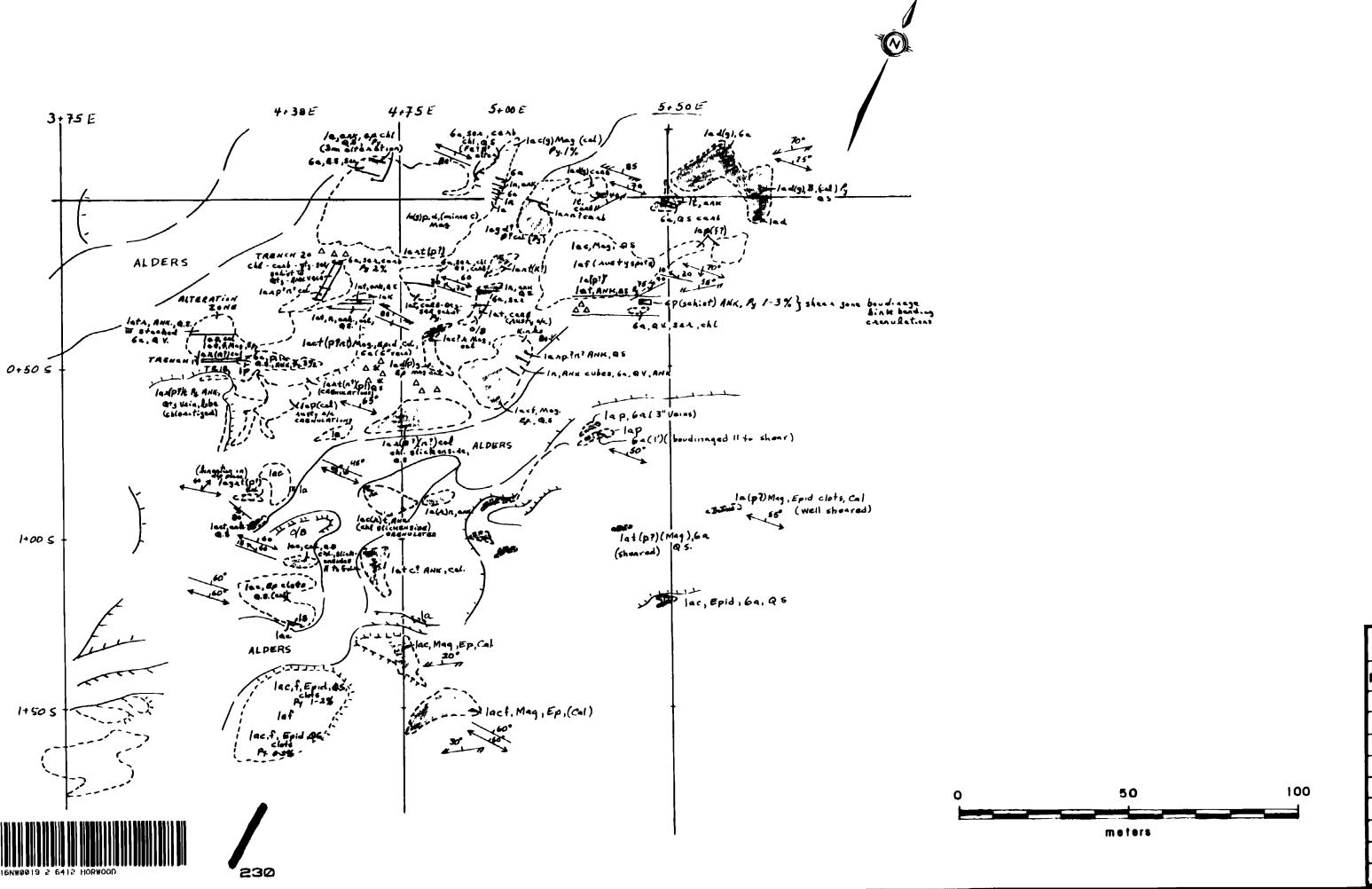
A. Barr:dg

cc: Darius Godd Minc Inc. 335 - 230 Lakeshore Road East Mississauga, Ont. L5G 1G8 Attn: Ed. Sawitzky









TEGENID.

ARCHEAN 6 Felera Intrusive Rocks

(a) tirle-grained

1. Matic to Intermediate Metavolcanics

(a) fine-grained

(b) Med - Coaisi grained

(c) mossive

(d) Fillowed

(e) Hyaloclaslic

(4) flow top

(g) Amygdaloidal

(h) Tarphyritic

(j) Variolitic

(K) Isllow thema , aquagere tuff

I'm ferruginous chert

m) Motic told

(p) Matic lopelli-tuff

(9) Matic tietl- brama

erl Fanded (secondary?)

15) Chert

(+) chloritic achist

(v) Immature sediments (Interliow seaments)

Revisions	GOLD FIELDS RESOURCES CANADA LT		
Month/Day/Year	GEOLOGY: <u>ALTERATION ZONE</u> Potimo Claim Group		
	HORWOOD Twp., ON	TARIO	
	Scale: : ,000	Map No.	
	Date: Aug. 1982	8106. 3.2 c	
	Drawn By: E. SAWITZKY		
		N.T.S. 41 - 0/16	