



42A10SW0144 2.7781 STOCK

010

REPORT ON A GEOLOGICAL SURVEY
069-15-Stock-2
HOPSON OPTION
STOCK TOWNSHIP

CANAMAX RESOURCES INC.

Timmins, Ontario
January, 1985

E. Kent
Geologist

RECEIVED

FEB 06 1985

MINING LANDS SECTION



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SUMMARY

During August of 1984 a geological-prospecting survey was performed on the Stock-2 Hopson Option Group. A 1:5000 scale air-photo base was prepared showing the results of the survey and work performed on adjacent claims.

No outcrops were located on the property.

A search of assessment file data indicates that a volcano-sedimentary contact localized along the Porcupine-Destor Fault crosses the claim group. Drilling performed by Hollinger Exploration has defined the contact area to the east and west of the Hopson Option. The contact area west of Reid Lake lacks the key alteration/geology associated with the gold deposits found along strike.

INTRODUCTION

This report has been prepared to summarize the results of a Geological-prospecting survey carried out July 8 - 10th, 1984. The report covers two (2) claims in Stock Township of the Porcupine Mining Division, numbered P-757897, 898. The claims were acquired by Canamax as a result of an option agreement with Mr. R. Hopson signed February 28, 1984.

Eighty days assessment have been filed on the claims to date, and the claims are in good standing. The author of this report was present on the property and is familiar with the geology of Stock Township.

LOCATION AND ACCESS

The group is located in the S.W. corner of Stock Township. Access to the claims is obtained by travelling Highway 101, 28 kilometres east of Porcupine, Ontario. The claims are situated 800 metres north of the highway, and are accessible from farmer's fields.

GERMAN TOWNSHIP

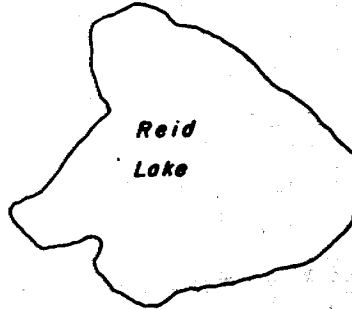
STOCK TOWNSHIP

Driftwood Creek

CON II

069-15
Stock-2
(Hopson Opt.)

P-757898
P-757897



Reid
Lake

CON I

12

11

10

9

8

BOND TOWNSHIP

CANAMAX RESOURCES INC.

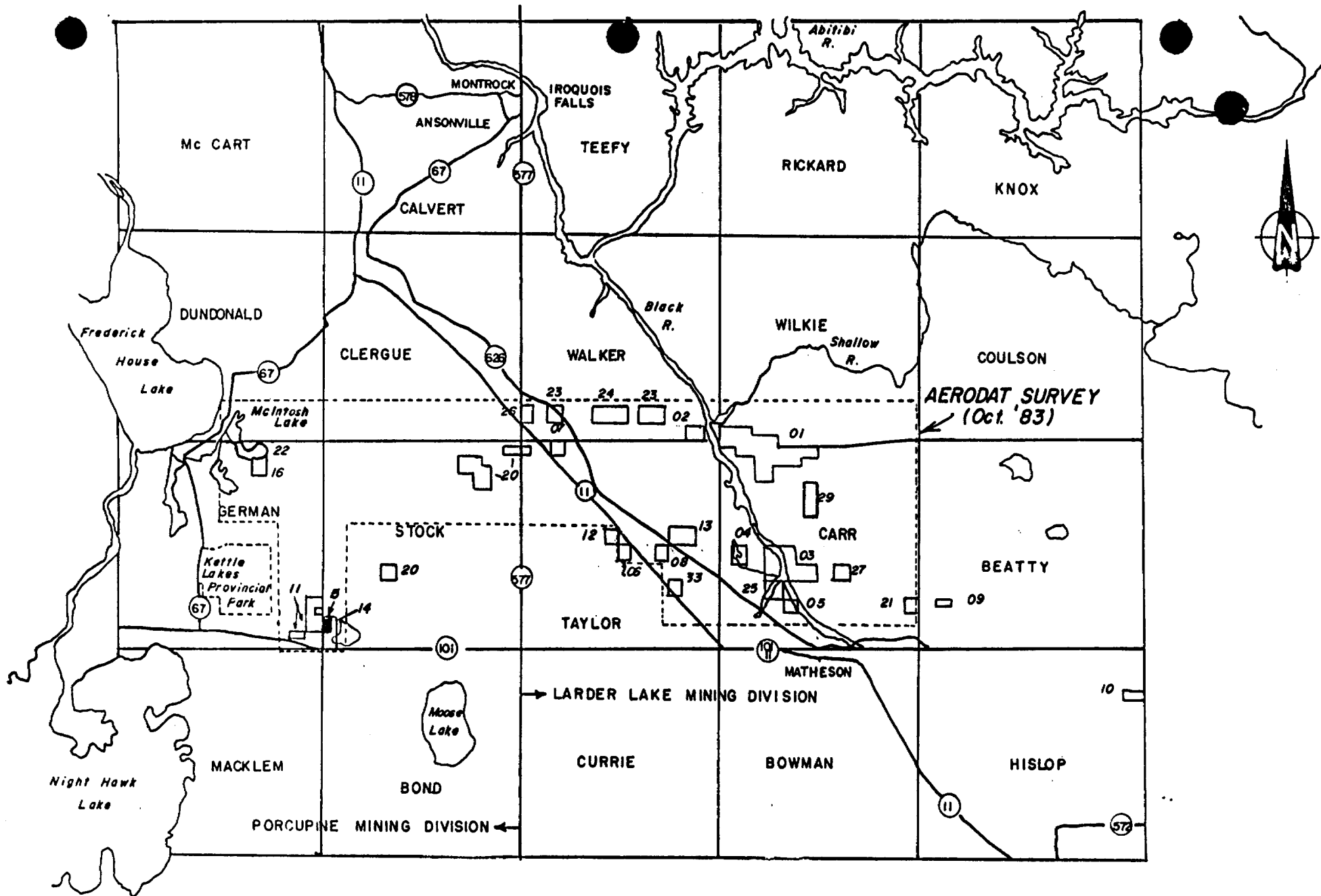
HOPSON OPTION: 069-15

PIPESTONE PROJECT- STOCK-TWP.

(CLAIM SKETCH)

FIG. 2

1:30,000



Scale 1:250,000

PROJECT LOCATION SKETCH

PROJECT 069 - "PIPESTONE"

■ Location of 069-15, Hopson Option

RESOURCES AND TOPOGRAPHY

The claim group consists of flat poorly drained land. Spruce and alder swamp are found in the western part of the claim group along the Stock-German boundary. The eastern half of the group consists of alder and poplar forest, possibly of marketable grade.

PREVIOUS WORK

Information relating to exploration programmes carried out by Broulan-Reef (1949) and Hollinger (1972) is available from the Resident Geologist's office in Timmins. Ground magnetic surveys were carried out by both Broulan Reef Mines and Hollinger Exploration. The surveys indicate an area with uniformly low magnetic relief throughout much of the claim group. Two minor anomalies (+100-200 gammas) were detected by Hollinger in the western part of the claim group. The anomalies have a NNE trend and may reflect the presence of a major N-S fault which terminates along the E-W striking Porcupine-Destor Fault Zone.

Diamond drilling performed by Hollinger Exploration (1964-1980) to the east and west of the Hopson Option has defined the volcanic-sedimentary contact and trace of the Porcupine-Destor Fault Zone (see Geology Sketch - Reid Lake Area). The fault zone parallels the southern boundary of claim P-757897. A drill hole completed 500 metres west of the above claim intersected conglomeratic sediments with interbedded wackes, over a core length of 348 metres. Minor fuchsite staining and carbonate alteration were noted in the drill hole, however, quartz vein development and alteration were poorly expressed.

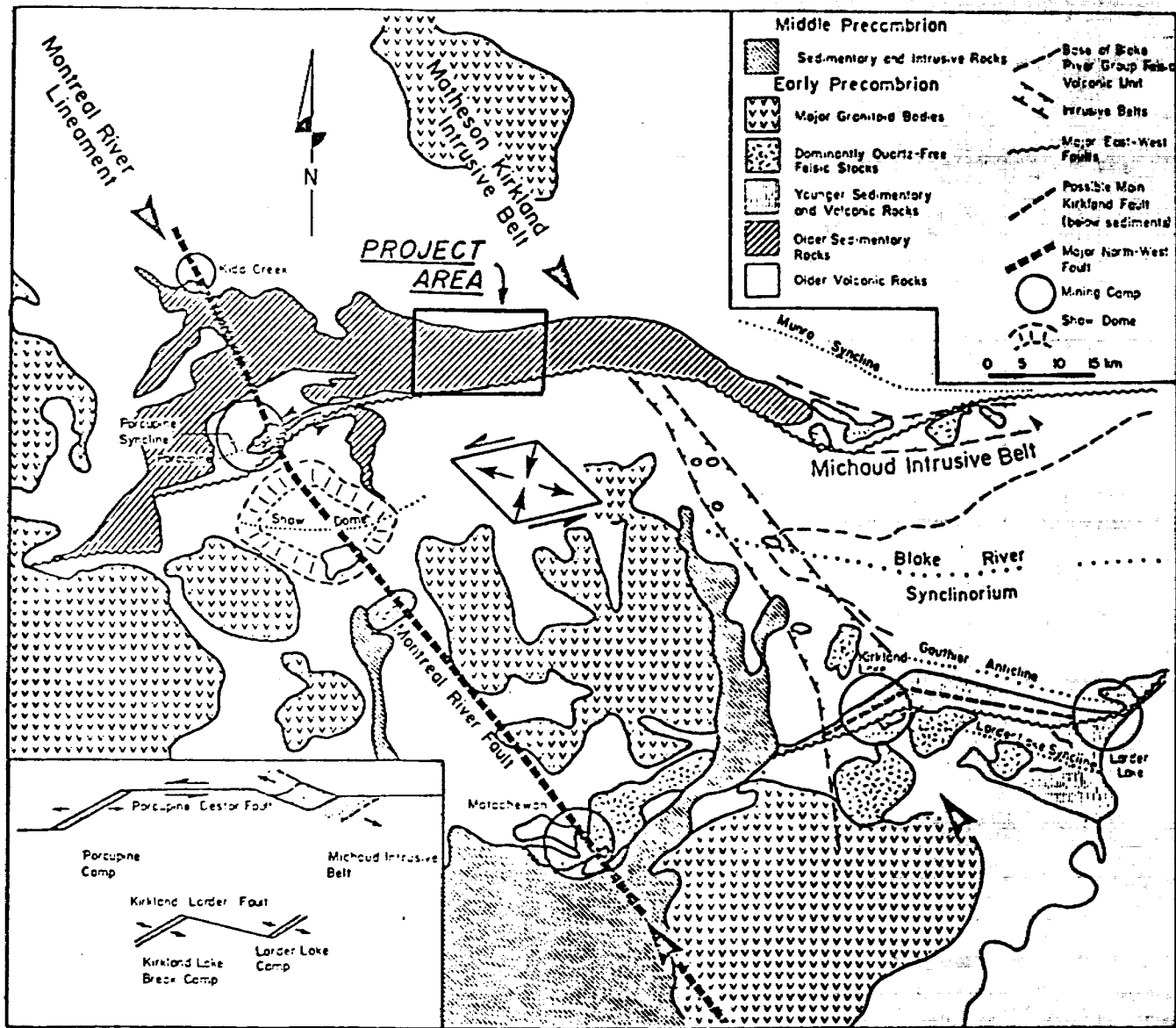
The most recent geology map of the Stock Township area is O.D.M. Preliminary Geological Map P-38 (1959). The geological base was derived from O.D.M. Map 40b (Laird, 1931).

A sonic drill hole programme including one hole (84-32) completed 800 metres south of the Hopson Option, was carried out by the O.G.S. during 1984. Hole 84-32 was drilled to a vertical depth of 32.6 metres. Sand was returned to a depth of 26 metres, and clay/till to bedrock. Two gold grains were observed in sand at the base of the hole.

REGIONAL GEOLOGY

The project area lies within the Central Abitibi Greenstone Belt immediately east of Timmins. The major rock unit consists of an east-west striking fault bounded suite of sedimentary rocks adjoined on the north and south by mafic to ultramafic volcanics. The sedimentary basin is up to 7 kilometres in width and contains finely bedded to unbedded siltstone, greywacke and tuff (Figure 3).

The edges of the sedimentary graben are defined by the Porcupine-Destor on the south and the Pipestone Fault on the north. The fault traces are well defined by geophysics and historical drilling. These faults have served as channelways for altering fluids derived from metamorphism and shallow intrusive bodies. The rock in proximity to the faults are extremely fissile and often labelled as tuffs. Where mafic/ultramafic rocks have been faulted the rock is altered to talc/chlorite/carbonate schist (soapstone). Sedimentary or tuffaceous rocks generally show sericite/carbonate alteration. The Sedimentary-Volcanic contacts are fairly abrupt with massive volcanics and tuffs transitional to finely bedded clastic sediments over a few hundred metres.



Geology of the Timmins-Kirkland Lake area (from Hodgson 1962 after Pyke et al. 1973)

REGIONAL GEOLOGY

The volcanic rocks north of the sedimentary graben are much more varied than those to the south. The northern suite ranges from mafic and ultramafic flows to rhyolitic tuffs and flows. These rocks belong respectively to the Tisdale and Stoughton-Roquemaure Series in the Timmins and Lake Abitibi Areas (Table 2). The felsic volcanics within this northern section are part of the Hunter Mine Group which hosts the Kidd Creek Cu, Zn, Ag orebody. The contrast in the mineralogical composition of these rocks means that there is a great variety in the magnetic patterns to the north of the graben (O.G.S. Input Survey, 1984).

The southern volcanic suite is much more homogeneous. The volcanics vary from basaltic to dacitic in composition and show very little contrast in their magnetic signatures. The southern volcanics belong to the Deloro Group in Timmins Area and Kinojevis/Hunter Mine Groups in the Lake Abitibi Area.

The sedimentary rocks are commonly thought to be Temiskaming in age, younger than either the northern or southern volcanics. Prest (1952) and Hodgeson (1983) working in Carr Township and Timmins respectively have suggested that the sedimentary rocks may be the oldest rocks in the area.

INTRUSIVE ROCKS

Some mafic to ultramafic rocks occur within the graben in the form of dykes and plugs. Where intersected by historical drilling the plugs are of ultramafic composition. These plugs are reflected by circular to crescent shaped magnetic highs on airborne surveys.

The mafic dykes in the area are well defined by magnetic surveys and occur as 25-250 wide linears continuous over 10's of kilometres. The N-S trending dykes are of the Matachewan Series and are cut by younger Keweenaw dykes oriented on an ENE trend.

A few small felsic intrusions occur in the area especially on or near the trace of major fault zones. These intrusions do not have any known geophysical signature and are hidden by the 10-50 metres of overburden which mantles the sedimentary graben. Two east-west striking felsic porphyries occur along the Porcupine-Destor in the property area. The first occurs in Macklem Township and hosts the new Pominex Gold Discovery. The second porphyry is located in Taylor Township and has been held since the 1940's by Hollinger Exploration. Similar type felsic porphyries have been observed to the north along the Pipestone Fault. The majority of known gold occurrences along the Porcupine-Destor and Pipestone structures have felsic intrusions associated with them.

TABLE OF FORMATIONS - I

CENOZOIC

Pleistocene Varved clay
& glacial outwash

PRECAMBRIAN

Keweenawan Diabase (east-west dykes)

Matachewan Diabase (north-south dykes)

Algoman Albite granite, quartz-feldspar porphyry

Ultrabasic
Intrusions Peridotite & serpetinized rock

Sediments Siltstone, Greywacke, Quartz-Pebble Conglomerates

Volcanics Basic to intermediate lavas and flow breccias;
spherulitic and amygdaloidal horizons; tuffs and
agglomerates

COMPARATIVE STRATIGRAPHY / CENTRAL ABITIBI

HODGESON 1983

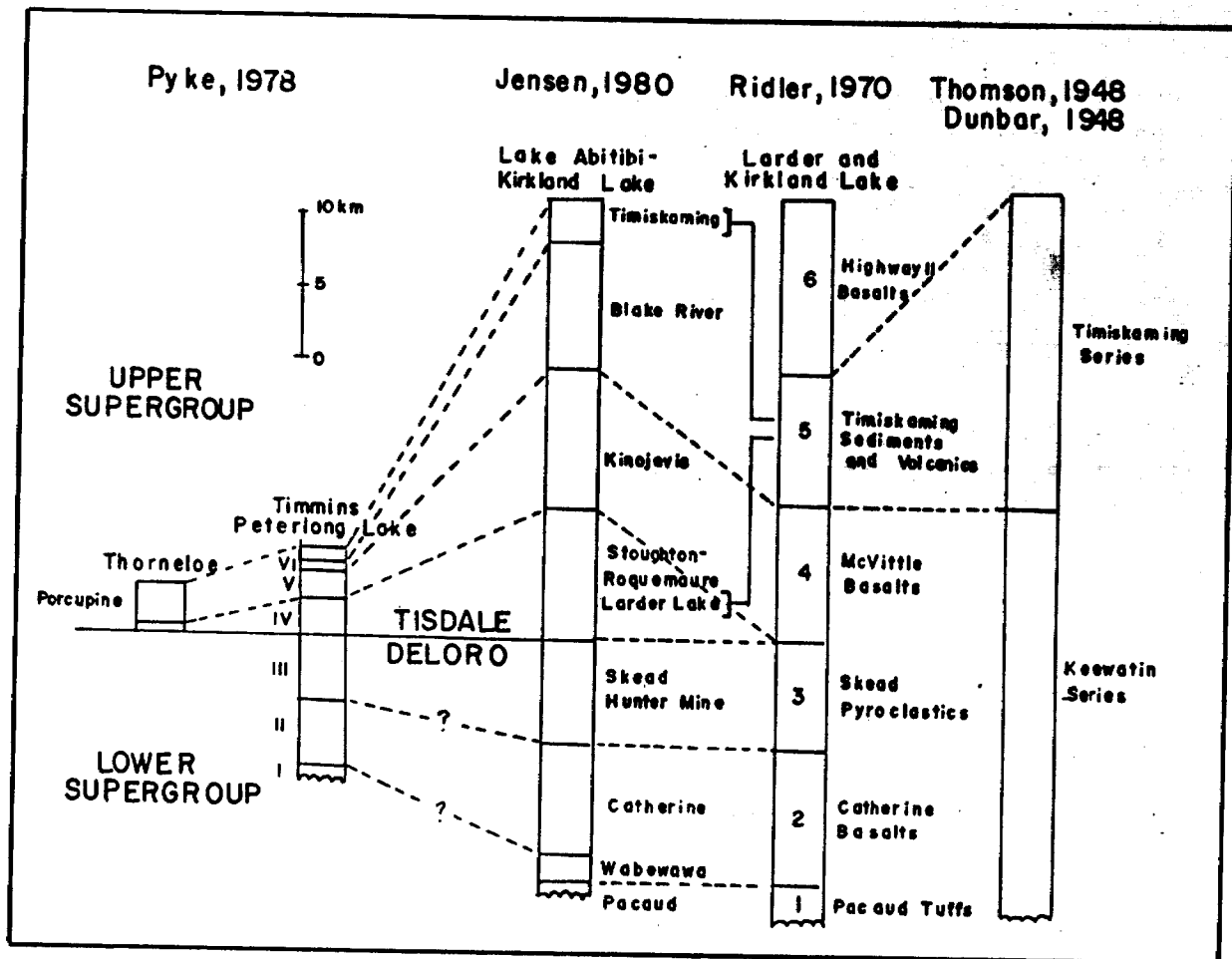
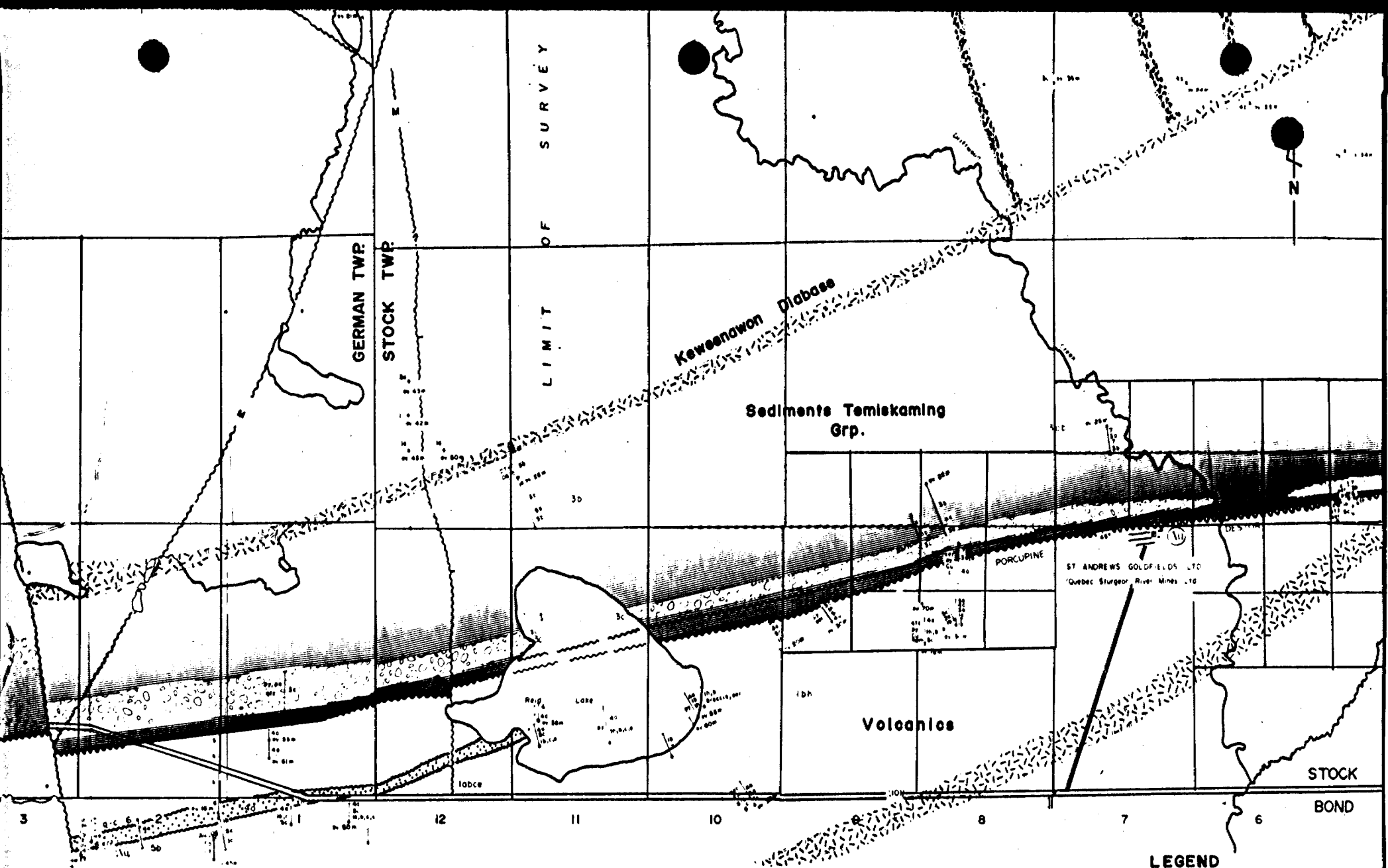


FIG. 5



LEGEND

- 1 Mafic to Int. Volcanics
- 2 Int. to Felsic Volcanics
- 3 Metasediments, Tuff
- 4 Mafic to Ultramafic Rock
- 5 Felsic Intrusions
- 6 Highly Altered Rock
- 7 Diabase Intrusions

PIPESTONE PROJECT

Geology Sketch - Reid Lake Area

Scale: 1:30,000

Figure 3

PROPERTY GEOLOGY/PROSPECTING

The work performed on the property has been recorded on a 1:5000 scale air-mosaic base. All major areas of vegetation were outlined along with post locations and claim boundaries. The property was mapped using a 2.2 line kilometre grid. The lines run N-S and are spaced at 125 metres. The lines were cut by a crew of three (3) men employed by Services-Exploration, Rouyn, Quebec.

No outcrops were located during the survey. No major topographic ridges or linears were found which might indicate subsurface geology.

The property geology has been inferred from drill hole data and in-house geophysical surveys. The trace of the Porcupine-Destor Fault has been plotted on the Geology Map along with the contacts of the conglomerate-sediment unit discovered by Hollinger.

CONCLUSION AND RECOMMENDATIONS

The Hopson Option contains two major fault zones as indicated by geophysics and historical drilling. The work performed by Hollinger Exploration (1964-1984) has failed to detect favourable geology in the area west of Reid Lake. It is, therefore, concluded that the option should be returned to the vendor prior to the anniversary date of February 28, 1985.

Submitted by:

A handwritten signature in cursive script, appearing to read "E. Kent", with a long horizontal flourish extending to the right.

Timmins, Ontario
January, 1985

Eugene Kent
Geologist



42A10SW0144 2.7781 STOCK

900

Mining Lands Section

File No 2.7781

Control Sheet

TYPE OF SURVEY GEOPHYSICAL
 GEOLOGICAL
 GEOCHEMICAL
 EXPENDITURE

MINING LANDS COMMENTS:

gd

LD

Dang
 Signature of Assessor

18/2/85
 Date

1985 02 12

Your File:
Our File: 2.7781

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

Dear Sir:

We received reports and maps on February 6, 1985 for a Geological Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 757897-98 in the Township of Stock.

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 sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-6918

A. Barr:sc

cc: Canamax Resources Inc
255 Algonquin Blvd W.
Timmins, Ontario
P4N 2R8

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy -- Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: Fixed transmitter Shoot back In line Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION RESISTIVITY

Instrument _____

Method Time Domain Frequency Domain

Parameters -- On time _____ Frequency _____

-- Off time _____ Range _____

-- Delay time _____

-- Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

SELF POTENTIAL.

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth -- include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

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

Accuracy _____
(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

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

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

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____



CANAMAX RESOURCES INC.

TIMMINS, ONTARIO
255 ALGONQUIN BLVD. WEST
P4N 2R8
TELECOPIER 705-264-5247
TELEPHONE 705-264-5247

February 1, 1985

Our File: 069-15

Mr. F. W. Matthews,
Ontario Ministry of Natural Resources,
Room 6643, Whitney Block,
Queen's Park,
Toronto, Ontario.
M7A 1W3

Dear Sir:

Re: Mining Claims P-757897 and P-757898,
Stock Township

Enclosed herewith please find two (2) copies of a report on a geological survey which was carried out over the above mentioned contiguous mining claims located in Stock township.

A Report of Work has been filed with Mr. Bruce Hanley, Mining Recorder for the Porcupine Mining Division.

Thank you.

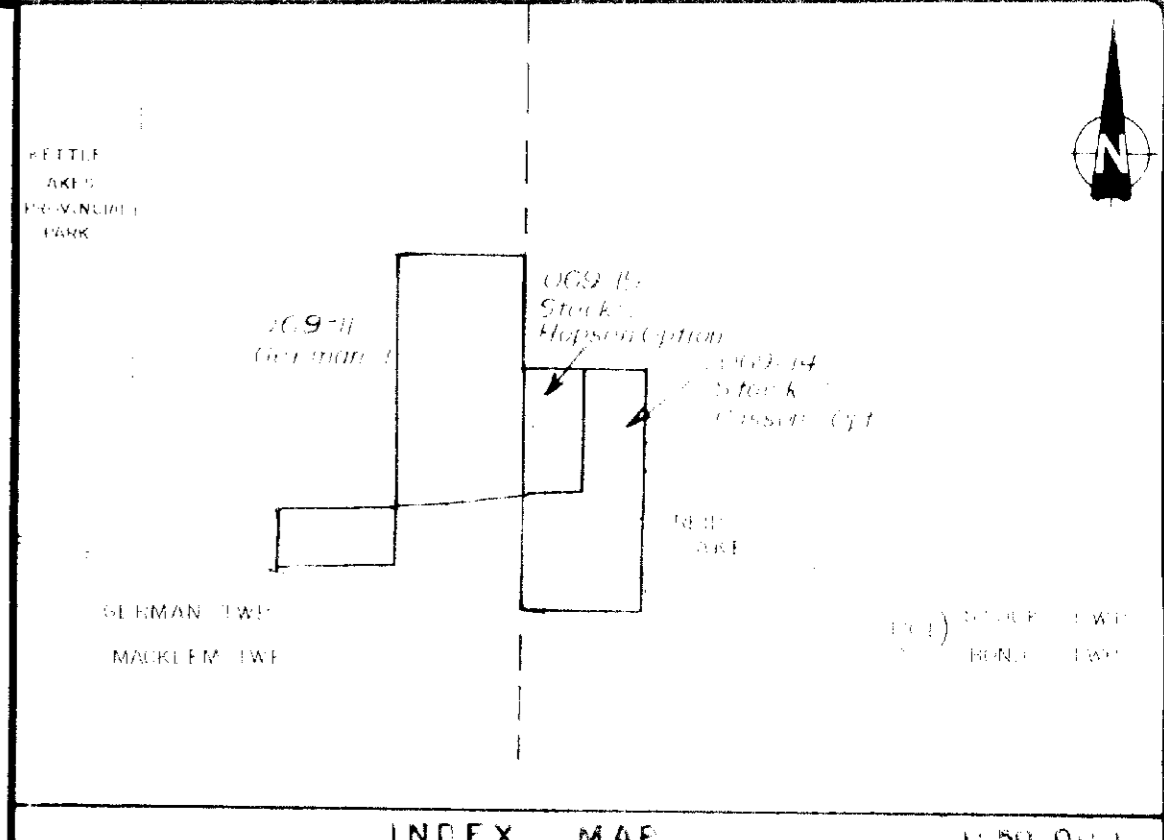
Yours truly,
CANAMAX RESOURCES INC.

Rosemary Tittley
Rosemary Tittley (Mrs.)
Land Records

Encs. 2

c.c. K. Clemis/E. Barclay, Toronto
D. Waddington, Toronto
B. Hanley, Mining Recorder, Timmins

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MINING LANDS SECTION



INDEX MAP

LEGEND

(G)	Geophysically inferred unit
S	Sedimentary Rocks - undifferentiated
S1	Conglomerate
S2	Greywacke
S3	Argillite
V	Vol. 2000 Flow - undifferentiated
V7	Basalt
V13	Ultramafic
S0	Diatase
J.F.1	Quartz Felspar Porphyry
I	Felsic Rocks - undifferentiated
11	gabbro
12	gabbroite
22	quartz vein

SYMBOLS

■, □	Claim not tested, inferred
—	Trail
~	Swamp
▲	Survey post
—	Vegetation boundary
—	Township line
~	East-west boundary
~	Geological boundary
●	Drill hole - vertical projection
—	Travel lines

True North
E. Key

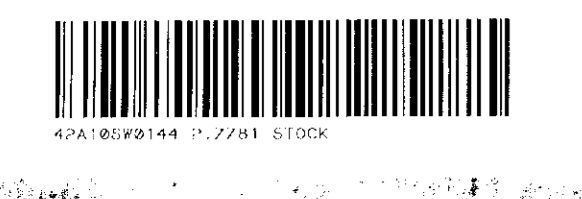
CANAMAX RESOURCES INC.
GEOLOGICAL SURVEY

PIPESTONE PROJECT

STOCK-1,2 GERMAN-1

069-11,14,15, STOCK & GERMAN TWP.

NTS: 42-A-10 DATE: July 1984 SCALE: 1:5000



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