



52F05SW0074 2.8114 DOGPAW LAKE

010

GEOLOGICAL REPORT
MICHAM EXPLORATION INC.
DOGPAW LAKE AREA CLAIMS
DISTRICT OF KENORA, ONTARIO
PROJECT 3210

RECEIVED
MAY 15 1985
MINING LANDS SECTION

July 16, 1984
Timmins, Ontario

By: Mike Simunovic
Per: David R. Bell
Geological Services Inc.

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1.0 SUMMARY

During the summer of 1983 Micham Exploration Inc. obtained a 40 claim group in the Dogpaw Lake Area, 20km southeast of the town of Sioux Narrows, Ontario.

A geological mapping program was conducted by David R. Bell Geological Services Inc., in the summer of 1984, in order to delineate zones of economic mineralization.

As the survey progressed, it was found that the property was predominantly underlain by mafic metavolcanic flows with intercalations of mafic pyroclastic and minor sedimentary units. Also present were late stage mafic intrusives.

Mineralization and alteration of economic interest were confined to shear zones located throughout the property. Most of these were very minor but, two were of significant interest; the one associated with the Flint Lake Gold Mine and the showing located on line 36E.

Both these zones yielded many anomalous assay results, with one from the Flint Lake Mine reaching .4 oz Au/ton.

Carbonatization and silicification were the main forms of alteration but, this varied greatly from zone to zone. Some talcose and sericitic alteration was noted as well.

Mineralization was limited to pyrite with traces of chalcopyrite being observed. Some pyrrhotite was seen within a shaley unit.

Due to the encouraging results obtained from the mapping program a three phase exploration program has been recommended. Phase I is to consist of linecutting and a limited soil sample survey. Phase II would be an induced polarization survey, with Phase III, a diamond drill program, depending on the results of the first two phases.

2.0 INTRODUCTION

In the summer of 1983 Micham Exploration Inc. acquired forty mining claims in the Dogpaw Lake area, District of Kenora, Ontario. The following summer, the firm of David R. Bell Geological Services Inc. undertook a mapping program in order to assess the properties economic potential. For this purpose a grid with 400 foot spaced lines was established on the property.

The survey was successful in its' aim to locate showings of economic interest, and as a result a three phase exploration program has been recommended. These are to include linecutting, soil sampling and an induced polarization survey. Diamond drilling is to follow contingent upon the results of the first two phases.

3.0 PROPERTY AND OWNERSHIP

Micham Exploration Inc. holds a 40 claim group in the Dogpaw Lake Area, Kenora Mining District, Ontario.

The claims were staked in January and February of 1983 and later optioned to Micham Exploration Inc. in August of the same year. All of the claims are in good standing. They are listed and illustrated in Table 1 and Figure 1 respectively.

4.0 LOCATION AND ACCESS

The property is located on Flint Lake 20km south-east of the town of Sioux Narrows, Ontario, which is on the eastern shore of Lake of the Woods. Thunder Bay lies approximately 340km to the southeast (Figure 2).

The claim group is readily accessible by way of a 6.4km gravel road from Highway 71 to the Whitefish Bay Indian Reserve. From here, the property can be reached by boat through the Dogpaw-Cavier-Flint Lakes chain. It is also accessible by float plane from any number of private contractors in the area.

5.0 PHYSIOGRAPHY

The climate of the area is characterized by hot humid summers with abundant rainfall, and long cold winters. Due to the proximity of Lake of the Woods, a moderating effect is imparted on the climate.

Regional topography of the area is generally flat, with hills not rising more than a few hundred feet but, locally (on the property) the terrain is more rugged. Low lying ground is often punctuated by sharp ridges and hills up to 100 feet high. More gently sloping hills are present as well.

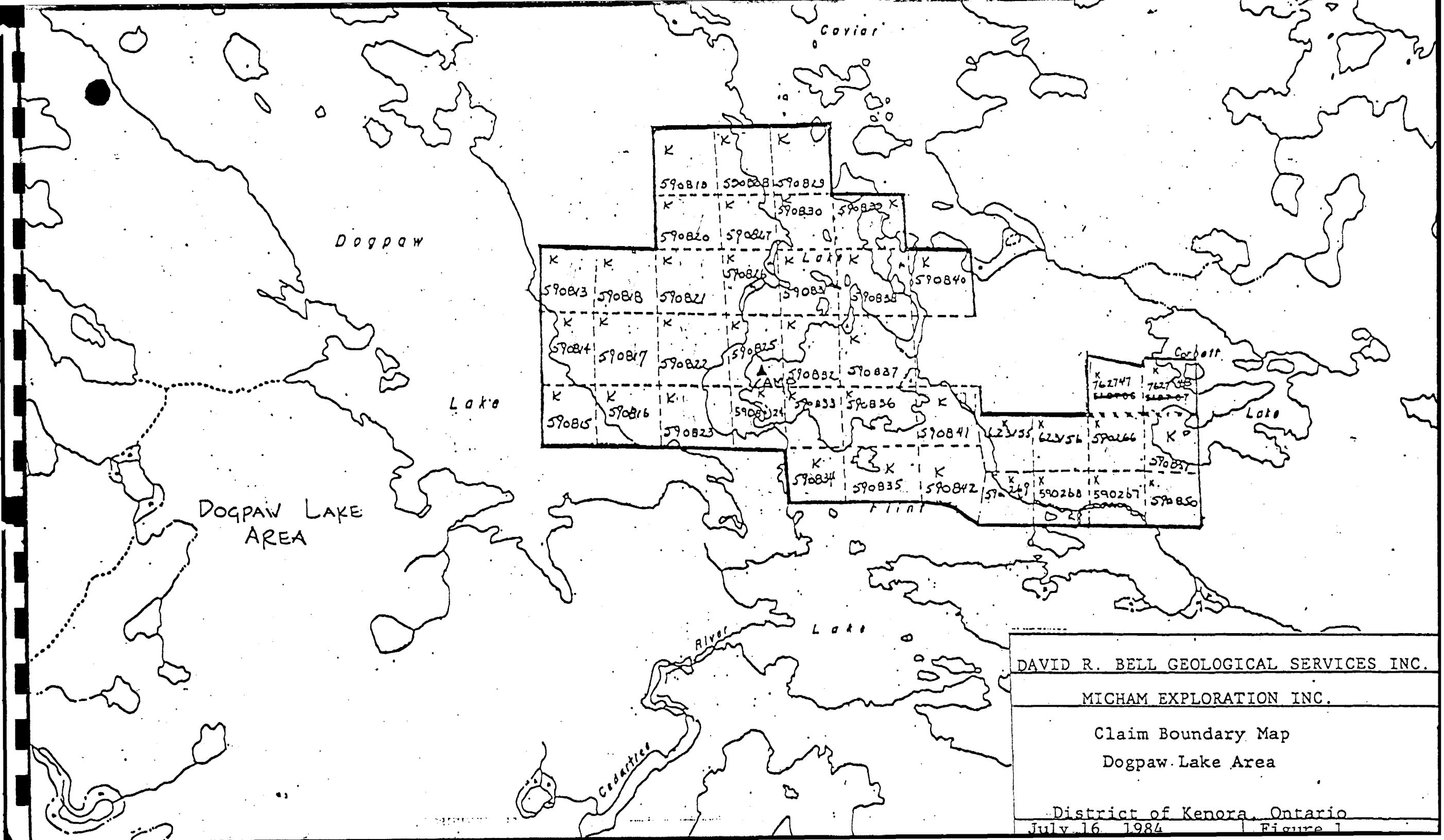
TABLE I

MICHAM EXPLORATION INC. CLAIMS

<u>Claim Number</u>	<u>Date Recorded</u>
K590266	February 14, 1983
K590267	February 14, 1983
K590268	February 14, 1983
K590269	February 14, 1983
K590813	February 14, 1983
K590814	February 1, 1983
K590815	February 1, 1983
K590816	February 1, 1983
K590817	February 1, 1983
K590818	February 1, 1983
K590819	February 1, 1983
K590820	February 1, 1983
K590821	February 1, 1983
K590822	February 1, 1983
K590823	February 1, 1983
K590824	February 1, 1983
K590825	February 1, 1983
K590826	February 1, 1983
K590827	February 1, 1983
K590828	February 1, 1983
K590829	February 1, 1983
K590830	February 1, 1983
K590831	February 1, 1983
K590832	February 1, 1983
K590833	February 1, 1983
K590834	February 1, 1983
K590835	February 1, 1983
K590836	February 1, 1983
K590837	February 1, 1983

TABLE I CONT'D

<u>Claim Number</u>	<u>Date Recorded</u>
K590838	February 1, 1983
K590839	February 1, 1983
K590840	February 1, 1983
K590841	February 1, 1983
K590842	February 1, 1983
K590850	March 1, 1983
K590851	March 1, 1983
K623155	February 14, 1983
K623156	February 14, 1983
K762747	May 17, 1983
K762748	May 17, 1983



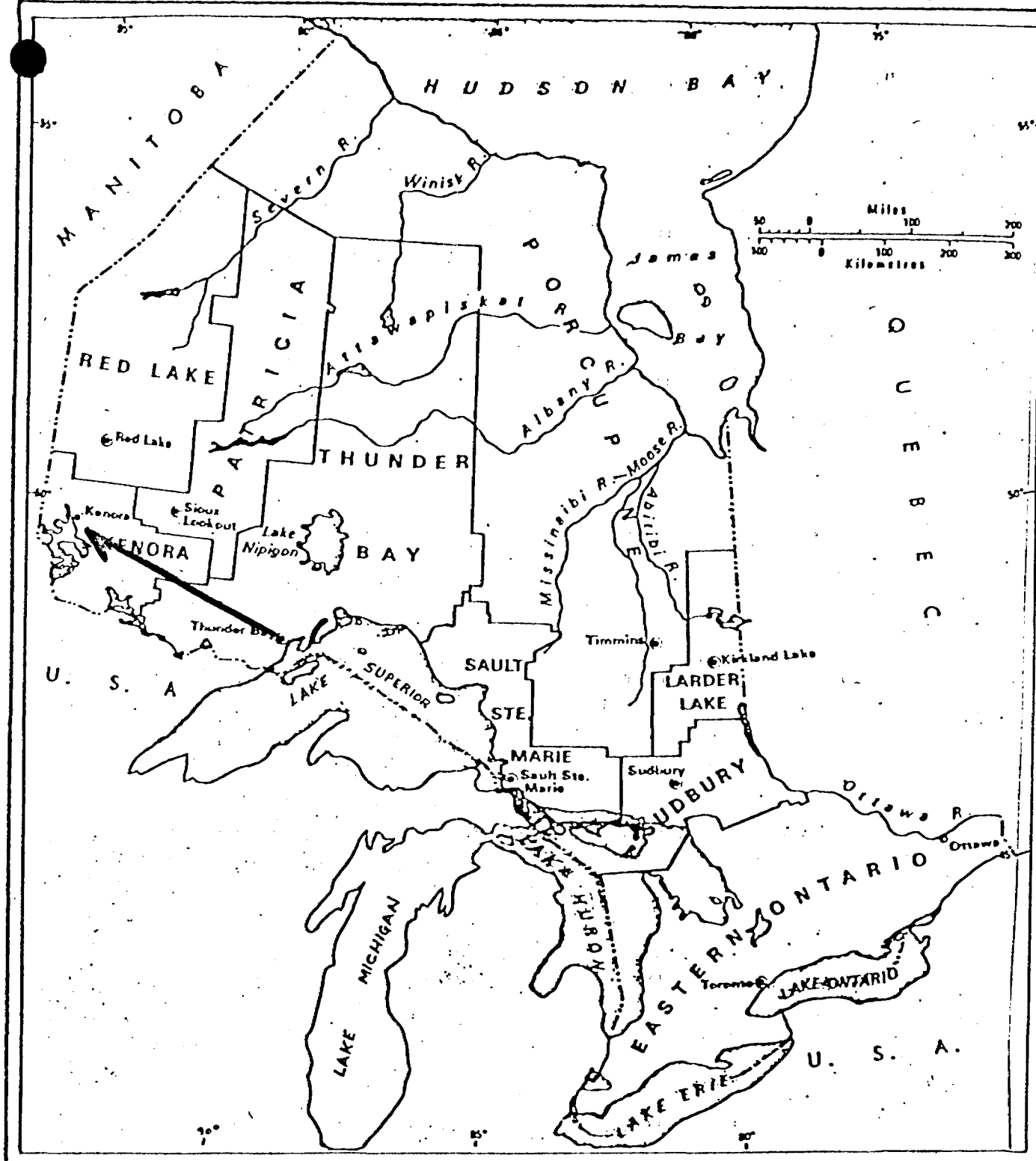
DOGPAW LAKE AREA

DAVID R. BELL GEOLOGICAL SERVICES INC.

MICHAM EXPLORATION INC.

Claim Boundary Map
Dogpaw Lake Area

District of Kenora, Ontario
July 16, 1984 | Figure 1



DAVID R. BELL GEOLOGICAL SERVICES INC.

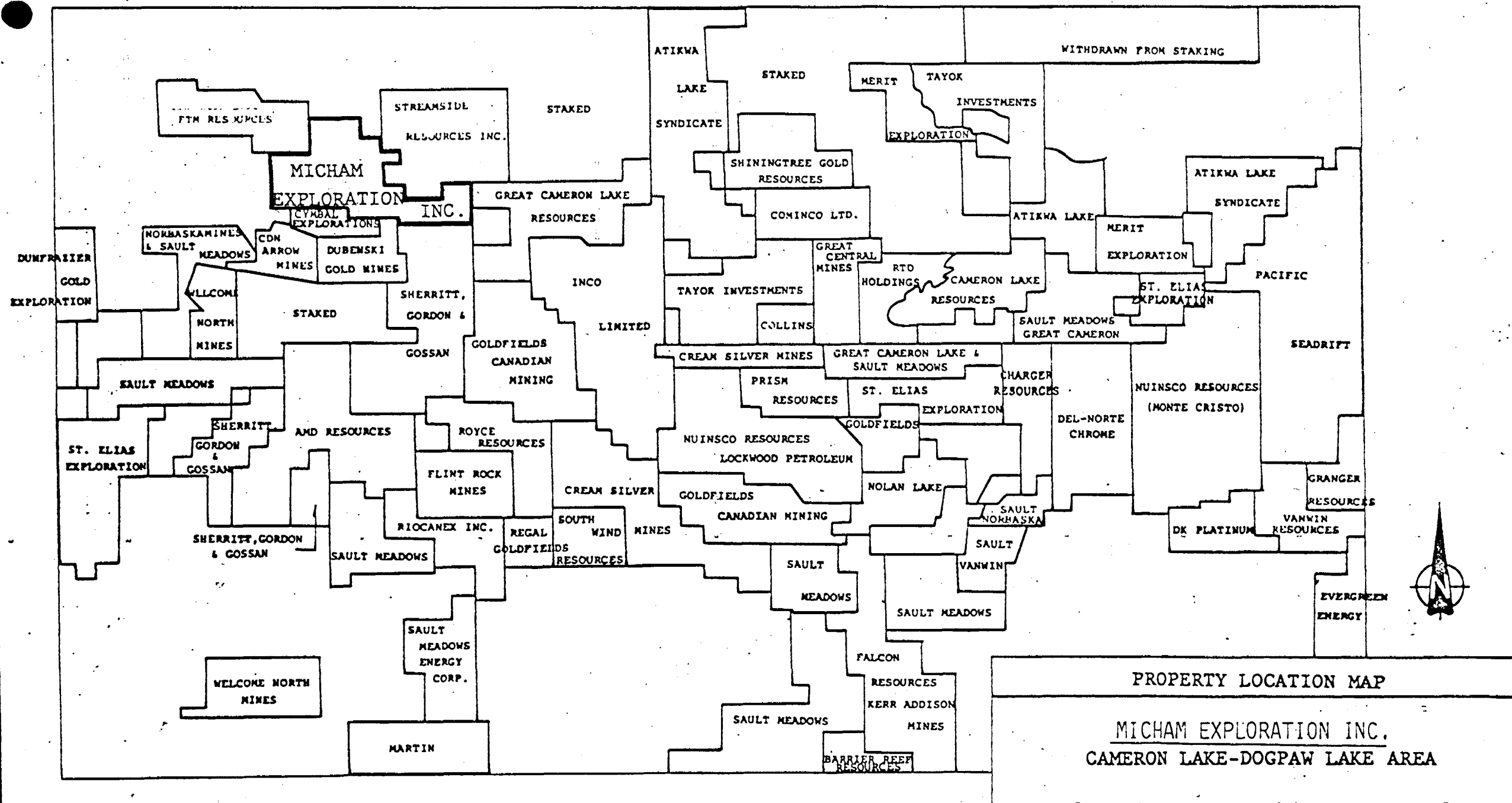
MICHAM EXPLORATION INC.

PROPERTY LOCATION

DOGPAW LAKE AREA

July 16, 1984

Figure 2



CAMERON LAKE-DOGPAW LAKE AREA



PROPERTY LOCATION MAP

MICHAM EXPLORATION INC.
CAMERON LAKE-DOGPAW LAKE AREA

Exact location & ownership not certified

July 16, 1984	Figure 3
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This ground, for the most part, is covered by dense cedar forest with some smaller stands of balsam and spruce. White and red pine are often seen on higher ground, with birch and poplar occurring in areas with proper drainage.

The Dogpaw-Cavier-Flint Lakes chain could provide abundant water supply for any size of mining operation developed.

6.0 POWER

Electric power sufficient enough for a small mining operation could be obtained within 5 miles north of the property.

7.0 ANCILLARY SERVICES

Supplies and services could be obtained from the town of Kenora which lies approximately 82.5km to the north-west. More refined equipment would have to be obtained from Winnipeg approximately 240km to the west.

8.0 HISTORY OF EXPLORATION

Gold was first discovered in the Kenora area in the latter part of the nineteenth century, and several mines were developed and operated for short periods of time. The history of exploration and development of the area covered by the claim group, begins at this time and continues through to the 1980's. For this reason a list giving dates work performed was compiled.

1901

- Flint Lake Gold Company of Philadelphia acquired the claims numbered McA285 and McA286 from the discoverer
- to this point a small amount of surface trenching had been done

1902

- trenching as well as a combined trench tunnel and 2 shafts were sunk
- shaft one was sunk to a depth of 27 feet while shaft 2 reached only 15 feet
- at this time a plant and mill were erected along with sleeping quarters, an assay office and powder storage
- all work was abandoned because assay values were too low

1931

- mine changed hands, more trenching was done on the lakeshore to the southwest of the mine
- assay values from two of these trenches were reported as \$10.60 and \$8.00 over five feet (.51 oz/tón Au and .38 oz/ton Au)

1973

- geological mapping and a magnetometer survey were performed on a property which contained some of the present day claims (those claims which surrounded the old mine)
- the work was supervised by Chester J. Kuryliw consulting geologist
- chip samples taken at the Flint Lake Gold Mine yielded values of .32 ozAu over 2 feet (Quartz vein) and .02 ozAu over 5 feet (sheared wall rock)

1980

- in May and June of this year Cymbal Explorations Incorporated drilled 8 holes on 4 separate claims adjoining the southwest boundary of the Micham property
- January of this year Noranda Exploration obtained 10 claims surrounding the Flint Lake Gold Mine
- during the summer a magnetometer and Induced Polarization survey were completed
- late summer and early fall the ten claims were mapped
- the ground was later relinquished

1983

- Micham Exploration Inc. obtained 40 claims in Dogpaw Lake Area

9.0 REGIONAL GEOLOGY

The claims now held by Micham Exploration Inc. are located in the Wabigoon Geological Subprovince of the Superior Province in the Canadian Shield.

This area is predominantly underlain by mafic (andesite and basalt) metavolcanic rocks which occur as massive or pillowed flows. They represent the oldest rock type and date to the Keewatin time period. These units were later overlain by a complex of intermediate to felsic metavolcanics with interlayered mafic to ultramafic dikes and sills.

This later series of rock units occurs within the central and southern portion of the region. The metavolcanic rocks are comprised of a basal series of tuff breccia

●d an upper series of fine-grained, well bedded dacitic to rhyolitic tuff. Some interbedded volcanoclastic sediments were noted. These sequences were in turn intruded by five mafic to ultramafic sills, some of which have been differentiated into gabbro, periodotite and pyroxenite units.

Following the deposition of these sequences was a period of deformation which resulted in folds having steeply dipping limbs and vertical, east-northeast trending axial planes. Rocks in the western, central and southern portions of the region were folded into an anticline and syncline structure having an east-northeast plunge. These folds were truncated to the northeast by a major fault trending northwest through Dogpaw and Flint Lakes. To the north of this fault the mafic metavolcanics have been folded into an anticline which trends northeast and plunges steeply north-northeast.

Post-dating the deformation was the intrusion of dioritic stocks and quartz-feldspar dikes (Davies J.C. and Morin J.A., 1976).

10.0 PROPERTY GEOLOGY

The results of the current mapping program are illustrated on Map Sheet 3210-84-4-1.

10.1 Mafic to Intermediate Metavolcanic Rock Flows

These rocks, for the most part, were massive and lacked any type of foliation except where they were associated with shearing. They consisted primarily of basalts and some andesites, which were dark green on the fresh surface and greenish-brown on the weathered face. Pillowed units were noted within these sequences but, due to deformation, top determinations were not possible.

The basalts ranged in grain size from fine to very coarse, and were primarily composed of amphibole, (probably hornblende) plagioclase (sometimes seen as phenocrysts) and quartz. Some units were noted to be very chloritic, especially those associated with shearing. Contacts of individual

units were not observed due to overburden cover, but some flow top brecciation was noted.

In some cases, because of magmatic differentiation, the flows appeared to be dacitic. They were distinguished from the basalts by their lighter colour and a much finer grain size. These units could not be traced over any notable length.

10.2 Mafic Ash Tuff

The tuffs were found as interbedded and interfingered units within the basaltic flows. These rocks were dark green in colour and consisted mainly of chlorite with minor amounts of quartz and feldspar. They had a granular texture, and in some cases contained 2-4mm quartz eyes, thus classifying them as coarse ash tuffs or crystal tuffs. Many of these units were sheared, and contained quartz-carbonate veins with traces of pyrite.

10.3 Agglomerate

This rock type appeared to be very minor, only being found in two locations on the property (FL40E/27S and FL48E/32S). It contained elongate felsic fragments in a mafic, fine grained, well foliated chlorite matrix. The felsic fragments were up to 4cm long and had a long:short axis ration of 4:1 to 5:1.

10.4 Lapilli Tuff

These rocks which ranged in composition from mafic to intermediate, contained a variety of rock fragments, most of which were quartz and feldspar, although cherty and chloritic fragments were also noted. The fragments varied in

size from about 4mm-30mm. Some of the outcrops contained fragments which were very angular, while others had stretched fragments with a length:width ratio of 4:1.

The matrix was usually composed of chlorite with minor quartz and feldspar however, in the more intermediate samples the felsic component increased, namely feldspar. These units were usually well foliated with some having a hematitic stain.

10.5 Felsic Ash Tuff

This rock type was usually light grey in colour, extremely fine grained and massive. In some cases these rocks were very highly carbonatized and as a result they took on a brown tinge. Quartz and feldspar were the main constituents.

11.0 METASEDIMENTARY ROCKS

11.1 Sandstone

Sandstone was only noted in one outcrop on the property. It was fine grained, dark grey in colour, and massive with abundant rounded quartz pebbles. Minor biotite was present as an interstitial mineral.

11.2 Shale

A fine grained siliceous shale with a dark grey to black colouration was found to occur as interflow sediments within the basaltic flows. Fine laminations measuring 5mm in width were noted. Two separate units were observed with the larger one only being traced over 200 meters.

Pyrite and pyrrhotite occurred within this unit as both stringers and fine disseminations.

11.3 Conglomerate

Conglomerate was located in only one outcrop on the property at FL72E/12S. It consisted of rounded felsic volcanic and cherty pebbles within fine to medium grained, siliceous and foliated quartz-greywacke matrix.

Some of the pebbles were elongated and reached lengths of up to 4cm.

11.4 Chert

A cherty unit was located in the northwestern portion of the property and extended along strike for approximately 360 meters from FL48E/4N to FL56E/6N. This unit was extremely fine grained, slightly carbonatized and contained traces of pyrite. It appeared to be at most 3 meters thick.

12.0 LATE MAFIC INTRUSIVES

12.1 Diabase

Diabase dikes were not prominent on the property. They were only located in two areas and were found not to be extensive. Compositionally, they consisted of plagioclase and pyroxene with a minor amount of epidote. Most of the samples noted displayed an ophitic texture.

12.2 Gabbro

Gabbro was only located in one area of the property at FL36E/20S. It was equigranular, coarse grained and consisted of plagioclase and pyroxene.

13.0 FELSIC INTRUSIVES

13.1 Quartz-Feldspar Porphyry and Quartz Porphyry

Both of these rock types represented very minor units. They consisted of a felsic matrix comprised of quartz and feldspar with minor amounts of biotite. Quartz and feldspar porphyries up to 3mm in diameter were noted.

14.0 STRUCTURE

The structural geology of the property appears to be very simple. All rock units mapped had a northwest-southeast strike with moderate northerly dips of approximately 70°. Evidence for major faulting or folding was not observed during the mapping program.

Due to the northly dips of the rock units, it appears that the property is located on the right limb of an anticline whose fold axis is located approximately 2.4km to the southeast.

15.0 MINERALIZATION AND ALTERATION

For the most part, mineralization and alteration were confined to numerous shear zones located throughout the property.

These zones were moderately to intensely sheared, usually carbonatized to some degree and slightly silicified. Quartz-carbonate veining was present in varying amounts as well. They all contained trace to approximately one percent pyrite with some containing traces of chalcopyrite. All of them had a rusty brownish-yellow iron staining.

Only two of these zones were of major interest, those being the Flint Lake Gold Mine and a new showing located on line 36E at 11+00N.

The Flint Lake Gold Mine consists of an east-west shear zone which is approximately 6 meters wide and at least 90 meters long on L32E/1N. It seems to pinch out towards the southeast and to the northwest it drops beneath a swamp. It appears to be a series of narrow intensely sheared sections within a larger zone. The zone exhibits varying degrees of carbonatization, (none being very high) slight silicification and some quartz carbonate veining.

Quartz veins are also present but, they represent a later stage of intrusion since they crosscut the northwest-southeast direction of shearing. These veins vary in width from 6cm to 24cm and contain traces of pyrite with carbonate and hematitic stain. Mineralization consists of pyrite with traces of chalcopyrite but, in total, they amount to less than one percent. Assays up to .406 oz/ton Au were obtained here.

The new zone located on line 36E appears to be of greater interest. It is approximately 5 meters in width and has a known strike length of 30 meters. The zone consists of an intensely sheared and fractured structure within a felsic lapilli tuff and ash tuff sequence. Both of these units were highly silicified. The shear itself is intensely fractured and brecciated with a network of crosscutting quartz veins of varying widths. Carbonatization has occurred, but only in very minor amounts, and is accompanied by sericitic and talcose alteration.

Mineralization consists of finely disseminated pyrite and chalcopyrite which constitute up to 2% of the rock. Of economic interest is that not only is the shear mineralized but, the surrounding tuffs, also contained pyrite and chalcopyrite. Assays result here reached 263 ppb Au.

A chlorite schistose unit (altered basalts) was located on the western portion of the property approximately 250 meters north on the lake. It continues from line 28E to line 8E where it outcrops on the lakeshore. This unit contains numerous quartz-carbonate veinlets with trace amounts of pyrite. Talcose alteration was noted here as well.

A third zone of interest was the shale unit located on the southwestern portion of the property from approximately FL64E/45S to FL56E/44S. The shales which were mineralized with syngenetic pyrite and pyrrhotite were intruded by at least two periods of quartz veining. These veins were narrow, no greater than 1cm wide, but they also contained traces of pyrite and pyrrhotite. An assay result of 902 ppb Au was returned from this zone.

The rocks as a whole, have undergone greenschist metamorphism common to the region. One notable feature of some of the basalts was that they were pervasively carbonatized giving their weathered surface a brown tinge. This appeared to be very irregular and could not be traced.

Pyrite, in trace amounts, was common throughout the property and some of the basalts contained minor amounts of magnetite.

16.0 CONCLUSIONS

The Micham Exploration Inc. claim group located in the Dogpaw Lake Area, District of Kenora, underwent geological mapping in 1984 to assess its economic potential. It was found that the property was underlain by a sequence of mafic metavolcanic flow within which intercalated pyroclastic units were deposited. Minor metasedimentary units were also noted, as were late stage mafic intrusives.

Mineralization and alteration of economic interest were confined to numerous shear and/or brecciated zones located throughout the property. These zones were usually carbonatized, slightly silicified and contained some quartz-carbonate veining. Pyrite was the most common mineral but, traces of chalcopyrite were observed in some zones. Of these zones, two were of particular interest. They were the Flint Lake Gold Mine and a new zone located of L36E. Both of these zones were trenched and samples were taken for assay in 2 foot intervals along the trenches. Assays obtained from the Flint Lake Mine showing reached as high as .4 oz Au/ton, while those from the new zone of line 36E ranged from 12-260 ppb Au.

Another zone of interest was associated with the unit of shale located on FL48E. Here a system of 1cm wide quartz veins has intruded the shale. Pyrite and pyrrhotite

are associated with this and a grab sample obtained here assayed 902 ppb.

Due to the encouraging results of the mapping a three phase exploration program has been recommended. Phase I would consist of linecutting and a limited soil sample survey, while Phase II and III would be an induced polarization survey and a diamond drill program respectively.

17.0 RECOMMENDATIONS

Due to the results obtained from the mapping program, a subsequent three phase exploration program has been recommended. Phase III would be dependent on the results of the first two phases. Phase I would include linecutting and a soil sample survey, while Phases II and III would consist of an induced polarization survey and diamond drilling respectively.

Phases I and II are to be conducted in Area A which is outlined on the geology map. See figure 4 also.

Soil samples should be collected, where possible, on the lines shown at 50 foot intervals. The "B" horizon should be sampled.

The induced polarization survey should be conducted at an "a" spacing of 50 feet with 4 "n" spacings. This survey should be performed during the winter because some of the area indicated included Corbeil Lake.

Phase III, a 2,500 foot diamond drill program would depend on the results obtained from Phase I and II.

As a further recommendation a nominal amount should be set aside in order to enlarge the airborne geophysics to a scale of 1"=400'. This is so that all maps would be at the same scale thus facilitating interpretation and making it much more accurate.

18.0 COST ESTIMATES

Phase I

Airborne Geophysics Enlargements	500.00
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Linecutting and Soil Sampling	
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Linecutting

2 miles @ \$350./mile	\$700.00
Boat \$30./day - 4 days	<u>120.00</u>
Sub-total A	1,320.00

GeochemistrySoil Survey

\$150./day/man	
75 samples/day	
250 samples	
2 days, 2 men	600.00

Assay & Preparation

\$1.00/sample	250.00
Assays \$15./Au	3,750.00

Accommodation

4 days \$40./day	160.00
Meals \$20./day/man	160.00
Travel	200.00
Boat rental \$40./day	<u>160.00</u>
Sub-total B	\$5,280.00

Sub-total A	\$1,320.00
-------------	------------

Sub-total B	\$5,280.00
-------------	------------

Report and Drafting

7 days \$450./day	<u>3,150.00</u>
Sub-total	9,750.00
15% Contingencies	<u>1,462.50</u>
Total Phase I	\$11,212.50
	say \$11,250.00

Phase IIInduced Polarization Survey

\$1,200./day .5 miles/day 2.5 miles of line - 5 days	6,000.00
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Accommodation

4 men 7 nights \$80./day	560.00
Travel (mob-demob)	1,300.00
Meals \$20./man/day	560.00

Report and Drafting

10 days \$450./day	<u>4,500.00</u>
Sub-total	12,920.00
Plus 15% Contingencies	<u>1,938.00</u>
Total Phase II	14,858.00
	say \$14,900.00

Phase IIIDiamond Drill Program

Diamond Drilling \$25./ft, 2500 ft	62,500.00
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Engineering and Supervision

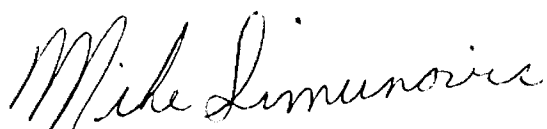
\$10,000./mo x 1.0 mos	10,000.00
Chemical Analysis 250 \$20./each	5,000.00
Whole Rock Geochemistry \$60./sample 20 samples	1,200.00

Reports and Drafting

12 days \$450./day	5,400.00
Transportation and Equipment	<u>7,500.00</u>
Sub-total	91,600.00
Plus 15% Contingencies	<u>13,740.00</u>
Total Phase III	105,340.00
	say \$105,350.00

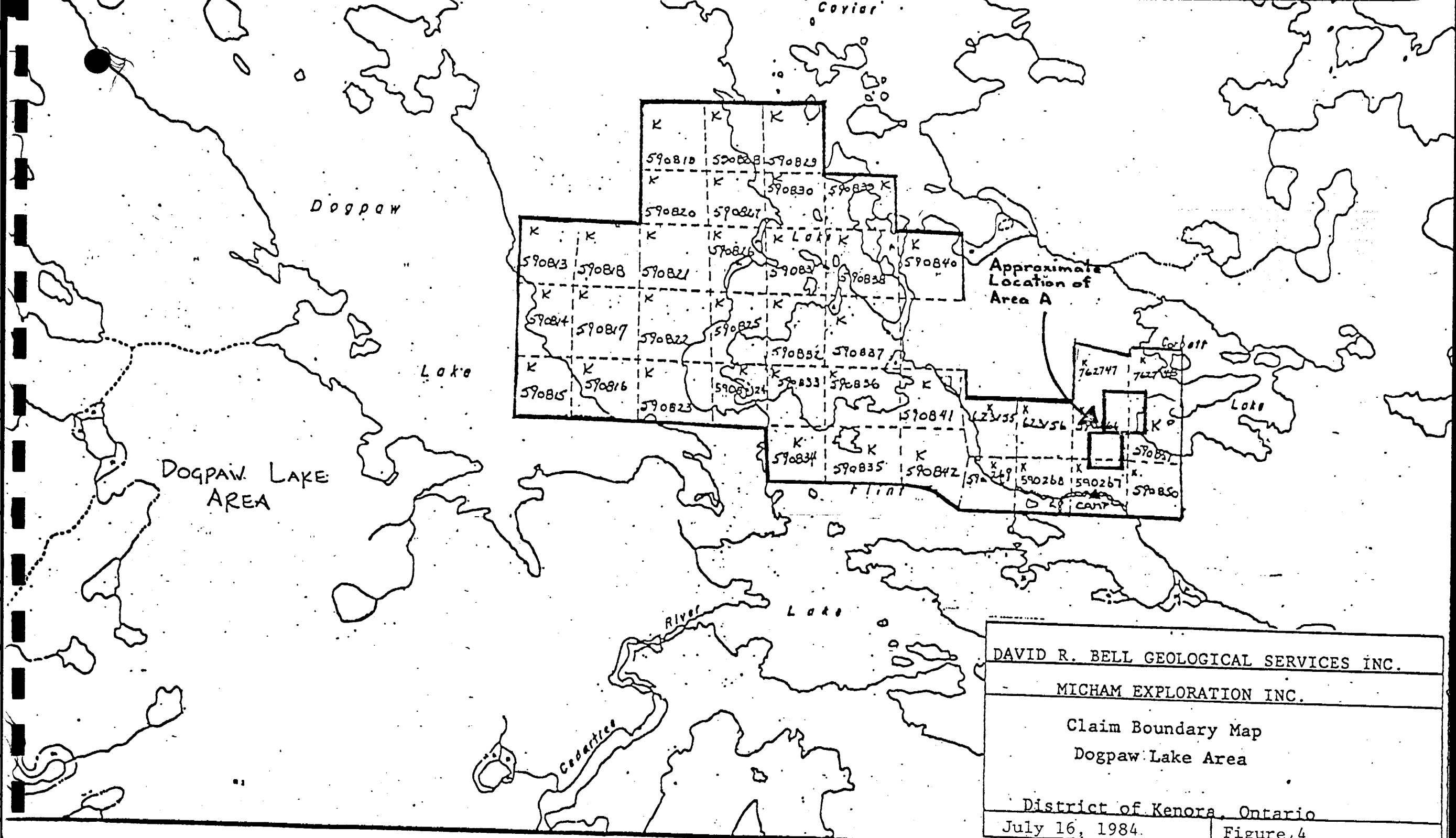
Total Phase I, II and III	11,250.00
	14,900.00
	<u>105,350.00</u>
	<u>\$131,500.00</u>

Respectfully submitted,



Mike Simunovic, B.Sc

July 16, 1984
Timmins, Ontario



DOGPAW

Lake

DOGPAW LAKE AREA

K K K

590810 590818 590829

K K

590820 590827

K K

590813 590818 590821

K K

590814 590817 590822

K K

590815 590816 590823

K K

590824 590831 590838

K K

590825 590832 590837

K K

590826 590833 590836

K K K

590834 590835 590842

Approximate Location of Area A

K 762747 K 762748

K K

590841 590844 590847

K K

590268 590267 590850

River Lake

Cedarstone

DAVID R. BELL GEOLOGICAL SERVICES INC.
 MICHAM EXPLORATION INC.
 Claim Boundary Map
 Dogpaw Lake Area
 District of Kenora, Ontario
 July 16, 1984. Figure 4

CERTIFICATE OF QUALIFICATIONS

I, Mike Simunovic hereby certify:

1. that I am a geologist employed by David R. Bell Geological Services Inc., Suite 4, 251 Third Ave., Timmins, Ontario.
2. that I am a graduate of Lakehead University in Thunder Bay, holding A Bachelor of Science degree in Geology (1983).
3. that I do not have nor do I expect to receive either directly or indirectly, any interest in this property of Micham Exploration Inc.

July 16, 1984
Timmins, Ontario

Mike Simunovic, B.Sc

Mike Simunovic

PERSONNEL

Mike Simunovic

May 31/84 - June 27/84

David R. Bell

July 9/84 - July 16/84

Geological Services Inc.

251 Third Ave., Suite 4

Timmins, Ontario

P4N 1E7

Perry Sarvas

May 31/84 - June 27/84

David R. Bell

Geological Services Inc.

251 Third Ave., Suite 4

Timmins, Ontario

P4N 1E7

Blair Hrabi

May 31/84 - June 27/84

David R. Bell

Geological Services Inc.

251 Third Ave., Suite 4

Timmins, Ontario

P4N 1E7

Bernhardt Augsten

May 31/84 - June 27/84

David R. Bell

Geological Services Inc.

251 Third Ave., Suite 4

Timmins, Ontario

P4N 1E7

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- Kuryliw, C.J. Report on A Ground Magnetic Survey Flint Lake, Flint Lake. District of Kenora, 1974.
- Kuryliw, J.C. Report on A Geologic Mapping of Claims 315316-332, 315343-359, 364464-468, Flint Lake Claim Group, District of Kenora, 1973.

APPENDIX I
WHOLE ROCK
GEOCHEMISTRY

● WHOLE ROCK GEOCHEMISTRY

A definite sequence of rock units could not be developed from the whole rock results obtained. All samples except two were found to be basalts of some form but, from the limited amount of samples collected, it appears that an iron and magnesium rich basalt occupies the middle of the property. North and south of this unit lies tholeiitic basalt.

Major alteration of any form was not noted in any sample, although some had relatively higher CO₂ content.

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755

TELEX C6-986947

CERTIFICATE OF ANALYSIS

TO: DAVID R. BELL GEOLOGICAL SERVICES INC.

ATTN: MIKE LIMUNOVIC

251 THIRD AVENUE, SUITE 4

BOX 1250

TIMMINS, ONTARIO, P4N 7J5

CUSTOMER NO. 621

DATE SUBMITTED

6-JUL-84

REPORT 21747

REF. FILE 17315-D2

27 ROCKS PROJ. 3210

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	FADCP	2.000
CO2 %	WET	0.100
WRMAJ %	WR	0.010
CO PPM	DCP	1.000
NI PPM	DCP	1.000
CU PPM	DCP	0.500
ZN PPM	DCP	0.500
WRMIN PPM	WR	10.000
MC PPM	DCP	1.000
AG PPM	DCP	0.500
CD PPM	DCP	1.000
PB PPM	DCP	2.000

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY 

DATE 26-JUL-84

SAMPLE	AU PPB	CO2 %	CO PPM	NI PPM	CU PPM
3210-151	2	1.7	40	74	130.
3210-152	2	0.4	50	100	150.
3210-153	<2	0.3	43	74	140.
3210-154	<2	0.9	40	61	170.
3210-155	3	2.1	34	93	68.0
3210-156	<2	4.7	64	58	290.
3210-157	2	2.0	56	90	230.
3210-158	<2	0.3	44	60	180.
3210-159	<2	0.3	26	51	60.0
3210-160	<2	0.1	41	38	150.
3210-161	<2	6.8	38	130	170.
3210-162	<2	0.7	41	120	150.
3210-163	<2	3.4	43	54	170.
3210-164	<2	0.4	37	49	170.
3210-165	<2	4.9	43	110	130.
3210-166	<2	2.4	45	58	190.
3210-167	<2	4.3	52	49	190.
3210-168	2	3.5	57	56	190.
3210-169	<2	0.2	29	42	83.0
3210-170	<2	0.7	42	82	150.
3210-171	<2	6.1	48	100	130.
3210-172	<2	1.6	13	31	20.0
3210-173	<2	2.8	47	110	160.
3210-174	<2	3.9	50	100	160.
3210-175	<2	0.2	36	130	180.
3210-178	<2	1.0	47	55	160.
3210-179	<2	5.6	49	83	150.

SAMPLE	ZN PPM	MO PPM	AG PPM	CD PPM	PB PPM
3210-151	86.0	<1	0.5	<1	10
3210-152	90.0	<1	0.5	<1	8
3210-153	84.0	<1	0.5	<1	8
3210-154	58.0	<1	0.5	<1	10
3210-155	60.0	<1	0.5	<1	26
3210-156	120.	4	1.0	<1	24
3210-157	140.	<1	0.5	<1	14
3210-158	83.0	<1	0.5	<1	10
3210-159	75.0	<1	0.5	<1	8
3210-160	92.0	<1	0.5	<1	6
3210-161	150.	<1	0.5	<1	18
3210-162	68.0	<1	0.5	<1	8
3210-163	82.0	<1	1.0	<1	14
3210-164	94.0	<1	0.5	<1	10
3210-165	51.0	<1	0.5	<1	16
3210-166	93.0	<1	1.0	<1	12
3210-167	130.	<1	0.5	<1	16
3210-168	110.	<1	1.0	<1	14
3210-169	63.0	<1	0.5	<1	6
3210-170	62.0	<1	0.5	<1	8
3210-171	70.0	<1	1.0	<1	16
3210-172	53.0	<1	<0.5	<1	8
3210-173	81.0	<1	1.0	<1	12
3210-174	120.	<1	0.5	<1	14
3210-175	47.0	<1	0.5	<1	6
3210-178	120.	<1	1.0	<1	10
3210-179	83.0	<1	1.0	<1	18

X	X	RRRRR	A	LL
XX	XX	RR RR	AAA	LL
XX	XX	RR RR	AA AA	LL
XXX		RR RR	AA AA	LL
XXX		RRRRR	AAAAAAA	LL
XX	XX	RR RR	AA AA	LL
XX	XX	RR RR	AA AA	LLLLLLL
X	X	RR R	AA AA	LLLLLLL

XRF - WHOLE ROCK ANALYSIS

DAVID R. BELL GEOLOGICAL SERVICES INC.
 Attn: MIKE LIMUNOVIC
 251 THIRD AVENUE, SUITE 4
 BOX 1250
 TIMMINS, ONTARIO, P4N 7J5

CUSTOMER No. 621
 DATE SUBMITTED
 6-JUL-84

REPORT 21747 REF. FILE 17315 DATE REPORTED 26-JUL-84

XRF W. R. A. SUMS INCLUDE ALL ELEMENTS DETERMINED.
 FOR SUMMATION ELEMENTS ARE CALCULATED AS OXIDES.

SAMPLE	SI02	AL2O3	CAO	MGO	NA2O	K2O	FE2O3	MNO	TIO2	P2O5	CR2O3	LOI	S.M
3210-151	48.4	14.8	8.00	6.88	0.20	0.01	14.4	0.19	1.04	0.08	0.03	5.16	99.2
3210-152	47.0	14.8	8.61	7.88	0.97	0.01	15.1	0.21	1.10	0.10	0.03	4.23	100.1
3210-153	48.4	15.0	10.0	6.44	1.51	0.01	14.4	0.20	1.11	0.09	0.01	3.16	100.4
3210-154	48.8	13.8	12.5	4.66	2.11	0.04	14.0	0.21	1.13	0.09	0.01	2.00	99.4
3210-155	49.8	12.3	9.03	9.29	1.98	0.10	11.2	0.18	0.77	0.13	0.05	4.54	99.4
3210-156	46.8	12.1	6.31	6.75	1.74	0.25	17.2	0.20	0.69	0.06	<0.01	6.54	98.6
3210-157	45.7	15.1	5.26	7.18	2.61	0.04	16.3	0.19	1.39	0.10	0.03	6.15	100.1
3210-158	50.3	13.6	9.93	6.41	0.95	0.02	14.5	0.21	1.11	0.10	0.02	3.16	100.3
3210-159	61.0	15.8	2.39	3.48	6.13	0.76	6.96	0.11	0.67	0.17	0.01	2.31	99.8
3210-160	50.1	12.9	9.72	5.38	1.06	0.02	16.6	0.24	1.47	0.12	0.01	2.70	100.4
3210-161	48.7	14.6	9.23	3.92	1.12	0.43	10.5	0.21	0.81	0.06	0.02	9.54	99.2
3210-162	46.9	15.6	11.4	7.25	1.33	0.01	13.2	0.21	0.85	0.07	0.03	3.31	100.2
3210-163	47.7	13.3	10.5	6.35	0.69	0.01	13.1	0.21	1.02	0.08	0.02	6.93	99.9
3210-164	49.3	15.5	8.26	5.24	2.49	0.04	14.0	0.20	1.33	0.12	<0.01	3.00	99.5
3210-165	46.1	13.7	7.79	7.79	2.67	0.03	11.8	0.15	0.83	0.06	0.03	8.16	99.1
3210-166	47.3	14.2	10.7	4.48	2.14	0.13	14.5	0.23	1.38	0.12	<0.01	4.08	99.3
3210-167	48.4	12.5	6.38	4.67	2.75	0.02	16.0	0.21	1.44	0.11	<0.01	6.70	99.2
3210-168	46.5	12.8	9.70	5.70	1.19	<0.01	15.8	0.22	1.25	0.10	<0.01	6.39	99.7
3210-169	50.4	14.2	9.95	5.68	2.33	0.03	12.9	0.20	1.00	0.08	0.01	2.70	99.5
3210-170	47.8	14.0	10.5	7.29	1.81	0.12	14.5	0.21	0.96	0.07	0.01	3.16	100.5
3210-171	49.2	14.5	10.1	3.05	4.26	0.03	9.49	0.21	1.00	0.08	0.02	8.54	100.5
3210-172	65.2	16.0	2.82	1.57	5.80	1.32	4.02	0.06	0.43	0.09	<0.01	2.93	100.3
3210-173	47.8	14.2	9.99	6.59	0.76	0.01	13.2	0.20	0.90	0.07	0.03	6.62	100.4
3210-174	46.7	14.6	8.66	5.50	1.42	0.02	14.2	0.20	1.01	0.08	0.02	7.85	100.3
3210-175	47.2	15.6	12.0	8.21	1.08	0.02	11.8	0.17	0.64	0.05	0.06	3.08	99.9
3210-178	50.4	14.2	3.89	5.83	3.59	0.37	15.3	0.23	1.28	0.10	0.01	4.70	99.9
3210-179	45.7	13.9	13.5	3.50	1.20	0.01	12.7	0.24	1.03	0.08	0.02	8.23	100.2

SAMPLE	RB	SR	Y	ZR	NR
3210-151	10	120	20	40	30
3210-152	20	220	20	70	<10
3210-153	10	210	10	50	20
3210-154	<10	150	20	30	40
3210-155	10	370	20	60	30
3210-156	20	80	<10	30	20
3210-157	20	70	20	50	10
3210-158	10	180	10	60	20
3210-159	10	100	<10	130	20
3210-160	20	140	30	70	30
3210-161	10	150	10	30	20
3210-162	20	160	10	20	10
3210-163	10	180	20	30	20
3210-164	<10	230	20	80	10
3210-165	<10	50	50	30	20
3210-166	10	180	20	80	30
3210-167	<10	100	20	70	30
3210-168	10	230	10	70	20
3210-169	<10	80	20	50	30
3210-170	10	230	10	40	20
3210-171	10	90	20	30	10
3210-172	50	200	<10	100	10
3210-173	<10	190	10	20	10
3210-174	20	140	10	40	10
3210-175	<10	120	10	10	10
3210-178	20	50	20	70	20
3210-179	10	190	20	60	10

X-RAY ASSAY LABORATORIES

SYMBOL TABLE

CODE	SYMBOL	CODE	SYMBOL
1	□	14	★
2	○	15	◀
3	▲	16	↔
4	+	17	✕
5	x	18	↳
6	◆	19	×
7	+	20	✕
8	x	21	+
9	z	22	×
10	γ	23	∧
11	x	24	→
12	*	25	×
13	x	26	↖

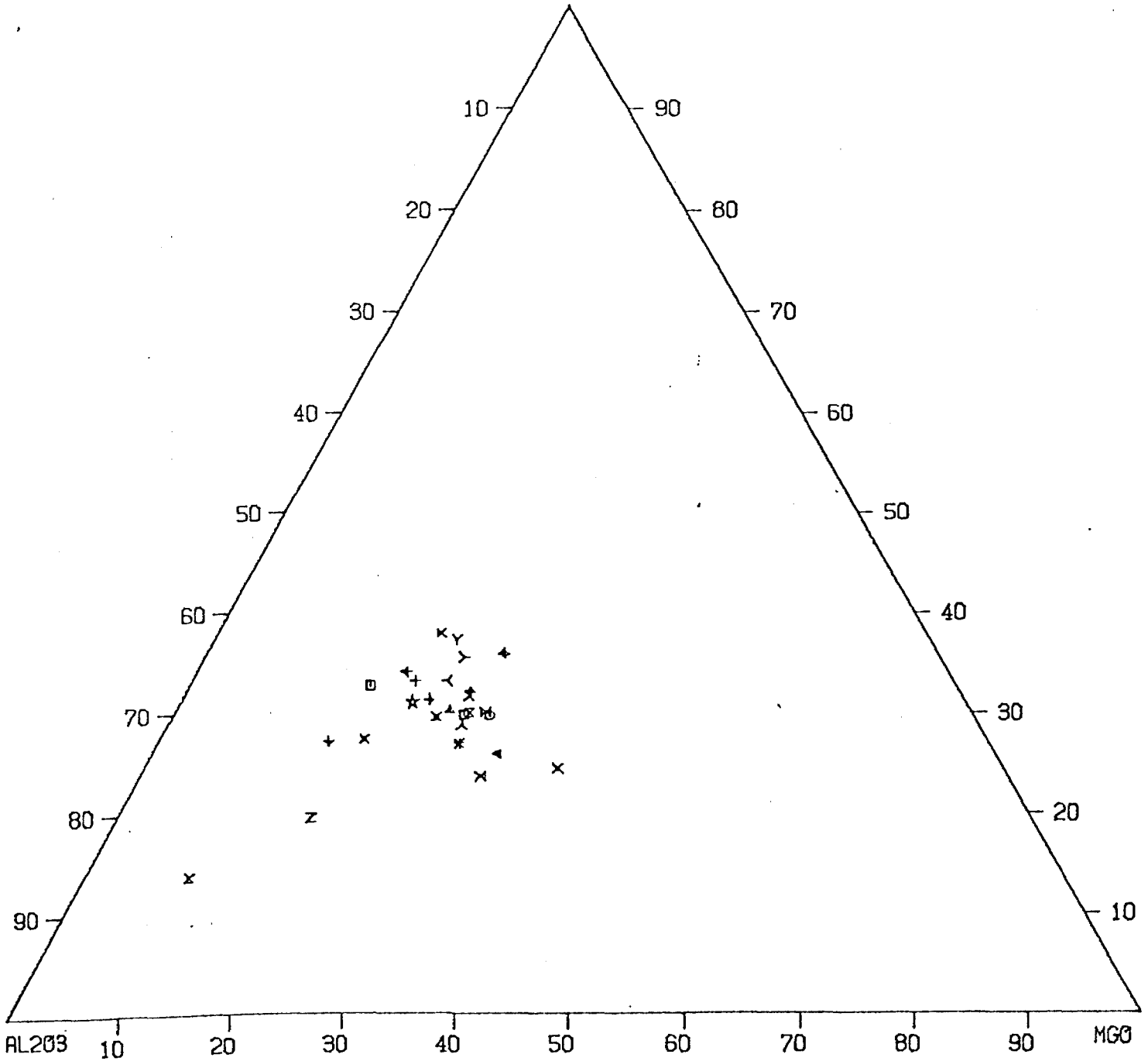
JENSEN CATION PLOT - SYMBOL REFERENCE

- UK - ULTRAMAFIC KOMATIITE
- BK - BASALTIC KOMATIITE
- FT - IRON RICH BASALT
- MT - HIGH MAGNESIUM BASALT
- AT - THOLEIITIC ANDESITE
- DT - THOLEIITIC DACITE
- RT - THOLEIITIC RHYOLITE
- BC - CALC-ALKALIC BASALT
- AC - CALC-ALKALIC ANDESITE
- DC - CALC-ALKALIC DACITE
- RC - CALC-ALKALIC RHYOLITE
- BT - THOLEIITIC BASALT
- ** - NOT DEFINED

● D.R. BELL GEOLOGICAL SERVICES 26-JUL-84

JENSEN CATION PLOT

FeO+Fe₂O₃+TiO₂+MnO



GRAPH 1

DATE 26-JUL-84

SAMPLE	JC	CODE	FeO+Fe2O3+TiO2+MnO	Al2O3	MgO
3210-151	BT	1	29.84	44.19	25.98
3210-152	BT	2	29.76	41.97	28.26
3210-153	BT	3	30.27	45.19	24.54
3210-154	FT	4	33.25	46.77	19.97
3210-155	MT	5	24.42	38.65	36.92
3210-156	FT	6	35.91	37.59	26.50
3210-157	BT	7	32.10	42.40	25.50
3210-158	BT	8	31.79	42.74	25.47
3210-159	AC	9	19.68	62.82	17.50
3210-160	FT	10	37.28	41.07	21.66
3210-161	BC	11	27.37	54.22	18.41
3210-162	BT	12	26.91	46.03	27.05
3210-163	BT	13	30.06	43.61	26.33
3210-164	FT	14	30.98	48.35	20.67
3210-165	BT	15	25.76	43.19	31.06
3210-166	FT	16	34.15	47.07	18.78
3210-167	FT	17	38.01	42.10	19.89
3210-168	FT	18	35.56	41.22	23.21
3210-169	BT	19	29.66	46.71	23.63
3210-170	BT	20	30.15	42.12	27.74
3210-171	AT	21	27.17	57.53	15.30
3210-172	DC	22	13.82	76.67	9.51
3210-173	BT	23	28.87	44.82	26.31
3210-174	FT	24	31.40	46.46	22.14
3210-175	BT	25	23.69	45.82	30.50
3210-178	FT	26	33.26	43.93	22.81
3210-179	AT	1	32.78	50.98	16.23

L.S. JENSEN(1976): A NEW CATION PLOT FOR CLASSIFYING SUBALKALIC VOLCANIC ROCKS. ONTARIO DIVISION OF MINES, MISCELLANEOUS PAPER 66.

E.C. GRUNSKY(1981): NO.16 AN ALGORITHM FOR THE CLASSIFICATION OF SUBALKALIC VOLCANIC ROCKS USING THE JENSEN CATION PLOT.

SUMMARY OF FIELD WORK. ONTARIO DIVISION OF MINES, MISCELLANEOUS PAPER 100.

APPENDIX II
ROCK ASSAY
RESULTS



BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187.

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. B471-84

DATE: June 15, 1984

SAMPLE(S) OF: Rock (10)

RECEIVED: June, 1984

SAMPLE(S) FROM: Mr. Mike Simunovic
David R. Bell Geological Services Inc. Project #321

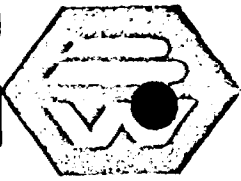
<u>Sample No.</u>	<u>Au/ppb</u>	<u>Au/oz.</u>	<u>Ag/ppm</u>
321-000-101	8		0.2
2	5		0.4
3	2386	0.090	0.6
4	631		0.6
5		0.406**	0.8
6	25		0.6
7	4		0.2
8	26		0.2
9	655		0.4
-110	12		0.2

** Checked

BELL-WHITE ANALYTICAL LABORATORIES LTD.

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

PER



BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187.

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. B471-84

DATE: June 15, 1984

SAMPLE(S) OF: Rock (10)

RECEIVED: June, 1984

SAMPLE(S) FROM: Mr. Mike Simunovic

David R. Bell Geological Services Inc.

Project #321

<u>Sample No.</u>	<u>Au/ppb</u>	<u>Au/oz.</u>	<u>Ag/ppm</u>
321-000-101	8		0.2
2	5		0.4
3	2386	0.090	0.6
4	631		0.6
5		0.406**	0.8
6	25		0.6
7	4		0.2
8	26		0.2
9	655		0.4
-110	12		0.2

** Checked

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.



BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187.

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. B515-84

DATE: June 21, 1984

SAMPLE(S) OF: Rock (17)

RECEIVED: June, 1984

SAMPLE(S) FROM: Mr. Art Wright
David R. Bell Geological Services Inc.

<u>Sample No.</u>	<u>Au/ppb</u>
321-001	12
-002	2
-003	31
-004	20
-005	151
-006	263
-007	57
-008	127
-009	130
321-010	184
-011	31
-012	12
-013	7
-014	5
-015	8
-016	16
-017	45

BELL-WHITE ANALYTICAL LABORATORIES LTD.

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.



BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187.

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. B526-84

DATE: June 22, 1984

SAMPLE(S) OF: Rock (9)

RECEIVED: June, 1984

SAMPLE(S) FROM: Mr. Art Wright
David R. Bell Geological Services Inc.

<u>Sample No.</u>	<u>Au/ppb</u>	<u>Au/oz.</u>
111	38	
2		0.037
3	51	
4	10	
5	8	
6	197	
7	20	
8	177	
9	8	

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER 



BELL-WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187,

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. B538-84

DATE: June 26, 1984

SAMPLE(S) OF: Rock (17)

RECEIVED: June, 1984

SAMPLE(S) FROM: Mr. Art Wright
David R. Bell Geological Services Inc.

<u>Sample No.</u>	<u>Silver/ppm</u>
321-001	0.2
-002	0.2
-003	0.4
-004	0.2
-005	0.2
-006	0.2
-007	0.2
-008	0.2
-009	0.2
-010	0.2
-011	0.2
-012	0.2
-013	0.2
-014	0.2
-015	0.2
-016	0.8
-017	0.8

ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER



BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187.

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. B619-84

DATE: July 10, 1984

SAMPLE(S) OF: Rock (27)

RECEIVED: June, 1984

SAMPLE(S) FROM: Perry Sarvas
David R. Bell Geological Services Inc. Project #3210

<u>Sample No.</u>	<u>Au/ppb</u>
3210-124	38
5	4
6	5
7	5
8	902**
9	10
-130	3
1	15
2	4
3	25
4	5
5	16
6	4
7	12
8	5
9	11
-140	53
1	3
2	4
3	136
4	12
5	5
6	4
7	2
8	3
9	2
-150	14

** Checked

BELL-WHITE ANALYTICAL LABORATORIES LTD.

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

PER



BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187.

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. B713-84

DATE: July 20, 1984

SAMPLE(S) OF: Rock (6)

RECEIVED: July, 1984

SAMPLE(S) FROM: Mr. Mike Simunovic
David R. Bell Geological Services Inc. Project #321

<u>Sample No.</u>	<u>Gold/ppb</u>
321-000-176	5
7	4
321-000-180	8
1	8
2	5
3	7

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

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 _____

TABLE I

MICHAM EXPLORATION INC. CLAIMS

<u>Claim Number</u>	<u>Date Recorded</u>
K590266	February 14, 1983
K590267	February 14, 1983
K590268	February 14, 1983
K590269	February 14, 1983
K590813	February 14, 1983
K590814	February 1, 1983
K590815	February 1, 1983
K590816	February 1, 1983
K590817	February 1, 1983
K590818	February 1, 1983
K590819	February 1, 1983
K590820	February 1, 1983
K590821	February 1, 1983
K590822	February 1, 1983
K590823	February 1, 1983
K590824	February 1, 1983
K590825	February 1, 1983
K590826	February 1, 1983
K590827	February 1, 1983
K590828	February 1, 1983
K590829	February 1, 1983
K590830	February 1, 1983
K590831	February 1, 1983
K590832	February 1, 1983
K590833	February 1, 1983
K590834	February 1, 1983
K590835	February 1, 1983
K590836	February 1, 1983
K590837	February 1, 1983

TABLE I CONT'D

<u>Claim Number</u>	<u>Date Recorded</u>
K590838	February 1, 1983
K590839	February 1, 1983
K590840	February 1, 1983
K590841	February 1, 1983
K590842	February 1, 1983
K590850	March 1, 1983
K590851	March 1, 1983
K623155	February 14, 1983
K623156	February 14, 1983
K762747	May 17, 1983
K762748	May 17, 1983



52F05SW0074 2.8114 DOGPAW LAKE

900

Mining Lands Section

File No 2.8114

Control Sheet

TYPE OF SURVEY GEOPHYSICAL
 GEOLOGICAL
 GEOCHEMICAL
 EXPENDITURE

MINING LANDS COMMENTS:

L.D.
L.D.

Dennis K.
 Signature of Assessor

May 27/85
 Date

1985 07 09

Your File: 106/85
Our File: 2.8114

Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9

Dear Sir:

RE: Notice of Intent dated June 7, 1985
Geological Survey on Mining Claims
K 590266, et al, in the Dogpaw Lake
Area

The assessment work credits, as listed with the
above-mentioned Notice of Intent, have been approved
as of the above date.

Please inform the recorded holder of these mining
claims and so indicate on your records.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-4888

D. Kinvig:mc

cc: Micham Exploration Inc
P.O. Box 10108
Suite 1550
609 Granville Street
Vancouver, B.C.
V7Y 1C6
cc: Mr. G.H. Ferguson
Mining & Lands Section
Toronto, Ontario

Encl.

cc: R.A. Bell
c/o David R. Bell Geological
Services
P.O. Box 1250
Timmins, Ontario
P4N 7J5
cc: Resident Geologist
Kenora, Ontario

Recorded Holder	MICHAM EXPLORATION INC
Township or Area	DOGPAW LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ 32 days	K 590266 to 69 inclusive 590813-14
Geochemical _____ days	590816 to 28 inclusive 590831 to 40 inclusive 590850-51 623155-56 762747-48
Man days <input type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims.	
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

K 590815
590829-30
590841-42



June 24/85

1985 06 07

Your File: 106/85
Our File: 2.8114

Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

f.d.k. D. Kinvig:mc

Encls.

cc: Micham Exploration Inc
P.O. Box 10108
Suite 1550
609 Granville Street
Vancouver, B.C.
V7Y 1C6

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

cc: R.A. Bell
c/o David R. Bell Geological Services
P.O. Box 1250
Timmins, Ontario
P4N 7J5



Ministry of
Natural
Resources

Notice of Intent
for Technical Reports

1985 06 07

2.8114/106/85

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



Ministry of
Natural
Resources

Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

FWM
2,814

106/85

- Instructions - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

The Mining Act

Type of Survey(s) **3a10 psl113**
GEOLOGY AND LINE CUTTING.

Claim Holder(s) **MICHAM EXPLORATION INC.**

Address **P.O. Box 10108, Suite 1550, 609 GRANVILLE ST., VANCOUVER B.C. V7Y 1C6.**

Survey Company **DAVID R. BELL GEOLOGICAL SERVICES INC.**

Township or Area **DOG PAW HALE AREA**

Prospector's Licence No. **T-1185.**

Name and Address of Author (of Geo. Technical report)
Mike Simoniak c/o DAVID R. BELL GEOLOGICAL SERVICES - P.O. BOX 1250, TIMMINI, ONT.

Date of Survey (from & to)
Day | Mo. | Yr. | Day | Mo. | Yr. **31 5 84 | 10 7 84**

Total Miles of line Cut **28.08**

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geochemical	40

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

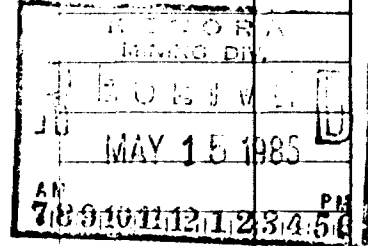
Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
K	590266 et al				
	see attached & page list.				

RECEIVED

MAY 27 1985

MINING LANDS SECTION



Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ 15 = Total Days Credits

590266

Total number of mining claims covered by this report of work. **40**

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only

Total Days Cr. Recorded **1600**

Date Recorded **May 15/85**

Date Approved as Recorded

Mining Recorder **[Signature]**

Branch Director

Date **May 13/85**

Recorded Holder or Agent (Signature) **R.A. Bell**

Certification Verifying Report of Work

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
R.A. Bell c/o DAVID R. BELL - P.O. Box 1250, TIMMINI, ONTARIO

Date Certified **May 13, 1985**

Certified by (Signature) **R.A. Bell**

TABLE I

MICHAM EXPLORATION INC. CLAIMS 3210

<u>Claim Number</u>	<u>Date Recorded</u>
K590266	February 14, 1983
K590267	February 14, 1983
K590268	February 14, 1983
K590269	February 14, 1983
K590813	February 14, 1983
K590814	February 1, 1983
K590815	February 1, 1983
K590816	February 1, 1983
K590817	February 1, 1983
K590818	February 1, 1983
K590819	February 1, 1983
K590820	February 1, 1983
K590821	February 1, 1983
K590822	February 1, 1983
K590823	February 1, 1983
K590824	February 1, 1983
K590825	February 1, 1983
K590826	February 1, 1983
K590827	February 1, 1983
K590828	February 1, 1983
K590829	February 1, 1983
K590830	February 1, 1983
K590831	February 1, 1983
K590832	February 1, 1983
K590833	February 1, 1983
K590834	February 1, 1983
K590835	February 1, 1983
K590836	February 1, 1983
K590837	February 1, 1983

U.S. DEPT. OF THE INTERIOR
MINING DIV.
MAY 15 1985
AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

TABLE 1 CONT'D 3a0

<u>Claim Number</u>	<u>Date Recorded</u>
K590838	February 1, 1983
K590839	February 1, 1983
K590840	February 1, 1983
K590841	February 1, 1983
K590842	February 1, 1983
K590850	March 1, 1983
K590851	March 1, 1983
K623155	February 14, 1983
K623156	February 14, 1983
K762747	May 17, 1983
K762748	May 17, 1983

RECEIVED
MAY 15 1985
AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

1985 05 21

File: 2.8114

Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9

Dear Sir:

We received reports and maps on May 15, 1985 for a Geological Survey submitted under Special Provisions (credit for Performance and Coverage) and Data for Assaying on Mining Claims K 590266, et al, in the Area of Dogpaw Lake.

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 your office 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)965-4888

A. Barr:mc

cc: David R. Bell Geological Services Inc cc: Micham Exploration Inc
251 Third Avenue Suite 1030
Suite 4 609 Granville Street
Box 1250 Vancouver, B.C.
Timmins, Ontario V7Y 1C6
P4N 7J5

DAVID R. BELL GEOLOGICAL SERVICES INC.

251 THIRD AVE., SUITE 4
BOX 1250
TIMMINS, ONTARIO
P4N 7J5
(705) 264-4286
TELEX · 067-81638

REGISTERED

May 13, 1985

Mr. F.W. Mathews
Lands Administration Branch
Mining Lands Section
Ministry of Natural Resources
Room 6610
Whitney Block, Queen's Park
Toronto, Ontario
M7A 1W3

Dear Mr. Mathews:

Re: Micham Exploration Inc. #3210, Dogpaw Lake, Claims K590266 et al

Enclosed please find 2 copies of a geological report by Mike Simunovic. The report of work was sent May 13, 1985 to Kenora Mining Recorder.

Please acknowledge receipt of the reports.

Should you have any questions regarding the above please do not hesitate to contact me at 416-366-1587 or 705-264-4286.

Sincerely yours,

R.A. Bell

R.A. Bell
Vice-President

RAB/kg

Encl.

cc N. Dragovan
D. Moore

File - 3210 - corresp., geol. reports

RECEIVED

MAY 15 1985

MINING LANDS SECTION

WORKSHEET

TABLE I

MICHAM EXPLORATION INC. CLAIMS 3210

Claim Number	Score	Date Recorded
K590266	✓	February 14, 1983
K590267	> 1/4	February 14, 1983
K590268	> 1/4	February 14, 1983
K590269	3/4	February 14, 1983
K590813	✓	February 14, 1983
K590814	> 1/4	February 1, 1983
K590815	0	February 1, 1983
K590816	1/4	February 1, 1983
K590817	✓	February 1, 1983
K590818	✓	February 1, 1983
K590819	✓	February 1, 1983
K590820	✓	February 1, 1983
K590821	✓	February 1, 1983
K590822	✓	February 1, 1983
K590823	✓	February 1, 1983
K590824	1/2	February 1, 1983
K590825	1/2	February 1, 1983
K590826	✓	February 1, 1983
K590827	1/4	February 1, 1983
K590828	3/4	February 1, 1983
K590829	0	February 1, 1983
K590830	0	February 1, 1983
K590831	3/4	February 1, 1983
K590832	1/2	February 1, 1983
K590833	✓	February 1, 1983
K590834	> 3/4	February 1, 1983
K590835	3/4	February 1, 1983
K590836	> 1/4	February 1, 1983
K590837	✓	February 1, 1983

26/4

FEDERAL RESERVE BANK OF NEW YORK
 MAY 15 1985
 AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

D.K.

TABLE 1 CONT'D 320

Claim Number	Date Recorded
K590838 ^{Geol.} 3/4	February 1, 1983
K590839 3/4	February 1, 1983
K590840 ✓	February 1, 1983
K590841 ○	February 1, 1983
K590842 ○	February 1, 1983
K590850 ✓	March 1, 1983
K590851 1/4	March 1, 1983
K623155 1/2	February 14, 1983
K623156 ✓	February 14, 1983
K762747 ✓	May 17, 1983
K762748 ✓	May 17, 1983

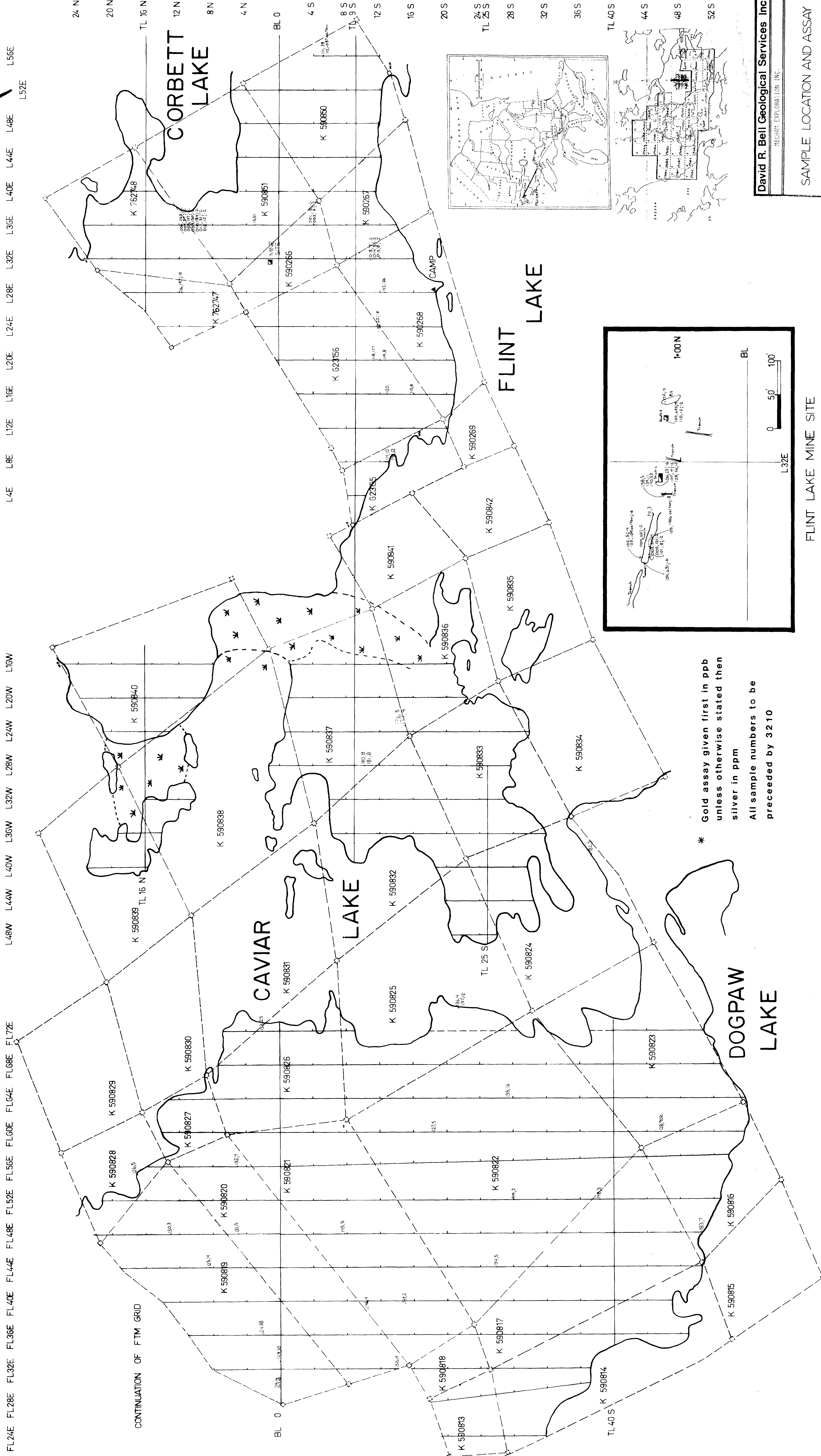
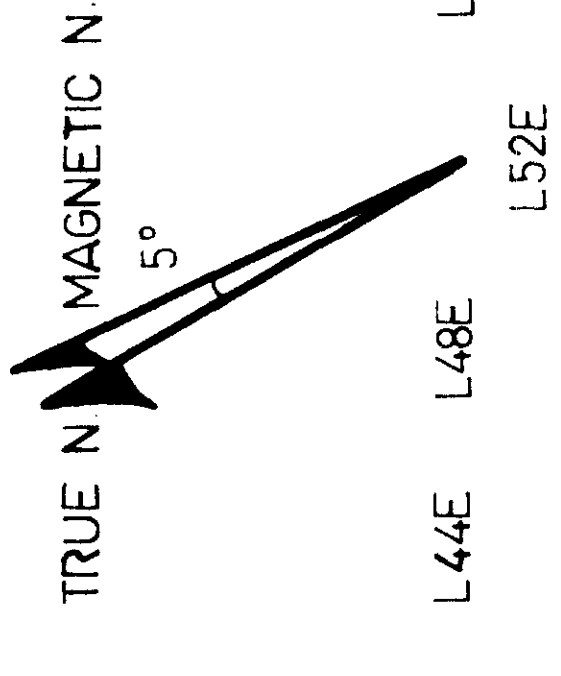
9/4

Prod. Rate Geol.:

$$(35 \times 40) \div (35 + \frac{35}{11}) = 32$$

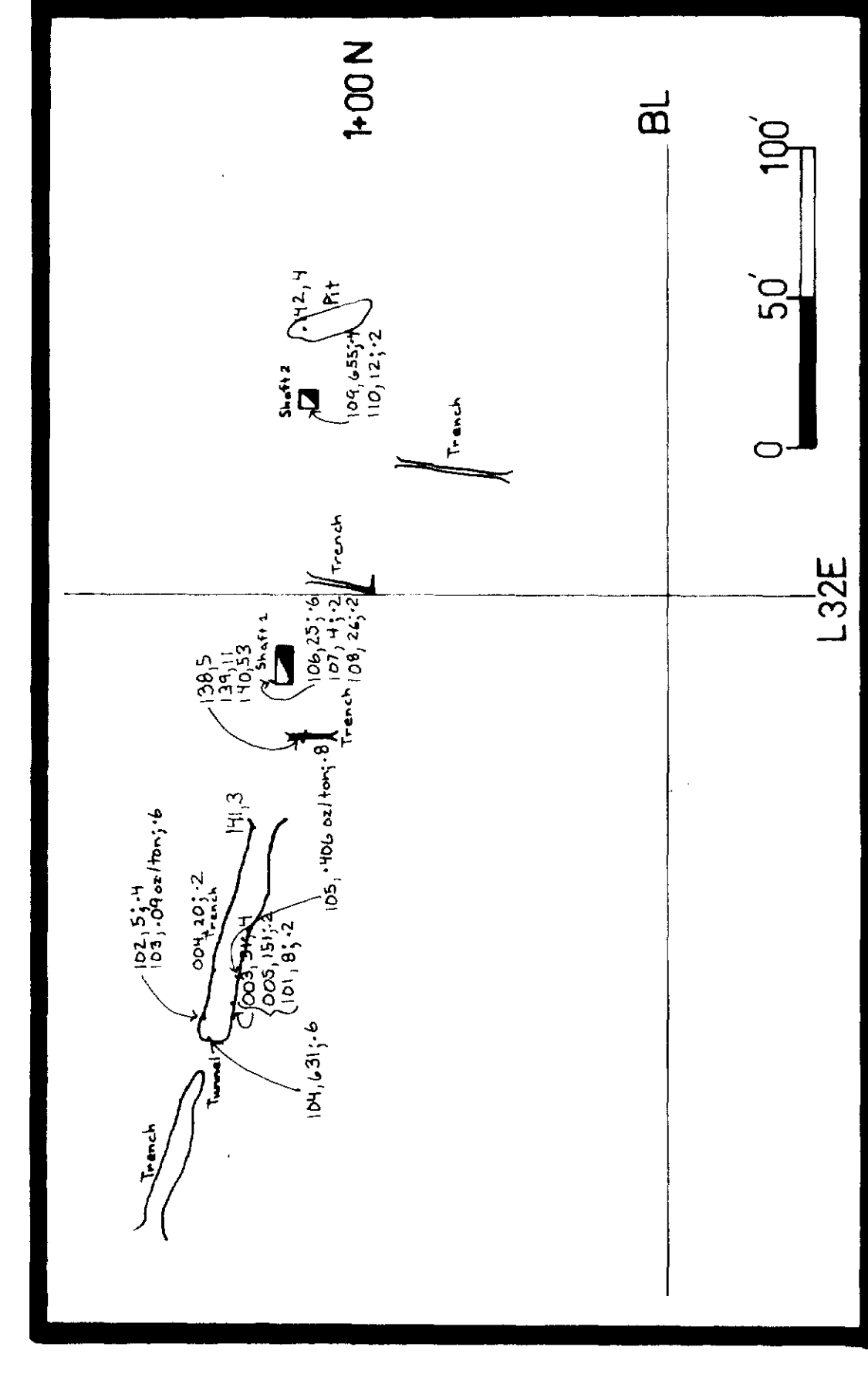
FEDERAL BUREAU OF INVESTIGATION
 RECEIVED
 MAY 15 1985
 AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

D.K.



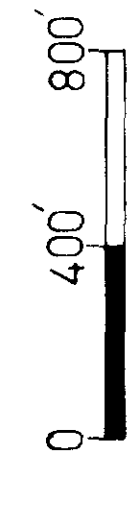
FL24E FL28E FL32E FL36E FL40E FL44E FL48E FL52E FL56E FL60E FL64E FL68E FL72E L48W L44W L40W L36W L32W L28W L24W L20W L16W L4E L8E L12E L16E L20E L24E L28E L32E L36E L40E L44E L48E L52E

CONTINUATION OF FTM GRID

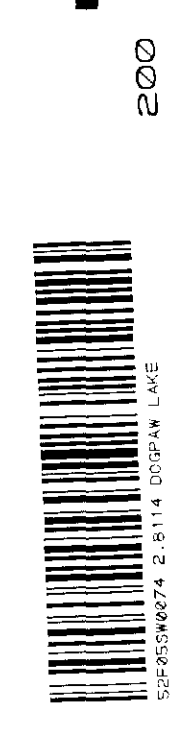


* Gold assay given first in ppb unless otherwise stated then silver in ppm
All sample numbers to be preceded by 3210

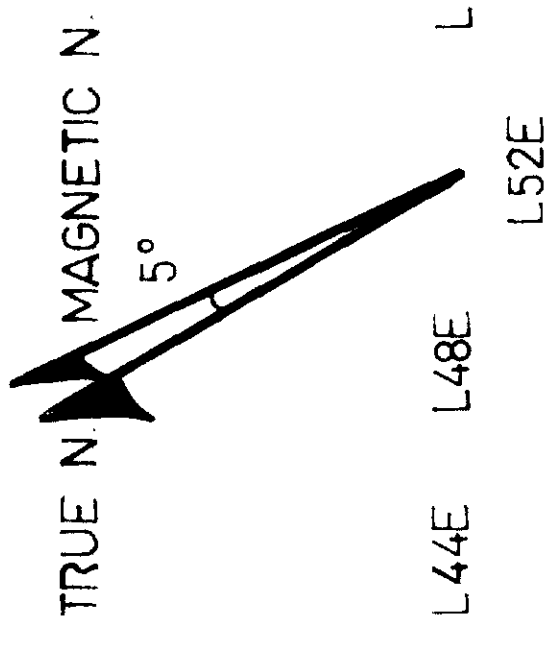
FLINT LAKE MINE SITE



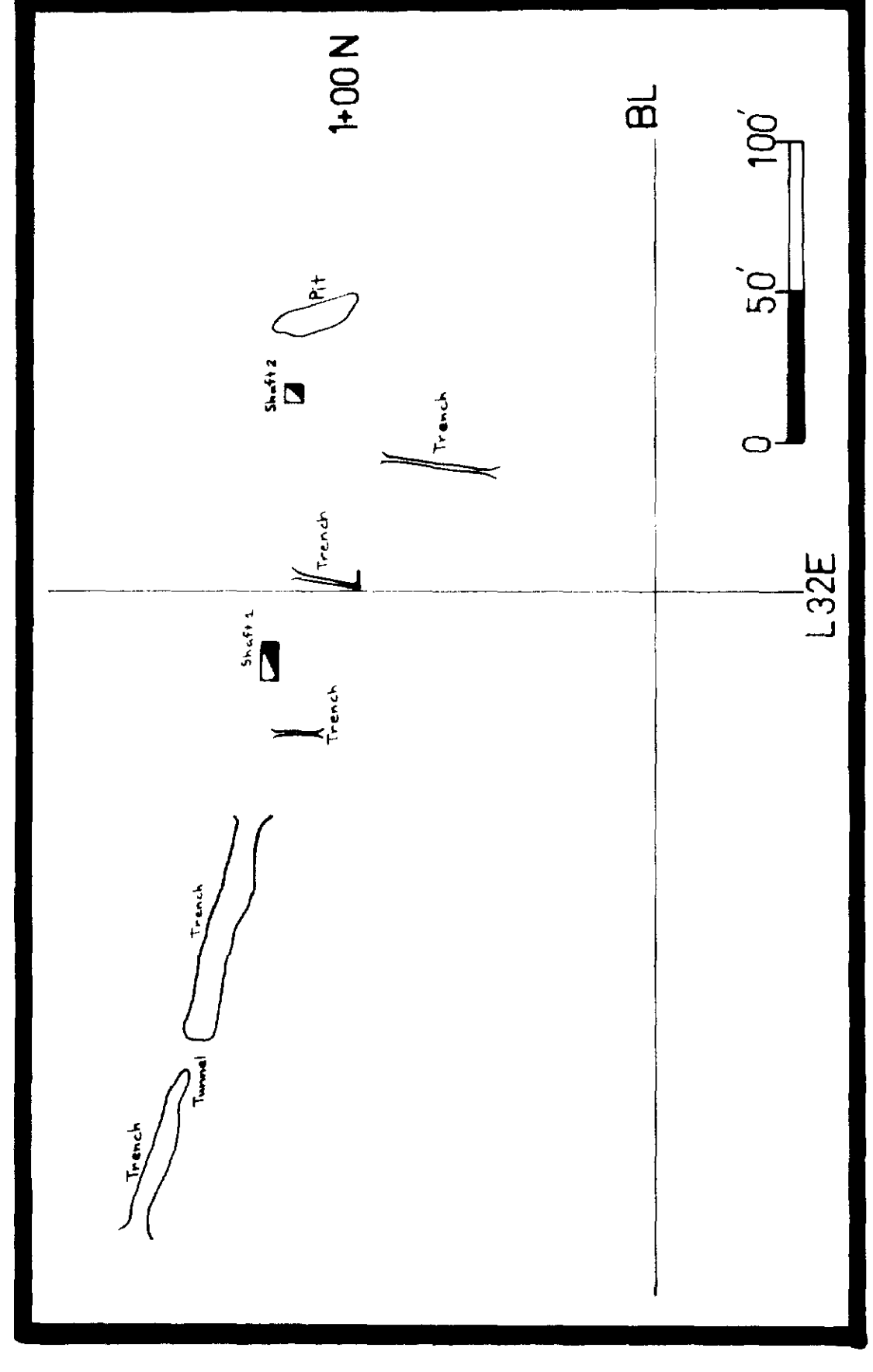
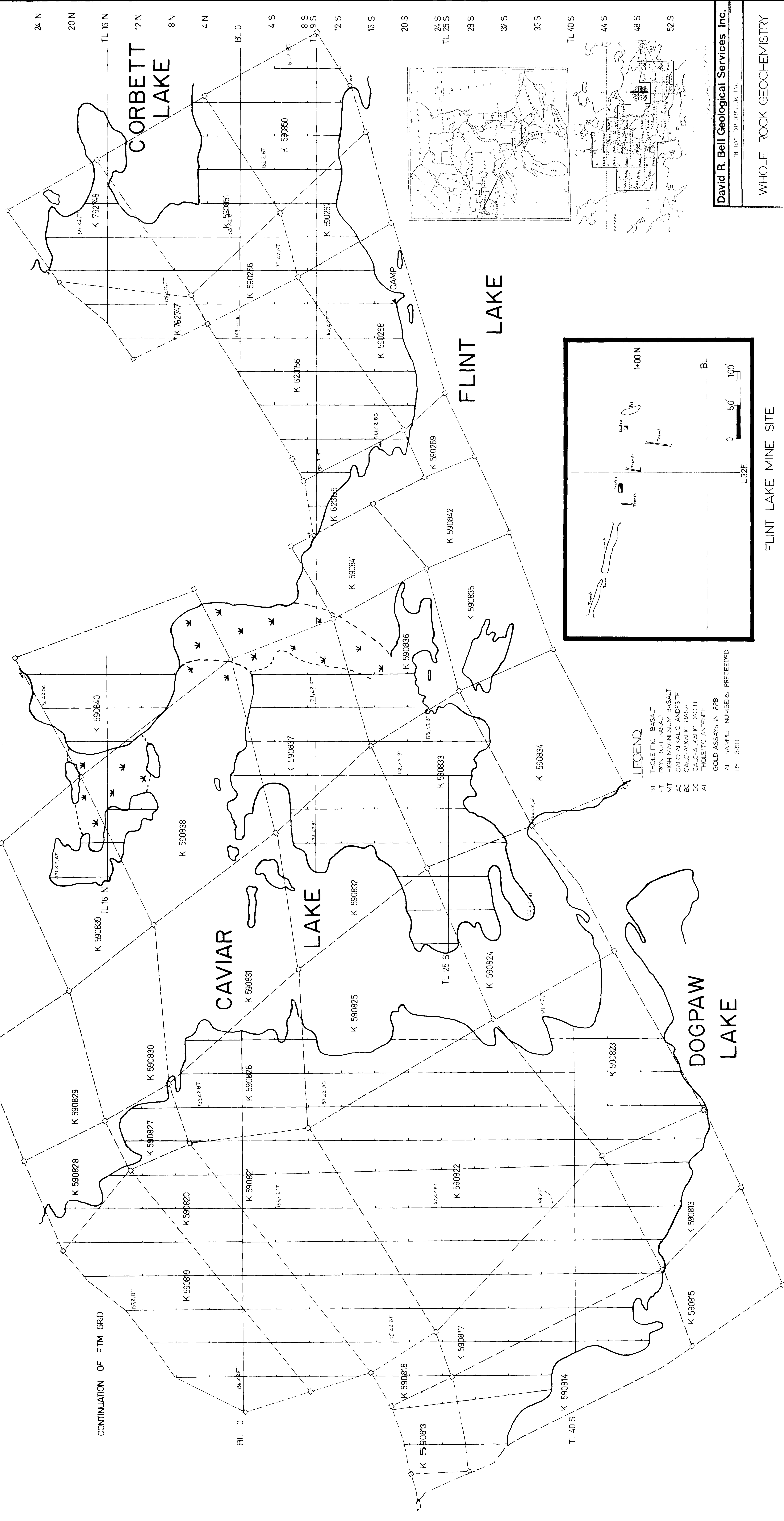
David R. Bell Geological Services Inc.	
REGULATORY EXPLORATION INC.	
SAMPLE LOCATION AND ASSAY	
TWP/AREA	Drummond Lake Area
MINING DIVISION	Address
REFERENCES	N.T.S. No. 2277/5
DRAWN BY	Checked
SCALE	DATE August 17, 84
SHEET No. 2110-84-29	



200



FL24E FL28E FL32E FL36E FL40E FL44E FL48E FL52E FL56E FL60E FL64E FL68E FL72E L48W L44W L40W L36W L32W L28W L24W L20W L16W L4E L8E L12E L16E L20E L24E L28E L32E L36E L40E L44E L48E L52E

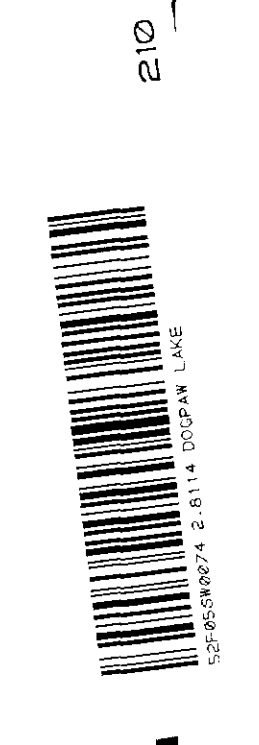


- LEGEND**
- BT THOLEIITIC BASALT
 - PT THOLEIITIC BASALT
 - MT HIGH MAGNESIUM BASALT
 - AC CALC-ALKALIC ANDESITE
 - BC CALC-ALKALIC BASALT
 - DC CALC-ALKALIC DACITE
 - AT THOLEIITIC ANDESITE
- GOLD ASSAYS IN FTB
ALL SAMPLE NUMBERS PRECEDED
BY 3270

David R. Bell Geological Services Inc.
MINING EXPLORATION INC.

WHOLE ROCK GEOCHEMISTRY

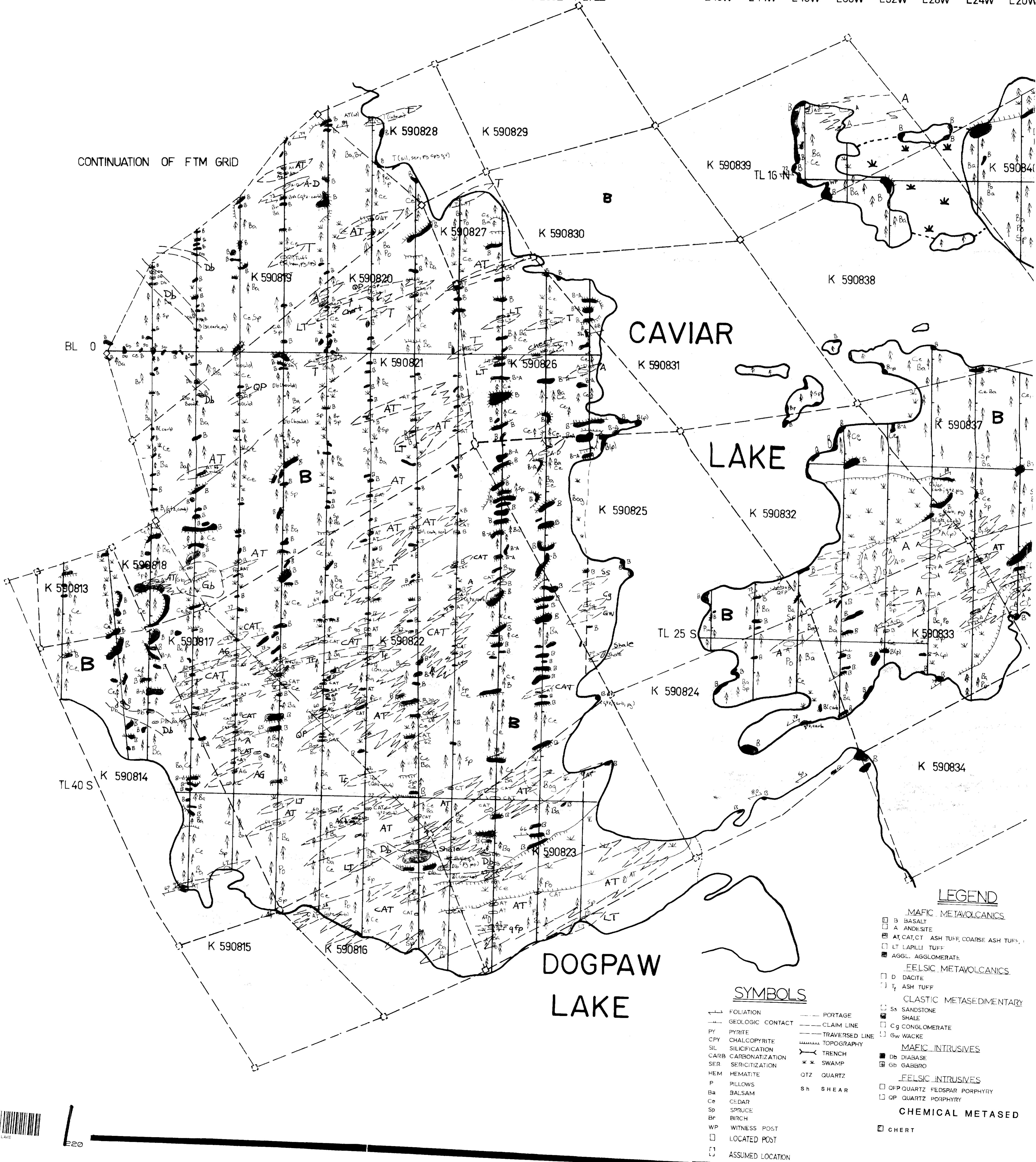
TWP/AREA: District: 4500 4500 PROVINCE: Ontario
MINING DIVISION: E-1075 PROJECT No. 1210
REFERENCES: N.T.S. No. 2417-5
DRAWN: [Blank] DRAFTED: [Blank] CHECKED: [Blank]
SCALE: 1:25,000 DATE: [Blank] SHEET No. 2417-5-31



FL24E FL28E FL32E FL36E FL40E FL44E FL48E FL52E FL56E FL60E FL64E FL68E FL72E

L48W L44W L40W L36W L32W L28W L24W L20W

CONTINUATION OF FTM GRID

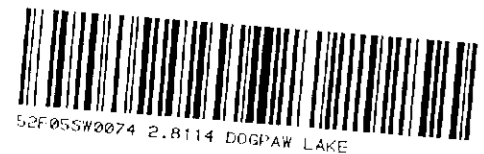


LEGEND

- MAFIC METAVOLCANICS**
- B BASALT
- A ANDESITE
- ▨ AT, CAT, CT ASH TUFF, COARSE ASH TUFF
- ▨ LT LAPILLI TUFF
- AGGL. AGGLOMERATE
- FELSIC METAVOLCANICS**
- D DACITE
- ▨ T ASH TUFF
- CLASTIC METASEDIMENTARY**
- ▨ Ss SANDSTONE
- ▨ Sh SHALE
- ▨ Cg CONGLOMERATE
- ▨ Gw WACKE
- MAFIC INTRUSIVES**
- Db DIABASE
- Gb GABBRO
- FELSIC INTRUSIVES**
- QP QUARTZ FELDSPAR PORPHYRY
- QP QUARTZ PORPHYRY
- CHEMICAL METASED**
- Ch CHERT

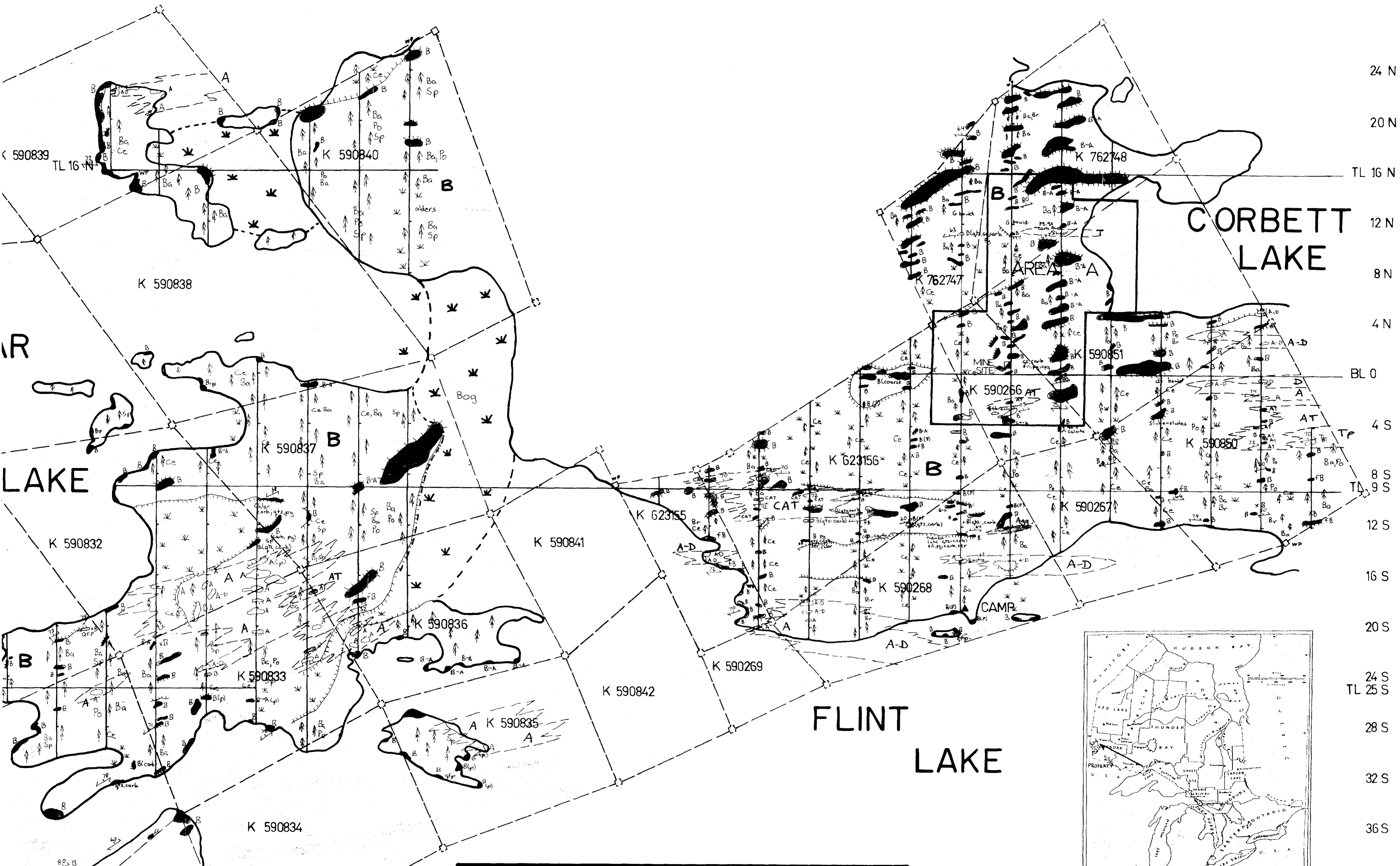
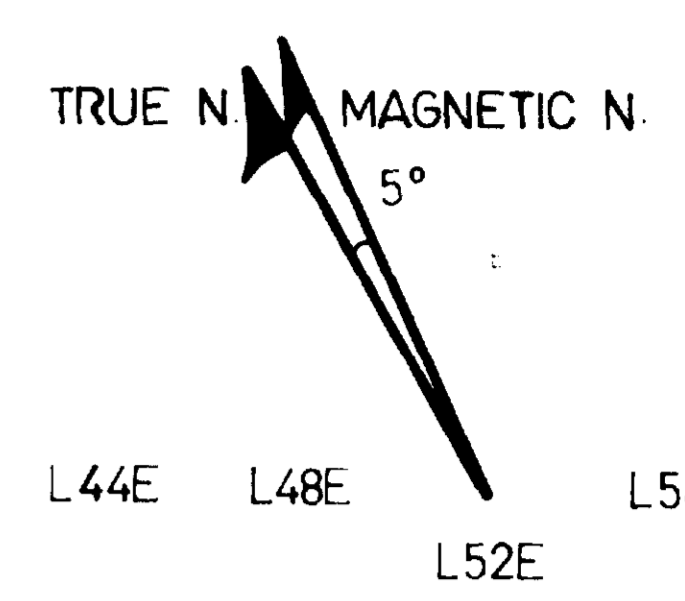
SYMBOLS

- FOLIATION
- GEOLOGIC CONTACT
- PYRITIC
- CPY CHALCOPYRITE
- SIL SILICIFICATION
- CARB CARBONATIZATION
- SER SERICITIZATION
- HEM HEMATITE
- P PILLOWS
- Ce CEDAR
- Sp SPRUCE
- Br BIRCH
- WP WITNESS POST
- Located Post
- Assumed Location
- PORTAGE
- CLAIM LINE
- TRAVERSED LINE
- TOPOGRAPHY
- TRENCH
- SWAMP
- QUARTZ
- SHEAR



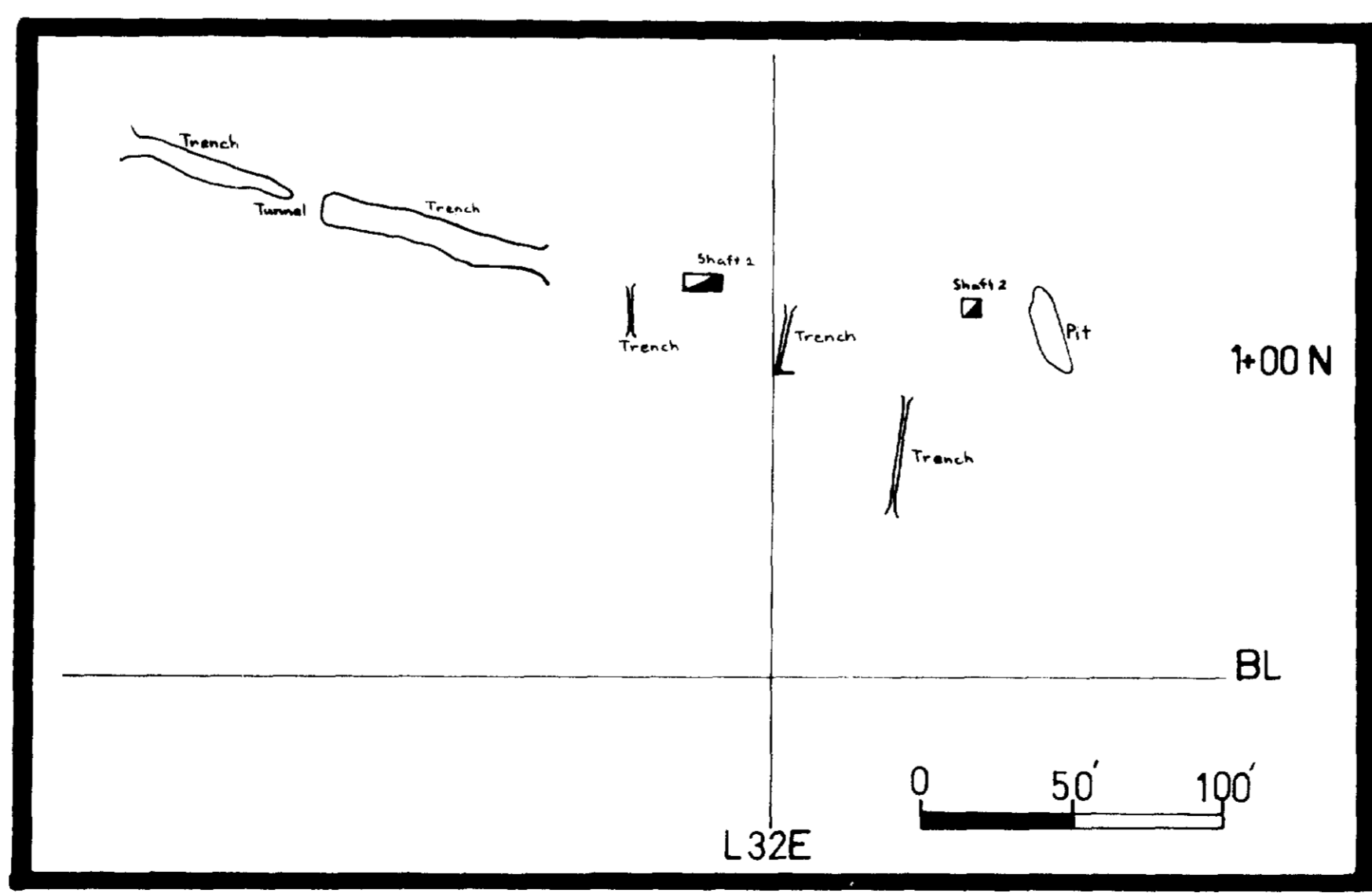
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L4E L8E L12E L16E L20E L24E L28E L32E L36E L40E L44E L48E L52E

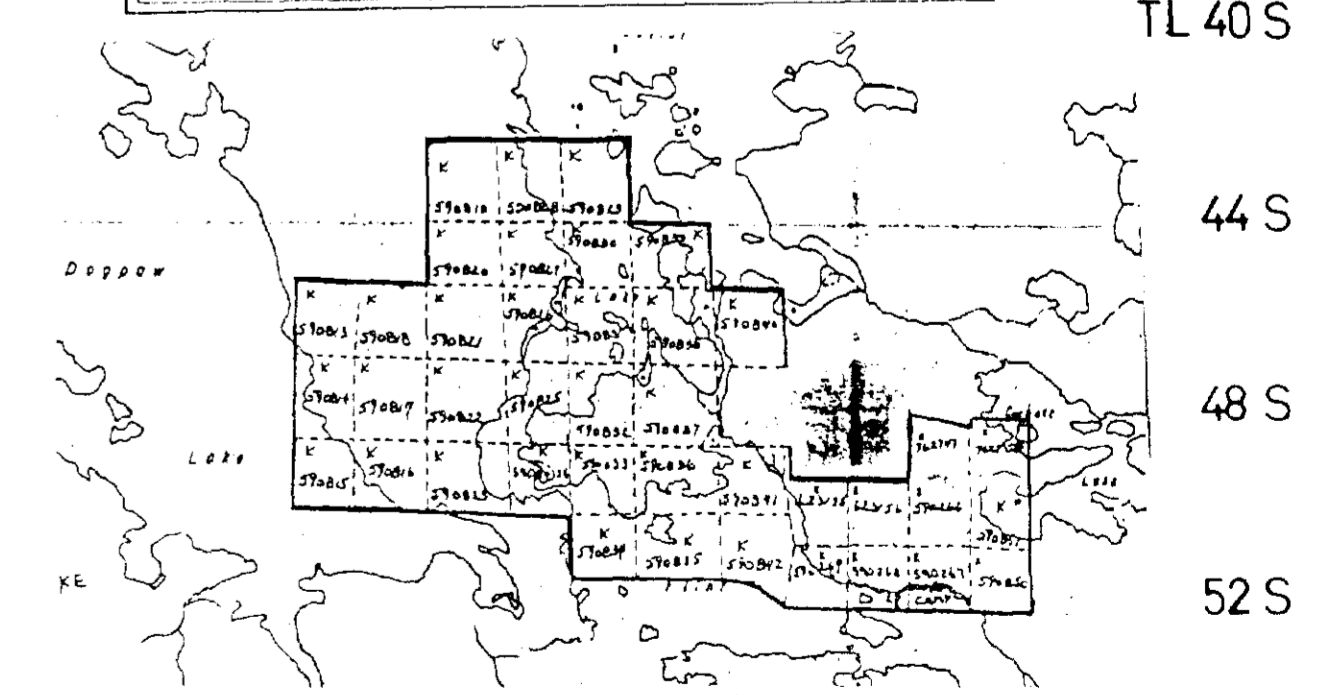


- SYMBOLS**
- FOLIATION
 - GEOLOGIC CONTACT
 - PYRITIC
 - CHALCOPYRITE
 - SILICIFICATION
 - CARBONIZATION
 - SERICITIZATION
 - HEMATITE
 - PILLOWS
 - BALSAM
 - CEDAR
 - SPRUCE
 - BIRCH
 - WP WITNESS POST
 - LOCATED POST
 - ASSUMED LOCATION
 - PORTAGE
 - CLAIM LINE
 - TRAVERSED LINE
 - TOPOGRAPHY
 - TRENCH
 - SWAMP
 - QUARTZ
 - SHEAR

- LEGEND**
- MAFIC METAVOLCANICS**
- B BASALT
 - A ANDESITE
 - AT, CAT, CT ASH TUFF, COARSE ASH TUFF, CRYSTAL TUFF
 - LT LAPILLI TUFF
 - AGGL. AGGLOMERATE
- FELSIC METAVOLCANICS**
- D DACITE
 - T ASH TUFF
- CLASTIC METASEDIMENTARY ROCKS**
- SS SANDSTONE
 - SH SHALE
 - Cg CONGLOMERATE
 - Gw WACKE
- MAFIC INTRUSIVES**
- Db DIABASE
 - Gb GABBRO
- FELSIC INTRUSIVES**
- QFP QUARTZ FELDSPAR PORPHYRY
 - QP QUARTZ PORPHYRY
- CHEMICAL METASEDIMENTS**
- CH CHERT



FLINT LAKE MINE SITE



David R. Bell Geological Services Inc.		
MICHAEL EXPLORATION INC.		
GEOLOGY		
TWP/AREA	Dogpaw Lake Area	PROVINCE Ontario
MINING DIVISION	Kenora	PROJECT No. 3210
REFERENCES		N.T.S. No. 52F/5
DRAWN	M. Simunovic	DRAFTED
SCALE	1"=400'-0"	DATE August 17/84
		CHECKED
		SHEET No. 3210-84-1