42A01SE0093 OP91.644 EBY

OPAP FINAL REPORT

EBY WEST & EBY EAST PROPERTIES
EBY TOWNSHIP
LARDER LAKE MINING DIVISION
ONTARIO

OPAP FILE# OP91-644

Nick Rigas, Geologist
Rouyn-Noranda, P.Q.

January 24, 1992

42A01SE0093 OP91.644 EBY

TABLE OF Contents

PAGE

SUMAMRY.....1

EBY WEST PROPERTY.....2

EBY EAST PROPERTY.....6

CONCLUSIONS AND RECOMMENDATIONS.....8

APPENDIX 1: "MAPS"
LOCATION MAP
CLAIM MAP
COMPILATION MAP (EBY WEST)
DETAILED SAMPLE LOCATION MAP (EBY WEST)
DETAILED ASSAY MAP (EBY WEST)
DETAILED PHOTO LOCATION MAP (EBY WEST)
SAMPLE LOCATION MAP (EBY EAST)
ASSAY MAP (EBY EAST)

APPENDIX 2: PHOTOGRAPHS (EBY WEST)

APPENDIX 3: ASSAY SHEETS

APPENDIX 4: EXPENDITURES

SUMMARY

From July 18 to November 12, a total of 33 days were spent prospecting on two properties in Eby township, Ontario. The two areas are known as the Eby West Property and the Eby East Property (Appendix 1: Location map, Claim map). Total expenditures of $11,563.28 were incurred on the properties (Appendix 4: Expenditures).

A shear zone measuring approximately 50m wide and open in all directions was discovered and mapped in detail on the Eby West ground and is located in the south central part of the claim group. This property, consisting of eight 16 Ha. units totalling 128 Ha. was staked by the author. Several quartz veins and alteration zones were discovered but only low grade gold values were obtained, the best value being 298 ppb's. On this same proeprty, a diamond drill hole once intersected up to 0.10 oz/t gold across a width of up to 1.0 ft. Unfortunately, no gold values this high were obtained. It is in my opinion that other shear zones may be located in the area and subsequently other quartz veins containing mineralization and possibly higher gold values. An electromagnetic VLF survey should be carried out over the property in order to delineate the shear zone. A grid should also be cut in order to run the survey. If the results are positive, then a small wildcat diamond drilling program should be undertaken.

On the Eby East Property, a total of seven days were spent mapping the property on a reconnaissance level. Some intensely silicified cherty rocks were found on a road cut. These rocks contain appreciable amounts of sulphide mineralization (pyrite). Only very low grade gold values were returned, the best being 19 ppb's. All of the rocks seen on the property were intermediate to mafic volcanics, gabbros and cherty zones. In my opinion, this area does not warrant any further work because of the low values obtained and the lack of any widespread alteration.

The following pages describe the work carried out on each of the properties. The appendices include maps, photographs, certificates of analyses and exploration expenditures. Along with two copies of this report are two copies of the final submission form.

EBY WEST PROPERTY

The area that has been prospected, mapped and stripped of overburden in certain places lies in Eby township, Ontario (Location map), approximately eight miles southwest from Kirkland Lake. The area is situated in the Larder Lake mining division. The Eby West property was staked by myself on July 24, 1991 and is comprised of one group claim #1185454, eight 16 Ha. units totalling 128 Ha. and is located in mining concession III, lots 8 & 9, N½.

A total of 26 days were spent on the property of which 8 days were spent on reconnaissance mapping over the entire grid, and 18 days of overburden stripping, detailed mapping and sampling. A total of 13.6 km of lines were traversed using the pace and compass method. A base map at a scale of 1:20,000 was used to plot the geological outcrops. A map at a scale of 1:200 was used in an area located near the southern boundary of the property and located between lines 0 and 1E. All of the maps are included in this report (Appendix 1: Maps). Photographs were taken at all of the key areas which displayed either quartz veining or alteration zones (Appendix 2: Photographs). A total of 37 samples were taken and assayed for gold using the standard fire asssay method (Sample #'s 25551-25587, Cert.#'s IR-2002-RG1, IR-2002-RG2 & IR-2032-RA1, Appendix 3)

Most of the rocks on the property are characterized of intermediate to mafic volcanics. Diabase dykes are found in locallized areas, namely in the detail map area. The best gold value found on the property from this program yielded 298 ppb's (sample #25551) which was taken from a narrow quartz tension vein in the detailed area. It is located within a 50m wide shear zone trending in a northwesterly direction. The shear zone is characterized by chloritic schists, tension fractures healed with mainly quartz, epidote and pyrite and by an abundance of diabase dykes. Some of the quartz veins are heavily mineralized with pyrite within a moderately to highly fractured gray quartz, with or without epidote.Although the gold values were very low, the structural and alteration package present is quite interesting. One of the quartz veins could be followed for about 80m along strike within several outcrops.A brief description of the samples will follow:

SAMPLE DESCRIPTIONS

SAMPLE #	GOLD (ppb)	DESCRIPTION
25551	298	Narrow Quartz vein (2-3 cm wide), milky-white quartz with 1% disseminated pyrite. Sample contains 40% quartz vein material (QVM) and 60% andesite.
25552	170	As above.
25553	161	90% QVM, 10% andestie. 2-3% disseminated (diss.) py in the volcanics and 1-3% diss. py in the QVM. Milky white quartz (Q) with 3-5% chlorite, vuggy. 1.0m wide.
25554	17	As above, but contains 5-7% K-feldspars.
25555	10	40 cm wide QV (100% QVM), no mineralization. Milky white Q.
25556	26	Located on L1E/7+25S. 90-95% QVM, 5-10% andesite, QVM is light to moerate gray and contains 3-7% diss. py (ave. 5%). Vein measures 60cm to 80cm wide.
25557	11	As above.
25558	12	As above.
25559	11	As above.
25560	9	Slightly altered (sericitized) andesite, containing subordinate diss. py.
25561	18	100% QVM, mineralized with 2-5% diss. py, also contains 10-12% K-feldspars and 3-5% epidote crystals, the vein measures 60cm to 80cm wide, is a moderate gray color and is moderately fractured.
25562	45	As above.
25563	17	80% mafic volcanic / 20% QVM. QV is 1cm to 2cm wide and is not mineralized. Mafic material is not altered and contains 2-5% diss. py.
25564	46	100% QVM, 10cm to 20cm wide vein, containing subordinate py.
25565	27	Sheared andesite, slightly altered (sericitized and chloritized), 2-3% very fine grained diss. py.

SAMPLE #	GOLD (ppb)	DESCRIPTION
25566	24	95% QVM / 5% sheared andesite. QVM contains 10-12% epidote needles, no mineralization. Vein measures about 1.0m wide.
25567	16	70% QVM / 30% amphibolitized volcanics. 1-2% diss. py throughout. Vein measures about 10cm-15cm wide.
25568	10	100% QVM, 1-3% py, moderately fractured, contains 5% chloritic material, vein measures about 1.0m wide.
25569	5	As above.
25570	5	100% QVM, 10-15% py, highly fractured, medium gray Q with up to 20-25% epidote as individual euhedral crystals and aphanitic bands. Vein measures between 60cm-80cm wide.
25571	9	As above.
25572	7	As above.
25573	57	100% QVM, 1-2% diss. py, moderately fractured, vein measures 1.2m-1.5m wide.
25574	7	100% QVM, highly stained Q from the abundance of sulphide mineralization, massive band of py measuring 3cm-5cm wide, py also occurs as diss. grains with up to 5-10% throughout, vein in highly fractured, looks very good and measures 1.0m-1.2m wide.
25575	7	Intensely silicified andesite, light green in color. Contains 5-7% diss. py. Moderately fractured and contains 3-5% feldspar porphyroblasts.
25576	7	Same as sample# 25574.
25577	19	Same as sample# 25575.
25578	20	Same as sample# 25575.
25579	14	Same as sample# 25575.
25580	129	Same as sample# 25575 except this sample contains a QV (2cm-3cm wide) carrying up to 5% diss. py.
25581	65	Same as above.

SAMPLE #	GOLD (ppb)	DESCRIPTION
25582	90	Same as sample# 25575.
25583	28	Same as sample# 25575.
25584	5	Same as sample# 25574.
25585	48	100% QVM, contains only subordinate py, milky white Q, 3-5% feldspars, vein measures 1.0m-2.0m wide.
25586	27	Same as above.
25587	7	100% QVM, highly fractured Q and dark gray in color, 2-5% diss. py, 5-7% chorite bands, 5-7% feldspar crystals. Vein measures 10cm-20cm wide.

EBY EAST PROPERTY

The area that has been prospected and mapped on a reconnaissance level is located in Eby Township, Ontario (Appendix 1: Location map & Claim map), approximately three miles southwest from the nearby town of Swastika. The area is situated in the Larder Lake mining division. This area has been left open for staking based on the results of this program.

A total of eight days were spent on the property prospecting for gold and base metals. A base map at a scale of 1:20,000 was used to plot the geological outcrops. No grid was established, however I traversed along the power line, mapped all of the outcrops along the highway and prospected with the pace and compass method in selected target areas. The input anomaly which is located in the northeastern part of the property was looked at. The anomaly could not be explained on surface. Only intermediate volcanics were present in this locality and the rocks contained only subordinate amounts of pyrite with very little carbonate.

Most of the rocks mapped are intermediate volcanics, however, some gabbroic rocks are found alongside the highway and are marked on the map (Appendix 1: Sample Location Map, Assay Map) as LA-1 and LA-2. Only reference samples were taken here and were not sent in for analyses. The gabbros are medium to coarse grained, are slightly gossaned on the surface but contain very little sulphide mineralization. Four samples were selected for assay, although the best result was 19 ppb's gold. The results are rather discouraging. These samples were taken from a cherty horizon which has been injected with several narrow quartz stringers and contains an appreciable amount of pyrite. These individual cherty units measure approximately 2.0 to 3.0 metres in width right beside the highway. A brief description of the samples will follow:

SAMPLE DESCRIPTIONS

SAMPLE #	Au (ppb)	DESCRIPTION
25588	19	Chert, 5-7% Py, slightly altered (epidotized), slightly fractured.
25589	5	As above.
25590	5	As above but 7-10% Py.
25591	19	As above.

COLCLUSIONS AND RECOMMENDATIONS

The Eby West property shows some potential in finding other shear zones which may contain gold. The shear zone found in this program is of considerable width. Although the gold values obtained are quite low, there are some anomalous values in some of the quartz veins and also anomalous values in the altered volcanics. I recommend further work to be conducted over the entire grid consisting of line-cutting, electromagnetic very low frequency survey and a small diamond drilling program.

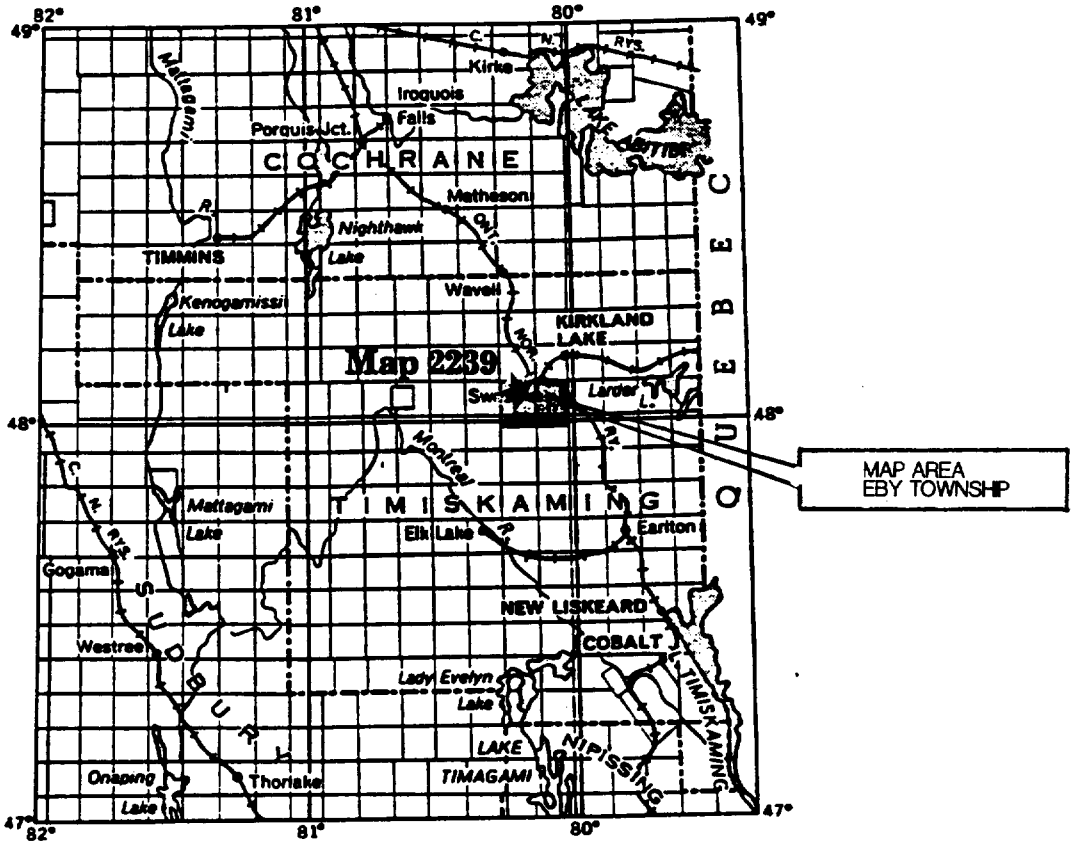
The Eby East Property has returned rather unfavorable results and hence does not warrant any further work to be conducted.



Nick Rigas
Geologist

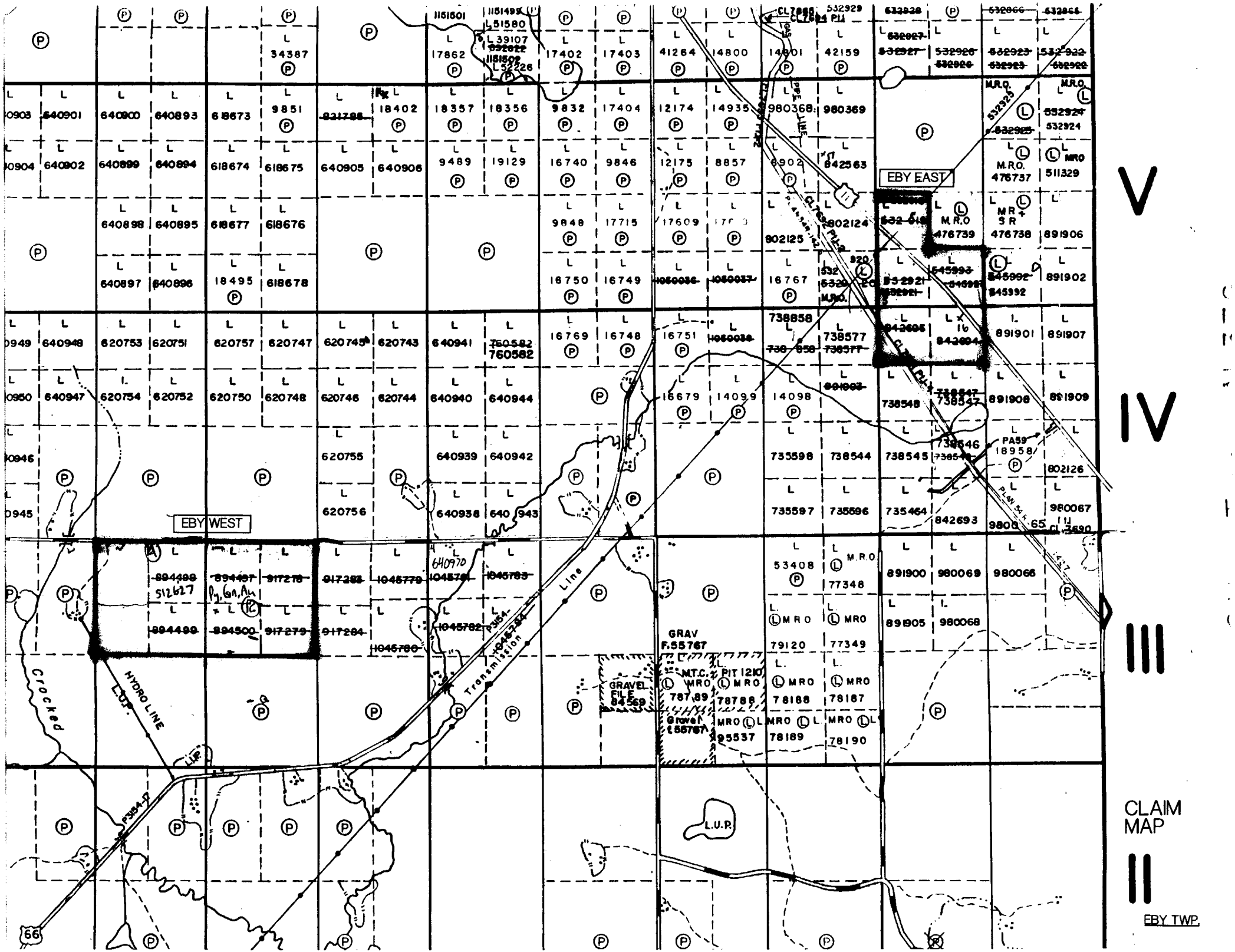
APPENDIX 1

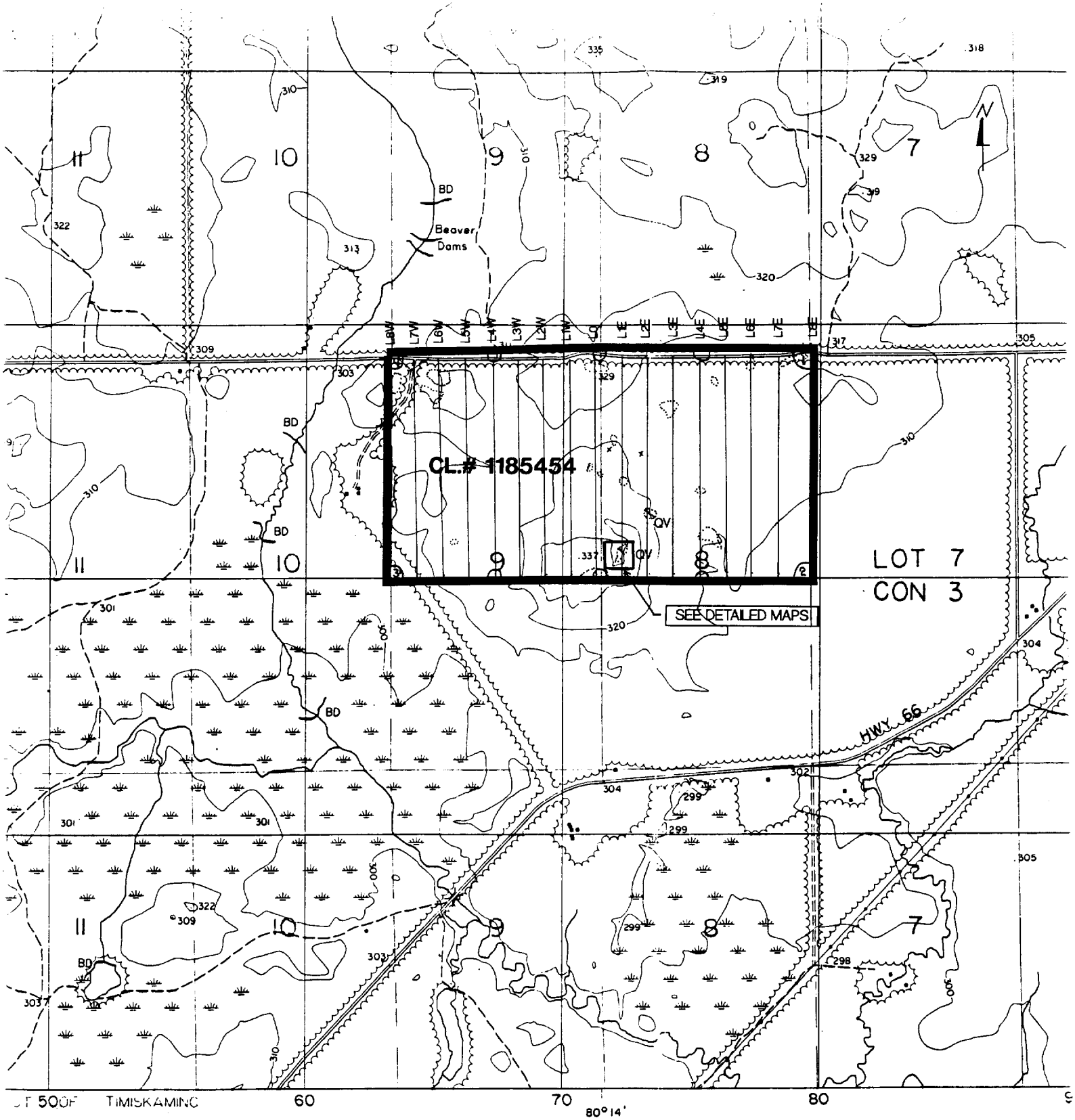
MAPS



SCALE 1"-33.3 Miles

LOCATION MAP


EBY EAST
EBY WEST
V
IV
III
II
CLAIM MAP
EBY TWP.
Crooked
HYDRO LINE
L.U.P.
Transmission Line
GRAVEL PIT
GRAV F.55767
PIPE LINE
P.S.64
P.S.64-17
66



cale 1:20 000

1000 2000 Metres

000 5000 6000 7000 8000 9000 10000 Feet

r Interval 10 Metres

ITAL MAPPING

EBY WEST PROPERTY

GEOLOGICAL COMPILATION MAP

EBY TOWNSHIP

NOTES

North American Datum 1927.

Universal Transverse Mercator (6°) projec

Zone 17. Central Meridian 81° W.

Grid interval 1000 metres.

The 1987 magnetic bearing approximatel of grid north. Annual change increasing 1C

Legend and explanatory notes obtainable Public Information Centre Ministry of Natu Resources, Queen's Park, Toronto.



LEGEND

- EXPOSED BY STRIPPING
- QUARTZ VEIN
- GRAB / CHANNEL SAMPLE
- 52 SAMPLE NUMBER

EBY WEST PROPERTY

SAMPLE LOCATION MAP

STRIPPED AREA

SCALE 1:200

NOVEMBER, 1991

N

18
45
5
9
7

26
11
12
11
9

28

90
65
129
20
14
7
19
7
7
5

46
27
24
10
5
161
17
16
17
10
57

7

298
170

48

27

LEGEND

- EXPOSED BY STRIPPING
- QUARTZ VEIN
- GRAB / CHANNEL SAMPLE
- 45 GOLD VALUE IN PPB

EBY WEST PROPERTY

ASSAY MAP

STRIPPED AREA

SCALE 1:200

NOVEMBER, 1991

N

LEGEND

- EXPOSED BY STRIPPING
- QUARTZ VEIN
- x I GRAB / CHANNEL SAMPLE
- (1) PHOTOGRAPH NUMBER
- DIRECTION TAKEN

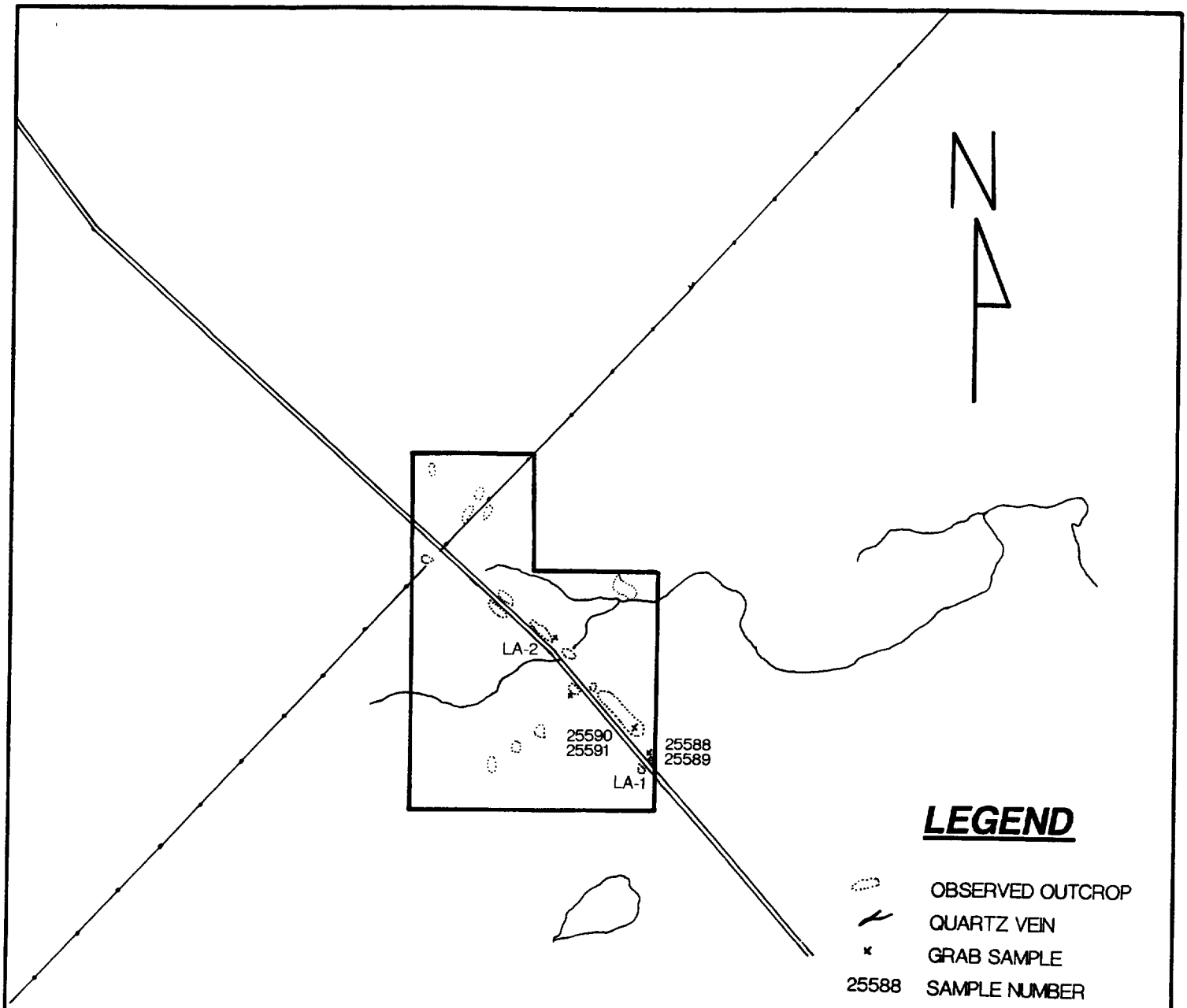
EBY WEST PROPERTY

PHOTO LOCATION MAP

STRIPPED AREA

SCALE 1:200

NOVEMBER, 1991

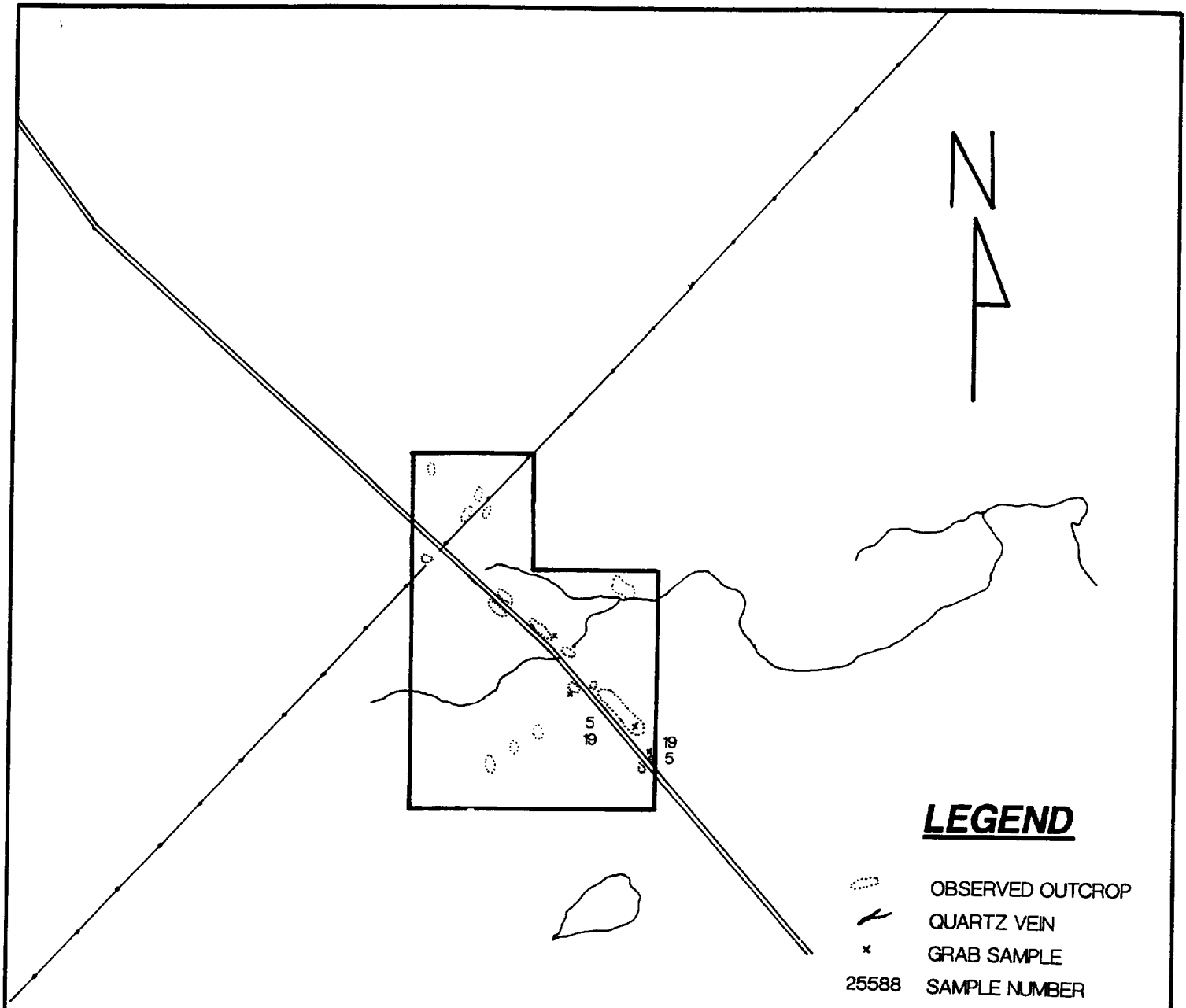


EBY EAST PROPERTY

SAMPLE LOCATION MAP

SCALE 1:20,000

JANUARY, 1992



EBY EAST PROPERTY

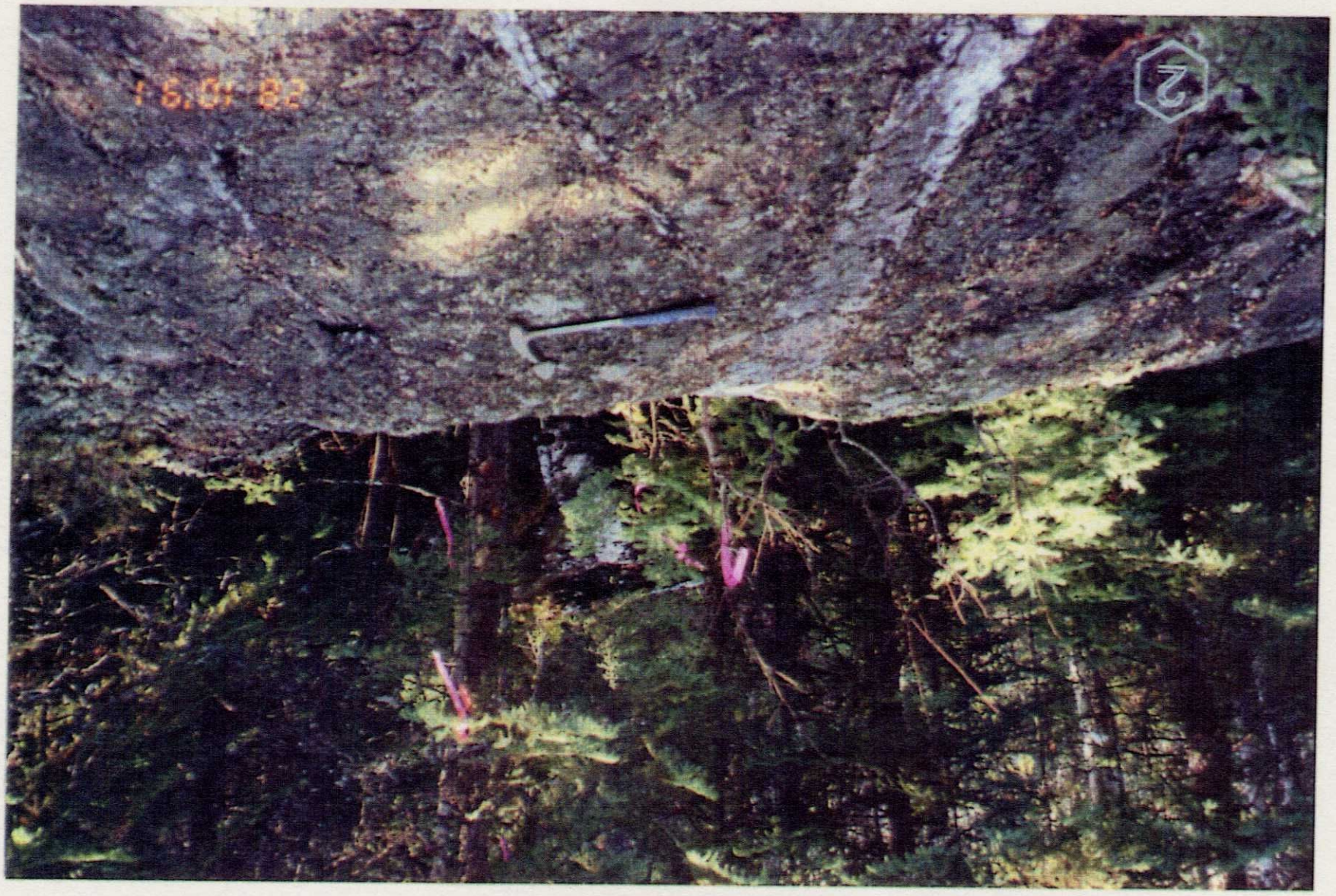
ASSAY MAP

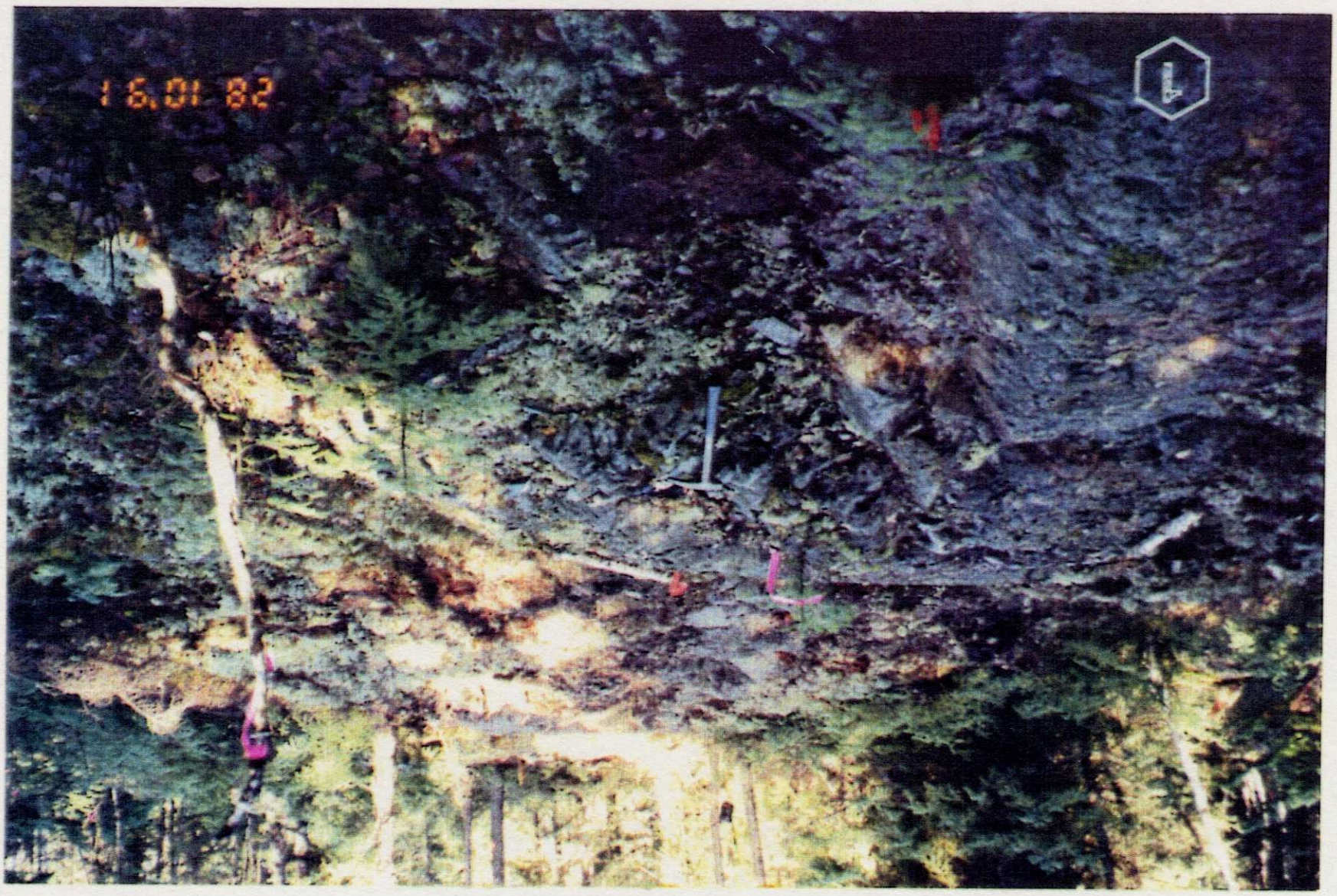
SCALE 1:20,000

JANUARY, 1992

APPENDIX 2

PHOTOGRAPHS


16.01 82
2


16.01 82
1


3


4


5


6


7
28 10 '91


8


9
28 10'9 1


10
28 10'9 1


11
28 10 '9 1

APPENDIX 3

ASSAY SHEETS

ASSAYERS
LABORATOIRES/LABORATORIES
DIVISION DE/OF ASSAYERS CORPORATION LTD.
780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

Certificat/Certificate

1R-2002-RG1

Comp: **NICK RIGAS**
Proj: EBY-91
Attn:

Date: OCT-30-91

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: OCT-27-91

No. D'Echantillon / Sample Number	AU PPB	AU CHKS. PPB	AU CHKS. PPB
25551	298	290	305
25552	170	180	159
25553	161	168	154
25554	17		
25555	10		
25556	26		
25557	11		
25558	12		
25559	11		
25560	9		
25561	18		
25562	45		
25563	17		
25564	46		
25565	27	30	24
25566	24		
25567	16		
25568	10		
25569	<5		
25570	5		
25571	9		
25572	7		

Certifie par/Certified by CH

J. J. LANDERS GERANT/MANAGER

"AU SERVICE DE L'INDUSTRIE DEPUIS PLUS DE 50 ANS"
"SERVING INDUSTRY FOR OVER 50 YEARS"

CTA

ASSAYERS
LABORATOIRES/LABORATORIES
DIVISION DE/OF ASSAYERS CORPORATION LTD.
780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

Certificat/Certificate

1R-2002-RG2

Comp: **NICK RIGAS**
Proj: EBY-91
Attn: NICK RIGAS

Date: OCT-29-91

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: OCT-27-91

No. D'Echantillon Sample Number	AU PPB	AU CHKS. PPB	AU CHKS. PPB
25573	57		
25574	7		
25575	7	7	7
25576	7		
25577	19		

Certifie par/Certified by GH

J. J. LANDERS GERANT/MANAGER

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Certificat/Certificate

1R-2032-RA1

Comp: **NICK RIGAS**
Proj: EBY-91
Attn:

Date: NOV-04-91

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: OCT-29-91

No. D'Echantillon Sample Number	AU PPB	AU CKS PPB	AU CKS PPB
25578	20		
25579	14	13	14
25580	129	104	154
25581	65		
25582	90		
25583	28	23	32
25584	5	5	5
25585	48		
25586	27		
25587	7	6	8

Certifie par/Certified by GH

pour J. J. LANDERS GERANT/MANAGER

ASSAYERS
LABORATOIRES/LABORATORIES
DIVISION DE/OF ASSAYERS CORPORATION LTD.
780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

Certificat/Certificate

2R-0116-RG1

Comp: **NICK RIGAS**
Proj: **EBY EAST**
Attn:

Date: JANV/JAN-22-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: JANV/JAN-21-92

No. D'Echantillon Sample Number	AU PPB
25588	19
25589	5
25590	5
25591	19

Certifie par/Certified by

J. J. LANDERS GERANT/MANAGER

"AU SERVICE DE L'INDUSTRIE DEPUIS PLUS DE 50 ANS"
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APPENDIX 4

EXPENDITURES

EXPLORATION EXPENDITURES

- Prospecting, mapping & stripping, 26 days @ $100/day 1 geologist (Eby West)	$ 2,600.00
- Geological assisstant, 26 days @ $85/day (Eby West)	$ 2,210.00
- Prospecting & reconnaissance mapping, 7 days @ $100/day, 1 geologist (Eby East)	$ 700.00
- Geological assisstant, 7 days @ $85/day (Eby East)	$ 595.00
- Transportation, 5,980 km @ $0.30/km (Eby West)	$ 1,794.00
- Transportation, 1,575 km @ $0.30/km (Eby East)	$ 472.50
- Samples, 37 @ $12.57/sample (Eby West)	$ 465.18
- Samples, 4 @ $12.57/sample (Eby East)	$ 50.29
- Meals, 26 days @ $50/day, for 2 people (Eby West)	$ 1,300.00
- Meals, 7 days @ $50/day, for 2 people (Eby East)	$ 350.00
- Line-cutting, 800m @ $200/km (Eby West)	$ 160.00
- Equipment, supplies, maps & photocopies	$ 266.31
- Final Report, 6 days @ $100/day	$ 600.00
TOTAL	**$11,563.28**

42A01SE0093 OP91.644 EBY

OPAP PROSPECTING PROPOSAL
EBY TOWNSHIP AREA
LARDER LAKE MINING DIVISION
ONTARIO

By: Nick Rigas
Geologist

INTRODUCTION

The proposed areas to be prospected lie in Eby township, Ontario (Figure 1), approximately 8 miles southwest from Kirkland Lake. The area is situated in the Larder Lake Mining Division. A total of two areas are proposed, one is called the west group and is comprised of eight claims totalling 128 hectares, the other being the east group, comprised of five claims totalling 80 hectares. The west group is located in concession III, lots 8 & 9, north half, and the east group is located in concession IV, lot 2, north half, and concession V, lot 2, south half (Figure 2).

These two areas were selected based upon the local and regional structures in the area and it's economic potential for gold and base metals, the geology and the showings of which can be seen in figure 3. The legend of this map can be seen in figure 4. A more comprehensive and detailed map of the two proposed areas can be seen in figure 5 (East group) and in figure 4 (West group).

Both of the properties are characterized by high magnetic structures. The east group seems to be located on an east-west trending anomaly which may be in part an iron formation (Figure 7). Several showings are located within this geological unit. A four channel input anomaly is located in the northeast corner of the proposed area.

The west group is also located on a high magnetic structure trending east-west (Figure 8). This is apparently caused by an intermediate tuff, possibly a bedrock contact. An input map of the area shows both of the properties (Figure 9).

One of the two earliest gold discoveries in the Kirkland Lake - Larder Lake area, both in 1906, was located on the north shore of Otto Lake, the next township over to the east. This discovery became the Swastika Mine which produced gold and silver. The other metallic mineral production recorded for the area is a small amount of gold and silver from Baldwin Consolidated Mines Ltd. Very high values of platinum are also reported in Otto township, near the Eby township boundary line.

WEST GROUP

Preston Mines Ltd. conducted a limited exploration program over part of this area in concession III, lot 8, N½ in 1949 and 1950 (Figure 3, showing #12). The work consisted of geological mapping and drilling three short holes totalling 588 feet. These holes tested a shear zone containing minor quartz and concentrated pyrite with gold values across a two foot width over a twenty-five foot length. Gold values of up to 0.01 to 0.10 ounces per ton across widths of ½ foot to 1.0 foot were reported. The drilling intersected syenite, mafic volcanic rocks, quartz stringers, intermediate volcanic rocks (Andesite), porphyry dykes and agglomerates. One of the drill holes which contained these higher values intersected numerous veins from 115 feet to 187 feet. Some of these intervals contained some epidote. The quartz veins have been mapped on surface and are trending near east west. They are cut by north-south trending diabase dykes. A lot of outcrops are located here. It is my intention to thoroughly map the area and take several samples, especially where quartz veins can be found and within alteration zones. A few areas will also be selected for stripping of outcrops.

EAST GROUP

Two showings can be found in this proposed area (Figure 3, showing #'s 5 & 16). Showing #5 was discovered by Morris Fishkin in 1965. A hole was drilled (concession V, lot 2, S½, SW¼) to a depth of 121 feet, bearing north and dipping at 60 degrees. The hole intersected intermediate to mafic volcanics containing quartz, epidote, pyrite, sphalerite and chalcopyrite. No assays were reported.

Showing #16 (Figure 3) located in concession IV, lot 2, N½, NE¼, was worked by Sylvanite Gold Mines LTd. in 1945. The company conducted a geological mapping program and diamond drilling program in this area and other areas as well.

About 5 to 6 miles to the northeast is a property that was worked by Todora Kirkland Prospecting Syndicate in 1948 (Figure 3, showing #18). Copper values as high as 13.39% are reported from a prospect pit.

Platinum values are reported from a property located in concession IV, lot 12, southern half, with reported assays of $100/ton. It is hosted within interbedded tuffs and agglomerates, carbonate rocks and iron formation. This property is located only about 5 to 6 miles to the northeast of the proposed area.

It is my intention to prospect and map the proposed area and take several samples for gold and base metals. Some of the samples will also be sent in for PGE's.

CONCLUSIONS AND RECOMMENDATIONS

A total of $12,871 is proposed for this program, $10,000 of which is being applied for. The balance of $2,871 will be supplied by myself and is proposed in order to complete the program. Thirty-five days are needed to prospect, map and sample both areas. We will use the town of Kirkland Lake as our base and travel back and forth to the property. The work is to begin following break-up, and I intend to stake both claim groups. If a discovery is made which shows good economic potential, then I will aggresively try to option the property to a private or public company. The following budget is recommended:

RECOMMENDED BUDGET

PROSPECTING AND MAPPING, 35 DAYS, 1 GEOLOGIST ($100/DAY)	$ 3,500
ASSISTANT, 35 DAYS ($85/DAY)	$ 2,975
TRANSPORTATION, 1320 km ($0.30/km)	$ 396
SAMPLES	$ 1,000
FOOD AND ACCOMMADATIONS, 35 DAYS ($120/DAY)	$ 4,200
EQUIPMENT, SUPPLIES, MAPS, PHOTOCOPIES	$ 200
REPORT, 6 DAYS ($100/DAY)	$ 600
	$12,871



Nick Rigas
Geologist

REFERENCES

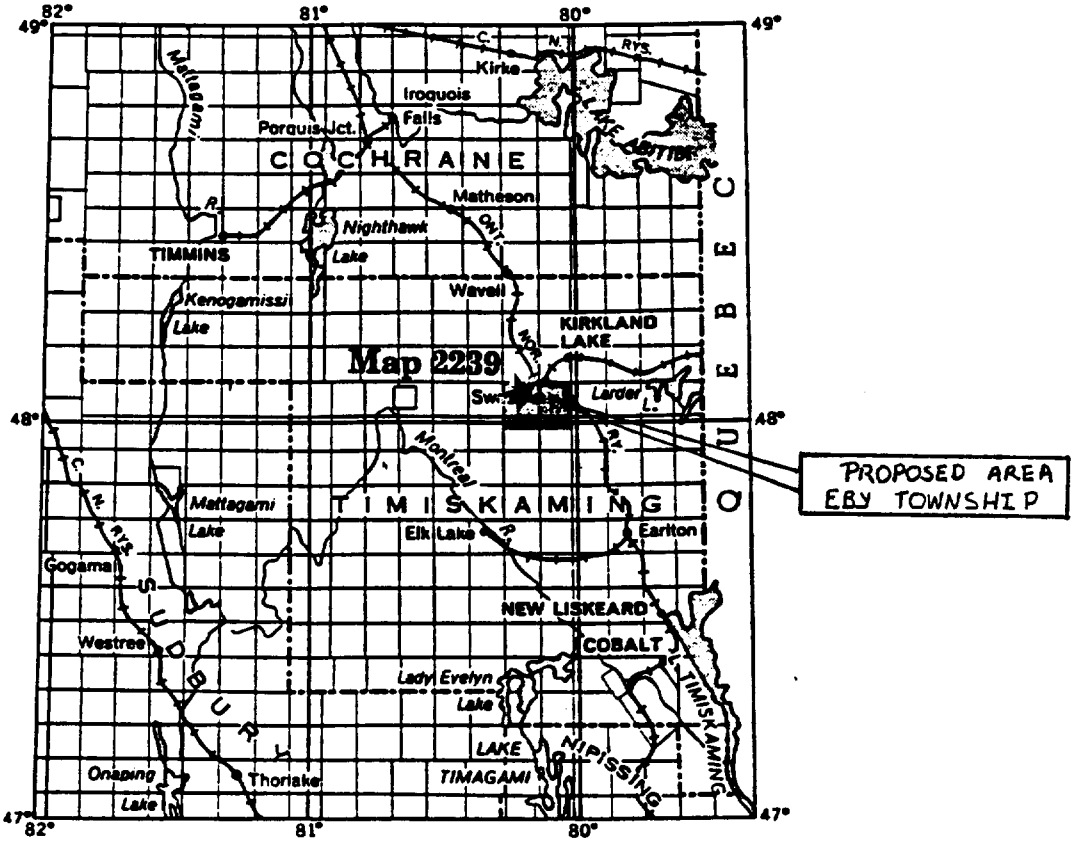
KL-2303 Preston East Dome Mines Ltd.

KL-2227 Preston Mines LTd., 1949, 1950

Report #99 Geological Report of the Eby and Otto Area, District fo Timiskaming, H.L. Lovell, 1972.

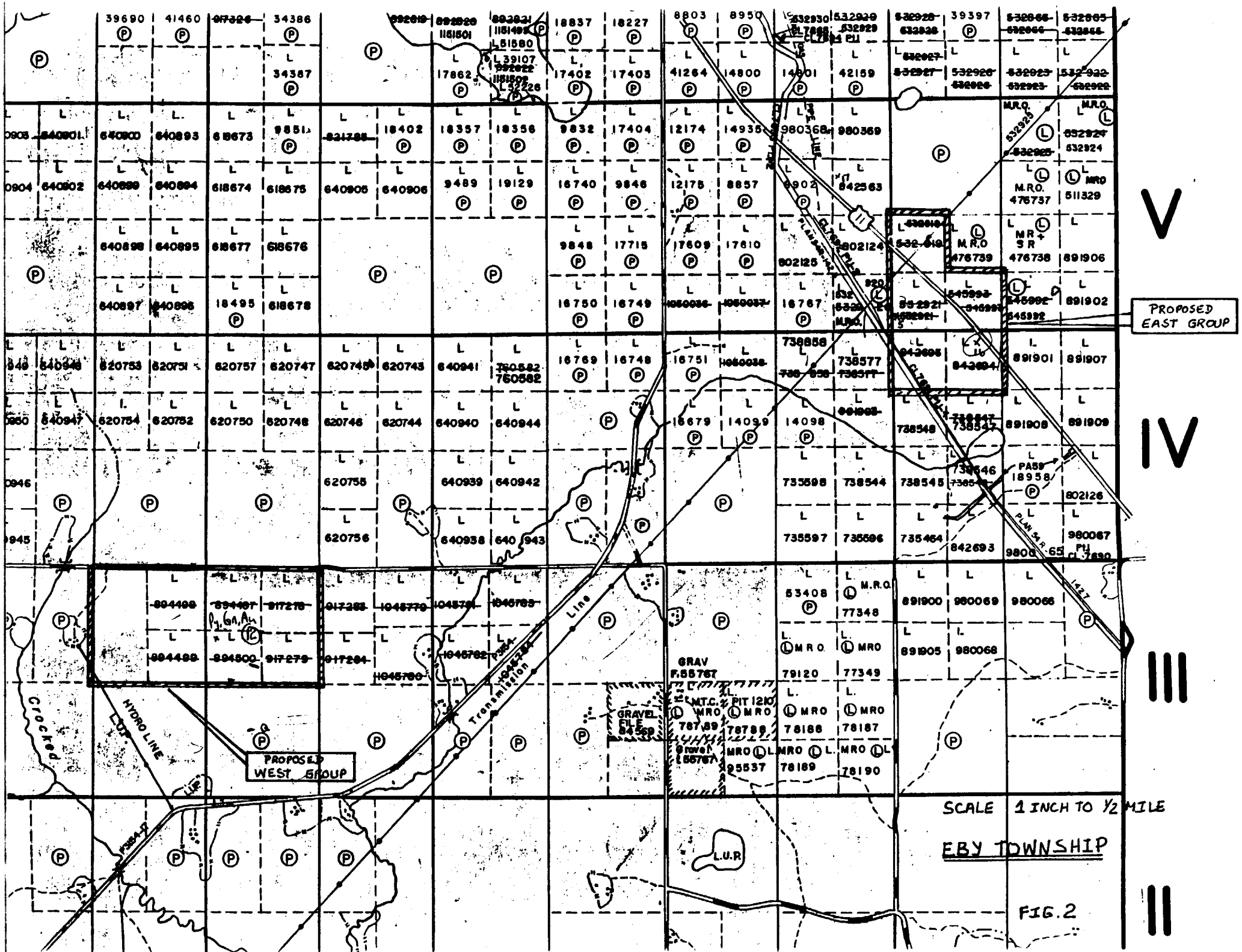
P-2268 Preliminary Map, Kirkland Area, Eby Township, Airborne Electromagnetic Survey, Total Intensity Magnetic Survey.

FIGURES



SCALE 1 INCH TO 33.3 MILES

FIG. 1


PROPOSED EAST GROUP
PROPOSED WEST GROUP
Crooked
HYDRO LINE
Transmission Line
GRAVEL PIT
GRAV
L.U.R
PASS
V
IV
III
II
SCALE 1 INCH TO ½ MILE
EBY TOWNSHIP
FIG. 2

HONOURABLE LEO BERNIER, *Minister*
D. P. Douglass, *Deputy Minister* — J. E. Thomson, *Director, Geological*

Adjoins Map 2060

GRENFELL TOWNSHIP

KENOGAMI LAKE

KENOGAMI LAKE

EBY

BURT TOWNSHIP

Adjoins Map 2078

PROPOSED EAST GROUP

PROPOSED WEST GROUP

MAP 2239

SCALE 1 INCH TO ½ MILE

FIG. 3

LEGEND

CENOZOIC[a]

PLEISTOCENE AND RECENT

Silt, clay, sand, gravel.

UNCONFORMITY

PRECAMBRIAN[b]

PROTEROZOIC

LATE MAFIC INTRUSIVE ROCKS (NIPISSING OR KEWEENAWAN)

9 *Diabase.*

INTRUSIVE CONTACT

HURONIAN

COBALT GROUP

GOWGANDA FORMATION

8a *Conglomerate.*
8b *Arkose, greywacke, argillite.*

UNCONFORMITY

ALKALIC INTRUSIVE ROCKS

7a *Coarse-grained syenite, syenite porphyry, pegmatite.*
7b *Mafic syenite, syenite contaminated by country rocks.*
7c *Medium-grained syenite, aplite dikes.*
7d *Syenite with numerous xenoliths and autoliths.*
7e *Lamprophyre.*
7f *Quartz syenite, granite.*
7g *Diorite.*

INTRUSIVE CONTACT

ARCHEAN

MAFIC INTRUSIVE ROCKS (MATACHEWAN OR NIPISSING)

6 *Diabase.*

INTRUSIVE CONTACT

FELSIC INTRUSIVE ROCKS (ALGOMAN)

5a *Granite, porphyritic granite, granodiorite.*
5b *Granodioritic gneiss.*
5c *Syenite and trachyte.*
5d *Mafic syenite and mafic trachyte.*

INTRUSIVE CONTACT

EARLY MAFIC AND ULTRAMAFIC ROCKS (HAILEYBURIAN, EARLY ALGOMAN, AND KEEWATIN)

4a *Serpentinite, peridotite.*
4b *Gabbro, diorite.*

INTRUSIVE CONTACT

METASEDIMENTS (TIMISKAMING AND KEEWATIN)

3a *Conglomerate.*
3b *Quartzite, greywacke.*
3c *Tuff, agglomerate, minor amounts of trachyte agglomerate, breccia.*

UNCONFORMITY AND INTERBEDDING

FELSIC METAVOLCANICS (KEEWATIN)

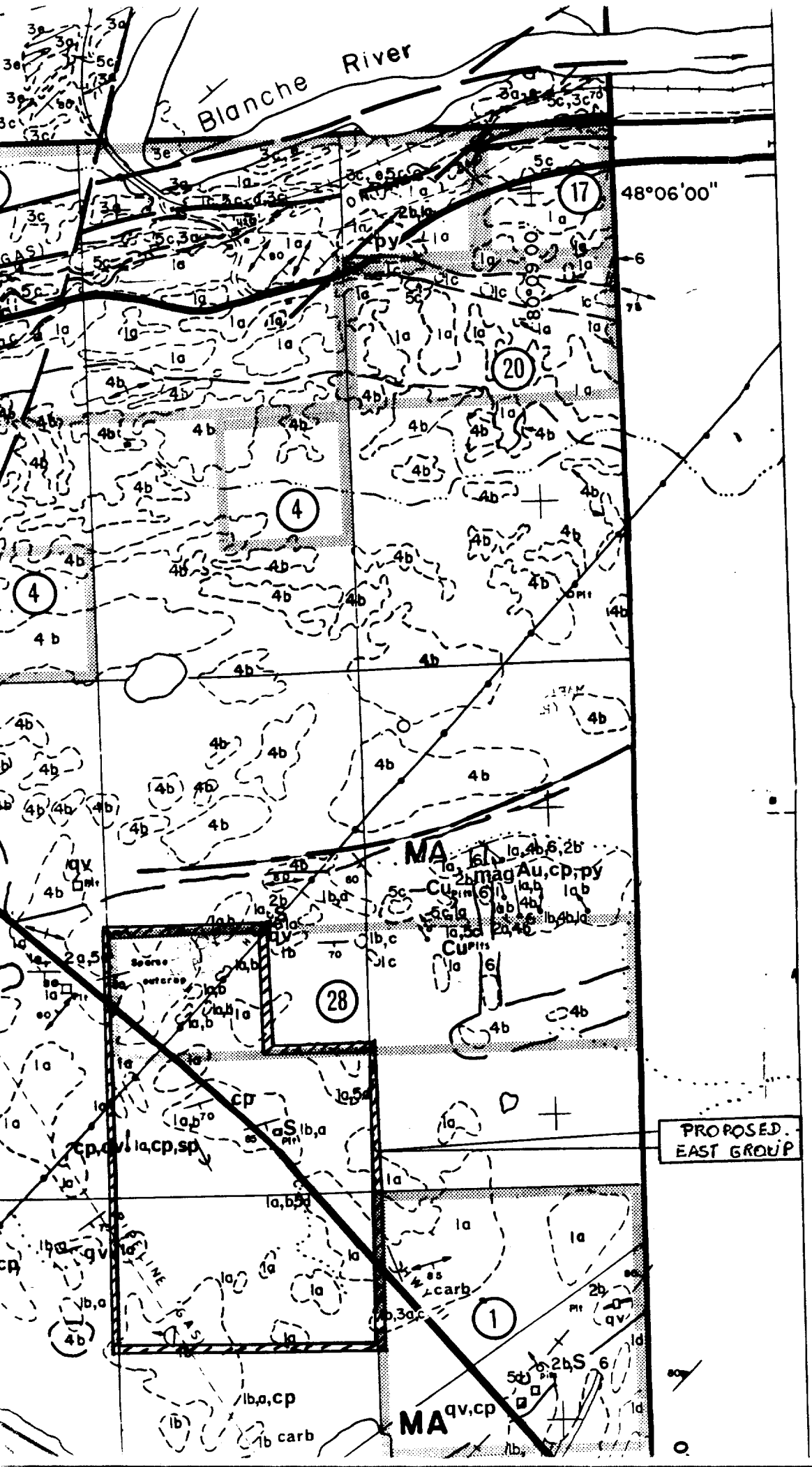
2a *Rhyolite, dacite.*
2b *Iron formation, silicic tuff, agglomerate.*
2c *Dacite porphyry, amygdaloidal and spherulitic dacite.*

MAFIC METAVOLCANICS AND METASEDIMENTS

1 *Unsubdivided mafic volcanics.*
1a *Basalt, andesite.*
1b *Chloritic mafic tuff, agglomerate.*
1c *Altered (bleached, carbonatized) volcanic and sedimentary rocks.*
1d *Amphibolite, garnet-epidote amphibolite, amphibolite gneiss.*
1e *Andesite porphyry, amygdaloidal and spherulitic dacite.*
1g *Biotite-garnet-pyroxene amphibolite.*

LEGEND OF FIG.3

FIG.4



G.S.C.

CENOZOIC
PLEISTOCENE AND REC
Sand, gr

PRECAMBRIAN
PROTEROZOIC
MAFIC INTRUSIVE ROC
8 Diabase

HURONIAN
COBALT GROUP
GOWGANDA FORMAT
7a Conglom
7b Arkose
7c Quartzi
7d Argilli

ARCHEAN
MAFIC INTRUSIVE RC
6 Diabase

FELSIC INTRUSIVE R
5a Granite
5b Granite
5c Syenite
5d Mafic s
countr

MAFIC AND ULTRAMA
(HAILEYBURIAN,
4a Serpen
4b Gabbro

METASEDIMENTS (TI
3a Conglo
3b Arkose
3c Quartz
3d Argill
3e Tuff a
trach

FELSIC VOLCANIC R
2a Rhyoli
2b Iron f
2c Dacite
dacit

MAFIC VOLCANIC RC
1a Basal
1b Mafic
1c Altere
sedi
1d Amphi
1e Andes
mafi

FIG. 5

GEC

Glacial striae.

Esker.

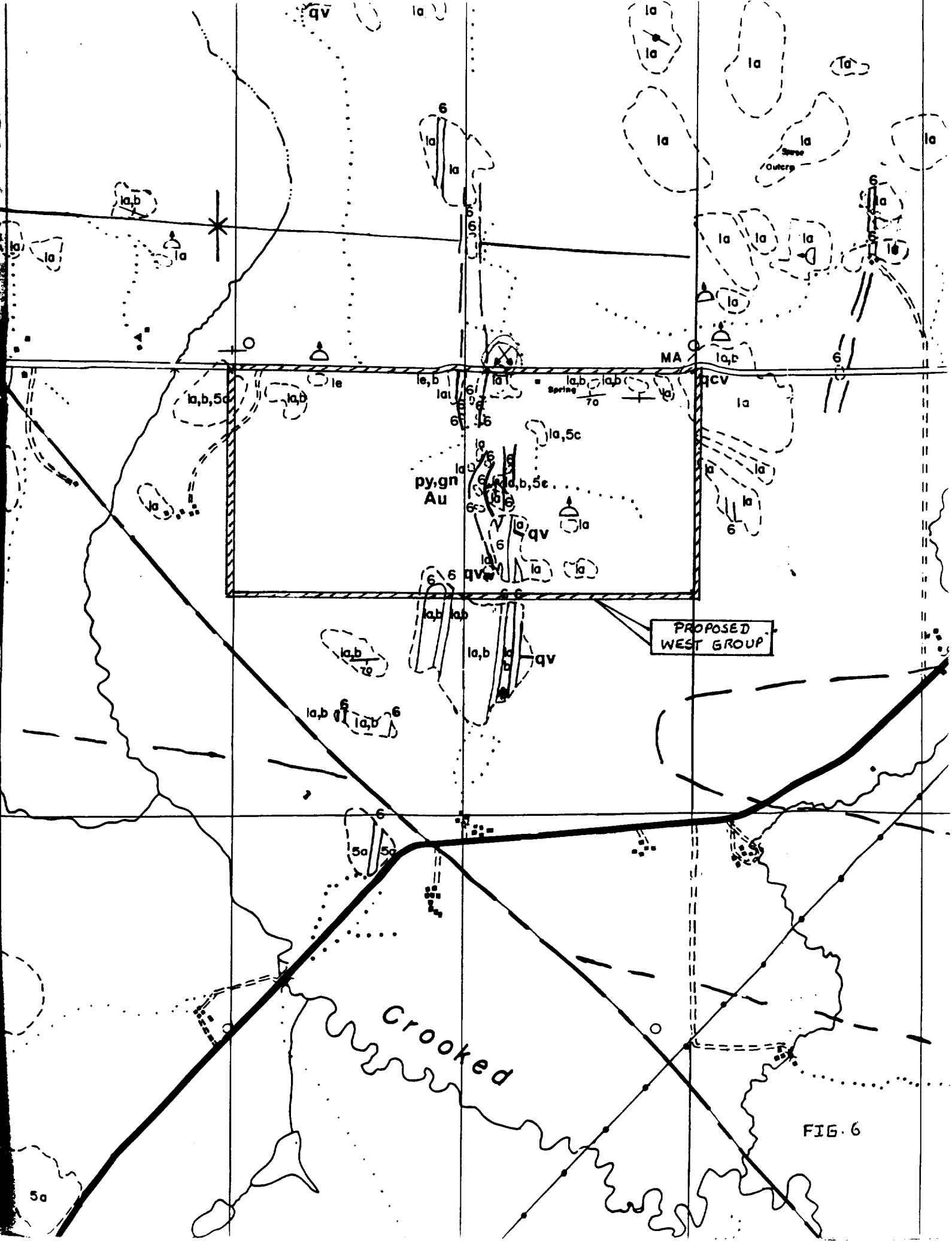
Small bedrock outcro

Area of bedrock outc

Bedding, horizontal.

Bedding, top unknown (inclined, vertical)

Lava flow; top (arrc pillows shape and pa


qv
la
la,b
la,b,5c
le
le,b
6
MA
qcv
la,5c
py,gn
Au
PROPOSED
WEST GROUP
Crooked
5a
FIG. 6

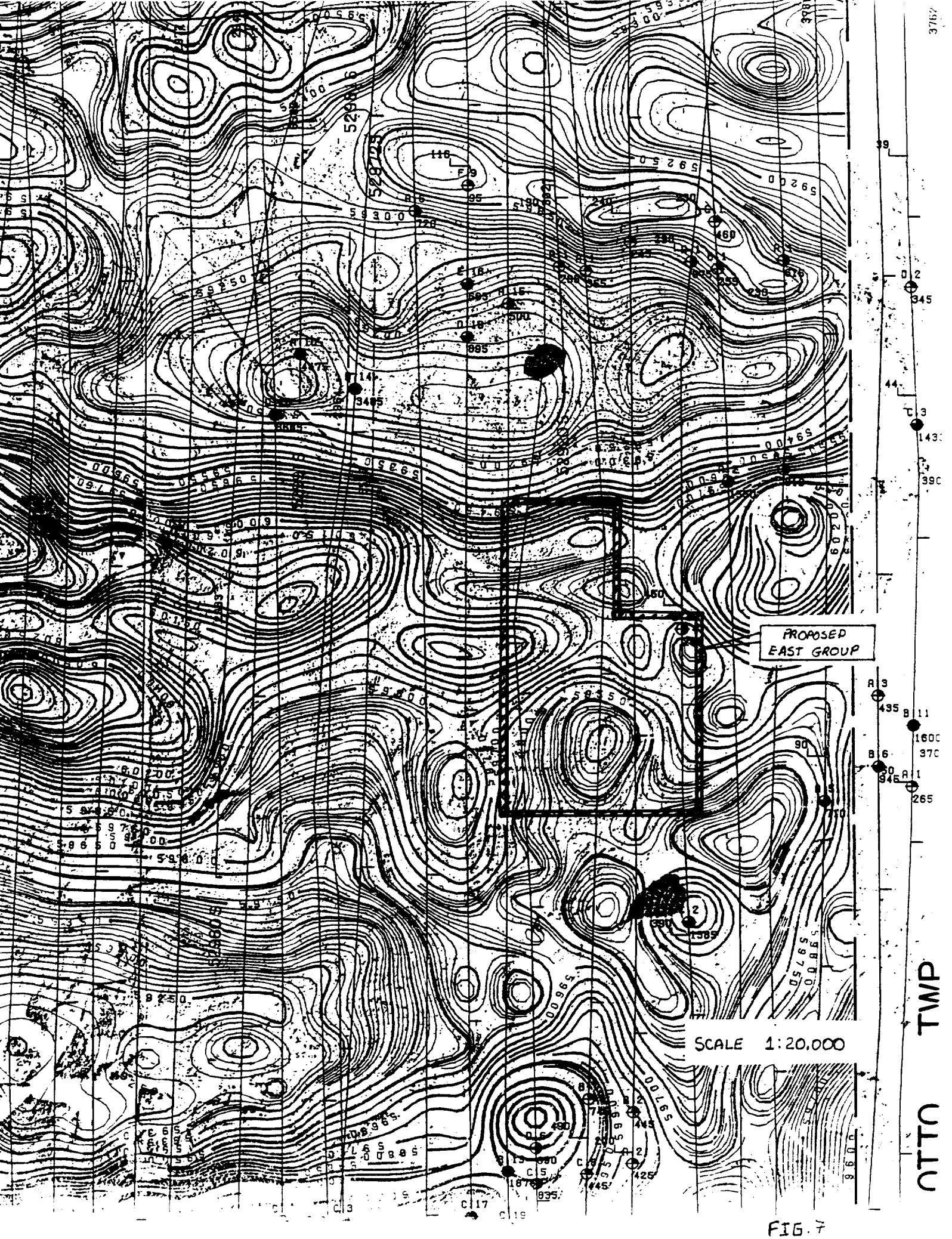


FIG. 7

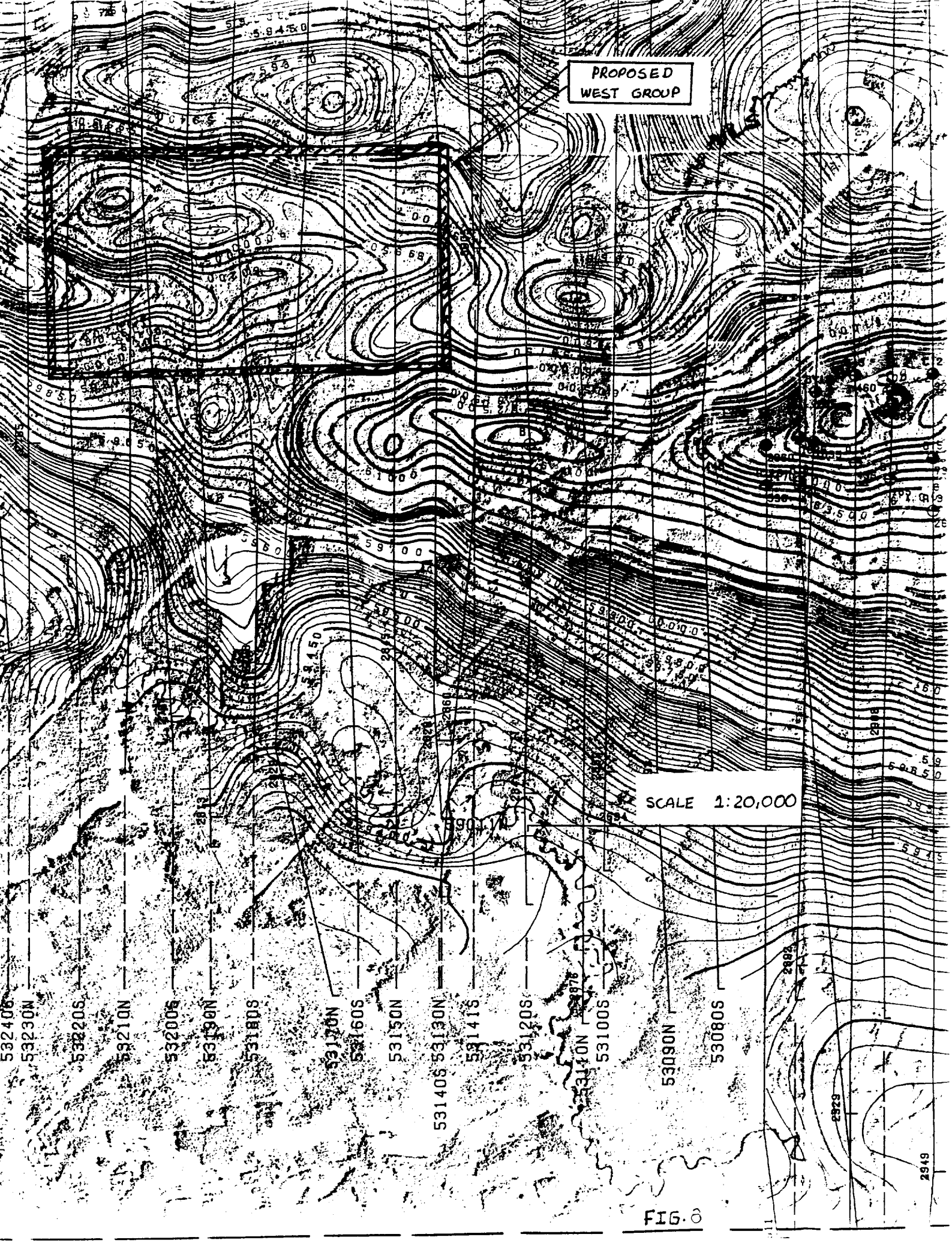
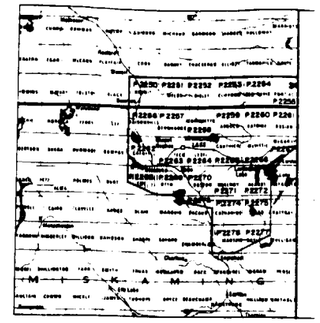

PROPOSED
WEST GROUP
SCALE 1:20,000
532400
532300N
532200S
532100N
532000S
531900N
531800S
531700N
531600S
531500N
531400S
531300N
531200S
531100N
531000S
530900N
530800S

FIG. 8

NTS Reference 42A/1
ODM GSC Aeromagnetic Map 2896(Rev)
ODM Geological Compilation Map, 2205

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INDEX MAP

PROPOSED WEST GROUP

PROPOSED EAST GROUP

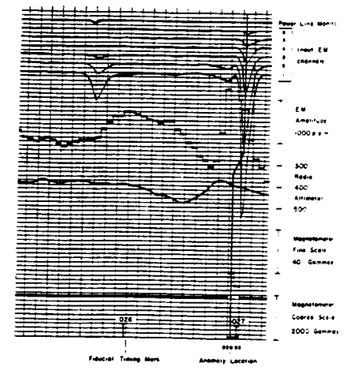
OTTO TWP.

LEGEND

SCALE 1 INCH TO ½ MILE

- 6 Channel Anomaly
- 5 Channel Anomaly
- 4 Channel Anomaly
- 3 Channel Anomaly
- 2 Channel Anomaly
- Magnetic Correlation

Anomaly Letter — B, 5 — Apparent Conductivity-Width
1800
Ch. 2 Amplitude P-P



Representative INPUT, Magnetometer and Ahmeter Recording

DESCRIPTIVE NOTES

The aircraft is equipped with the Barringer/Questor Mark V airborne E.M. system and the Geometrics G-803 Proton Precession Magnetometer. The INPUT® system will respond to conductive overburden and near-surface horizontal conducting layers in addition to bedrock conductors. Discrimination of conductors is based on the rate of transient decay, magnetic correlation, and the conductor shape, together with the conductor pattern and topography.

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INTERPRETATION REFERENCES

Becker, A., Gauvreau, C., and Collett, L.S.
1972: Scale Model Study of Time Domain Electromagnetic Response of Tabular Conductors: Canadian Mining and Metallurgical Bulletin, Vol. 65, No. 725, p.90-96.

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Nelson, Philip, H

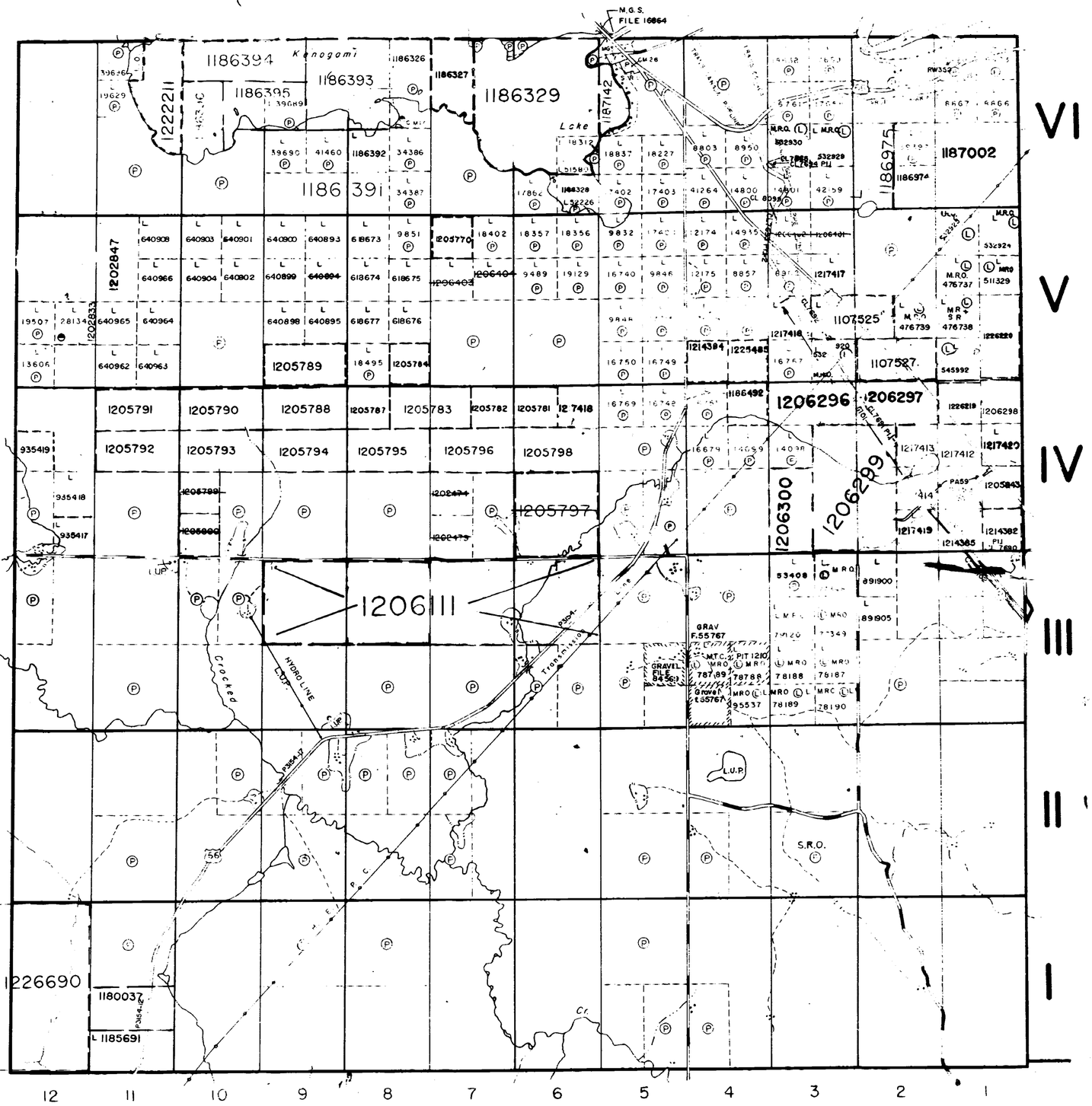
FIG. 9

M.342

EBY TWP

TRIM LINE

Grenfell Twp. M.351



Blain Twp. M.418

THE TOWNSHIP OF

EBY

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

PATENTED LAND	P
CROWN LAND SALE	C.S.
LEASES	L
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	C.
CANCELLED	

NOTES

4 chain surface rights reservation along the shores of all lakes and rivers

AREAS WITHDRAWN FROM STAKING

Surface Rights Withdrawn under Sec. 36, The Mining Act R.S.O. 1980. ORDER NO. W-01/91/ONT (Trans Canada Pipeline Right of Way and Buffer Zone particularly 40.25 meters or 132 ft. on either side of centre line of right of way)

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

DATE OF ISSUE

MAY 19 1998

PROVINCIAL RECORDING OFFICE - SUDBURY

PLAN NO.- M-345

MINISTRY OF NORTHERN DEVELOPMENT AND MINES

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K. Kalamov

M.342

42A01SE0093 OP91.644 EBY

Recd Jan. 25/89

200

TRIM LINE