



52A10NW0006 2.15400 TARTAN LAKE

010

**PROSPECTING REPORT
PAT/ANN PROPERTY
TARTAN LAKE AREA, NORTHWESTERN ONTARIO
THUNDER BAY MINING DIVISION**

N.T.S. 52 A 10/SW

**WORK CONDUCTED BY
DAVID E. CHRISTIANSON**

**DATES WORK PERFORMED:
JUNE 1st thru SEPTEMBER 10th 1993**

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1.0 INTRODUCTION

This prospecting report details the work performed on the Pat/Ann Property between June 1 and September 10, 1993

Periodic assistance during the various activities was provided by E. Christianson, P.Nielsen, T. Sanders and P. Simoneau.

The overall project is classified by sub-endeavour as follows:

A..GEOLOGICAL MAPPING: NE PART

B..BEEP MAT SURVEY: NE PART

C..PROSPECTING/SAMPLING:

D..GEOCHEM REFERENCE TO NORTH ZONE

E..V.L.F. PROFILES: SOUTH ZONE

F..DETAILED MAPPING OF CONDUCTIVE HORIZONS: SOUTH ZONE (WITH BEEP MAT RESULTS)

Each of these topics is discussed in detail later in this report.

2.0 LOCATION and ACCESS

The property is located approximately 40 km's northeast of Thunder Bay (figure 1) and is accessible via the Camp 46 logging road which extends east from Hwy. 527 (Spruce River Road) at km 15.

Approximately 21 km east on logging road an ATV trail of about 2 km's in length provides access to a camp site on the property.

3.0 CLAIMS

The property consists of 37 unpatented mining claims registered to David E. Christianson of Thunder Bay, Ontario (fig.2). The claims are located on Claim map G-2706, "Tartan Lake Area".

A list of claim numbers with their respective recording dates is listed as follows:

TB 1183228-243	April 15/91
TB 1183278 (4 units)	December 16/91
TB 1183501-506	April 29/91
TB 1183511-516	April 29/91
TB 1183578-583	April 29/91
TB 1183595-596 (12 units)	August 15/91

4.0 REGIONAL GEOLOGY

The Tartan Lake area remains unmapped by the O.G.S. . The Bedrock Geology of Ontario (Map 2543) indicates the property to be underlain by an assemblage of metasedimentary rocks ie. wacke, arkose, argillite, slate, chert, iron formation and minor metavolcanics. Intruding these rocks are muscovite bearing granitic rocks ie. muscovite-biotite and cordierite-biotite granite or granodiorite-tonalite.

5.0 PREVIOUS WORK

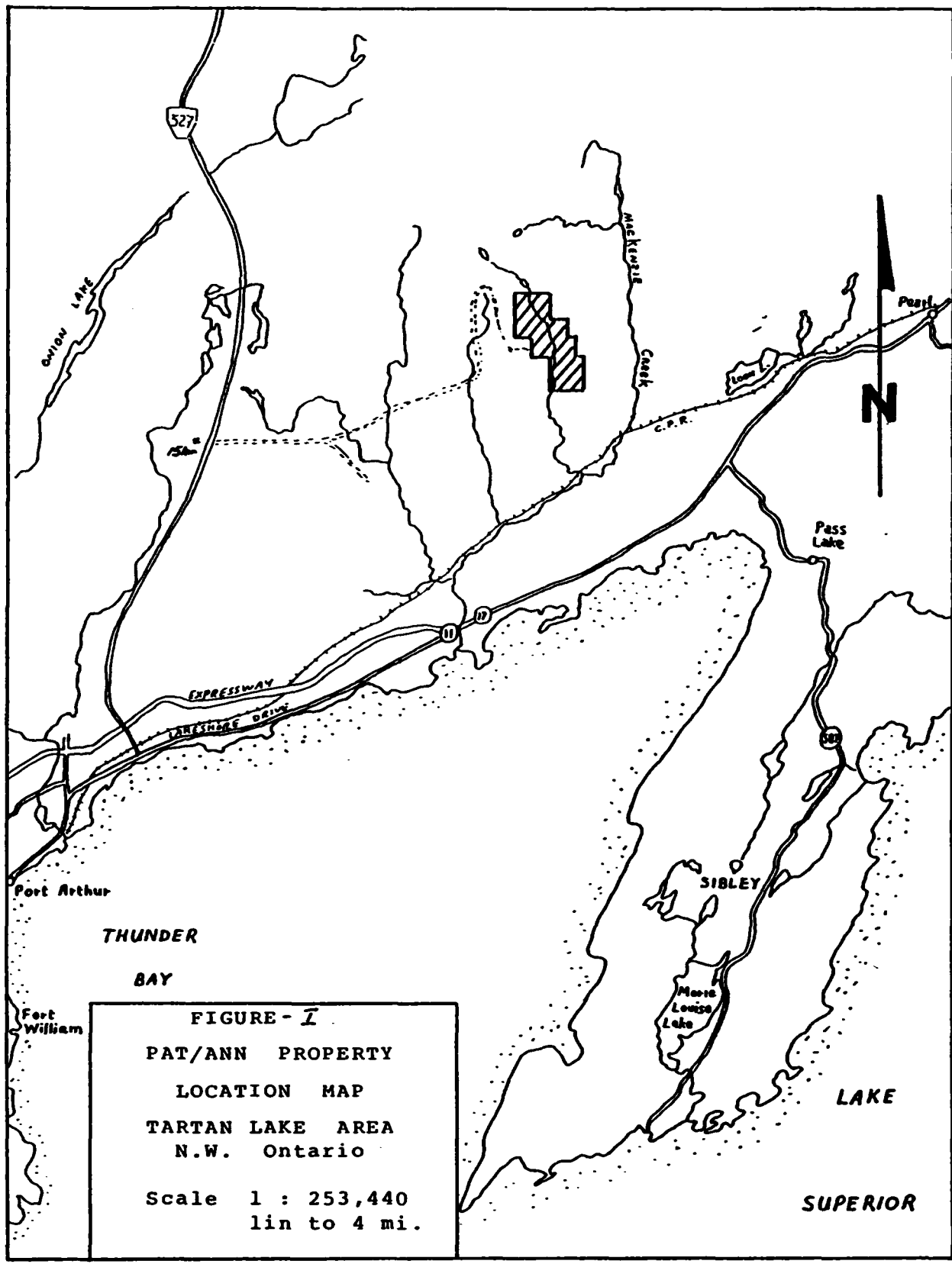


FIGURE - I
PAT/ANN PROPERTY
LOCATION MAP
TARTAN LAKE AREA
N.W. Ontario

Scale 1 : 253,440
 1 in to 4 mi.

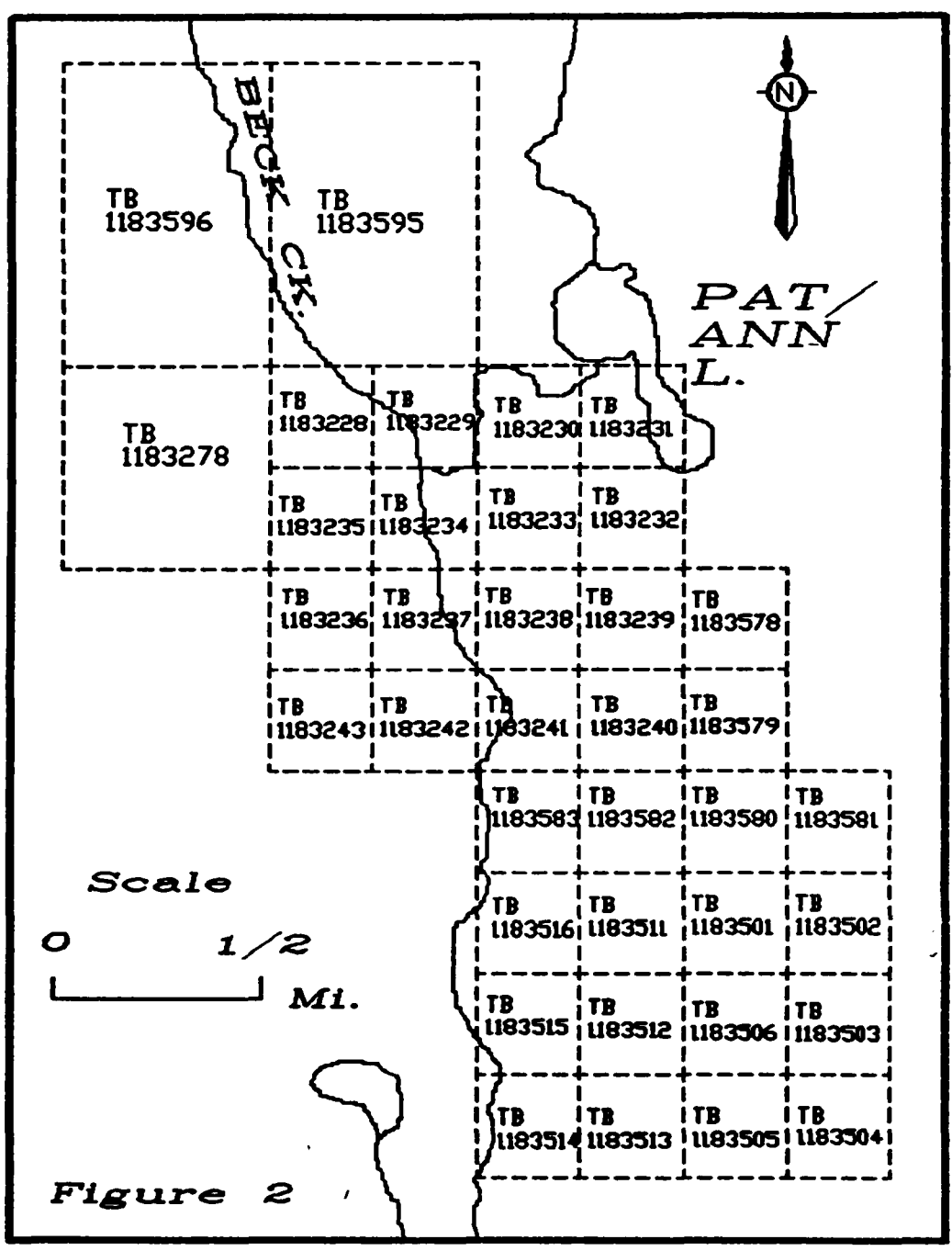


Figure 2

Claim Map
Pat/Ann Property

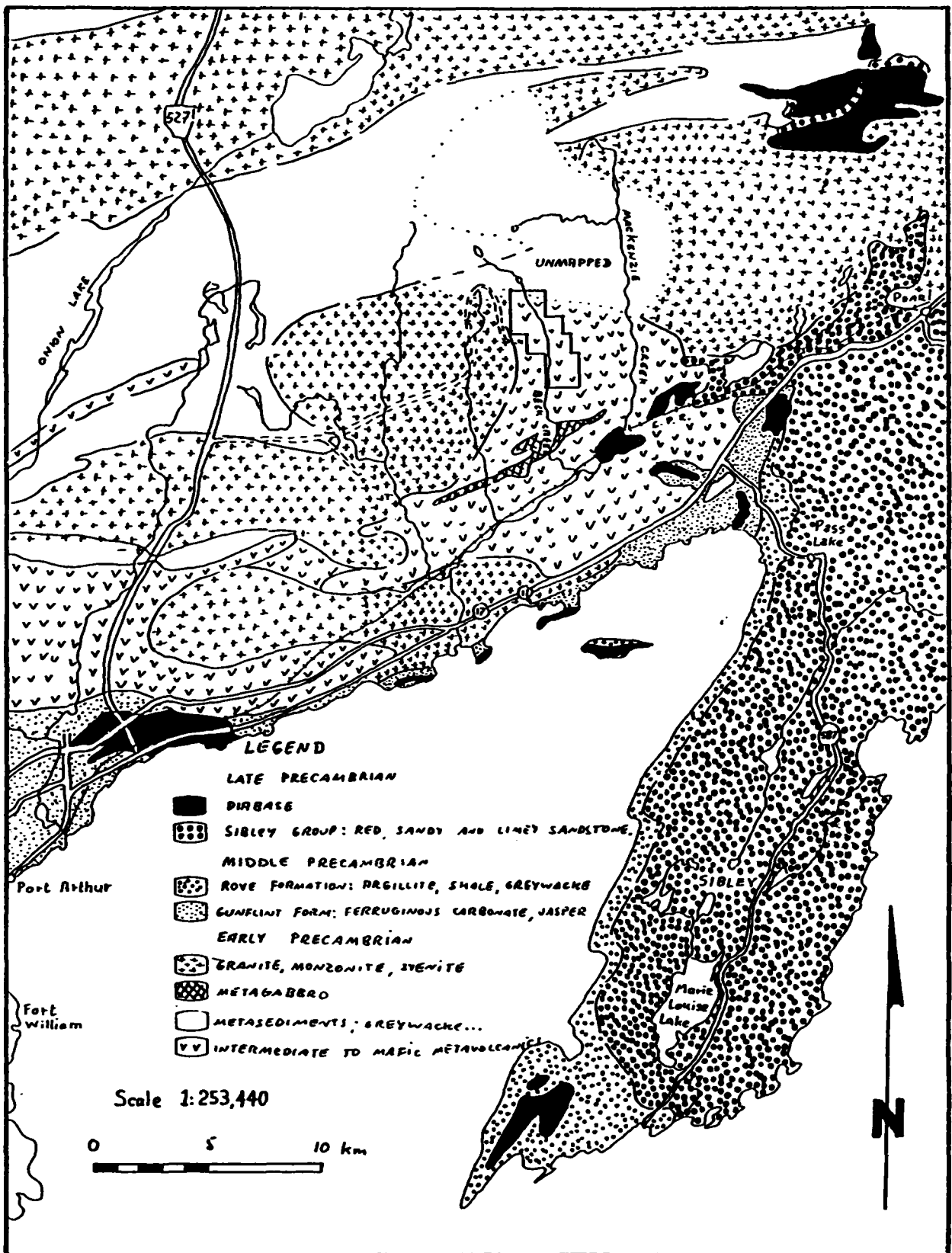


Figure-3 . General geological map of the MacGregor Township and Tartan Lake area by E.G. Pye, 1966. (From OGS Maps 2065 and 2232).

The previous work history of the property has been well documented in the most recent geological report on the property authored by P. Simoneau (1992). [O.G.S. Assessment files]

6.0 1993 WORK PROGRAM DETAILS

A..GEOLOGICAL MAPPING: NE PART.. Earlier mapping covered the N.W. portion of the claim group and was bounded by Beck Creek. This project covered the N.E. portion of the claim group east of Beck Creek. The existing grid lines were extended east by flag and compass and mapping was performed at the same scale as previous work (1:2500). A geological plan is included in this report.

PROPERTY GEOLOGY: The area of the property mapped in this survey is underlain by three major lithotypes : quartz-biotite-sericite schist (metasediments), pegmatite dykes and granite.

METASEDIMENTARY ROCKS: The southern portion of the mapped area is predominantly underlain by wacke sedimentary rocks which have been metamorphosed to quartz-biotite schist with variable amounts of sericite. The rock is fine (<.1mm) to medium (.3mm) grained, grey to black. Sericite content tends to increase toward the northwest part of the mapped area as the granite contact is approached. Remnant bedding is observed in one outcrop trending 320 degrees with an 80 degree dip to the northeast. The fabric of the rock is subparallel to bedding and schistosity trends vary from 310 to 330 degrees.

PEGMATITE DYKES: Pegmatite dykes intrude the metasedimentary rocks immediately east of Beck Creek. The rock is grey to pink with coarse grains of feldspar up to 2 cm. in diameter. Minor amounts of sericite and biotite are also present. The dykes vary in width from less than 10 cm to several metres. Associated with the dykes are several narrow clear quartz veins. The exact relationship between these dykes and the larger granite intrusive to the north has not been established.

FELSIC INTRUSIVE ROCKS: Granite occupies the entire northern portion of the mapped area and appears to be part of a large intrusive body noted on Map 2542, Bedrock Geology of Ontario. The rock is medium (3mm) to coarse (1 cm) grained, light grey to pink, with 40 to 50% feldspar, 30 to 40% quartz and 10-20% biotite and amphibole. The rock is generally unaltered and massive with an absence of sulphides.

STRUCTURE: The Beck Creek gorge is part of a major north trending structural lineament. No other fault structures are observed. Bedding of sedimentary layers trends ESE and dip moderately to steeply north. Schistosity is parallel to sub-parallel to bedding.

ALTERATION: No significant alteration is observed in the mapped area. Sericite content within the metasedimentary rocks increases

in close proximity to the granite intrusive. Quartz veining is observed in the biotite schist close to pegmatitic dyke contacts. Whole rock analysis was performed on a number of samples and the results are noted later in this report.

MINERALIZATION: No sulphide mineralization is observed in situ within the mapped area. Numerous magnetite bearing gabbro boulders were detected by the beep mat.

CONCLUSIONS and RECOMMENDATIONS: The southern part of the mapped area is underlain by wacke type metasediments. Along Beck Creek pegmatitic dykes intrude the metasediments and silicification of the host rock in the form of quartz veining is noted. Further prospecting is warranted in this area as there is some potential for the continuation of the silicified iron formation units previously mapped.

The northern portion of the mapped area is underlain by granite which is part of a large batholith and will not be given further consideration at this time.

B..BEEP MAT SURVEY: NE PART

Earlier beep mat surveys pinpointed several conductive horizons within the NW portion of the property.

A beep mat (BM II) survey (11.275 km.s) was carried out on northeast trending flagged lines spaced 100 metres apart with readings taken every 25 metres. This survey covered the N.E. portion of the property east of Beck Creek and following flagged lines used for geological mapping. (claims 1183595, 1183229, 1183230)

The particular instrument used for this survey was on-loan from the MNDM Thunder Bay Resident Geologists office.

RESULTS: Three high frequency responses were obtained (Table 1). All can be attributed to magnetite within gabbro boulders.

TABLE 1

BEEP MAT ANOMALIES

COORDINATES NORTHING	EASTING	READING (FREQUENCY VARIATIONS)
700	615	-795
1000	1185	-655
1000	627	-990

C..PROSPECTING/SAMPLING

The 92 beep mat survey located several conductive horizons. This part of program '93 was designed to follow up this information.

Most of these conductive horizons were located in the field, stripped enough to obtain fresh samples, sampled and examined. Locations are noted on the sketches attached to this report.

All samples are described in the Sample Description Tables and assay results are detailed in the Assay Certificates found later in the report.

No significant, (economic) values were obtained from the samples collected; however, no attempt will be made to analyze these results until more work has been performed on the southern portion of the property.

D..GEOCHEM REFERENCE TO NORTH ZONE

Soil and humus samples were collected at 20 metre stations along line 1185 North, for approximately 800 metres west and 200 metres east as part of a 1990 OPAP project. The samples were assayed for au cu and zn. This assay information was put into context this season and is represented in Profile form as found on attached Figures.

An attempt was made to obtain fresh rock samples from the anomalous points (3 times background); however, bedrock was not available at any of the sites.

No further interpretation is attempted at this time.

E..V.L.F. PROFILES: SOUTH ZONE

This very limited project was initiated to determine what kind of VLF signature might be obtained by profiling some trench areas known to contain massive sulphide mineralization.

The location of selected profiles is noted on respective Figures attached and the results are deemed to be self evident.

F..DETAILED MAPPING OF CONDUCTIVE HORIZONS: SOUTH ZONE

Precise locations of the trenches put in by Wright Hargreaves Ltd. circa 1955 were not known. Several spotty conductive horizons were noted in the 1992 beep mat survey and were thought to relate to the older work.

This project involved detailed mapping (scale 1:500), of a potentially continuous conductive horizon(s) between Line 100 South and Line 500 South and close to BL 0/00.

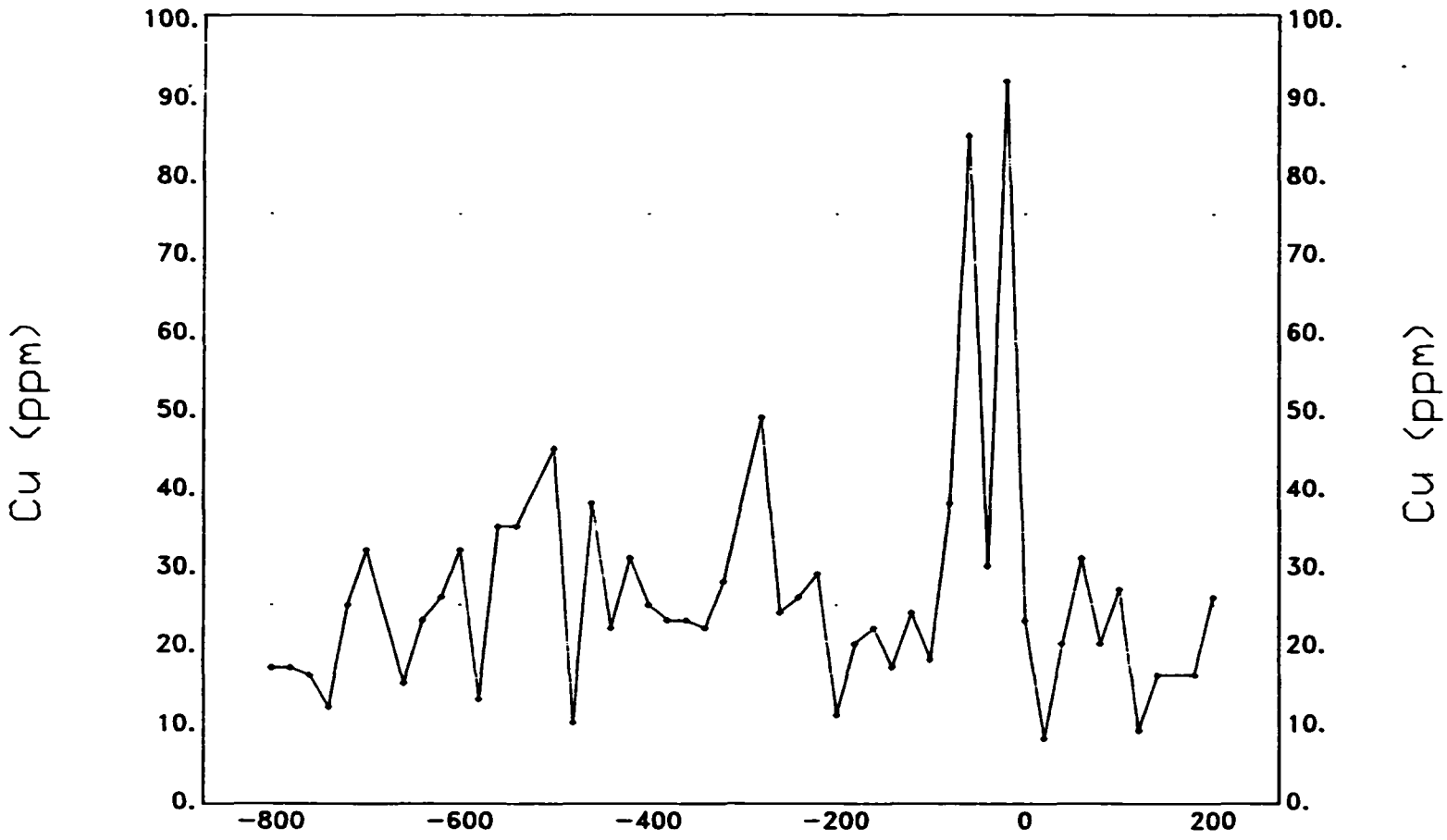
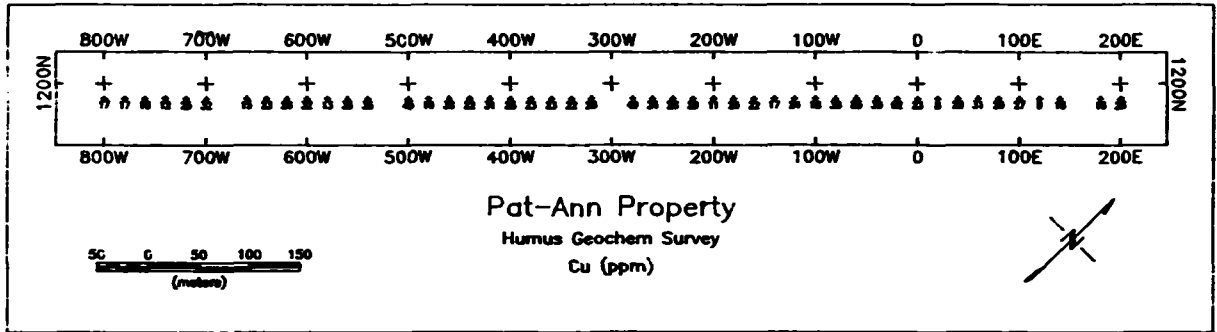
A beep mat was rented for one day and used to trace the known conductive zone located at 100S/040E in a southerly direction crossing Line 500 South @ approx. 075 West.

Topography, grid lines, old trenches, beep mat readings, sample locations and detailed conductive zones are noted on the "Detailed Map" found later in this report.

31 Samples were collected during this campaign and all were analyzed for au, cu and zn. Sample descriptions and assay results are found in following Tables.

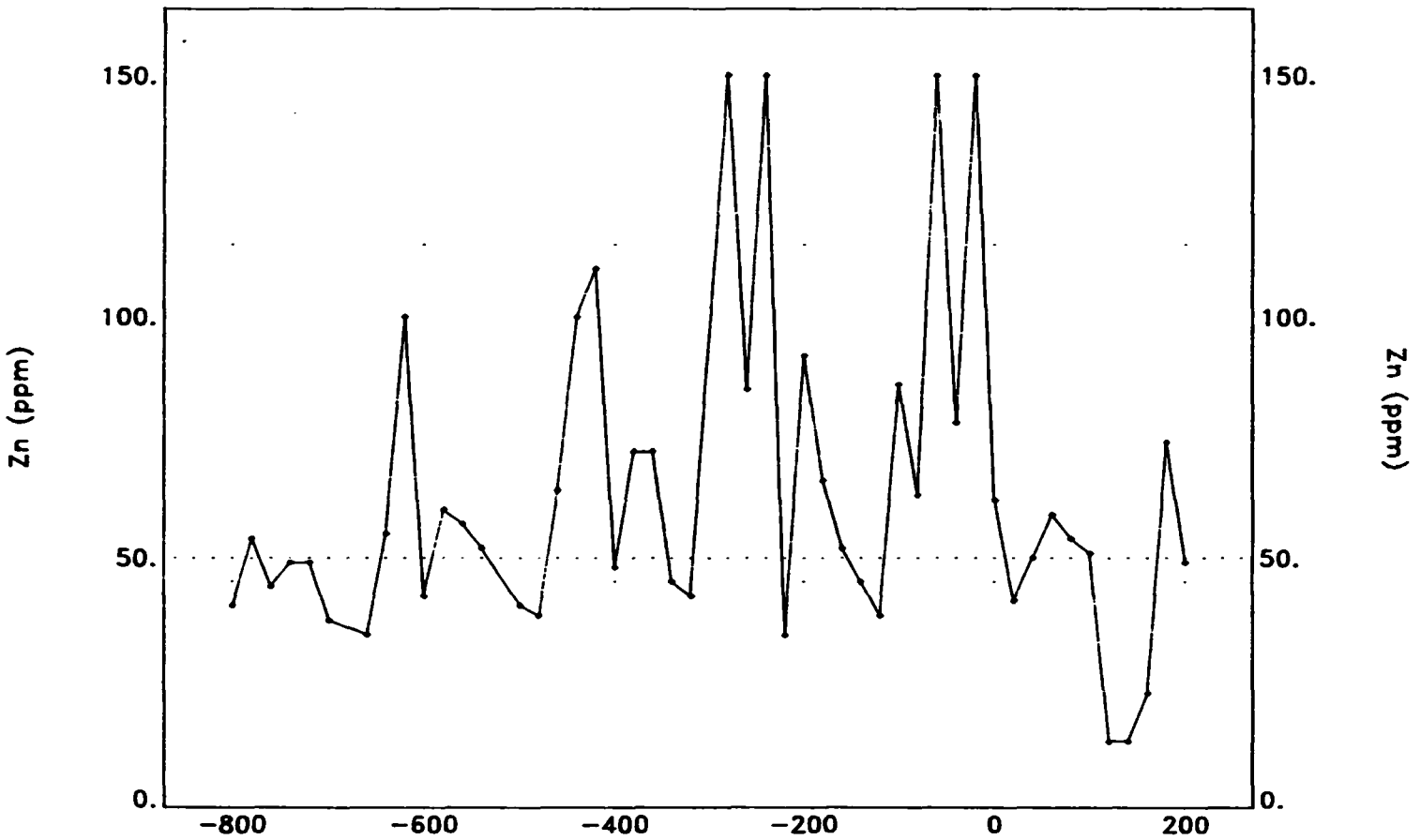
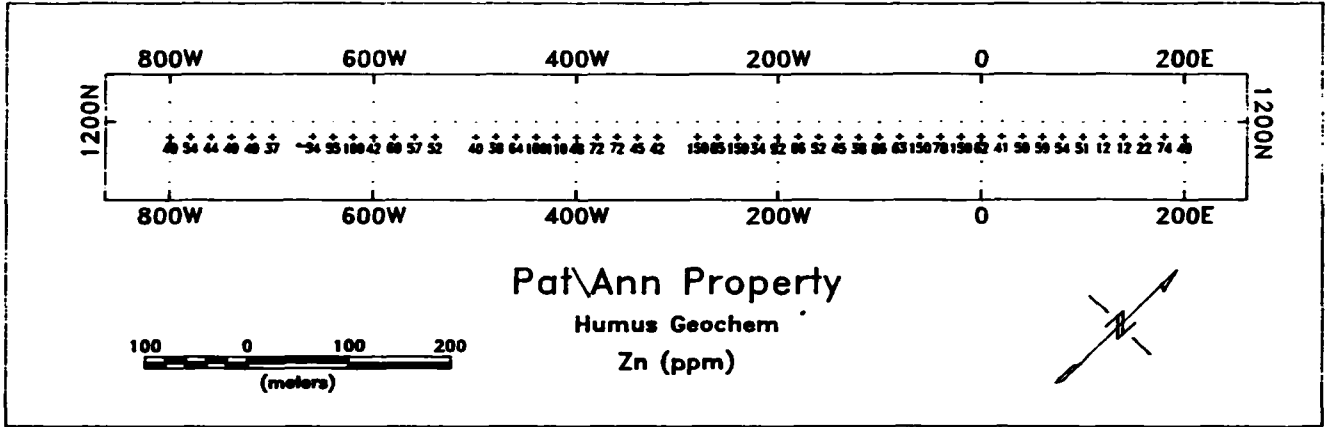
Although the assay results didn't indicate any presence of economic mineralization it is unknown at this point as to how anomalous zinc and copper values (1520 ppm, 558 ppm cu), fit in to the as yet unknown overall geological picture.

No conclusions are drawn at this time.



L1185N (Eastings)

Aug. 1993



L1185N (Eastings)

Aug. 1993

Fig. 5

REFERENCES

Ontario Geological Survey, 1991. Bedrock Geology of Ontario, west central sheet; Ontario Geological Survey, Map 2542, scale 1:1,000,000.

Simoneau, P. 1992. Results of 1992 Exploration Work Geological Mapping and Prospecting Pat/Ann Property Tartan Lake Area, Northwestern Ontario N.T.S. 52A10/SW

Simoneau, P. 1992. Results of 1992 Exploration Work Electromagnetic (C.E.M. & Beep Mat) and Magnetic Surveys Pat/Ann Property Tartan Lake Area, Northwestern Ontario N.T.S. 52A10/SW

APPENDIX ONE

SAMPLE DESCRIPTIONS..PN SERIES

NUMBER	LOCATION	DESCRIPTION
PN-01	500N 775E	BIOTITE SCHIST
PN-02	500N 175E	PEGMATITE
PN-03	700N 625E	BIOTITE SERICITE SCHIST
PN-04	700N 615E	MAGNETITE BEARING GABBRO
PN-05	1000N 275E	BIOTITE SCHIST, PEGMATITE
PN-06	930N 0/00	SHEARED, SILICIFIED IRON FORM.
PN-07	1000N 045W	BIOTITE WITH RECRYST. QTZ >5% po, GARNETS, 10% MAGNETITE
PN-08	1025N 050W	IRON FORMATION, >10% po
PN-09	1050N 075W	BIOTITE, QTZ, >15% po, 20% MAG
PN-10	1085N 185W	BIOTITE, QTZ, 15% po, 20% MAG
PN-11	1000N 130W	BIOTITE >20% po, 15% MAG
PN-12	945N 000	RECRYST QTZ, >10% po,
PN-13	610S 000	SILIC. IRON FORMATION

APPENDIX TWO

LOCATION	SAMPLE NO.	DESCRIPTION
L 1+20S - 0+30E	PS01	Cherty ironstone, 10 cm bedding, two magnetite layers with 1 chert layer and < 2% pyrite-pyrrhotite.
L 1+10S - 0+37E	PS02	Mineralized greywacke with banded pyrite-pyrrhotite (15%).
L 1+20S - 0+35E	PS03	Mineralized greywacke, amphibolitized, with bedding, chloritic layer with variable sulphide content (2 to 10%) and some garnets. 30cm chip sample.
L 1+40S - 0+25E	PS04	Magnetic cherty ironstone with 2% pyrite-pyrrhotite.
	PS05	White to reddish saccharose quartz vein with <2% pyrite.
L 1+55S - 0+28E	PS06	Almost massive pyrite-pyrrhotite 25% Py-Po in light grey chert. traces of chalcopyrite.
L 1+50S - 0+25E	PS07	Fractured cherty ironstone with fault gouge, folded with seams of magnetite and 0.5% recrystallized pyrite along fractures.
L 1+58S - 0+20E	PS08	Grey recrystallized chert, 1-2% pyrite with hematite seams and magnetite. Fractures filled with Pyrite.
L 1+66S - 0+18E	PS09	Grey recrystallized chert with 3-4% disseminated pyrite blebs associated with chlorite nodes.
L 2+02S - 0+17E	PS10	Grey recrystallized chert with chlorite-epidote nodes.
	PS11	Darker chert with 5-10% pyrite.
L 2+20S - 0+07E (NEW BLAST SITE)	PS12	White quartz vein with possible tourmaline (?).
"	PS13	Darker chert with 20% pyrite.
"	PS14	Massive sulphide layer 3 cm wide across chert.

MAIN TRENCH

- L 2+45S - 0+05W PS15 Dark grey chert with almost massive pyrite (40%) and specularite (?).
- L 2+45S - 0+07W PS16 Grey chert with 40% pyrite-pyrrhotite and some chalcopyrite.
- L 2+45S - 0+10W PS17 Massive marcasitic pyrite with some quartz crystals (8mm size).

OLD BLASTED OUTCROP

- L 3+50S - 0+25W PS18 Mineralized greywacke with 5-10% pyrite-pyrrhotite.
- PS19 Quartz vein with very coarse quartz crystals with 15% pyrite.
- PS20 Quartz vein with some fuschite.

MUCK FROM TRENCH

- L 3+94S - 0+45W PS21 Greywacke with 1 - 2% pyrite.
- L 3+93S - 0+46W PS22 Massive magnetite layer with some pyrite (1-2%).

SOUTH OF A TRENCH

- L 5+00S - 0+75W PS23 Dark cherty greywacke with 5-10% pyrite and traces of chalcopyrite.

NORTH OF A TRENCH

- L 5+10S - 0+52W PS24 Quartz vein with 15% rounded pyrite "nodules" in a fine-grained greywacke.
- L 5+12S - 0+50W PS25 Quartz vein with recrystallized quartz crystals and 15% pyrite.
- L 2+05S - 0+05W PS26 Recrystallized grey chert with 2% to 5% pyrite-pyrrhotite.
- L 1+90S - 0+04W PS27 Recrystallized grey chert with 2% to 5% pyrite-pyrrhotite.

NEW BLAST SITE

L 1+36S - 0+17W	PS28	Light grey mineralized chert and quartz vein with 1% pyrite.
	PS29	Dark cherty magnetic ironstone with 20% pyrite.

NEW BLAST SITE

L 1+34S - 0+25W	PS30	Recrystallized greenish white chert, 2-3% pyrite and 1-2% magnetite as dark grey bands.
	PS31	Banded cherty magnetite ironstone stringers of pyrite parallel to bedding (4-5% total pyrite, 2-3% total pyrite).

APPENDIX THREE

SAMPLE NO.	FIELD NO.	LOCATION	MAGNETIC	CONDUCTIVE	DESCRIPTION
5991	TS 51	2+05S 0+07 W	v weak	No	white quartz vein/chert 1% py
5992	TS 52	2+02S 0+10E	weak	no	white quartz/chert 2-8% py, 1% mag+po
5993	TS 53	1+05N 0+05W	weak	No	recryst chert tr py i-2% po 2-3% mag
5994	SS 1	Line SS trench	no	spotty weak-mod	shear'd Qtz-bio schist: 2-3% dis and stringer py
5995	SS 2	Line SS trench	No	No	shear'd Qtz-bio schist: 3-5% dis and stringer py
5996	SS 3	Line SS trench	weak	No	Qtz-bio sch : poss silified, < 5% late Qtz

SAMPLE NO.	FIELD NO.	LOCATION	MAGNETIC	CONDUCTIVE	DESCRIPTION
16952	TS-31	10+05N 1+75W	strongly	v weak	banded magnetite iron formation 80% fg mag, < 10 qtz, sl. chloritized
16953	TS-32	10+15N 1+50W	strongly	v. weak	massive mag iron fm: 70-80% mag +/-pc, tr py, 10-30% silica +/- chl
16954	TS-33	10+95N 2+05W	weak-moderate	no	garnetiferous chl-sil meta-sed: 50% fine silica-chl, 40% garnets, 1-2% py poss tr. cpy
16955	TS-34	11+10N 2+20W	strong	no	garnetiferous mag-chl-sil meta-sed: 50% fine silica-chl, 20% garnets, 10-20% mag 10% qtz, 1-2% py
16956	TS-35	10+85N 1+80W	strong	weak	shr'd bx'd garn-mag-sil meta-sed: 10% garnets, 30-40% mag, 2-3% stringer py
16957	TS-36	10+85N 1+80W	strong	no	garnetiferous mag-sil meta-sed: 10% garnets, 30-40% mag
16958	TS-37	10+05N 0+40E	no	no	quartz-biotite-mica schist
16959	TS-38	10+05N 0+40W	strong	no	mag-silica iron fm: 40-50% mag, 10% qtz 1% py
16960	TS-39	10+05N 0+40W	strong	no	mag-silica iron fm: 10-20% mag +/- chl, 2% py
16961	TS-300	10+00N 0+35W	strong	no	Quartz-rich meta-sed (recrystallized chert ?) 90-95% qtz, < 5% qtz-bio sch, tr py
16962	TS-301	10+00N 0+35W	strong	weak-mod	mag-silica iron-fm: 20-30% mag, 10 % qtz, 1% py
16963	TS-1B	2+95N 0+15W	strong	v wk to wk	mag-silica iron-fm: 30-40% mag, 10 % qtz, 1-2% py
16964	TS-1A	2+95N 0+15W	moderate	no	banded silica-mag met-sed: 60% re-cryst chert 10-20% late qtz, , <10% mag, 1-2% py
16965	TS-2	3+00N 0+05W	strong	no	mag-silica iron-fm: 60-70% mag +/- chl, 2-3% py
16966	TS-3	3+95N 0+25W	mod-strong	no	silica-mag meta-sed: 20-30% mag +/- chl, 1-2% py 10% qtz
16967	TS-4	3+95N 0+27W	weak	no	recrystallized chert, 3% magnetite
16968	TS-5	4+25N 0+10W	strong	no	mag-silica iron-fm: 60-70% mag +/- chl, trace py
16969	TS-6	*5+65N 0+40W	none	no	late white quartz vein : 1% py
16970	TS-7	*5+80N 0+50W	weak	v. strong	py-po-qtz vein : 80-90% py, < 5% po, < 5% qtz
16971	TS-8	*5+80N 0+50W	none	weak	chl (+/- talc-ser) schist, trace pyrite

APPENDIX FOUR



ACCURASSAY LABS

A DIVISION OF ASSAY LABORATORY SERVICES INC.

15

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Page 2

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July 23, 1993

Job 8934244

	16961	16962	16963	16964	16965	16966	16967	16968	16969	16970	16971	16972	16973	16974	16975
Bi (ppm)	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
V (ppm)	3.00	9.00	15.00	11.00	23.00	7.00	3.00	6.00	1.00	14.00	116.00	9.00	10.00	16.00	9.00
Ca (%)	0.07	0.06	0.15	0.36	0.47	0.31	0.03	0.34	0.04	0.05	0.15	0.10	0.05	0.02	0.41
P (%)	0.01	0.03	0.02	0.01	0.03	0.02	<0.01	0.02	0.01	0.03	0.13	0.07	0.04	0.02	0.39
La (ppm)	<1	2.00	4.00	4.00	9.00	6.00	<1	3.00	2.00	4.00	16.00	13.00	2.00	2.00	3.00
Cr (ppm)	31.00	24.00	22.00	24.00	23.00	20.00	22.00	22.00	16.00	91.00	787.00	57.00	46.00	44.00	61.00
Mg (%)	0.04	0.05	0.35	0.20	0.37	0.32	0.03	0.08	0.01	0.23	3.15	0.42	0.36	0.11	0.40
Ba (ppm)	22.00	42.00	101.00	92.00	101.00	85.00	24.00	41.00	11.00	79.00	80.00	48.00	73.00	70.00	44.00
Ti (%)	<0.01	<0.01	<0.01	<0.01	0.05	0.03	<0.01	0.05	0.01	<0.01	0.07	0.01	0.01	0.01	0.01
Al (%)	0.05	0.03	0.04	0.04	0.56	0.73	0.04	0.36	0.08	0.44	3.55	0.85	0.82	0.24	1.39
Na (%)	0.01	0.02	0.03	0.02	0.10	0.06	<0.01	0.04	0.01	0.07	0.05	0.02	0.05	0.06	0.04
Si (%)	0.01	0.01	<0.01	0.01	0.01	0.01	<0.01	0.01	0.01	0.01	0.01	<0.01	0.01	0.01	0.01
W (ppm)	<2	2.00	4.00	2.00	6.00	3.00	<2	3.00	<2	19.00	3.00	<2	8.00	11.00	5.00
Bc (ppm)	<1	<1	2.00	1.00	1.00	<1	<1	<1	<1	<1	2.00	2.00	3.00	1.00	4.00
Mo (ppm)	3.00	4.00	3.00	3.00	4.00	5.00	2.00	7.00	2.00	17.00	4.00	272.00	28.00	14.00	250.00
Cu (ppm)	18.00	36.00	7.00	11.00	5.00	29.00	12.00	9.00	27.00	193.00	102.00	67.00	174.00	172.00	81.00
Pb (ppm)	8.00	20.00	23.00	10.00	27.00	12.00	5.00	22.00	9.00	119.00	29.00	116.00	73.00	126.00	52.00
Zn (ppm)	17.00	49.00	42.00	24.00	63.00	33.00	7.00	34.00	7.00	96.00	219.00	360.00	101.00	67.00	74.00
Ag (ppm)	0.20	0.40	0.20	0.20	0.40	0.30	0.20	0.20	0.60	2.00	10.60	1.60	2.00	6.00	1.40
Ni (ppm)	13.00	17.00	9.00	8.00	8.00	14.00	10.00	7.00	9.00	129.00	118.00	43.00	69.00	91.00	47.00
Co (ppm)	3.00	29.00	27.00	7.00	35.00	16.00	<1	27.00	7.00	630.00	54.00	17.00	96.00	117.00	32.00
Mn (ppm)	500.00	840.00	1493.00	1126.00	2179.00	1030.00	180.00	2246.00	173.00	786.00	2216.00	563.00	680.00	546.00	750.00
Fe (%)	7.22	14.19	13.79	8.76	14.46	8.65	2.63	13.60	3.60	23.97	14.88	10.40	19.40	21.61	13.53
As (ppm)	5.00	12.00	14.00	9.00	17.00	8.00	<2	14.00	2.00	59.00	24.00	16.00	31.00	39.00	19.00
Hg (ppm)	<1	2.00	1.00	<1	2.00	1.00	<1	1.00	<1	4.00	1.00	1.00	1.00	1.00	1.00
Sr (ppm)	2.00	2.00	6.00	4.00	24.00	9.00	2.00	4.00	2.00	1.00	9.00	4.00	2.00	1.00	6.00
Cd (ppm)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00
Sb (ppm)	2.00	4.00	4.00	4.00	6.00	3.00	2.00	3.00	1.00	9.00	6.00	2.00	3.00	2.00	1.00



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Page 3

DAVID E. CHRISTIANSON
R.R. #14, Dog Lake Road
Thunder Bay, Ontario
P7B 5E5

July 23, 1993

Job #934244

	16976	16977	16978	16979	16980	16986	16995	16996	16997	16998	16999	17000
Bi (ppm)	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
V (ppm)	12.00	4.00	8.00	6.00	7.00	6.00	96.00	4.00	18.00	147.00	125.00	64.00
Ca (%)	0.07	0.02	0.02	0.01	0.02	0.02	0.08	0.11	0.25	0.08	0.18	2.38
P (%)	0.05	0.02	0.02	0.02	0.02	0.03	0.06	0.01	0.01	0.06	0.08	0.17
La (ppm)	3.00	1.00	2.00	1.00	2.00	2.00	23.00	<1	<1	22.00	31.00	27.00
Cr (ppm)	44.00	40.00	56.00	48.00	48.00	34.00	173.00	46.00	34.00	307.00	228.00	239.00
Mg (%)	0.21	0.05	0.13	0.07	0.11	0.06	1.53	0.08	0.27	2.01	1.71	0.70
Ba (ppm)	42.00	48.00	78.00	55.00	80.00	70.00	286.00	23.00	167.00	330.00	630.00	77.00
Ti (%)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.19	0.01	0.01	0.40	0.38	0.07
Al (%)	0.69	0.08	0.33	0.15	0.35	0.17	1.61	0.14	0.07	3.37	2.75	3.04
Ka (%)	0.03	0.04	0.07	0.04	0.07	0.05	0.05	0.01	0.05	0.07	0.11	0.23
Si (%)	0.01	<0.01	0.01	0.01	0.01	0.01	<0.01	0.01	0.02	<0.01	<0.01	0.01
W (ppm)	3.00	5.00	17.00	8.00	20.00	12.00	2.00	<2	88.00	<2	<2	<2
Be (ppm)	2.00	<1	1.00	<1	1.00	<1	1.00	<1	<1	<1	<1	2.00
Mo (ppm)	31.00	8.00	19.00	16.00	20.00	23.00	3.00	2.00	8.00	2.00	2.00	2.00
Cu (ppm)	117.00	63.00	285.00	53.00	233.00	42.00	30.00	14.00	11.00	19.00	27.00	233.00
Pb (ppm)	66.00	101.00	122.00	83.00	107.00	224.00	89.00	9.00	34.00	12.00	10.00	12.00
Zn (ppm)	110.00	57.00	86.00	67.00	87.00	65.00	544.00	18.00	45.00	108.00	91.00	48.00
Ag (ppm)	3.80	10.20	4.40	2.60	2.00	12.20	1.20	0.20	0.40	0.30	0.20	0.40
Ni (ppm)	59.00	83.00	105.00	57.00	105.00	97.00	43.00	21.00	13.00	130.00	90.00	135.00
Co (ppm)	40.00	52.00	203.00	324.00	174.00	116.00	12.00	2.00	39.00	24.00	19.00	19.00
Mn (ppm)	550.00	410.00	643.00	483.00	613.00	510.00	840.00	217.00	1049.00	816.00	683.00	337.00
Fe (%)	15.15	17.18	23.98	18.88	24.46	21.97	5.19	2.89	15.33	5.52	4.45	4.57
As (ppm)	19.00	24.00	56.00	28.00	58.00	39.00	5.00	3.00	18.00	3.00	4.00	9.00
Hg (ppm)	1.00	3.00	1.00	1.00	1.00	3.00	<1	1.00	1.00	<1	<1	<1
Sr (ppm)	1.00	1.00	1.00	1.00	1.00	1.00	8.00	4.00	32.00	4.00	10.00	100.00
Cd (ppm)	1.00	1.00	1.00	1.00	1.00	1.00	3.00	1.00	1.00	1.00	1.00	1.00
Sb (ppm)	1.00	3.00	9.00	6.00	4.00	2.00	6.00	<2	9.00	3.00	1.00	<2



ACCURASSAY LABS

A DIVISION OF ASSAY LABORATORY SERVICES INC.

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1070 LITHIUM DRIVE, UNIT 2
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Page 1

MR. DAVID E. CHRISTIANSON
R.R. 14, Dog Lake Road
Thunder Bay, Ontario
P7B 5E5

August 18, 1993

Job #934324

Accurassay	Sample # Customer	Gold ppb	Gold Oz/t
1	PS-01	<5	<0.001
2	PS-02	<5	<0.001
3	PS-03	<5	<0.001
4	PS-04	<5	<0.001
5	PS-06	<5	<0.001
6	PS-07	<5	<0.001
7	PS-09	<5	<0.001
8	PS-11	<5	<0.001
9	PS-12	<5	<0.001
10	PS-13	<5	<0.001
10	PS-13 Check	<5	<0.001
11	PS-14	12	<0.001
12	PS-15	<5	<0.001
13	PS-16	<5	<0.001
14	PS-17	<5	<0.001
15	PS-18	5	<0.001
16	PS-19	<5	<0.001
17	PS-20	<5	<0.001
18	PS-22	9	<0.001
19	PS-23	<5	<0.001
19	PS-23 Check	7	<0.001
20	PS-24	<5	<0.001
21	PS-25	<5	<0.001
22	PS-26	<5	<0.001
23	PS-27	<5	<0.001
24	PS-28	<5	<0.001
25	PS-29	<5	<0.001
26	PS-30	<5	<0.001
27	PS-31	<5	<0.001
28	PS-32	<5	<0.001
28	PS-32 Check	<5	<0.001

Certified By: John Bever



ACCURASSAY LABS

A DIVISION OF ASSAY LABORATORY SERVICES INC.

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1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
(807) 623-6448 FAX 623-6820

Page 1

MR. DAVID E. CHRISTIANSON
R.R. 14, Dog Lake Road
Thunder Bay, Ontario
P7B 5E5

August 18, 1993

Job #934324

Accurassay	Sample # Customer	Zinc ppm	Copper ppm
1	PS-01	28	19
2	PS-02	96	35
3	PS-03	<1	22
4	PS-04	<1	11
5	PS-06	4	162
6	PS-07	1	11
7	PS-09	1	19
8	PS-11	54	67
9	PS-12	4	23
10	PS-13	33	90
11	PS-14	17	92
12	PS-15	58	286
13	PS-16	1520	92
14	PS-17	15	52
15	PS-18	204	166
16	PS-19	81	41
17	PS-20	193	60
18	PS-22	32	27
19	PS-23	40	37
20	PS-24	39	63
21	PS-25	45	66
22	PS-26	18	20
23	PS-27	12	26
24	PS-28	10	15
25	PS-29	139	112
26	PS-30	12	17
27	PS-31	30	21
28	PS-32	18	558

Certified By:

Chris Bever



ACCURASSAY LABS

A DIVISION OF ASSAY LABORATORY SERVICES INC.


1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
(807) 623-6448 FAX 623-6820
Page 1

MR. DAVID E. CHRISTIANSON
R.R. 14, Dog Lake Road
Thunder Bay, Ontario
P7B 5E5

August 18, 1993

Job #934325

Accurassay	Sample #	Customer	Gold ppb	Gold Oz/t
1		PN-06	<5	<0.001
2		PN-07	21	<0.001
3		PN-08	<5	<0.001
4		PN-09	5	<0.001
5		PN-10	<5	<0.001
6		PN-11	<5	<0.001
7		PN-12	9	<0.001
7		PN-12 Check	<5	<0.001

Certified By: 

APPENDIX FIVE

Line	Easting	Reading (Frequency Variation)
200	075	-107
200	100	-160
200	125	-30
200	150	-101
200	175	-54
200	200	-40
200	225	-24
200	250	-48
200	275	-90
200	300	-170
200	325	-155
200	350	-190
200	375	-70
200	400	-32
200	425	-52
200	450	-25
200	475	-45
300	750	-70
300	725	-84
300	700	-115
300	675	-130
300	650	-71
300	625	-35
300	600	-127
300	575	-87
300	550	-230
300	525	-218
300	500	-132
300	475	-184
300	450	-125
300	425	-303
300	400	-44
300	375	-136
300	350	-82
300	325	-92
300	300	-252
300	275	-24
300	250	-26
300	225	-74
300	200	-24
300	175	-120
400	175	-48
400	200	-56
400	225	-57
400	250	-82
400	275	-64
400	300	-55
400	325	-43

Line	Easting	Reading (Frequency Variation)
400	350	-49
400	375	-37
400	400	-54
400	425	-57
400	450	-130
400	475	-141
400	500	-45
400	525	-55
400	550	-117
400	575	-70
400	600	-61
400	625	-78
400	650	-90
400	675	-172
400	700	-170
400	725	-271
400	750	-42
400	775	-42
400	800	-40
400	825	-42
400	850	-40
400	875	-56
400	900	-52
400	925	-48
400	950	-40
400	975	-91
400	1000	-95
400	1025	-121
500	1025	-220
500	1000	-102
500	975	-91
500	950	-178
500	925	-55
500	900	-56
500	875	-69
500	850	-89
500	825	-101
500	800	-66
500	775	-66
500	750	-42
500	725	-56
500	700	-238
500	675	-75
500	650	-50
500	625	-384
500	600	-44
500	575	-55

Line	Easting	Reading (Frequency Variation)
500	550	-101
500	525	-95
500	500	-120
500	475	-84
500	450	-90
500	425	-134
500	400	-221
500	375	-110
500	350	-106
500	325	-110
500	300	-230
500	275	-168
500	250	-145
500	225	-230
500	200	-200
500	175	-130
600	150	-225
600	175	-95
600	200	-90
600	225	-92
600	250	-105
600	275	-102
600	300	-125
600	325	-105
600	350	-122
600	375	-103
600	400	-80
600	425	-102
600	450	-173
600	475	-108
600	500	-162
600	525	-145
600	550	-264
600	575	-178
600	600	-316
600	625	-109
600	650	-180
600	675	-126
600	700	-107
600	725	-188
600	750	-225
600	775	-155
600	800	-113
600	825	-115
600	850	-118
600	875	-120
600	900	-130

Line Easting Reading
(Frequency Variation)

600	925	-125
600	950	-107
600	975	-213
600	1000	-144
600	1025	-95
700	1025	-55
700	1000	-45
700	975	-8
700	950	-22
700	925	-54
700	900	-93
700	875	-85
700	850	-97
700	825	-90
700	800	-41
700	775	-70
700	750	-43
700	725	-56
700	700	-165
700	675	-91
700	650	-90
700	625	-136
700	615	-795
700	600	-49
700	575	-55
700	550	-76
700	525	-92
700	500	-106
700	475	-115
700	450	-211
700	425	-111
700	400	-87
700	375	-106
700	350	-154
700	325	-36
700	300	-165
700	275	-56
700	250	-49
700	225	-143
700	200	-155
700	175	-255
700	150	-122
700	125	-84
800	125	-68
800	150	-325
800	175	-55
800	200	-67

Line	Easting	Reading (Frequency Variation)
800	225	-112
800	250	-93
800	275	-83
800	300	-75
800	325	-24
800	350	-97
800	375	-99
800	400	-88
800	425	-225
800	450	-146
800	475	-175
800	500	-105
800	525	-33
800	550	-56
800	575	-109
800	600	-122
800	625	-143
800	650	-115
800	675	-100
800	700	-95
800	725	-192
800	750	-178
800	775	-153
800	800	-224
800	825	-225
800	850	-210
800	875	-82
800	900	-92
800	925	-78
800	950	-88
800	975	-195
800	1000	-87
800	1025	-14
800	1050	-55
800	1075	-106
800	1100	-90
800	1125	-72
800	1150	-89
800	1175	-78
800	1200	-56
800	1225	-40
900	1225	-122
900	1200	-95
900	1175	-31
900	1150	-62
900	1125	-110
900	1100	-115

Line	Easting	Reading (Frequency Variation)
900	1075	-112
900	1050	-22
900	1025	-18
900	1000	-44
900	975	-54
900	950	-56
900	925	-115
900	900	-65
900	875	-112
900	850	-132
900	825	-62
900	800	-52
900	775	-42
900	750	-60
900	725	-80
900	700	-72
900	675	-56
900	650	-44
900	625	-57
900	600	-72
900	575	-120
900	550	-115
900	525	-92
900	500	-73
900	475	-56
900	450	-88
900	425	-72
900	400	-56
900	375	-35
900	350	-17
900	325	-85
900	300	-94
900	275	-107
900	250	-64
900	225	-83
900	200	-126
900	175	-220
900	150	-132
900	125	-365
1000	1225	-131
1000	1200	-466
1000	1180	-655
1000	1175	-101
1000	1150	-102
1000	1125	-144
1000	1100	-213
1000	1075	-121

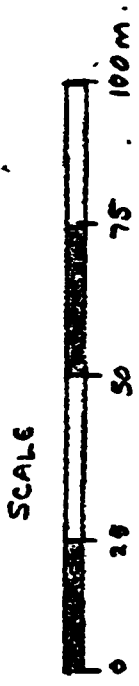
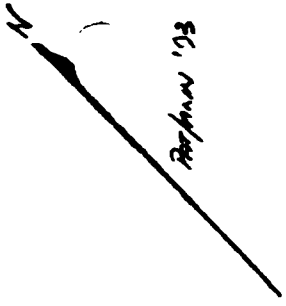
Line	Easting	Reading (Frequency Variation)
1000	1050	-188
1000	1025	-125
1000	1000	-109
1000	975	-95
1000	950	-182
1000	925	-322
1000	900	-434
1000	875	-118
1000	850	-156
1000	825	-103
1000	800	-104
1000	775	-104
1000	750	-156
1000	725	-168
1000	700	-84
1000	675	-114
1000	650	-39
1000	627	-990
1000	625	-92
1000	600	-67
1000	575	-133
1000	550	-212
1000	525	-133
1000	500	-107
1000	475	-83
1000	450	-94
1000	425	-134
1000	400	-157
1000	375	-134
1000	350	-123
1000	325	-135
1000	300	-156
1000	275	-124
1000	250	-101
1000	225	-74
1100	275	-121
1100	300	-239
1100	325	-90
1100	350	-139
1100	375	-435
1100	400	-137
1100	425	-44
1100	450	-88
1100	475	-149
1100	500	-141
1100	525	-143
1100	550	-181

Line	Easting	Reading (Frequency Variation)
1100	575	-231
1100	600	-178
1100	625	-330
1100	650	-48
1100	675	-110
1100	700	-55
1100	725	-47
1100	750	-141
1100	775	-54
1100	800	-40
1100	825	-108
1100	850	-44
1100	875	-166
1100	900	-121
1100	925	-90
1100	950	-151
1100	975	-177
1100	1000	-123
1100	1025	-100
1100	1050	-44
1100	1075	-105
1100	1100	-135
1100	1125	-131
1100	1150	-130
1100	1175	-65
1100	1200	-118
1100	1225	-162
1100	1250	-87
1200	1000	-140
1200	975	-131
1200	950	-111
1200	925	-130
1200	900	-119
1200	875	-95
1200	850	-55
1200	825	-77
1200	800	-96
1200	775	-67
1200	750	-199
1200	725	-108
1200	700	-76
1200	675	-93
1200	650	-69
1200	625	-220
1200	600	-50
1200	575	-70
1200	550	-59

Line Easting Reading
(Frequency Variation)

1200	525	-50
1200	500	-76
1200	475	-180
1200	450	-74
1200	425	-87
1200	400	-83
1200	375	-92
1200	350	-150
1200	325	-260
1200	300	-66
1300	350	-81
1300	375	-64
1300	400	-136
1300	425	-140
1300	450	-105
1300	475	-129
1300	500	-123
1300	525	-55
1300	550	-148
1300	575	-210
1300	600	-80
1300	625	-128
1300	650	-76
1300	675	-136
1300	700	-123
1300	725	-108
1300	750	-98
1300	775	-104
1300	800	-103
1300	825	-84
1300	850	-91
1300	875	-121
1300	900	-118
1300	925	-78
1400	1150	-79
1400	1125	-122
1400	1100	-71
1400	1075	-75
1400	1050	-92
1400	1025	-78
1400	1000	-81
1400	975	-77
1400	950	-108
1400	925	-188
1400	900	-142
1400	875	-168
1400	850	-163

Line	Easting	Reading (Frequency Variation)
1400	825	-96
1400	800	-119
1400	775	-112
1400	750	-62
1400	725	-73
1400	700	-88
1400	675	-100
1400	650	-68
1400	625	-58
1400	600	-57
1400	575	-126
1400	550	-220
1400	525	-154
1400	500	-52
1500	450	-176
1500	475	-388
1500	500	-133
1500	525	-118
1500	550	-85
1500	575	-109
1500	600	-72
1500	625	-296
1500	650	-53
1500	675	-34
1500	700	-56
1500	725	-7
1500	750	-129
1500	775	-21
1500	800	-78
1500	825	-68
1500	850	-95
1500	875	-64
1500	900	-48
1500	925	-56
1500	950	-54
1500	975	-28
1500	1000	-16
1500	1025	-29
1500	1050	-29
1500	1075	-76
1500	1100	-83
1500	1125	-86
1500	1150	-111



"PROSPECTIVE SKETCH"
 showing
 PN SAMPLE LOCATIONS
 LI100N ANOMALY

LEGEND

Metasediments

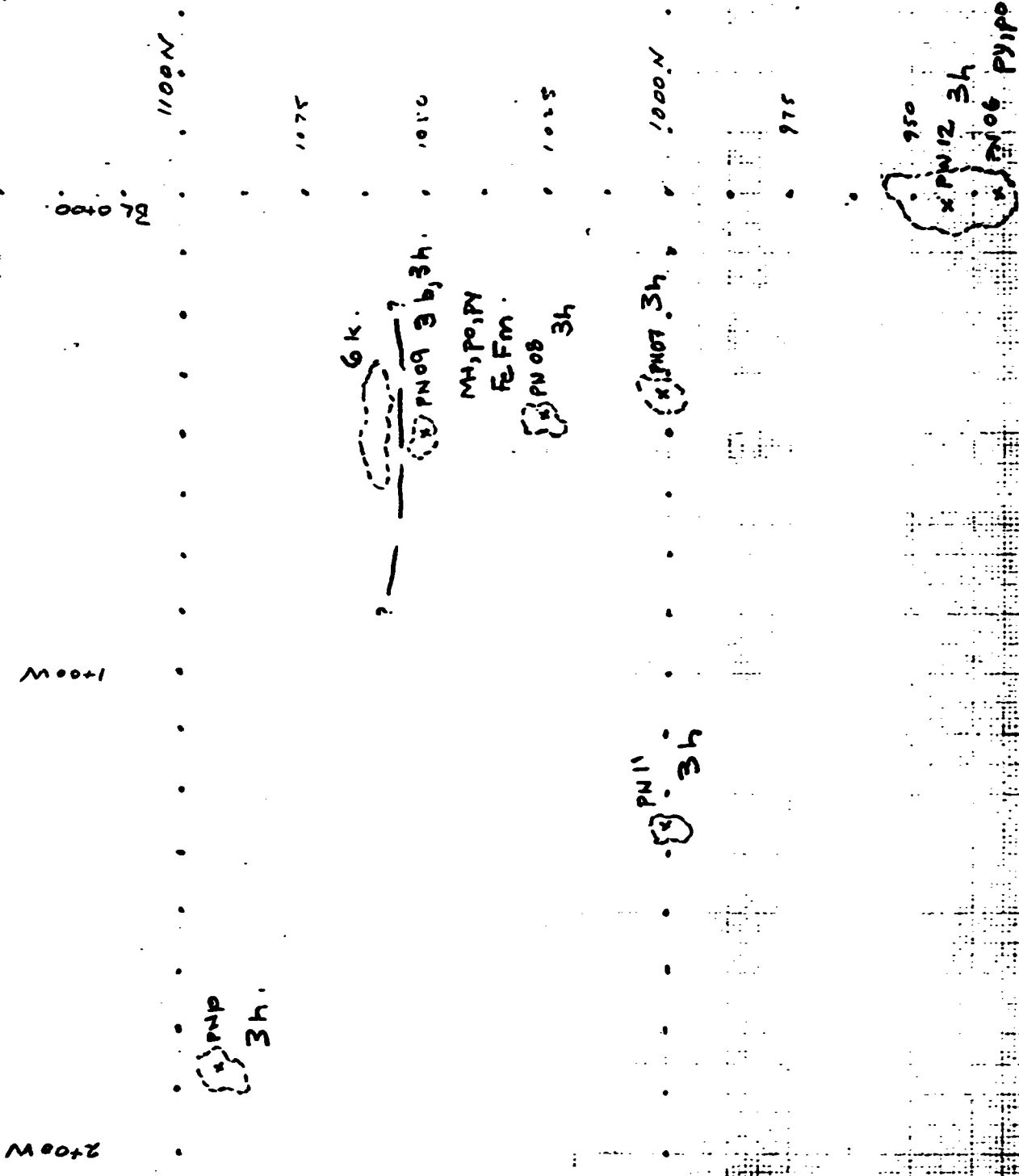
3b - Bedded

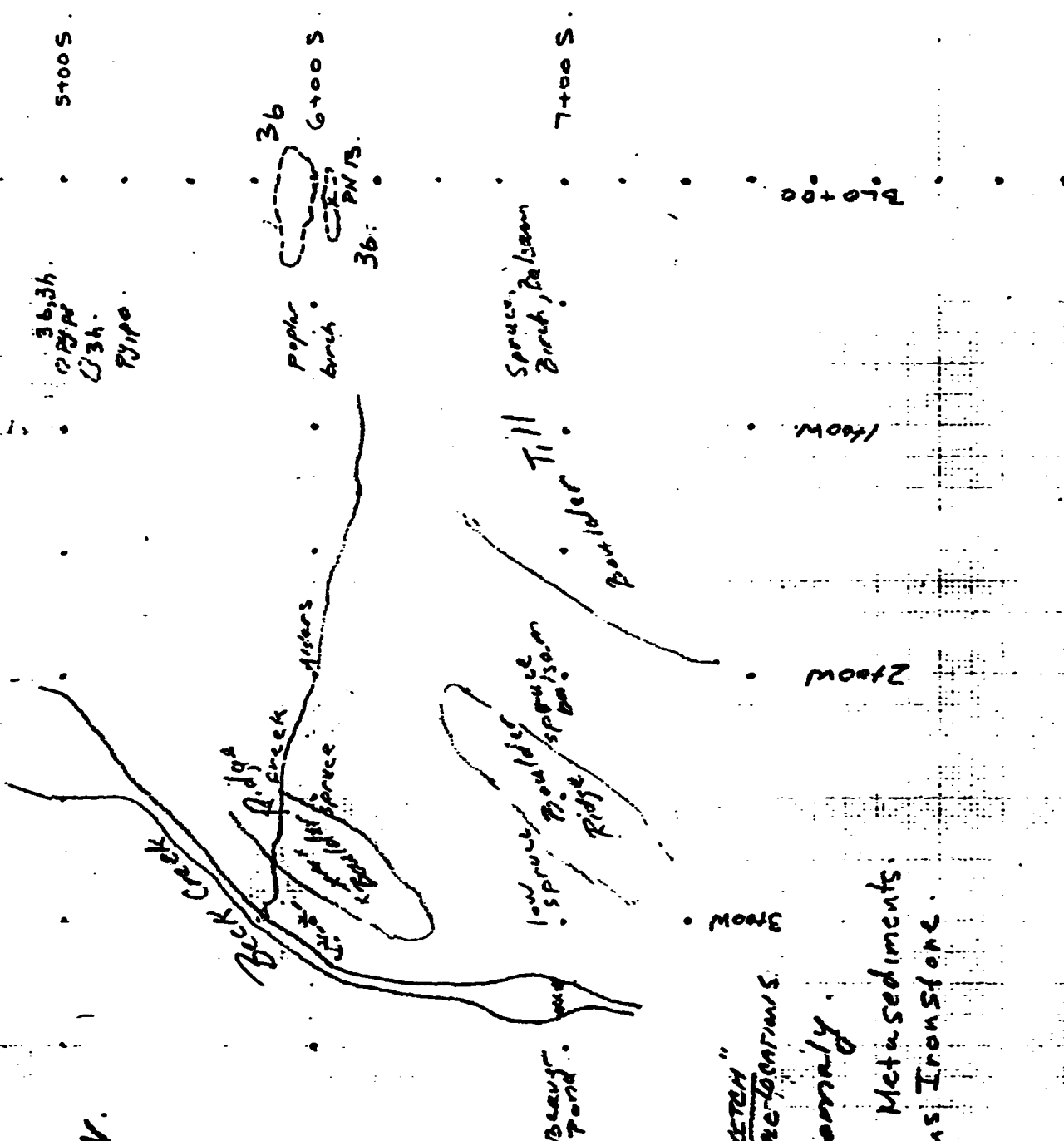
3h - Siliceous Ironstone

Felsic Intrusive Rocks

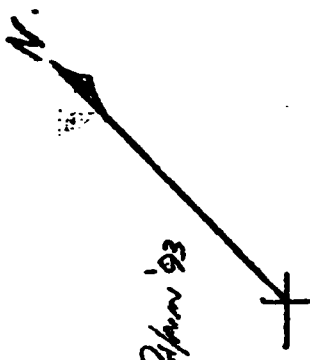
3k - Quartz Monzonite

X PN04 SAMPLE LOCATION





Alpin '93



"PROSPECTING SKETCH"
 showing FA sample locations.

↳ 500S Anomaly.

Geology
 3b - Bedded Metasediments.

3h - Siliceous Ironstone.

Scale



Report of Work Conducted After Recording Claim

Mining Act

Transaction Number
U9440-099

MINING LANDS

Information collected on this form is obtained under the authority of the Mining Act. This collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, 100 Queen Street West, Toronto, Ontario, M5H 2B5, telephone (416) 326-7284.



900

- Instructions:**
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for more information.
 - A separate copy of this form must be completed for each Work Group.
 - Technical reports and maps must accompany this form in duplicate.
 - A sketch, showing the claims the work is assigned to, must accompany this form.

CAREY LANCE - 156404 *Box 196 DEARDMORE POTIGO*

Recorded Holder(s)
DAVID E. CHRISTIANSON - 118066 *JOHN NABIGON - 174408* *PETER NABIGON - 174431*

Address
R.R. 14, DOG LAKE RD., THUNDER BAY, ONT. P7B 5E5

Mining Division
THUNDER BAY

Township/Area
TARTAN LAKE AREA

Client No.
1-96 S. ALGOMA ST THUNDER BAY P7B 3B7

Telephone No.
807-767-4670

M or G Plan No.
G 2706

Date Work Performed
From: **MAY 1/93** To: **DEC 15/93**

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	GEOLOGICAL (PROSPECTING REPORT)
<input type="checkbox"/> Physical Work, Including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ 12961

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
E. CHRISTIANSON	R.R. 14 THUNDER BAY ONT. P7B5E5
P. NIELSEN	% R.R. 14 THUNDER BAY, ONT P7B5E5
T. SANDERS	" " " " " "
P. SIMONEAU	" " " " " "

(Attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.

Date: **APR. 11/94** Recorded Holder or Agent (Signature): *[Signature]*

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying
DAVID E. CHRISTIANSON, R.R. 14, DOG LAKE RD., THUNDER BAY, ONT. P7B5E5

Telephone No.: **807-767-4670** Date: **APR 11/94** Certified By (Signature): *[Signature]*

For Office Use Only

Total Value Cr. Recorded \$12961	Date Recorded April 11/94	Mining Recorder <i>M. G. Weber</i>	<p style="text-align: right;">APR 11 1994</p> <p style="text-align: center;">RECEIVED MINING DIVISION THUNDER BAY</p>
	Deemed/Approval Date July 11/94	Date Approved	
	Date Notice for Amendments Sent		

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	7B 1183578	1
	1183579	1
	1183580	1
	1183581	1
	1183582	1
	1183583	1
	7B 1183501	1
	1183502	1
	1183503	1
	1183504	1
	1183505	1
	1183506	1
	7B 1183511	1
	1183512	1
	1183513	1
	1183514	1
	1183515	1
Total Number of Claims		17

Value of Assessment Work Done on this Claim	Value Applied to this Claim
	259
	259
	259
	259
	259
	259
	259
	259
	259
	259
	259
	259
	259
	259
	259
	259
Total Value Work Done	4403

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
Total Assigned From	Total Reserve

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

- Credits are to be cut back starting with the claim listed last, working backwards.
- Credits are to be cut back equally over all claims contained in this report of work.
- Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.

Signature: *[Handwritten Signature]* Date: APR 11/94



Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre ^{14 @ 100.00} ^{38 @ 150.00}	5900.00	
	Field Supervision Supervision sur le terrain ^{10 @ 150.}	1500.00	7400
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-consultant	Type LAB ANALYSIS - ASSAYS	1651.97	
			1652
Supplies Used Fournitures utilisées	Type BLASTING	376.34	
	Field (gas, oil, pump etc)	360.69	
	Office (diesel, part etc)	151.72	
			889
Equipment Rental Location de matériel	Type geophysics inst.	74.90	
	A.T.V.'s etc.	2000.00	
			2075
Total Direct Costs Total des coûts directs			12016

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work. Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
	personal mileage		
	3149 km @ 30	944.70	
			945
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilitation			
Sub Total of Indirect Costs Total partiel des coûts indirects			945
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			945
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs) Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			12961

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Timing Discounts

Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.

Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	x 0.50 =

Remises pour dépôt

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation
- Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Évaluation totale demandée
	x 0,50 =

Certification Verifying Statement of Costs

I hereby certify: that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown in the accompanying Report of Work form.

As RECORDED HOLDER & AGENT I am authorized (Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

J'atteste par la présente: que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie)

to make this attestation.

Signature: [Signature] Date: APR 11/94



Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Geoscience Approvals Office
933 Ramsey Lake Rd., 6th Flr
Sudbury, Ontario
P3E 6B5

Telephone: (705) 670-5853
Fax: (705) 670-5863

Our File: 2.15400
Transaction #: W9440.099

July 7, 1994

Mining Recorder
Thunder Bay

Dear Mr. Weirmeir:

**RE: Approval of Assessment Work on mining claims TB 1183228 et. al. in
the Tartan Lake Area.**

The assessment credits for Prospecting, section 9 of the Mining Act Regulations, as listed on the original Report of Work, have been approved as of July 7, 1994.

Please indicate this approval on the claim record sheets.

If you have any questions concerning this submission please contact Dale Messenger at 670-5858.

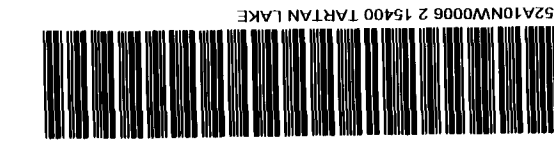
Yours sincerely,

Ron C. Gashinski
Senior Manager, Mining Lands Section
Mining and Land Management Branch
Mines and Minerals Division

DEM/dm
Enclosures:

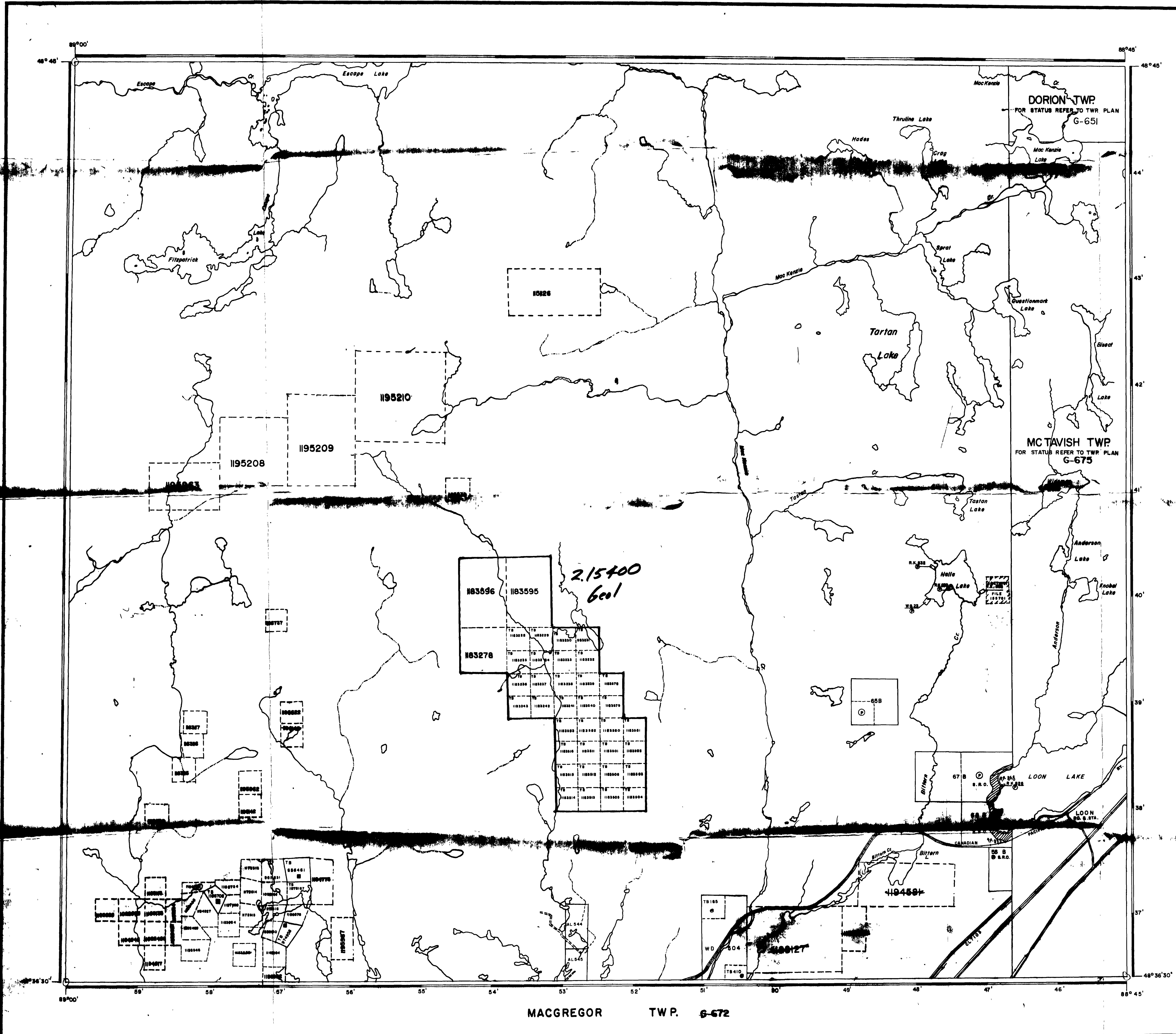
cc: Assessment Files Office
Sudbury, Ontario

Resident Geologist
Thunder Bay, Ontario



5102

BLAKE LAKE



NOTICE:
 The information that appears on this map has been compiled from various sources, and accuracy is not guaranteed. Those wishing to make 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.

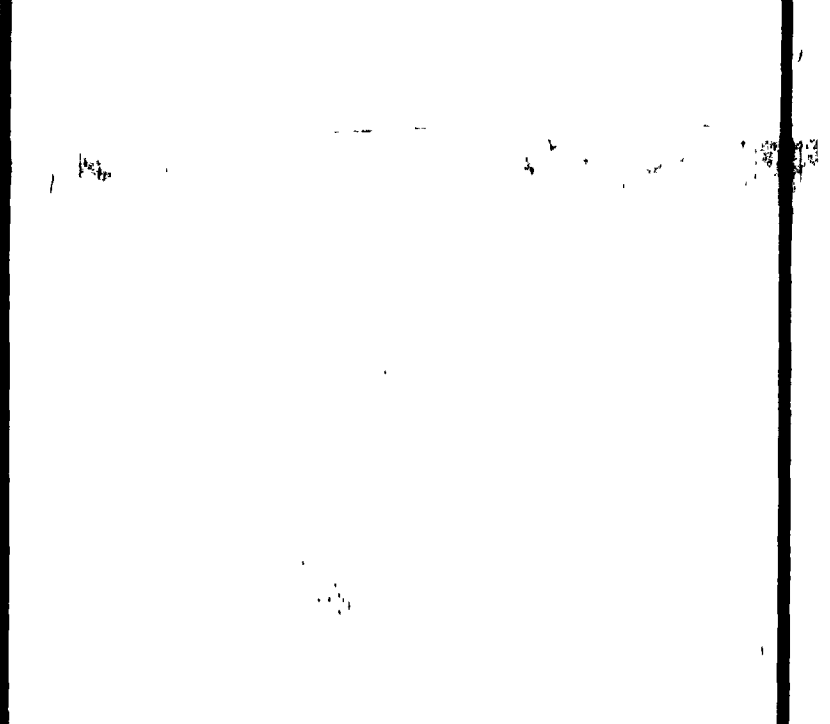
LEGEND

PATENTED LAND	⊙
CROWN LAND SALE	⊙
LEASES	⊙
LOCATED LAND	⊙
LICENSE OF OCCUPATION	⊙
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	—
IMPROVED ROADS	—
KING'S HIGHWAYS	—
RAILWAYS	—
POWER LINES	—
MARSH OR MUSKES	—
MINES	—
CANCELLED	—
LAND USE PERMITS FOR COMMERCIAL TOURISM OUTPOST CAMP	—

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY	
S.R.O. - SURFACE RIGHTS ONLY	
M. & S. - MINING AND SURFACE RIGHTS	
Description	Order No. Date Disposition File



AREA

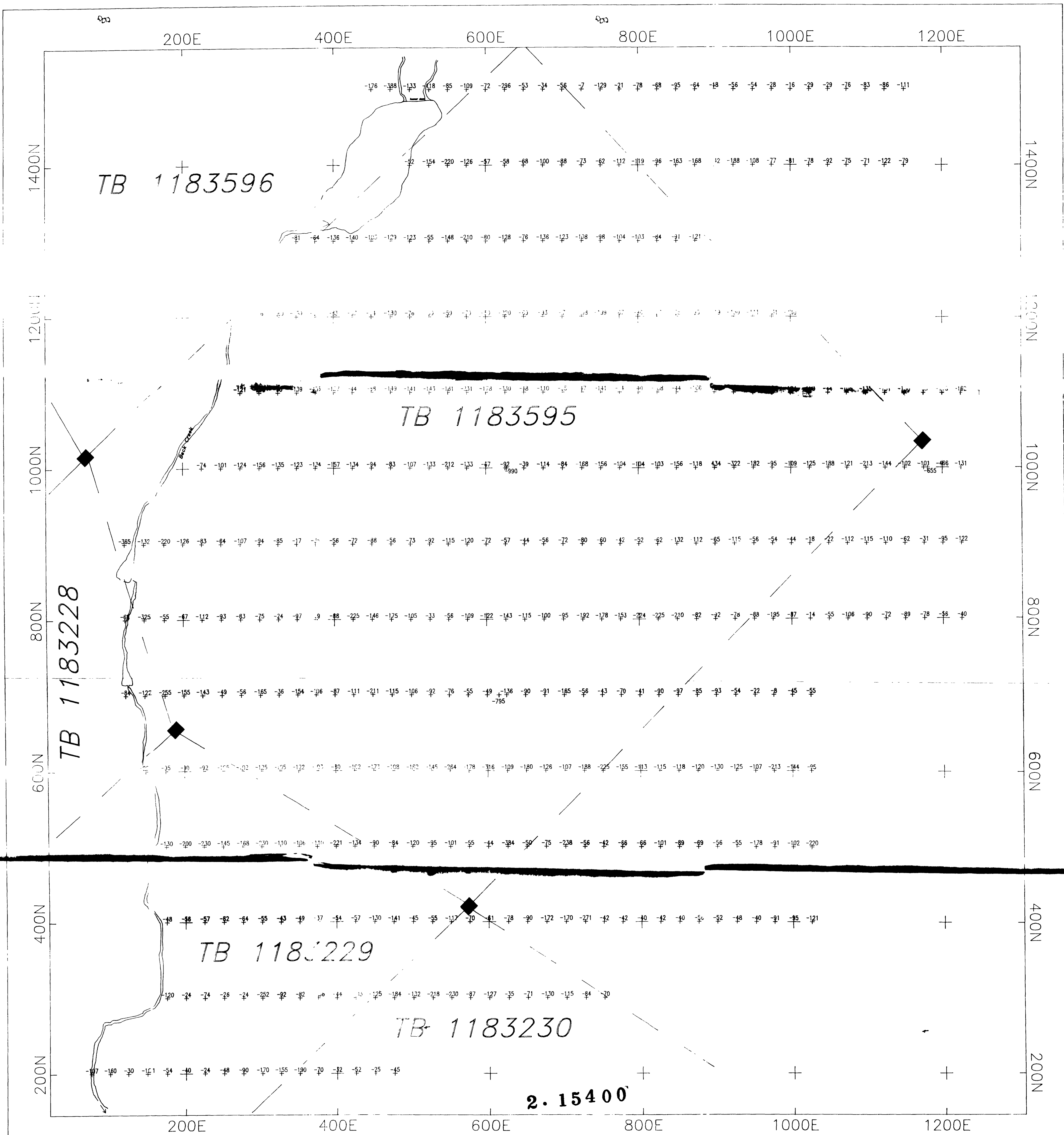
TARTAN LAKE

M.N.R. ADMINISTRATIVE DISTRICT
 THUNDER BAY
 MINING DIVISION
 THUNDER BAY
 LAND TITLES / REGISTRY DIVISION
 THUNDER BAY

Ministry of Natural Resources
 Ontario

Ministry of Northern Development and Mines

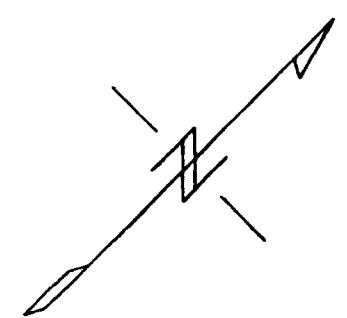
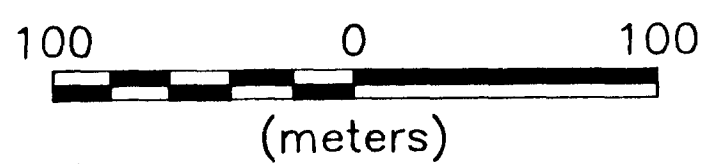
Date: JULY, 1991
 In Service July 23/93. **G-2706**

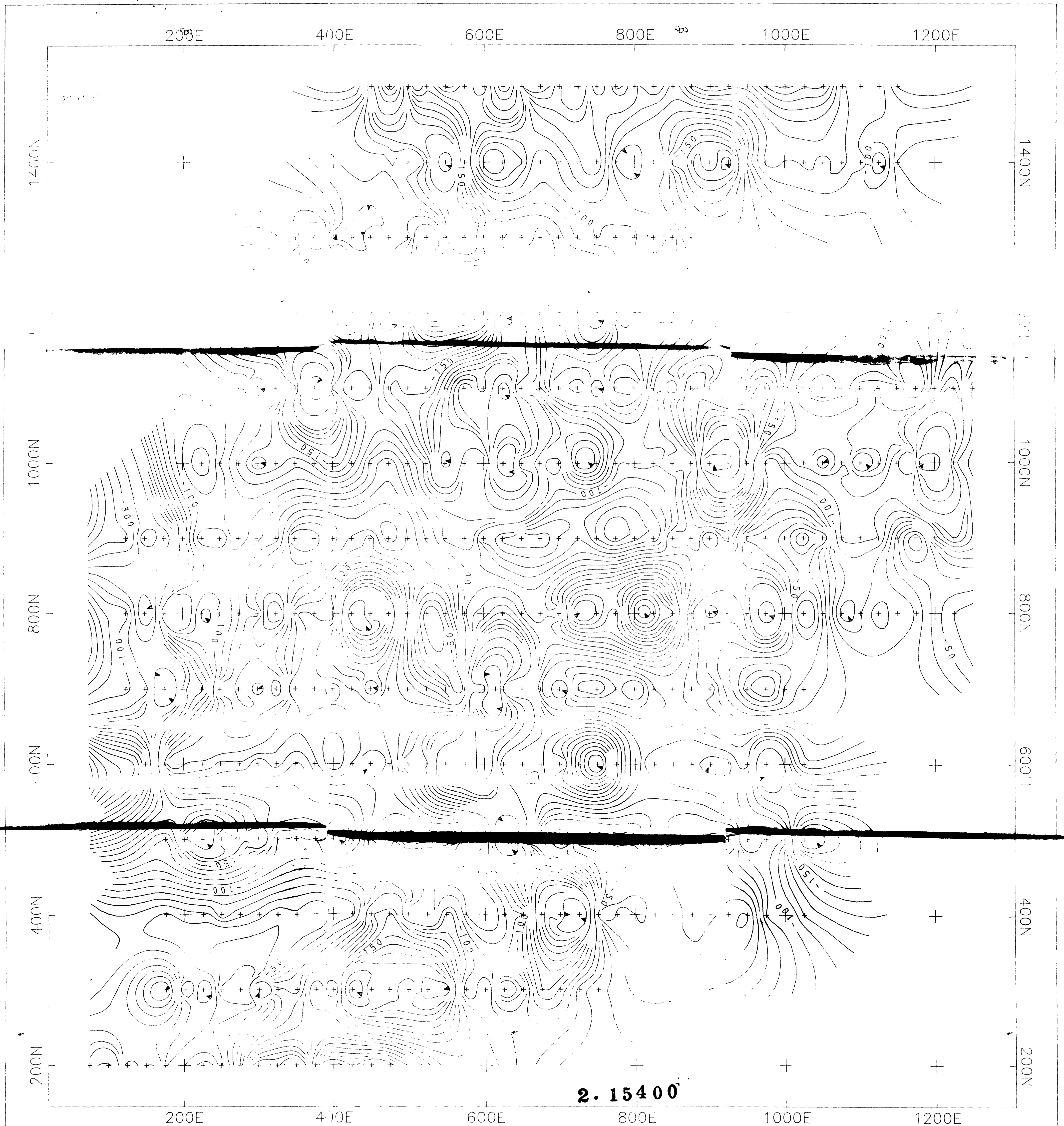


Pat-Ann Property

Beep Mat Survey (Frequency Variation Values)

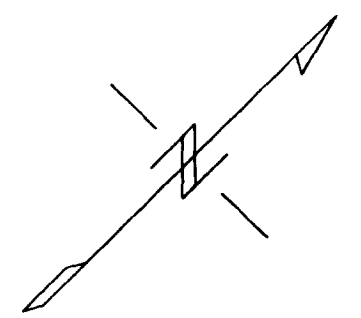
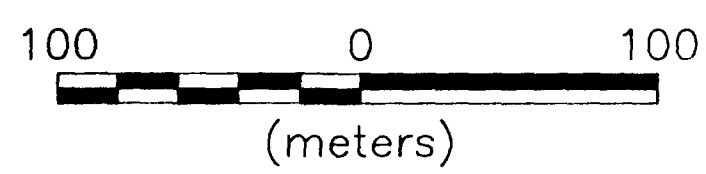
Surveyed By
D. Christianson
June, 1993



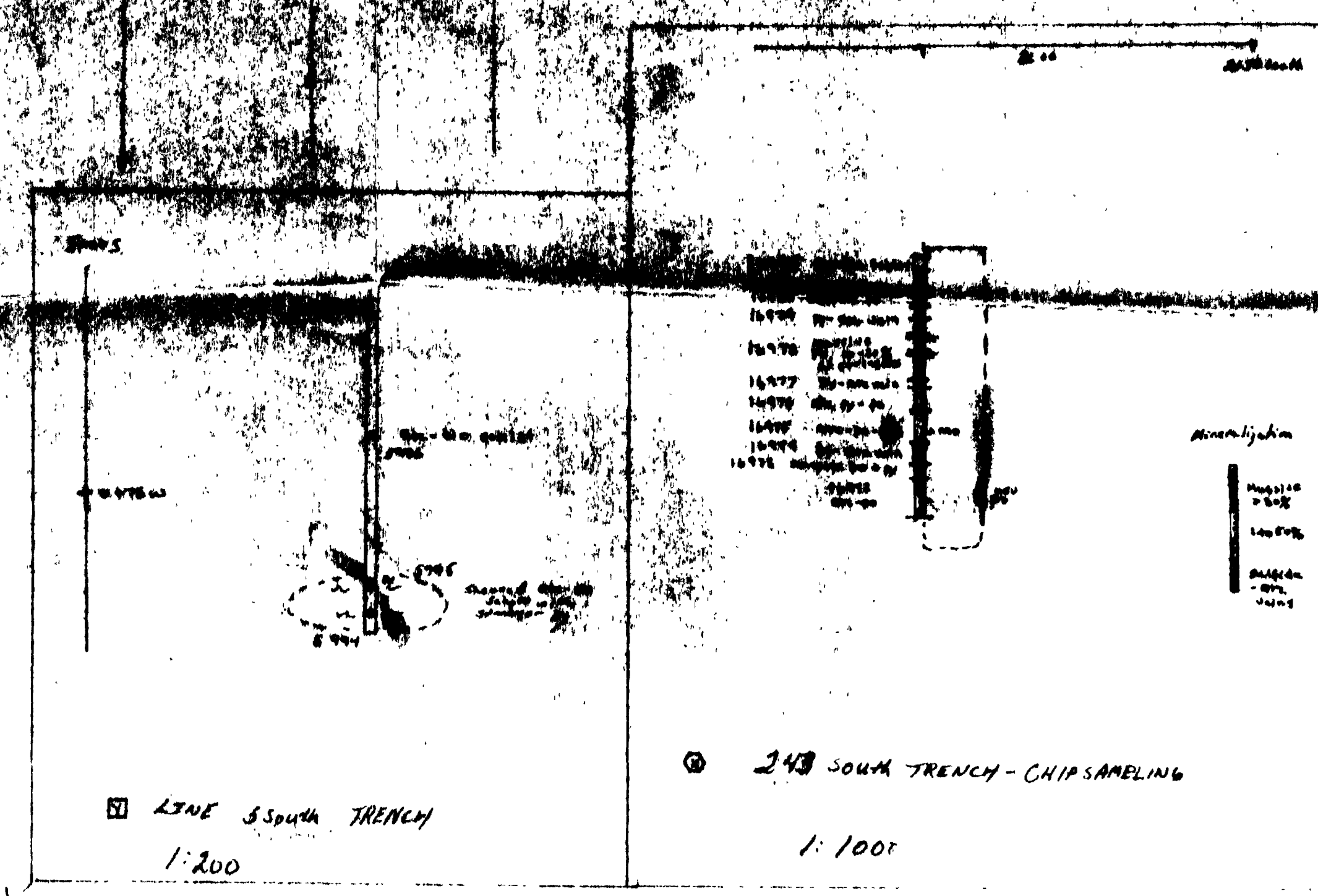
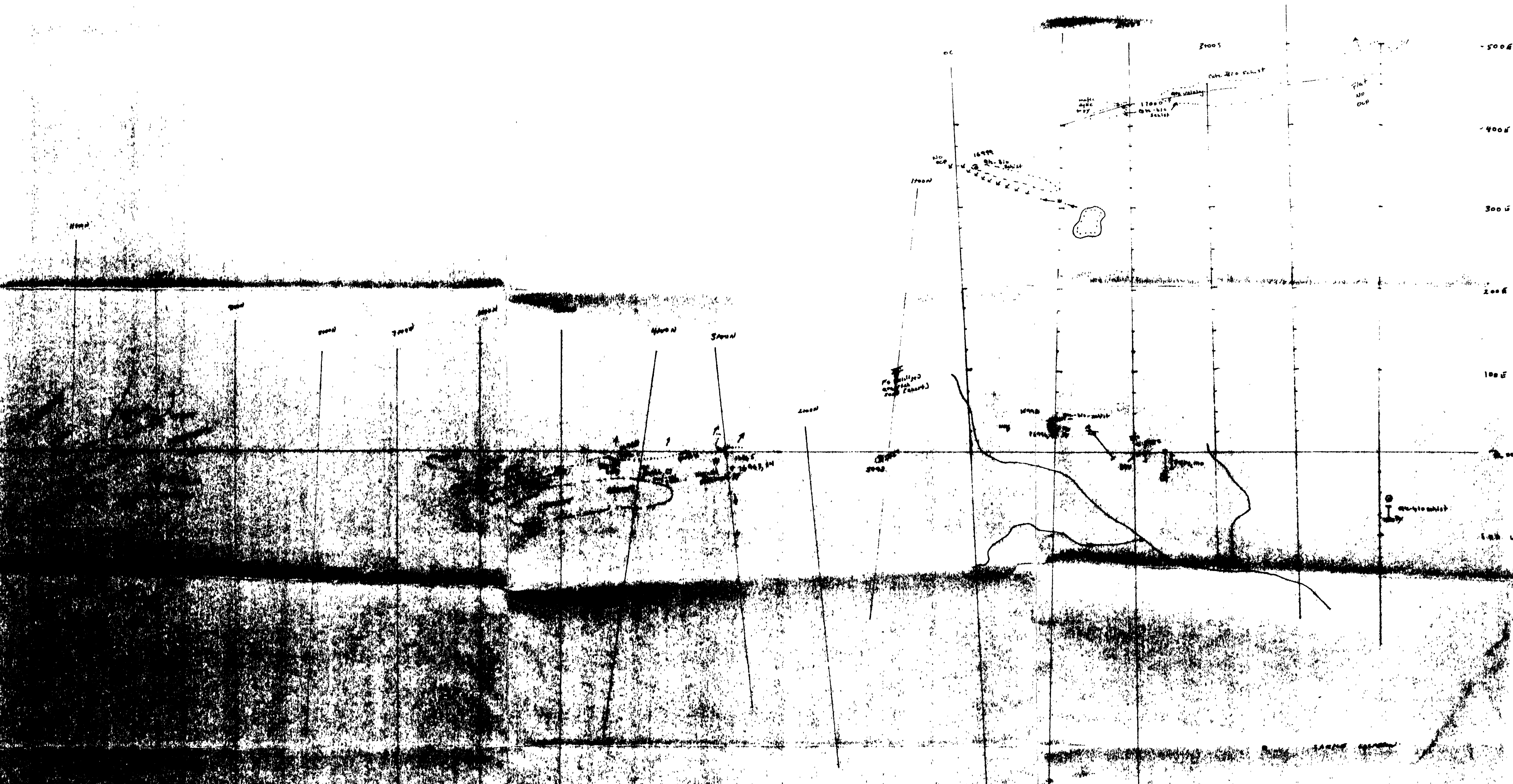


Pat Ann Property

Beep Mat Survey (BM II)
 Surveyed By:
 D. Christianson
 June, 1993
 Contoured Frequency Variation

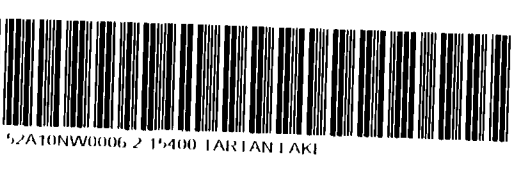


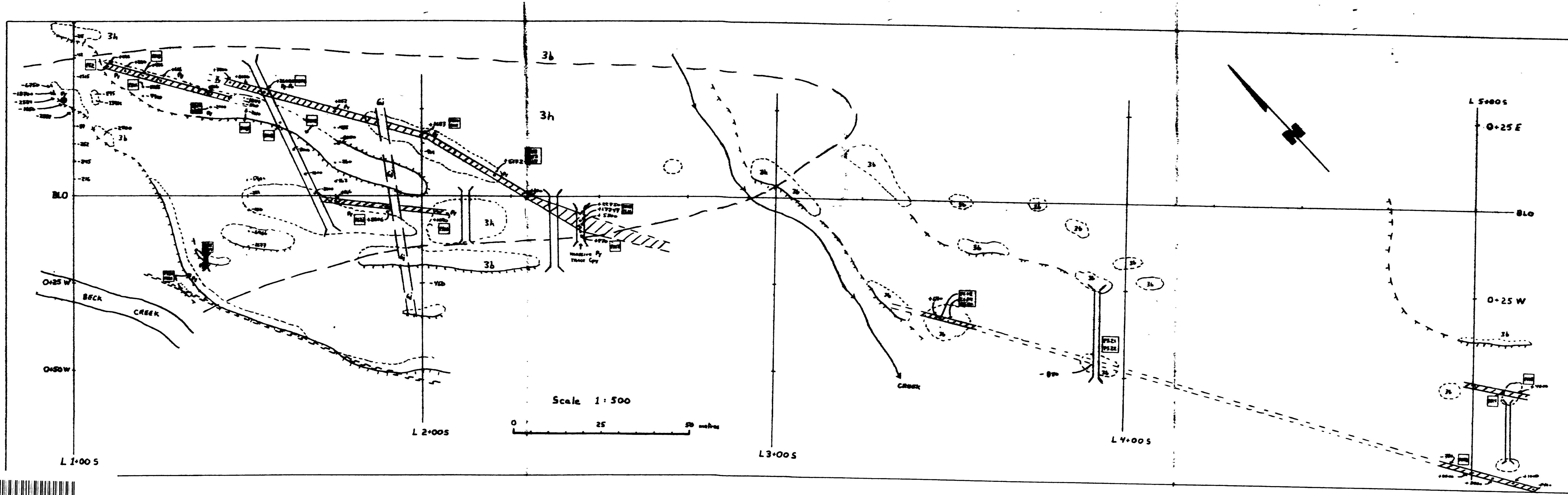
600
500
400
300
200
100
0



2.15400

"T-3 Series"
Sample Location Map
Pat/Ann Property
Scale: 1:2500
J. J. Johnson
Sept. 1973





LEGEND

- METASEDIMENTS**
 3b Banded
 3h Cherty limestone
 GJ Syenitic intrusion
- MINERALS**
 Py Pyrite
 P Pyrochlore

- SYMBOLS**
- Geological contact
 - ||||| Conductive zone
 - Outcrop
 - ~ Small cliff
 - ∇ Downhill
 - || Trench (old)
 - ☐ Sample number
 - +2000 BEEP MAT Outcrop
 - Previous sample with 2g Au/ton
 - SHEAR ZONE FROM BECK CREEK FAULT

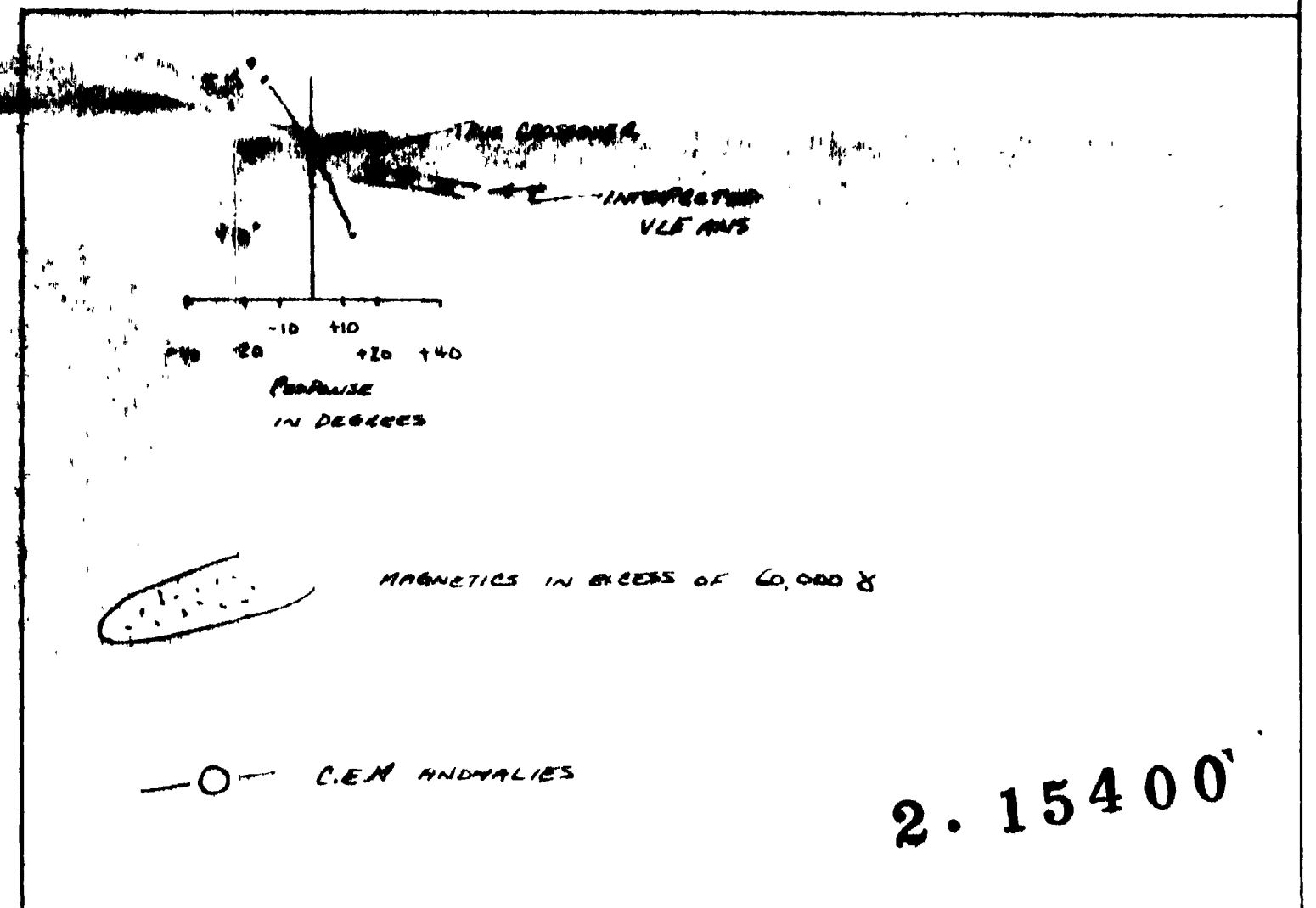
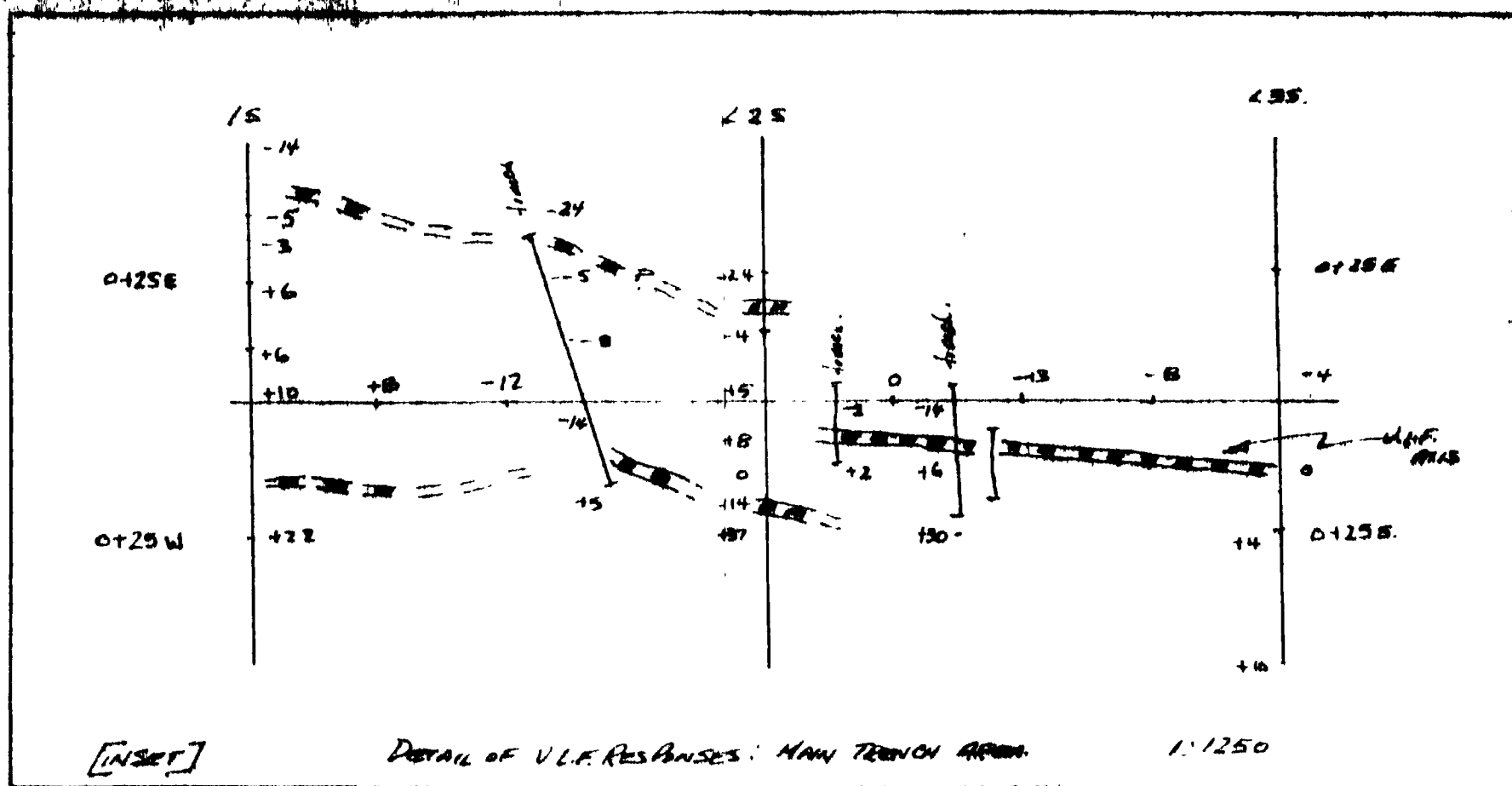
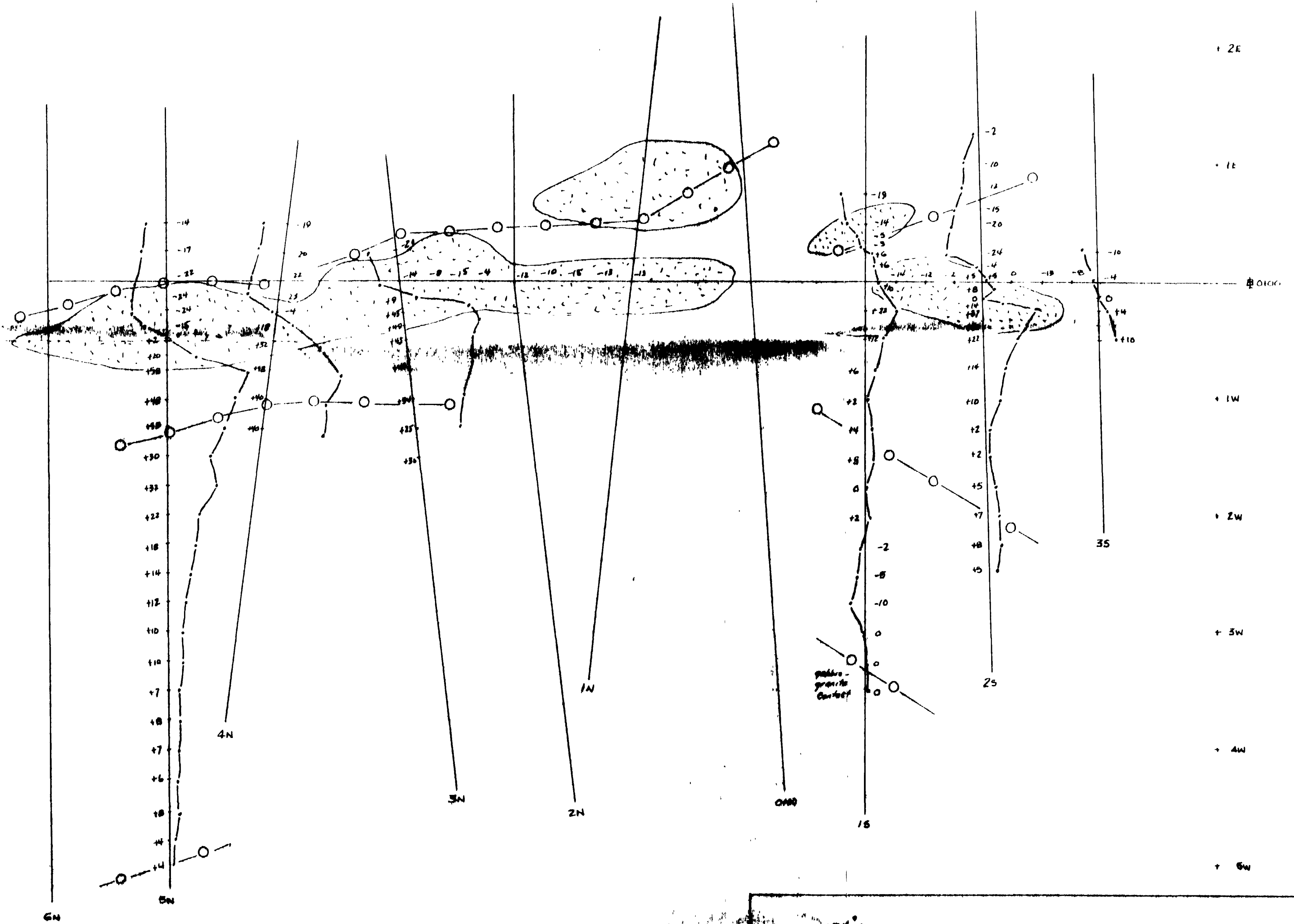
PAT/ANN PROPERTY

DETAILED MAP
 OF CONDUCTIVE
 HORIZONS AND
 SAMPLE LOCATIONS

[Signature] 09/93

2.15400





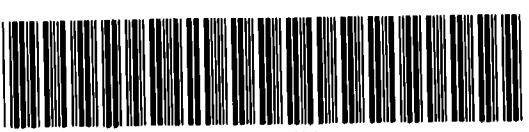
V.L.F. SURVEY
(PHOENIX ULF-2)

PAT/ANN PROPERTY

for OPAP: OPAS-09B

SCALE 1:2500

Christianson 02/93



LEGEND

FELSIC INTRUSIVE ROCKS

6h Pegmatitic
6c Granite

MAFIC INTRUSIVE ROCKS

4b Gabbro

METASEDIMENTARY ROCKS

3b Bedding (Quartz-biotite-schist; Quartz-biotite-sericite schist)

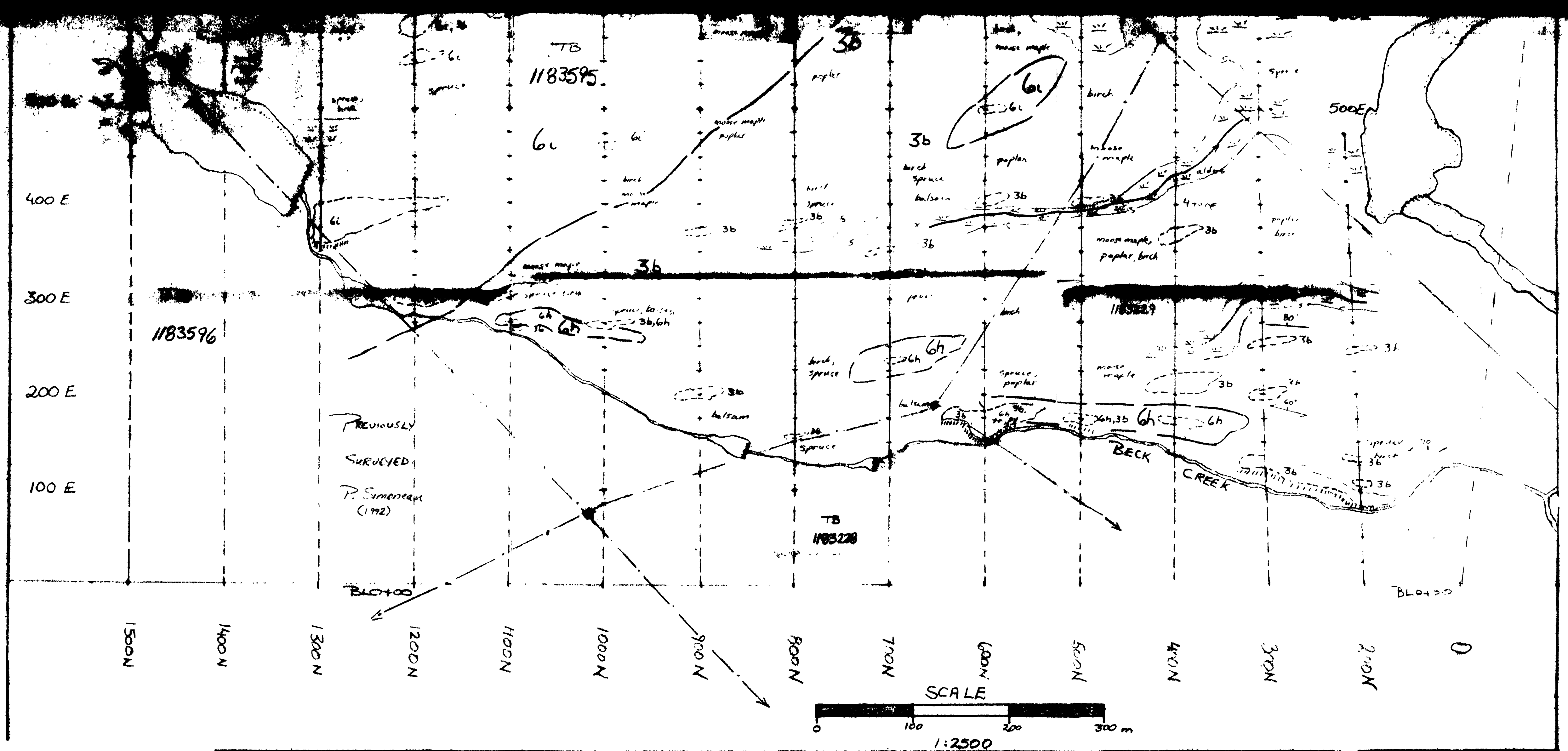
Minerals

Mt - Magnetite
Py - Pyrite

Symbols

Geological Contact
B-Hing
Creek
Fond
Beaver Dam
Cliff
Claim Post, Reserved, Inferred
Claim Line

Christianson: June 1958
Legend modified after P. Simoneau (1992)



"PAT ANNI" GEOLOGY N.E. P. KAPREVY
2. 15400