



41104NE0054 OP93-543 CURTIN

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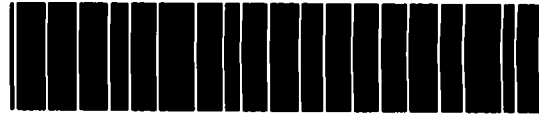
OPAP OP93-543
GEOLOGICAL AND GEOPHYSICAL REPORT
CASSON LAKE PROPERTY
CURTIN TOWNSHIP
SUDBURY MINING DIVISION
SUDBURY DISTRICT

by

ROBERTA BALD, M.Sc., F.G.A.C.

JANUARY 22, 1994

LIVELY, ONTARIO



41104NE0054 OP93-543 CURTIN

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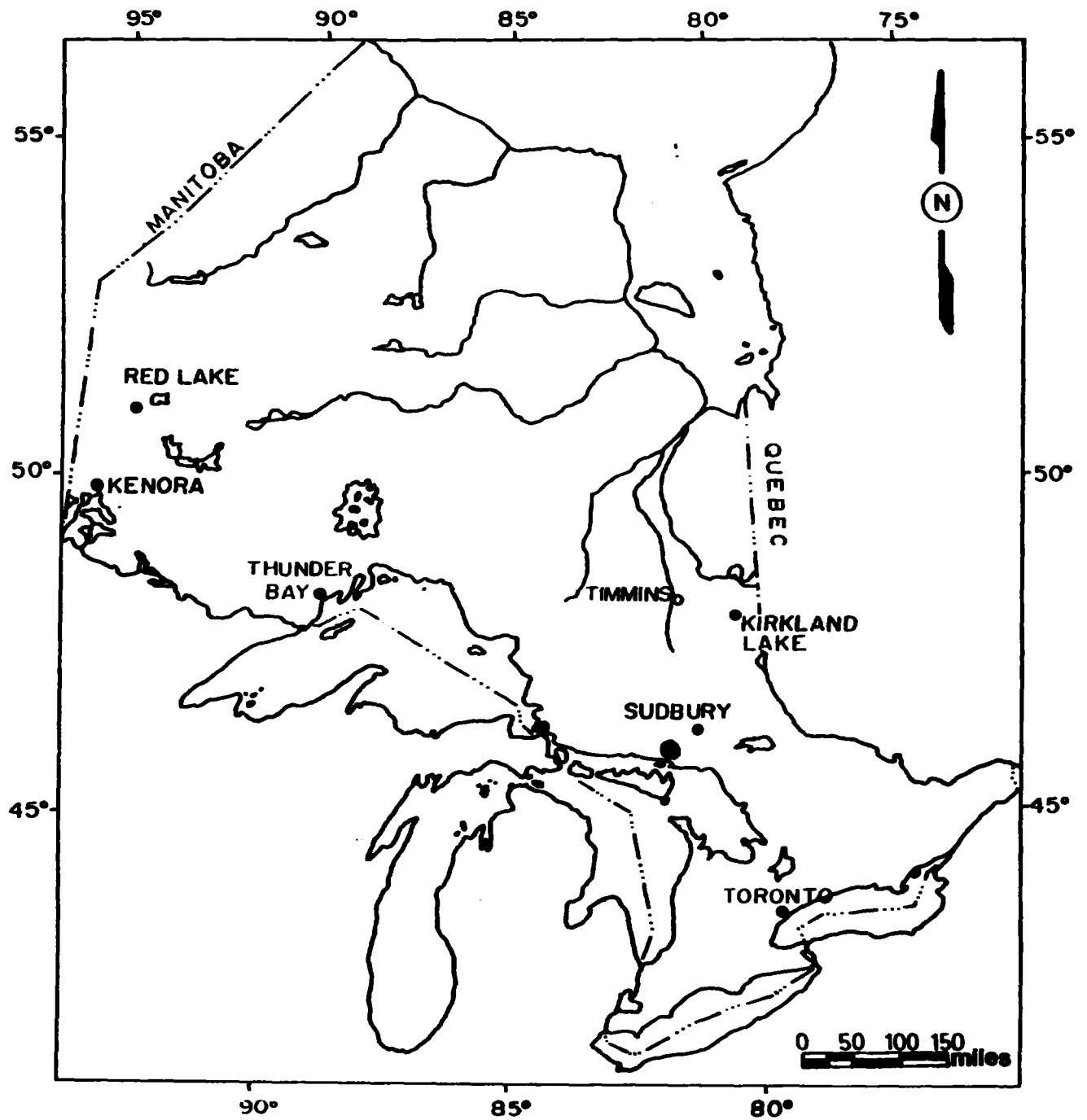
LOCATION

The Casson Lake claim group is located about 65 km west of the city of Sudbury, Ontario (Figure 1 and 2). The property was staked to cover a section of an easterly-trending Nipissing metagabbro sill-like body about 250 m wide which hosts or is associated with copper, nickel and platinum group elements mineralization within the sill itself or gold mineralization within the Huronian sediments near the sill margins.

The claim group extends roughly 6 kilometers west from the eastern boundary of Curtin Township near the center of the township (Figure 3, back pocket). It lies in the Sudbury Mining Division, in the District of Sudbury. At least three small lakes lie within the claim group. An all-terrain vehicle road runs along the length of the two westernmost claims of the property, and goes through the past-producing Bousquet gold mine site. The claims are shown on claim map sheet G-3005 and NTS map sheet 41 I/4. The center of the claim group is located at 81°36' longitude West and 46°9' latitude North.

ACCESS

The property can be reached from the town of Espanola by travelling 16 km south on Highway 6 to an all-season road (locally known as the Knights of Columbus Road) that runs due east. In the spring, a boat would be used to go from Charlton Lake, through Howry Creek then to a small unnamed lake just south of the claim group. From there, an all-terrain vehicle trail crosses the entire



ONTARIO

**LOCATION
MAP**

fig. 1

Date: Jan. 1993

Scale: 1" = 150 miles

By: R. Bald

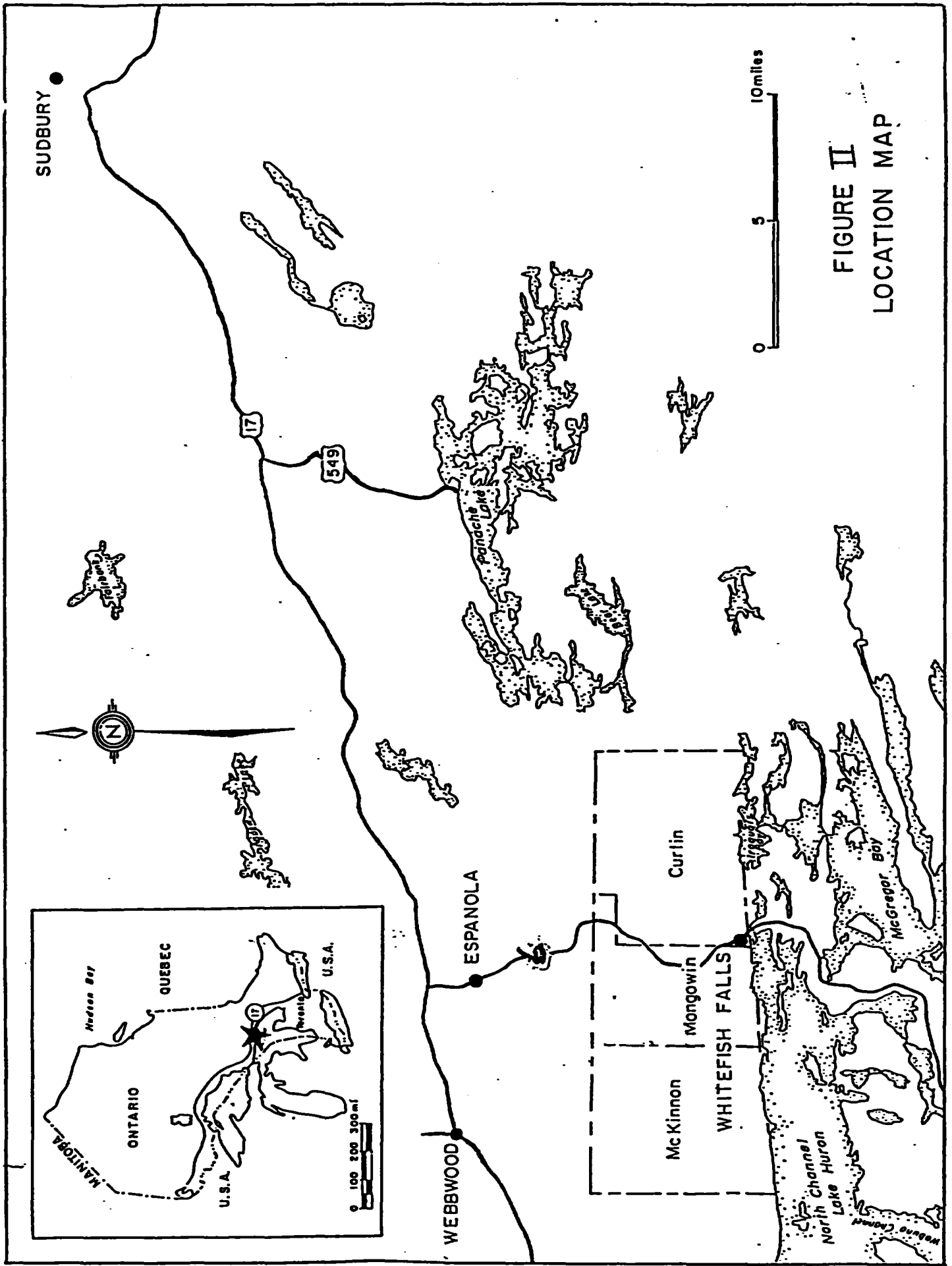


FIGURE II
LOCATION MAP

property. During the drier months, Howry Creek is not accessible and thus access would be obtained by boat to Miller Bay on Charlton Lake, then using all-terrain vehicles on the trail across the property.

OWNERSHIP OF THE CLAIMS

The fifteen claims are numbered as follows: S895241 to S895243 inclusive, S984683 to S984689 inclusive, S993985, S994573, S1136064, S1179657 (4 units) and S1179658 (14 units). These claims are jointly held by Dan Brunne and Roger Stringer, and an agreement between the author, Mr. Brunne and Mr. Stringer was made on March 21st, 1993, which enables the author to earn an ownership interest in all the claims described in this report. Most of the work done during this OPAP project were done on claims S1179658 and S1179658.

PREVIOUS WORK

At least three known gold showings occur on the property: the Bousquet Mine Occurrence, The Howry Creek Mine Occurrence and the Bridger Pond Occurrence. They occur in the Huronian sediments, locally close to the Nipissing gabbro contact.

In 1990 and 1991, power stripping and sampling were done on the present claims, south of Casson Lake, by Dan Brunne and Roger Stringer. Assays were also included in the report, with the highest results as follows: 0.051 oz/ton Au; 3400 ppb Pt; 4507 ppb Pd; 8400 ppm Cu; and 3400 ppm Ni.

In 1988, linecutting, geology and sampling with assays, and

magnetometer and VLF-EM surveys were done by Roger Stringer on 11 of the most easterly claims.

In 1987, a combined helicopter-borne magnetic gradiometer and VLF-EM survey was done over an area centered just north of Casson Lake. The survey was done by Aerodat Limited for Stringer Explorations Ltd.

In 1987, BP Resources acquired 100% of a group of leased claims covering the west part of the present claim group. They did airborne and ground geophysics, linecutting and diamond drilling. Although the information was not filed with the Resident Geologist's office, the author has been told by Dan Brunne, who worked for BP during this time and who is one of the other co-holders of the present claim group, that some high PGE values were obtained during the drilling. The claims were abandoned in early 1993 since BP Resources closed shop.

During the 1970's, platinum, palladium and gold associated with copper and nickel sulphide mineralization were found in the Curtin Township Nipissing gabbro sill by Dr. Fred Jowsey and prospectors Stan White and Charles Myles. The discovery was drilled and some sections containing low copper and nickel with some PGEs were located.

GEOLOGY

The property is underlain by Huronian metasediments of the Gowganda Formation intruded by a Nipissing gabbro sill about 250 m wide. The sediments consist mainly of white to pink coloured

quartzite, but locally other units were observed: dark green to grey, fine-grained, locally finely laminated argillite; and conglomerate containing argillite and quartzite pebbles. A narrow mafic, magnetic dike was mapped in the Rainbow power stripped areas and coincides with the gold-bearing shear zone. A northwesterly-trending breccia zone was also noted in the western portion of the property. Part of this unit was mapped in the Pink Breccia power stripped area.

The gabbro sill is heterogeneous, fine to coarse-grained, locally pegmatoidal and locally magnetic. In one previously power stripped area, south of Casson Lake, local areas of coarser-grained material occur as distinctive "nodules".

WORK DONE

The pre-existing grid covering a portion of claims S1179657 and S1179658 cut in 1987 by BP Resources was re-established over land. The central portion of the grid is between two areas of swampy lakes. This portion of the property will be surveyed in the winter. Re-establishing the grid took longer than anticipated mainly because the six-year old lines were not blazed. However, most of the pickets were located, with careful searching. The lines were geologically mapped (Figure 3, back pocket). Over 70 samples were taken by the author, 45 of which were analyzed for a combination of gold, platinum, palladium, nickel, copper, ICP multi-element analyses and whole rock analysis. 26 samples, taken by Roger Stringer, and which had been analyzed for either platinum,

and palladium, gold, or nickel and copper during his concurrent OPAP project, were subsequently analyzed during this project for whole rock and/or ICP multi-element package. One sample, # 150, from the high platinum zone on the AN-3 trench area, south of Casson Lake, on claim 984683, was analyzed for gold, platinum, palladium, whole rock and ICP multi-element package. Appendix 1 contains the assay certificates and the results of the ICP multi-element and the whole rock analyses, as well as sample locations and descriptions. One day was spent looking at thin sections from the gabbro sill. Some of the thin sections were made available to the author by M. Cosec of the Resident Geologist's office while others were from Dr. R. James and Dr. D. Peck from Laurentian University.

A VLF-EM survey was done on the grid, using Cutler, Maine as the station (Figure 4, back pocket). A total of 608 readings were taken, over 11.925 km of cut line. The survey was performed intermittently between June 22nd and September 3rd, 1993. The VLF-EM data was Fraser filtered and plotted, in order to pinpoint the conductors (Figure 5, back pocket). Appendix 2 contains the instrument specifications.

Several areas on the property were power stripped during Roger Stringer's concurrent OPAP project. Four of these areas were washed with a high-pressure washer and mapped in detail: the Pink Breccia area and Rainbow-1, Rainbow-2 and Rainbow-3 areas (Figure 6, back pocket).

Pink Breccia Area

An area east of L27E, 2+00N, called the Pink Breccia area, was mapped at a scale of 1:200. Several samples were taken but only one was analyzed for gold, platinum, palladium and the ICP multi-element package.

"Rainbow" shear zone: Rainbow-1, Rainbow-2 and Rainbow-3

A previously trenched gold-bearing shear zone, was located at L48E, 1+25N, during the mapping. This area was power stripped and called the Rainbow-1 area. Two more areas along strike were power stripped: near L49E, 1+00N, called Rainbow-2, to the southeast of Rainbow-1; and near L47E, 1+75N, called Rainbow-3, to the northwest of Rainbow-1. Extensive sampling of this gold-bearing shear zone indicates that it appears to be less than one metre wide but extends over 450m along strike. The highest gold value obtained was from a weathered piece of float taken by Cameco geologists during a property visit, and assayed 1.27 oz/ton Au. It was taken on the Rainbow-2 power stripped area, and reported in Roger Stringer's 1993-94 OPAP report.

The VLF-EM survey located several conductors, outlined by Fraser filtering the VLF-EM data, which are described in Table 1. The most significant VLF-EM conductors appears to be conductors B and M. These conductors occur in the same relative position within the gabbro sill, that is near the center, possibly indicating a layering of the sill. The conductors could possibly be caused by a concentration of sulphide or oxide along this horizon in the sill.

TABLE 1: Description of the VLF-EM conductors

Conductor A	one station	L26E	075N	no o/c; no apparent reason
Conductor B	over 400m	L24E-L28E	025S-025N	middle of gabbro sill; o/c
Conductor C	one station	L25E	050S	swamp
Conductor D	over 100m	L27E-L28E	100S-075S	possible topo
Conductor E	one station	L36E	025N	creek/lake
Conductor F	one station	L36E	225N	gabbro o/c
Conductor G	over 1100m	L37E-L48E	100N-250N	several conductors ?; S of mine shaft
Conductor H	over 1000m	L38E-L48E	050N-200N	creek/topo
Conductor I	one station	L39E	400N	swamp
Conductor J	one station	L39E	225N	topo?
Conductor K	one station	L40E	300N	gabbro o/c
Conductor L	over 100m	L42E-L43E	400N-425N	no o/c
Conductor M	over 100m	L42E-L43E	325N	middle of gabbro sill; no o/c
Conductor N	over 200m	L45E-L47E	350N	no o/c
Conductor O	over 900m	L46E-L55E	450N-525N	topo? along road
Conductor P	one station	L49E	150N	no o/c; in seds
Conductor Q	one station	L50E	200N	no o/c
Conductor R	over 200m	L51E-L53E	100N-075N	swamp/topo

RESULTS

The most significant result obtained from this project was the location of the previously trenched but apparently unreported gold-bearing shear zone, which extends from west of L47E to east of L51E, and trends from 110° to 130° AZ. The full extent of this zone is unknown.

Whole rock analyses of samples from the PGE-bearing gabbro sill, performed during this project, will be manipulated in order to determine the platinum group element potential. The copper-palladium ratios will be especially important (Barnes, et al., 1993).

The VLF-EM conductors will be field checked next summer for possible high sulphide zones in the gabbro, as well as possible gold-bearing shear zones, although the Rainbow shear zone was not located during the VLF-EM survey. The fact that the Rainbow Shear zone appears to be associated with a magnetic, mafic dike indicates that its extent may be successfully traced by doing a detailed magnetometer survey. A magnetometer survey had been planned for this project but unfortunately, was not performed because of lack of time. However, a survey is planned for the winter of 1994, based on the findings of this OPAP project.

RECOMMENDATIONS

1- VLF-EM should be done over the water portions of the grid during the winter, in order to extend the conductors located during this project.

2- The magnetometer survey of the grid should be done including the portions over water. Special attention should be paid to the Rainbow shear zone, and any other magnetic zones located during the survey. The mag survey may possibly give the best results by having readings taken every 12.5m instead of the present 25m interval. This should be done to locate narrow zones such as the Rainbow shear zone.

3- A compilation of all the available data should be done, preferably using AutoCAD.

4- The whole rock data of the gabbro should be manipulated with a view to indicate PGE potential of the sill. One way to do this is to plot the copper/palladium ratios as outlined in Barnes, et al., 1993.

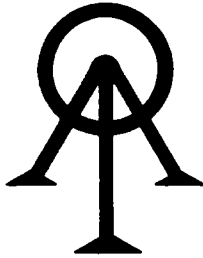
5- Prospecting should be done in the sediments in order to locate zones similar to the Rainbow zone. Magnetometer data may also be useful for this purpose.

REFERENCES

Barnes, S.-J., Couture, J.-F., Sawyer, E.W. and Bouchaib, C., 1993: Nickel-Copper Occurrences in the Belleterre-Angliers Belt of the Pontiac Subprovince and the Use of Cu-Pd Ratios in Interpreting Platinum-Group Element Distributions; *Economic Geology*, vol. 88, pp. 1402-1418.

Card, K.D., 1976: *Geology of the Espanola-Whitefish Falls Area, District of Sudbury, Ontario*; Ontario Geological Survey, Report 131, 70 p. Accompanied by Maps 2311, 2312, scale 1:31,680 or 1 inch to 1/2 mile, and 2 charts.

APPENDIX 1



ACCURASSAY LABORATORIES

(A DIVISION OF ASSAY LABORATORY SERVICES, INC.)

ENVIRONMENTAL CHEMISTS, ANALYTICAL CONSULTANTS, MINERAL ASSAYERS

Box 426, 3 Industrial Dr., Kirkland Lake, Ontario, Canada P2N 3J1 - Tel.: (705) 567-3361

Branches at Thunder Bay, Timmins

Fax: (705) 568-8368

President: Dr. George Duncan, M.Sc., Ph.D., M.C.I.C., M.R.S.C., C. Chem. (Ont.), C. Chem. (UK), A.R.C.S.T.

Ms. Roberta Bald,
P.O. Box 1572,
LIVELY, Ontario,
POM 2E0.

February 4, 1994.

Dear Roberta,

ICAP - WHOLE ROCK ANALYSIS.

It would appear that, in the rush to complete some of your whole rock and ICAP analysis on January 28th, 1994, that some data was transposed on the computer template. As a result, some of the certificates contain incorrect information and have been replaced as follows:-

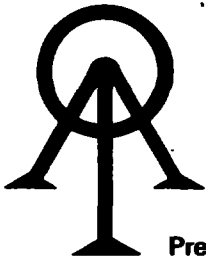
ICAP Analysis	Original Certificate #	Replaced by Certificate #
	49821	49864
	49822	49865
	49823	49866
	49826	49862
	49827	49863
Whole Rock Analysis	49828.	49859
	49829	49860
	49830	49852

The revised certificates are enclosed. Please destroy the original certificates to avoid further confusion.

I apologize for any inconvenience this may have caused. If you require any further information, please do not hesitate to call me at 1-705-567-3361.

Yours Sincerely,

Gordon Collings.
Laboratory Manager.



ACCURASSAY LABORATORIES

A DIVISION OF BARRINGER LABORATORIES LIMITED, REXDALE, ONTARIO

BOX 426

KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1

TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

47570

Certificate of Analysis

Ms. Roberta Bald
P.O. Box 1572
LIVELY, Ontario
POM 2E0

Page 1
September 16, 1993

P.O. #: _____
Work Order #: 934390
Sample Date: September 9, 1993

Customer #	Au ppb	Au Oz/T	Pt ppb	Pd ppb
00026	13	<0.001	<15	18
00027			54	101
00028	5	<0.001		
00029	<5	<0.001		
00030	13	<0.001		
00031	<5	<0.001		
00032	<5	<0.001		
00033	435	0.013		
00034	14	<0.001		
00035	3007	0.088		
00036	141	0.004		
00037	8	<0.001		
00037 check	7	<0.001		
00038	57	0.002		
00051	<5	<0.001	<15	<10
RB-5-93			<15	13
RB-6-93			37	40
RB-8-93			<15	15
RB-10-93			28	13
RB-11-93			<15	10
RB-16-93			<15	14
RB-18-93			<15	25
RB-18-93 check			<15	25
RB-19-93			17	108



Per: _____

G. Duncan



X-RAY ASSAY LABORATORIES

A DIVISION OF SGS CANADA INC.

1885 LESLIE STREET • DON MILLS, ONTARIO M3B 3J4 • CANADA
TEL: (416)445-5755 TELEX: 06-986947 FAX: (416)445-4152

CERTIFICATE OF ANALYSIS REPORT 25382

TO: ROBERTA BALD
BOX 1572
LIVELY, ONTARIO
POM 2E0

CUSTOMER No. 2615
DATE SUBMITTED
1-Dec-93

REF. FILE 16906-L4

Total Pages 4

24 ROCKS, 2 CRUSHED ROCKS

	METHOD	DETECTION LIMIT		METHOD	DETECTION LIMIT
AU-1AT PPB	FADCP	1.	AS PPM	ICP	3.
BE PPM	ICP	.5	SR PPM	ICP	.5
NA %	ICP	.01	Y PPM	ICP	.1
MG %	ICP	.01	ZR PPM	ICP	.5
AL %	ICP	.01	MO PPM	ICP	1.
P %	ICP	.01	AG PPM	ICP	.1
K %	ICP	.01	CD PPM	ICP	1.
CA %	ICP	.01	SN PPM	ICP	10.
SC PPM	ICP	.5	SB PPM	ICP	5.
TI %	ICP	.01	BA PPM	ICP	1.
V PPM	ICP	2.	LA PPM	ICP	.5
CR PPM	ICP	1.	TA PPM	ICP	1.
MN PPM	ICP	2.	W PPM	ICP	10.
FE %	ICP	.01	PB PPM	ICP	2.
CO PPM	ICP	1.	BI PPM	ICP	3.
NI PPM	ICP	1.	PT-1AT PPB	FADCP	10.
CU PPM	ICP	.5	PD-1AT PPB	FADCP	1.
ZN PPM	ICP	.5			

*** UNLESS INSTRUCTED OTHERWISE WE WILL DISCARD PULPS IN 90 DAYS ***
AND REJECTS IN 30 DAYS FROM THE DATE OF THIS REPORT

DATE 09-Dec-93

CERTIFIED BY 
Jean H.L. Opdebeek, General Manager



SAMPLE	AU-1AT PPB	BE PPM	NA %	MG %	AL %	P %	K %	CA %	SC PPM
006	4680	<.5	.09	.16	.12	.05	.05	.53	.7
021	2860	2.0	.02	3.52	3.49	.08	.23	.19	11.3
039	89	.5	.09	.86	.32	.02	.06	1.33	6.4
040	65	.5	.09	.50	.35	.02	.08	.80	1.9
041	26	1.7	.03	5.91	.09	.01	.02	7.52	29.3
042	319	.8	.08	3.79	.12	.03	.02	8.07	20.4
043	1790	1.0	.07	2.47	.57	.05	.06	4.25	15.3
126	93	1.4	.05	2.73	1.82	.08	.23	4.21	5.4
127	13	1.0	.09	2.72	.41	.07	.23	5.02	17.3
128	29	.6	.09	1.63	.37	.07	.04	2.88	14.6
129	226	1.3	.06	1.65	.35	.07	.10	4.20	19.5
130	279	1.3	.07	.84	.45	.04	.06	1.12	14.7
131	118	1.3	.09	1.06	1.56	.10	.22	.60	9.1
132	269	.8	.11	.66	.41	.06	.05	.88	10.5
133	98	<.5	.02	.02	.03	<.01	<.01	.03	<.5
134	10	<.5	.03	.37	.01	<.01	<.01	.89	2.7
135	210	.8	.08	1.72	.19	.02	.08	3.68	10.5
136	7	<.5	.11	.88	.20	.03	.05	1.98	4.4
137	368	<.5	.05	.83	.88	<.01	.08	.40	1.4
138	402	.5	.04	.71	.81	.01	.11	.39	1.6
139	275	.6	.04	1.20	1.33	.02	.06	.57	1.5
140	665	.7	.04	1.03	1.14	.01	.09	.36	1.4
141	72	<.5	.03	1.48	1.47	.02	.07	.38	2.0
142	179	.6	.04	1.48	1.50	.01	.15	4.40	2.8
143	165	.5	.04	1.04	1.13	.02	.11	.41	2.2
RB-17-93	7	<.5	.08	.17	.12	.05	.05	.54	.7
D 006	5070	<.5	.08	.16	.12	.05	.05	.53	.7
D 131	122	1.4	.09	1.07	1.57	.10	.22	.62	9.1
D 143	174	.5	.03	1.03	1.11	.02	.11	.39	2.1

AU-1AT PPB - ASSAY PERFORMED ON 30 GRAM ALIQUOT
D - QUALITY CONTROL DUPLICATE

SAMPLE	TI %	V PPM	CR PPM	MN PPM	FE %	CO PPM	NI PPM	CU PPM	ZN PPM
006	<.01	4	133	111	1.33	51	62	31.9	56.0
021	.01	151	67	314	9.49	55	161	14.8	79.9
039	.01	37	146	651	2.77	30	49	6.1	4.9
040	<.01	11	148	186	2.16	144	86	5.1	1.9
041	<.01	43	51	6410	12.3	35	71	3.3	5.6
042	<.01	34	86	1650	5.07	188	125	5.1	.8
043	.01	38	92	1480	5.88	203	141	6.2	4.4
126	.01	77	79	849	6.93	51	49	29.2	20.9
127	.04	150	95	2550	5.20	22	33	17.1	10.1
128	.02	55	123	1940	3.55	39	33	213	8.6
129	<.01	97	78	2420	7.23	55	50	14.8	3.5
130	.02	94	152	2700	7.04	147	116	14.5	8.6
131	.01	95	89	1130	5.48	38	60	32.2	13.7
132	.02	55	144	1520	4.52	76	91	8.3	4.8
133	<.01	5	218	54.0	.86	42	23	7.4	1.0
134	<.01	8	252	285	.96	13	8	5.3	2.5
135	<.01	38	122	1260	5.17	208	140	5.2	.8
136	<.01	14	161	613	1.60	13	16	22.7	2.8
137	.01	14	121	163	3.16	81	2240	6150	71.3
138	.01	16	120	151	3.08	72	2550	5990	68.4
139	.03	25	129	294	3.83	85	2100	5840	64.5
140	.03	24	133	236	4.36	76	2580	7160	70.7
141	.04	36	249	311	2.94	43	816	1820	41.1
142	.02	47	174	450	4.08	81	1690	6150	42.7
143	.03	28	190	231	3.26	76	1680	3850	50.8
RB-17-93	<.01	4	133	112	1.33	53	69	40.1	54.7
D 006	<.01	5	131	110	1.26	51	62	30.3	55.6
D 131	.01	96	89	1100	5.47	37	62	34.0	13.8
D 143	.03	28	186	221	3.28	76	1730	3880	51.5

D - QUALITY CONTROL DUPLICATE



SAMPLE	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM	AG PPM	CD PPM	SN PPM	SB PPM
006	380	8.8	2.2	15.8	<1	.3	<1	<10	5
021	186	4.1	2.7	12.8	<1	.2	<1	<10	5
039	<3	104	2.4	4.7	<1	.2	<1	<10	5
040	58	7.2	1.3	5.4	<1	<.1	<1	<10	5
041	<3	74.9	5.6	<.5	<1	1.2	<1	<10	5
042	133	49.5	4.4	7.5	<1	.5	<1	<10	5
043	67	51.6	5.2	10.0	<1	.7	<1	<10	5
126	20	43.8	6.9	9.6	<1	<.1	<1	<10	5
127	<3	66.3	3.8	6.0	<1	.4	<1	<10	5
128	3	59.4	4.4	6.9	1	.5	<1	<10	5
129	6	66.6	4.8	8.3	<1	.6	<1	<10	5
130	27	22.9	4.1	5.8	<1	.5	<1	<10	5
131	20	7.8	7.5	29.3	<1	.2	<1	<10	5
132	17	33.7	4.2	6.9	1	.3	<1	<10	5
133	27	1.4	.6	1.4	2	.4	<1	<10	5
134	5	14.6	.8	<.5	<1	.3	<1	<10	5
135	35	69.4	2.9	4.3	<1	.2	<1	<10	5
136	10	39.7	3.4	6.0	<1	.3	<1	<10	5
137	75	5.1	.9	.6	<1	1.8	<1	<10	5
138	43	5.4	1.1	1.8	<1	1.8	<1	<10	5
139	114	4.6	1.5	1.4	<1	1.8	<1	<10	5
140	55	3.9	1.5	1.2	<1	2.1	<1	<10	5
141	63	4.3	1.7	.9	<1	.7	<1	<10	5
142	198	10.6	2.7	3.1	<1	1.8	<1	<10	5
143	77	5.5	2.1	1.6	<1	1.3	<1	<10	5
RB-17-93	397	8.9	2.3	15.2	<1	.6	<1	<10	5
D 006	390	9.0	2.4	16.8	<1	.2	<1	<10	5
D 131	20	7.9	7.6	28.5	<1	.3	<1	<10	5
D 143	70	5.2	2.0	1.6	<1	1.3	<1	<10	5

D - QUALITY CONTROL DUPLICATE

SAMPLE	BA PPM	LA PPM	TA PPM	W PPM	PB PPM	BI PPM	PT-1AT PPB	PD-1AT PPB
006	12	7.9	<1	<10	2	3	<10	2
021	48	8.9	4	<10	<2	11	<10	1
039	811	3.4	2	<10	<2	3	13	7
040	49	3.7	<1	<10	<2	3	19	4
041	28	15.8	4	<10	6	3	<10	<1
042	18	4.6	<1	<10	<2	3	<10	<1
043	12	7.1	<1	<10	4	3	<10	<1
126	23	9.4	2	<10	<2	3	<10	<1
127	484	5.6	<1	<10	<2	3	<10	<1
128	670	4.8	2	<10	<2	3	<10	2
129	85	10.0	4	<10	3	3	<10	<1
130	64	8.7	2	<10	3	3	<10	<1
131	48	18.9	4	<10	<2	6	<10	<1
132	543	8.9	<1	<10	<2	3	<10	<1
133	19	5.0	1	<10	<2	3	11	7
134	209	3.0	<1	<10	3	3	<10	<1
135	19	5.2	1	<10	5	4	<10	5
136	9	7.7	2	<10	<2	3	<10	1
137	15	3.0	<1	<10	3	3	401	947
138	20	3.0	1	<10	4	3	411	1000
139	10	3.7	2	<10	3	3	359	749
140	15	3.7	3	<10	<2	3	541	1360
141	13	2.6	<1	<10	<2	3	143	207
142	27	5.3	2	<10	<2	3	288	443
143	21	3.6	3	<10	2	3	295	452
RB-17-93	11	7.4	<1	<10	3	3	<10	5
D 006	11	8.4	<1	<10	<2	3	<10	2
D 131	48	18.1	3	<10	<2	6	10	<1
D 143	20	3.3	2	<10	2	3	322	508

PT-1AT PPB - ASSAY PERFORMED ON 30 GRAM ALIQUOT
PD-1AT PPB - ASSAY PERFORMED ON 30 GRAM ALIQUOT
D - QUALITY CONTROL DUPLICATE



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 January 28, 1994

Work Order #: 934390B
 Date Received: January 5, 1994

Whole Rock Analysis

ICAP	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	MgO	CaO	Na ₂ O
BALD 027	50.76	12.59	10.09	9.85	9.61	2.09
BALD 031	48.46	12.41	14.54	6.16	4.47	3.84
BALD 032	47.94	11.82	14.15	6.17	5.40	3.95
BALD 036	46.82	8.36	17.31	4.23	6.29	5.14
BALD 037	40.81	8.30	10.70	6.62	10.36	5.55
BALD 051	67.22	0.01	28.02	3.35	0.30	0.08
RB - 5 - 93	50.88	12.14	9.69	10.28	11.46	1.53
RB - 8 - 93	50.18	11.27	12.82	11.04	9.65	1.08
RB - 10 - 93	50.54	11.61	12.25	10.72	10.10	1.54
RB - 16 - 93	50.87	11.05	11.46	11.17	11.89	1.03
RB - 18 - 93	50.48	10.85	13.41	11.00	9.77	0.82

ICAP	K ₂ O	P ₂ O ₅	TiO ₂	MnO	BaO	Cr ₂ O ₃
BALD 027	1.40	0.103	0.504	0.083	0.031	0.116
BALD 031	0.86	0.237	2.091	0.083	0.016	0.104
BALD 032	0.68	0.227	2.055	0.092	0.014	0.056
BALD 036	0.24	0.231	1.423	0.108	0.011	0.057
BALD 037	0.26	0.077	0.410	0.192	0.009	0.053
BALD 051	0.08	0.039	0.030	0.125	0.009	0.065
RB - 5 - 93	0.68	0.080	0.486	0.083	0.017	0.159
RB - 8 - 93	0.65	0.053	0.438	0.117	0.019	0.065
RB - 10 - 93	0.61	0.071	0.481	0.100	0.017	0.151
RB - 16 - 93	0.54	0.060	0.446	0.133	0.018	0.125
RB - 18 - 93	1.06	0.052	0.478	0.117	0.029	0.070



Per: *G. Duncan*

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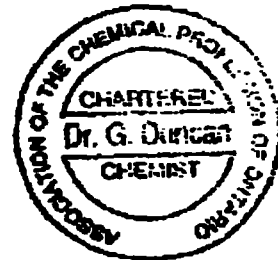
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 January 28, 1994

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Whole Rock Analysis

ICAP	% SrO	% LOI	% Total
BALD 027	0.010	2.0	99.2
BALD 031	0.005	6.0	99.3
BALD 032	0.009	5.7	98.3
BALD 036	0.014	8.8	99.0
BALD 037	0.017	15.4	98.8
BALD 051	0.001	0.7	100.0
RB - 5 - 93	0.011	2.4	99.9
RB - 8 - 93	0.009	3.1	100.6
RB - 10 - 93	0.010	2.9	101.2
RB - 16 - 93	0.011	2.5	101.4
RB - 18 - 93	0.012	3.2	101.4



Per: 



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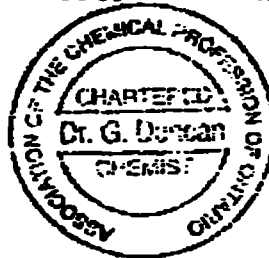
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ICAP	ppm Ag	¢ Al	ppm As	ppm Au	ppm Ba	ppm Be
BALD 027	0.2	1.29	22	<3	46	<1
BALD 031	0.1	2.61	44	<3	83	<1
BALD 032	0.1	2.70	44	<3	78	<1
BALD 036	0.1	0.56	53	<3	64	<1
BALD 037	0.1	0.35	34	<3	52	<1
BALD 051	0.1	0.07	6	<3	32	<1
RB - 5 - 93	0.2	1.25	30	<3	32	<1
RB - 8 - 93	0.5	1.65	29	<3	32	<1
RB - 10 - 93	0.6	1.63	52	<3	30	<1
RB - 16 - 93	0.4	1.38	20	<3	23	<1
RB - 18 - 93	0.5	2.07	63	<3	71	<1

ICAP	ppm Bi	¢ Ca	ppm Cd	ppm Co	ppm Cr	ppm Cu
BALD 027	<3	0.56	<1	26	111	407
BALD 031	<3	2.88	<1	60	180	19
BALD 032	<3	3.22	<1	65	94	59
BALD 036	<3	3.91	<1	87	52	17
BALD 037	<3	6.58	<1	32	71	14
BALD 051	<3	0.09	<1	2	17	15
RB - 5 - 93	<3	0.56	<1	30	189	246
RB - 8 - 93	<3	0.28	<1	58	34	1662
RB - 10 - 93	<3	0.65	<1	61	121	1357
RB - 16 - 93	<3	0.46	<1	37	115	942
RB - 18 - 93	<3	0.43	<1	85	53	1615

Per: J. Duncan

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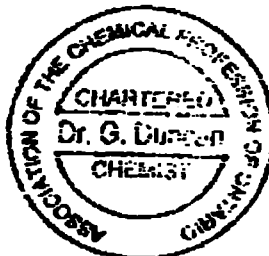
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ICAP	% Fe	ppm Hg	ppm La	% Mg	ppm Mn	ppm Mo
BALD 027	2.40	<1	1	1.24	293	3
BALD 031	8.41	<1	9	3.12	1110	6
BALD 032	8.27	<1	14	2.99	1319	7
BALD 036	8.85	<1	3	2.25	1539	5
BALD 037	5.25	<1	3	3.70	2826	4
BALD 051	7.11	<1	3	0.17	104	3
RB - 5 - 93	1.96	<1	1	1.22	282	3
RB - 8 - 93	3.73	<1	1	1.66	377	3
RB - 10 - 93	3.37	<1	2	1.60	398	3
RB - 16 - 93	2.40	<1	1	1.32	293	3
RB - 18 - 93	4.20	<1	1	1.98	482	2

ICAP	% Na	ppm Ni	ppm P	ppm Pb	ppm Sb	% Si
BALD 027	0.07	202	178	14	6	0.28
BALD 031	0.13	53	1021	35	24	0.46
BALD 032	0.13	48	1018	34	25	0.41
BALD 036	0.13	99	863	38	12	0.27
BALD 037	0.13	80	185	33	6	0.23
BALD 051	0.01	3	246	3	2	0.30
RB - 5 - 93	0.07	85	185	14	9	0.46
RB - 8 - 93	0.04	452	166	6	2	0.32
RB - 10 - 93	0.06	414	177	16	9	0.34
RB - 16 - 93	0.06	234	171	11	2	0.26
RB - 18 - 93	0.05	543	187	17	2	0.43



Per: *G. Duncan*

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48996

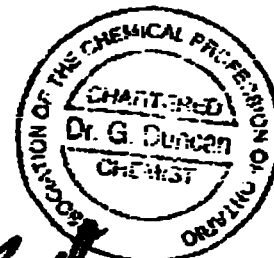
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ICAP	ppm Sr	% Ti	ppm V	ppm Mn	ppm Zn
BALD 027	8	0.08	27	3	21
BALD 031	31	0.04	264	23	60
BALD 032	36	0.20	266	22	56
BALD 036	102	0.06	176	18	21
BALD 037	119	0.06	54	13	15
BALD 051	5	<0.01	4	0	<1
RB - 5 - 93	9	0.07	28	9	20
RB - 8 - 93	5	0.05	26	6	30
RB - 10 - 93	6	0.04	27	10	33
RB - 16 - 93	8	0.04	20	5	22
RB - 18 - 93	10	0.08	40	8	30



Per: J. Duncan

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49801

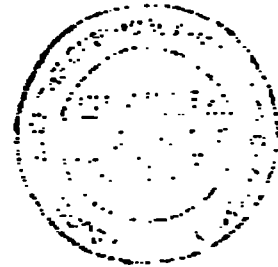
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Date Received: January 5, 1994

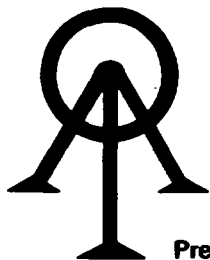
SAMPLE I.D.	Au ppb	Au Oz/T	Pt ppb	Pd ppb
BALD 150	534	0.016	1036	1846



17-30

Per: *G. Duncan*

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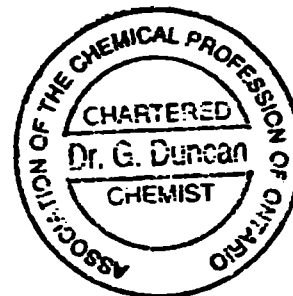
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WHOLE ROCK	% SiO ₂	% Al ₂ O ₃	% Fe ₂ O ₃	% MgO	% CaO	% Na ₂ O
BALD 150	27.07	14.26	35.84	6.85	2.35	0.01

WHOLE ROCK	% K ₂ O	% P ₂ O ₅	% TiO ₂	% MnO	% BaO	% Cr ₂ O ₃
BALD 150	2.90	0.010	2.358	0.210	0.043	1.098

WHOLE ROCK	% SrO	% LOI	% Total
BALD 150	0.001	5.6	98.6





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ICAP	ppm Ag	% Al	ppm As	ppm Au	ppm Ba	ppm Be
BALD 150	0.9	7.45	81	<3	452	<1

ICAP	ppm Bi	% Ca	ppm Cd	ppm Co	ppm Cr	ppm Cu
BALD 150	<3	0.74	2	246	5187	4874

ICAP	% Fe	ppm Hg	ppm La	% Mg	ppm Mn	ppm Mo
BALD 150	17.51	5	6	3.22	1696	13

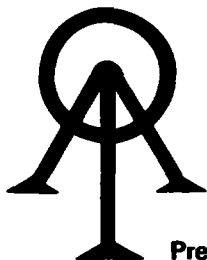
ICAP	% Na	ppm Ni	ppm P	ppm Pb	ppm Sb	% Si
BALD 150	0.07	2612	245	82	55	0.73

ICAP	ppm Sr	% Ti	ppm V	ppm W	ppm Zn
BALD 150	7	0.54	1008	43	157



Per: J. Duncan

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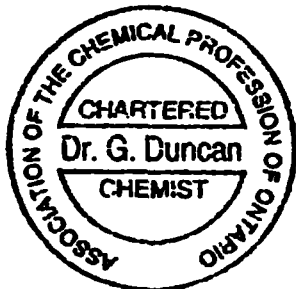
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WHOLE ROCK	% SiO ₂	% Al ₂ O ₃	% Fe ₂ O ₃	% MgO	% CaO	% Na ₂ O
000001	49.79	13.43	8.88	6.64	7.81	1.51
000004	67.52	12.90	5.33	2.60	3.08	4.07
000010	52.37	14.33	9.32	7.33	8.79	2.82
000013	51.14	11.80	10.01	10.44	9.43	1.43
000014	50.99	16.48	8.45	7.17	11.33	1.57
195819	52.01	12.31	9.97	9.55	9.55	1.27
195820	49.46	11.92	11.27	9.25	10.92	1.17
195821	50.89	11.74	9.09	10.56	11.02	0.94
195824	52.08	12.07	9.66	8.95	9.87	1.48
195825	51.33	12.59	9.61	9.36	10.43	1.18
195826	50.60	12.62	10.10	9.12	10.54	1.81
195827	50.85	12.36	9.62	9.55	4.95	1.60

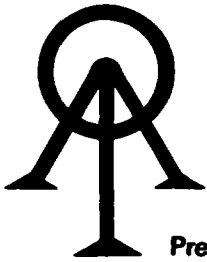
WHOLE ROCK	% K ₂ O	% P ₂ O ₅	% TiO ₂	% MnO	% BaO	% Cr ₂ O ₃
000001	1.10	0.146	0.658	0.132	0.024	0.041
000004	0.68	0.268	0.478	0.135	0.022	0.033
000010	0.85	0.141	0.530	0.197	0.024	0.046
000013	0.78	0.111	0.418	0.177	0.023	0.069
000014	1.10	0.157	0.465	0.145	0.026	0.077
195819	1.06	0.121	0.499	0.183	0.022	0.059
195820	0.60	0.103	0.636	0.181	0.016	0.102
195821	0.75	0.108	0.447	0.164	0.019	0.112
195824	1.19	0.156	0.614	0.197	0.032	0.072
195825	0.66	0.216	0.476	0.184	0.014	0.056
195826	0.25	0.118	0.449	0.178	0.011	0.055
195827	0.20	0.104	0.477	0.159	0.010	0.058



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Per: J. Duncan

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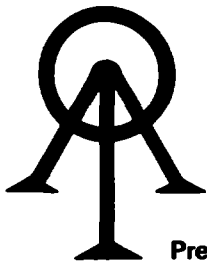
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WHOLE ROCK	% SrO	% LOI	% Total
000001	0.010	9.6	99.8
000004	0.024	3.4	100.5
000010	0.013	2.3	99.1
000013	0.012	2.5	98.3
000014	0.015	2.0	100.0
195819	0.012	2.3	98.9
195820	0.014	2.7	98.3
195821	0.010	2.3	98.1
195824	0.011	3.6	100.0
195825	0.011	2.6	98.7
195826	0.012	2.3	98.2
195827	0.003	7.4	97.3





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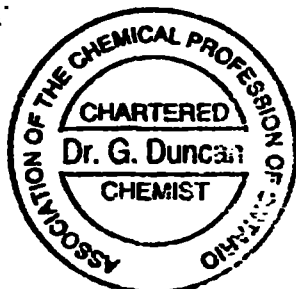
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Work Order #: 930091C
Date Received: January 5, 1994

ICAP	ppm Ag	% Al	ppm As	ppm Au	ppm Ba	ppm Be
000001	0.1	2.91	138	<3	36	<1
000004	0.1	1.42	22	<3	28	<1
000010	0.1	1.06	38	<3	33	<1
000013	0.1	1.27	21	<3	19	<1
000014	0.1	0.92	14	<3	19	<1
195819	0.1	1.58	14	<3	32	<1
195820	0.4	0.93	17	<3	15	<1
195821	0.1	1.19	22	<3	21	<1
195824	0.2	0.85	25	<3	26	<1
195825	0.1	1.97	18	<3	24	<1
195826	0.1	1.20	34	<3	13	<1
195827	0.1	2.78	120	<3	31	<1

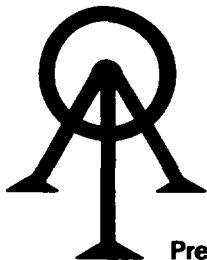
ICAP	ppm Bi	% Ca	ppm Cd	ppm Co	ppm Cr	ppm Cu
000001	<3	3.81	<1	42	53	93
000004	<3	1.35	<1	23	64	86
000010	<3	0.44	<1	32	30	76
000013	<3	0.27	<1	26	38	212
000014	<3	0.26	<1	24	52	524
195819	<3	0.44	<1	26	31	299
195820	<3	0.28	<1	62	50	2006
195821	<3	0.42	<1	26	63	565
195824	<3	0.37	<1	23	41	429
195825	<3	0.70	<1	30	22	180
195826	<3	0.24	<1	36	22	89
195827	<3	2.24	<1	70	72	630



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Per: J. Duncan

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ICAP	% Fe	ppm Hg	ppm La	% Mg	ppm Mn	ppm Mo
000001	4.85	<1	5	2.88	801	<1
000004	3.22	<1	15	1.28	731	1
000010	2.21	<1	1	1.00	287	<1
000013	2.49	<1	1	1.32	252	1
000014	1.95	<1	1	0.76	200	1
195819	2.51	<1	2	1.22	278	1
195820	2.68	<1	<1	0.75	174	1
195821	1.97	<1	1	1.10	226	1
195824	1.99	<1	2	0.88	244	1
195825	2.44	<1	2	1.09	226	1
195826	2.43	<1	1	1.15	252	1
195827	4.50	<1	4	3.30	722	2

ICAP	% Na	ppm Ni	% P	ppm Pb	ppm Sb	% Si
000001	0.04	64	0.05	12	<2	0.03
000004	0.03	31	0.13	6	3	0.02
000010	0.03	41	0.04	5	<2	0.02
000013	0.02	87	0.04	10	<2	0.02
000014	0.03	177	0.04	8	3	0.02
195819	0.08	86	0.03	6	5	0.05
195820	0.05	715	0.03	<2	<2	0.03
195821	0.06	178	0.04	5	4	0.07
195824	0.03	131	0.04	8	5	0.04
195825	0.17	56	0.04	7	10	0.04
195826	0.02	52	0.03	<2	<2	0.02
195827	0.05	188	0.04	<2	12	0.08



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Per: 

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ICAP	ppm Ag	% Al	ppm As	ppm Au	ppm Ba	ppm Be
000011	1.1	0.80	15	<3	20	<1
000012	0.6	0.79	53	<3	19	<1
000018	1.8	0.96	56	<3	21	<1
000019	1.4	0.84	16	<3	21	<1
195815	0.1	0.19	<2	<3	108	2

ICAP	ppm Bi	% Ca	ppm Cd	ppm Co	ppm Cr	ppm Cu
000011	<3	0.18	<1	41	82	7864
000012	<3	0.16	<1	74	102	4268
000018	<3	0.17	<1	102	85	9599
000019	<3	0.18	<1	43	68	7606
195815	<3	7.98	<1	57	8	105

ICAP	% Fe	ppm Hg	ppm La	% Mg	ppm Mn	ppm Mo
000011	4.02	<1	<1	0.85	252	1
000012	3.54	<1	<1	0.84	209	1
000018	3.95	<1	<1	0.83	252	2
000019	4.22	<1	<1	0.73	209	1
195815	8.26	<1	3	4.95	4934	<1



Per: *G. Duncan*

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48997

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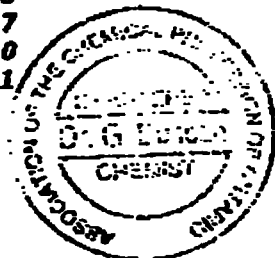
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ICAP	ppm Ag	% Al	ppm As	ppm Au	ppm Ba	ppm Be
BALD 026	0.2	2.23	14	<3	60	<1
BALD 033	0.1	0.28	29	<3	62	<1
BALD 034	0.1	0.02	7	<3	9	<1
BALD 035	0.2	0.42	31	5	22	<1
BALD 038	0.1	0.17	49	<3	54	<1
RB - 6 - 93	0.4	1.93	19	<3	29	<1
RB - 11 - 93	0.5	1.86	40	<3	31	<1
RB - 19 - 93	0.2	1.02	19	<3	22	<1
195805	0.2	0.69	33	<3	23	<1
195806	1.4	1.35	62	<3	45	<1
195807	0.4	3.01	112	<3	39	<1
195810	0.2	1.83	39	<3	45	<1
195811	0.1	0.34	41	<3	58	<1

ICAP	ppm Bi	% Ca	ppm Cd	ppm Co	ppm Cr	ppm Cu
BALD 026	<3	0.24	<1	42	394	30
BALD 033	<3	0.63	<1	45	342	8
BALD 034	<3	0.48	<1	1	16	10
BALD 035	<3	0.46	<1	36	25	21
BALD 038	<3	7.13	<1	83	43	18
RB - 6 - 93	<3	0.83	<1	40	42	1056
RB - 11 - 93	<3	0.49	<1	63	40	1302
RB - 19 - 93	<3	0.43	<1	24	174	577
195805	<3	0.87	<1	41	52	235
195806	<3	0.70	<1	67	89	5290
195807	<3	0.20	<1	40	683	278
195810	<3	0.32	<1	38	162	261
195811	<3	6.15	<1	90	44	127



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Per: *G. Duncan*

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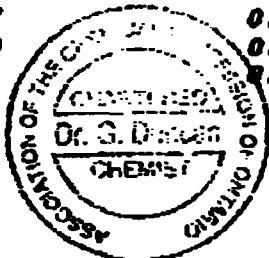
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ICAP	% Fe	ppm Hg	ppm La	% Mg	ppm Mn	ppm Ni
BALD 026	5.04	<1	7	2.51	282	3
BALD 033	9.75	<1	3	0.30	377	2
BALD 034	1.08	<1	<1	0.21	178	2
BALD 035	3.67	<1	5	0.64	209	2
BALD 038	6.94	<1	3	3.32	2627	2
RB - 6 - 93	2.78	<1	2	1.39	367	3
RB - 11 - 93	3.85	<1	1	1.77	471	2
RB - 19 - 93	1.80	<1	1	0.98	251	2
195805	1.90	<1	2	0.95	209	2
195806	4.02	<1	<1	1.11	335	2
195807	4.67	<1	1	3.97	534	4
195810	3.37	<1	5	1.81	419	2
195811	8.80	<1	8	3.11	2397	3

ICAP	% Na	ppm Ni	ppm P	ppm Pb	ppm Sb	% Si
BALD 026	0.08	100	495	21	5	0.27
BALD 033	0.10	36	1382	24	5	0.22
BALD 034	0.01	7	47	10	<2	0.11
BALD 035	0.02	34	235	12	<2	0.34
BALD 038	0.14	64	868	34	2	0.20
RB - 6 - 93	0.13	329	212	14	3	0.31
RB - 11 - 93	0.06	394	184	15	<2	0.34
RB - 19 - 93	0.04	230	211	15	3	0.19
195805	0.05	198	160	24	<2	0.42
195806	0.09	2553	131	8	<2	0.39
195807	0.03	482	130	23	12	0.50
195810	0.06	197	257	8	9	0.34
195811	0.07	137	153	33	10	0.17



Per: _____

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48999

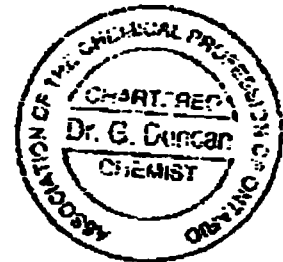
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ICAP	ppm Sr	% Ti	ppm V	ppm Ni	ppm Zn
BALD 026	3	0.06	217	7	22
BALD 033	20	0.02	251	4	14
BALD 034	7	<0.01	7	<1	5
BALD 035	10	0.01	27	4	15
BALD 038	180	0.02	166	8	14
RB - 6 - 93	17	0.06	28	8	30
RB - 11 - 93	7	0.05	28	7	39
RB - 19 - 93	8	0.06	25	5	26
195805	6	0.08	40	5	13
195806	10	0.04	26	8	57
195807	2	0.08	80	11	41
195810	7	0.08	46	7	41
195811	103	0.01	49	14	8



Per: _____

G. Duncan



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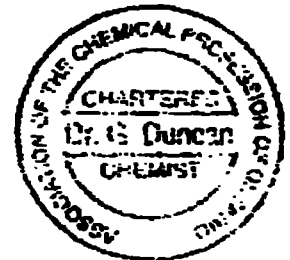
Work Order #: 9300568
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Whole Rock Analysis

ICAP	% SiO ₂	% Al ₂ O ₃	% Fe ₂ O ₃	% MgO	% CaO	% Na ₂ O
195805	52.48	7.82	11.26	11.64	12.58	1.82
195806	49.36	12.51	12.01	8.64	10.99	1.47
195807	48.57	7.68	13.59	17.15	7.68	0.18
195810	55.48	12.97	9.36	8.67	6.97	2.39

ICAP	% K ₂ O	% P ₂ O ₅	% TiO ₂	% MnO	% BaO	% Cr ₂ O ₃
195805	0.38	0.069	0.498	0.100	0.013	0.085
195806	0.98	0.068	0.288	0.050	0.028	0.117
195807	0.08	0.083	0.378	0.108	0.008	0.278
195810	1.10	0.097	0.405	0.075	0.031	0.103

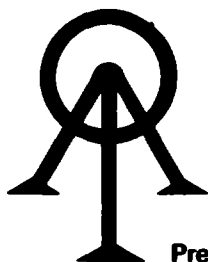
ICAP	% SrO	% LOI	% Total
195805	0.008	1.9	100.7
195806	0.012	3.4	100.0
195807	0.001	5.2	101.0
195810	0.011	2.7	100.4



Per: _____

G. Duncan

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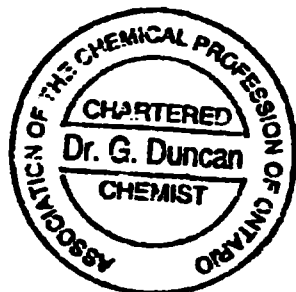
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ICAP	% Na	ppm Ni	% P	ppm Pb	ppm Sb	% Si
000011	0.02	748	0.04	<2	<2	0.05
000012	0.02	1586	0.03	<2	<2	0.03
000018	0.03	1252	0.04	<2	<2	0.07
000019	0.02	785	0.04	<2	<2	0.04
195815	0.08	107	0.03	<2	<2	0.05

ICAP	ppm Sr	% Ti	ppm V	ppm W	ppm Zn
000011	4	0.06	25	3	53
000012	5	0.05	25	8	28
000018	4	0.05	27	<2	37
000019	5	0.08	27	<2	13
195815	210	<0.01	40	<2	17



Per: *G. Duncan*

sample #	Taken by	Location	Type	Rock type	Minerals
001	Stringer	L39E,075N	grab	gabbro	py, carb
004	Stringer	L37E,050N	grab	gabbro	py, cpy
006	Stringer	see Fig 3	grab	sediment	qtz, ser
010	Stringer	L46E,250N	grab	gabbro	po, cpy
011	Stringer	L48E,425N	grab	gabbro	cpy, po
012	Stringer	L48E,425N	grab	gabbro	cpy, po
013	Stringer	L47E,275N	grab	gabbro	po, cpy
014	Stringer	L51E,400N	grab	gabbro	po
018	Stringer	L48E,400N	grab	gabbro	cpy, po
019	Stringer	L48E,400N	grab	gabbro	cpy, po
021	Stringer	Rainbow-1	grab	sediment	py
026	Bald	Pink Bx	grab	mafic Bx	py
027	Bald	Pink Bx	grab	gabbro	po, cpy
028	Bald	Rainbow-1	grab	maf. dike	py
029	Stringer	Rainbow-1	grab	maf. dike	py
030	Stringer	Rainbow-1	grab	maf. dike	py
031	Bald	Rainbow-1	grab	maf. dike	carb,qtz
032	Bald	Rainbow-1	grab	maf.dike	carb, py

033	Stringer	Rainbow-1	grab	maf.dike	py
034	Bald	Rainbow-1	grab	qtz vein	py, mt
035	Bald	Rainbow-1	chip over 30 cm	qtz vein	py, mt
036	Bald	Rainbow-1	grab	maf.dike	py
037	Bald	Hem. Pit	grab	alt. gab.	py, mt
038	Bald	Rainbow-1	grab	maf. dike	py, mt
039	Bald	Rainbow-3	grab	maf. dike	py, qtz
040	Bald	Rainbow-3	chip over 30 cm	sil. sed.	py
041	Bald	Rainbow-3	grab	carb zone	py, mt
042	Bald	Rainbow-3	grab	carb zone	py, mt
043	Bald	Rainbow-3	grab	sil. sed.	py, qtz
051	Stringer	AN-3	float	gabbro	po, cpy
126	Bald	Rainbow-1	grab	maf. dike	py, carb
127	Bald	Rainbow-1	grab	maf. dike	sil.
128	Bald	Rainbow-1	grab	maf. dike	mt, carb
129	Bald	Rainbow-1	channel over 50cm	sil. maf. dike	py, mt, carb
130	Bald	Rainbow-1	channel over 50cm	sil. maf. dike	py, mt, carb

130	Bald	Rainbow-1	channel over 50cm	sil. maf. dike	py, mt, carb
131	Bald	Rainbow-1	channel over 60cm	maf.dike, qtz pod	py, mt
132	Bald	Rainbow-1	grab	sil. zone	mt, py
133	Bald	Rainbow-2	grab	qtz vein	py, mt
134	Bald	Rainbow-2	grab	qtz vein	py, mt
135	Bald	Rainbow-3	grab	sediment	py, mt
136	Bald	Rainbow-3	grab	alt. sed.	
137	Bald	L25E,075N	grab	gabbro	po, cpy
138	Bald	L25E,075N	grab	gabbro	po, cpy
139	Bald	L25E,075N	grab	gabbro	po, cpy
140	Bald	L25E,075N	grab	gabbro	po, cpy
141	Bald	L25E,125N	grab	gabbro	po, cpy
142	Bald	L25E,125N	grab	gabbro	po, cpy
143	Bald	L25E,125N	grab	gabbro	po, cpy
150	Stringer	AN-3	grab	gabbro	po, cpy
RB-5-93	Bald	L23E,025N	grab	gabbro	cpy, po
RB-6-93	Bald	L23E,0+0	grab	gabbro	cpy, po

RB-10-93	Bald	L24E,050S	grab	gabbro	po, cpy
RB-11-93	Bald	L24E,050S	grab	gabbro	
RB-16-93	Bald	L26E,0+0	grab	gabbro	po, cpy
RB-17-93	Bald	L26E,050S	grab	gabbro	po
RB-18-93	Bald	L26E,175N	grab	gabbro	py, cpy
RB-19-93	Bald	L30E,200N	grab	gabbro	
195805	Stringer	L25E,050N	grab	gabbro	
195806	Stringer	L25E,0+0	grab	gabbro	cpy, po
195807	Stringer	L25E,0+0	grab	gabbro	cpy
195810	Stringer	L40E,175N	grab	gabbro	po, cpy
195811	Stringer	L45E,300N	grab	qtz vein	sp. hem.
195815	Stringer	L45E,300N	grab	qtz-carb	sp. hem.
195819	Stringer	L42E,250N	grab	gabbro	po
195820	Stringer	L40E,400N	grab	gabbro	cpy, po
195821	Stringer	L38E,250N	grab	gabbro	po
195824	Stringer	L40E,375N	grab	gabbro	cpy, po
195825	Stringer	L39E,300N	grab	gabbro	py
195826	Stringer	L40E,300N	grab	gabbro	py
195827	Stringer	L39E,225N	grab	gabbro	py, cpy

APPENDIX 2

EM16

VLF Electromagnetic Unit

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Pioneered and patented exclusively by Geonics Limited, the VLF method of electromagnetic surveying has been proven to be a major advance in exploration geophysical instrumentation.

Since the beginning of 1965 a large number of mining companies have found the EM16 system to meet the need for a simple, light and effective exploration tool for mining geophysics.

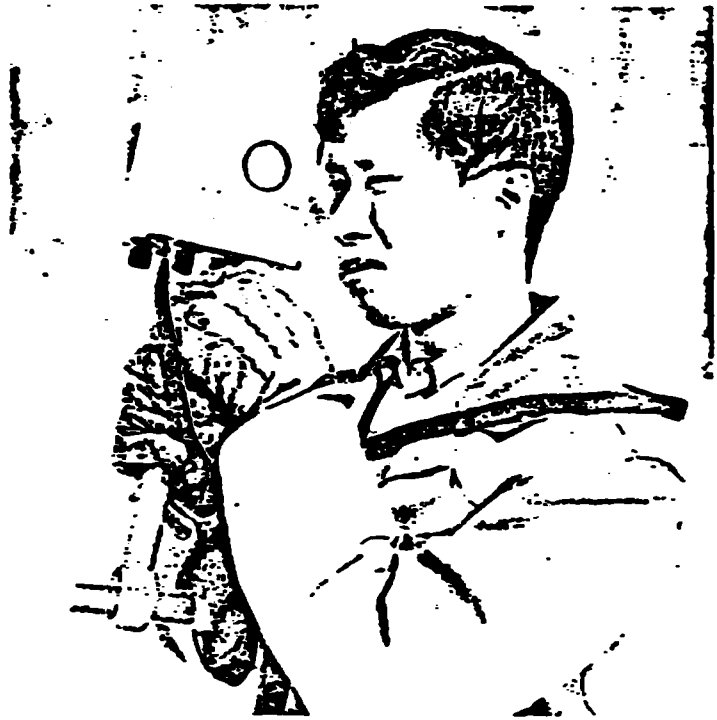
The VLF method uses the military and time standard VLF transmissions as primary field. Only a receiver is then used to measure the secondary fields radiating from the local conductive targets. This allows a very light, one-man instrument to do the job. Because of the almost uniform primary field, good response from deeper targets is obtained.

The EM16 system provides the *in-phase* and *quadrature* components of the secondary field with the polarities indicated.

Interpretation technique has been highly developed particularly to differentiate deeper targets from the many surface indications.

Principle of Operation

The VLF transmitters have vertical antennas. The magnetic signal component is then horizontal and concentric around the transmitter location.



Specifications

Source of primary field	VLF transmitting stations.	Reading time	10-40 seconds depending on signal strength.
Transmitting stations used	Any desired station frequency can be supplied with the instrument in the form of plug-in tuning units. Two tuning units can be plugged in at one time. A switch selects either station.	Operating temperature range	-40 to 50° C.
Operating frequency range	About 15-25 kHz.	Operating controls	ON-OFF switch, battery testing push button, station selector, switch, volume control, quadrature, dial $\pm 40\%$, inclinometer dial $\pm 150\%$.
Parameters measured	(1) The vertical in-phase component (tangent of the tilt angle of the polarization ellipsoid). (2) The vertical out-of-phase (quadrature) component (the short axis of the polarization ellipsoid compared to the long axis).	Power Supply	6 size AA (penlight) alkaline cells. Life about 200 hours.
Method of reading	In-phase from a mechanical inclinometer and quadrature from a calibrated dial. Nulling by audio tone.	Dimensions	42 x 14 x 9 cm (16 x 5.5 x 3.5 in.)
Scale range	In-phase $\pm 150\%$; quadrature $\pm 40\%$.	Weight	1.6 kg (3.5 lbs.)
Readability	$\pm 1\%$.	Instrument supplied with	Monotonic speaker, carrying case, manual of operation, 3 station selector plug-in tuning units (additional frequencies are optional), set of batteries.
		Shipping weight	4.5 kg (10 lbs.)

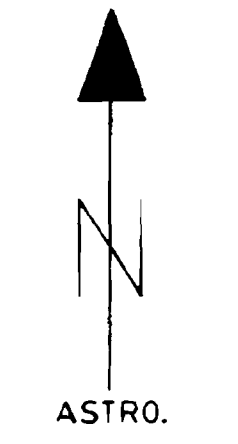


GEONICS LIMITED

Designers & manufacturers
of geophysical instruments

2 Thorncliffe Park Drive
Toronto/Ontario/Canada
M4H 1H2
Tel: (416) 425-1821
Cables: Geonic's

L24E L26E L28E L30E L32E L34E L36E L38E L40E L42E L44E L46E L48E L50E L52E L54E

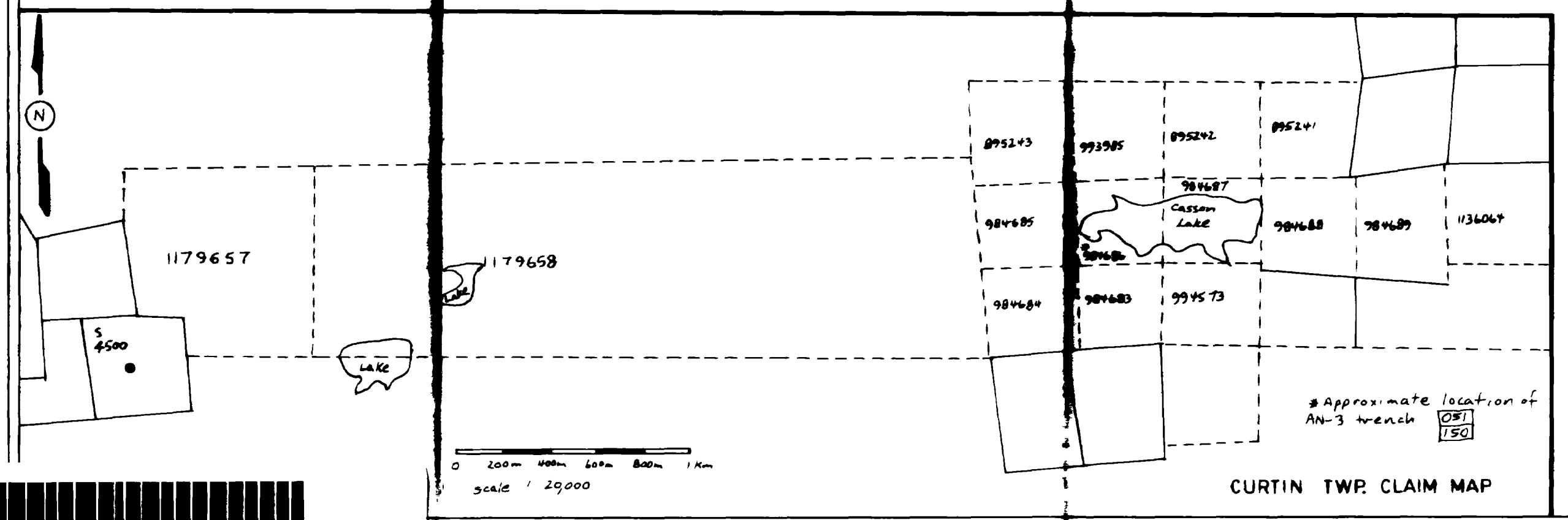
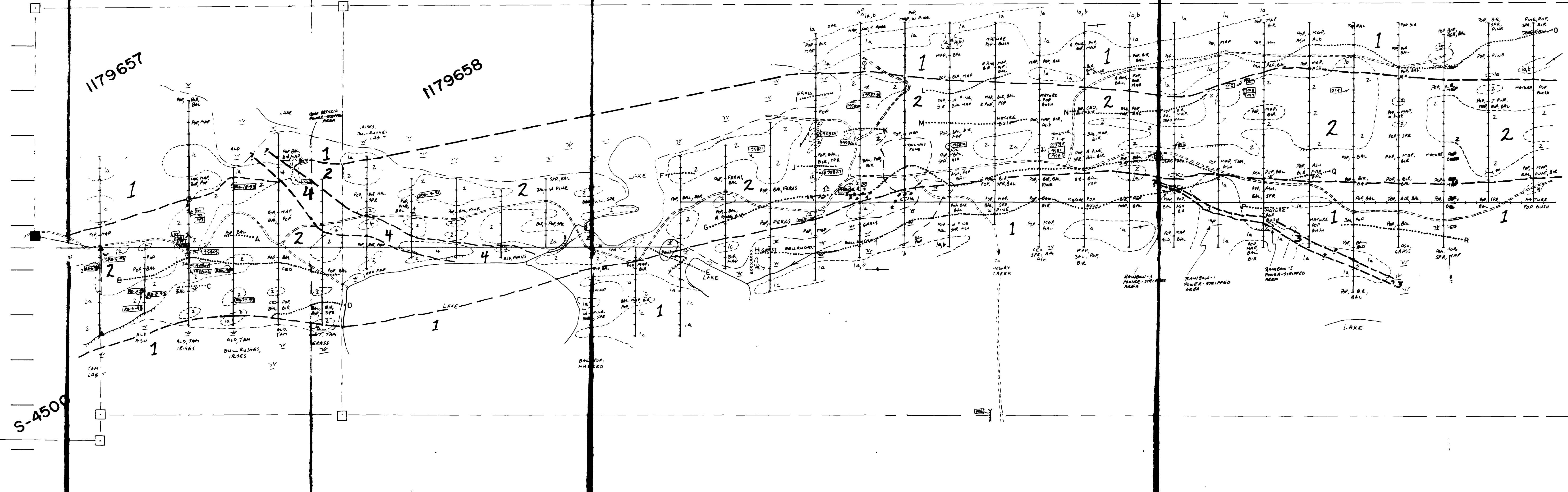


5+00N
4+00N
3+00E
2+00N
TL50N
1+00S
2+00S
3+00S
4+00S

5+00N
4+00N
3+00N
TL150N
0+0
1+00S
2+00S
3+00S
4+00S

1179657

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CURTIN TWP. CLAIM MAP

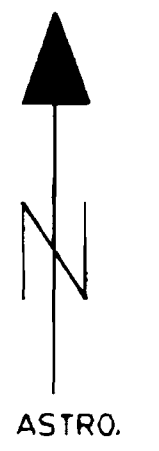
- 4 PINK BRECCIA
 - 3 MAGNETIC MAFIC DIKE
 - 2 GABBRO
 - 2a. PEGMATOIDAL
 - 1 METASEDIMENTS
 - 1a. QUARTZITE
 - 1b. ARGILLITE
 - 1c. CONGLOMERATE
- OUTCROP AREA
 - OUTCROP EDGE
 - △ BRECCIA
 - BEDDING
 - FOLIATION
 - ⊕ DIAMOND DRILL HOLE
 - ⊞ SHAFT
 - ⊞ BUILDING
 - ⊞ MUCK PILES
 - ROAD
 - TR. TRENCH
 - SWAMP
 - BEAYER DAM
 - STREAM, DIRECTION OF FLOW
 - ▲ SURVEY PIN
 - CLAIM POST, LOCATED
 - CLAIM POST, ESTIMATED LOCATION
 - CONDUCTOR AXIS, LETTER DESIGNATION



CURTIN TOWNSHIP PROPERTY	
GEOLOGY	
<i>Roberta Bald</i>	
SCALE: 1"=4,000	FIGURE 3
Drawn by: R. Bald	Date: December/93

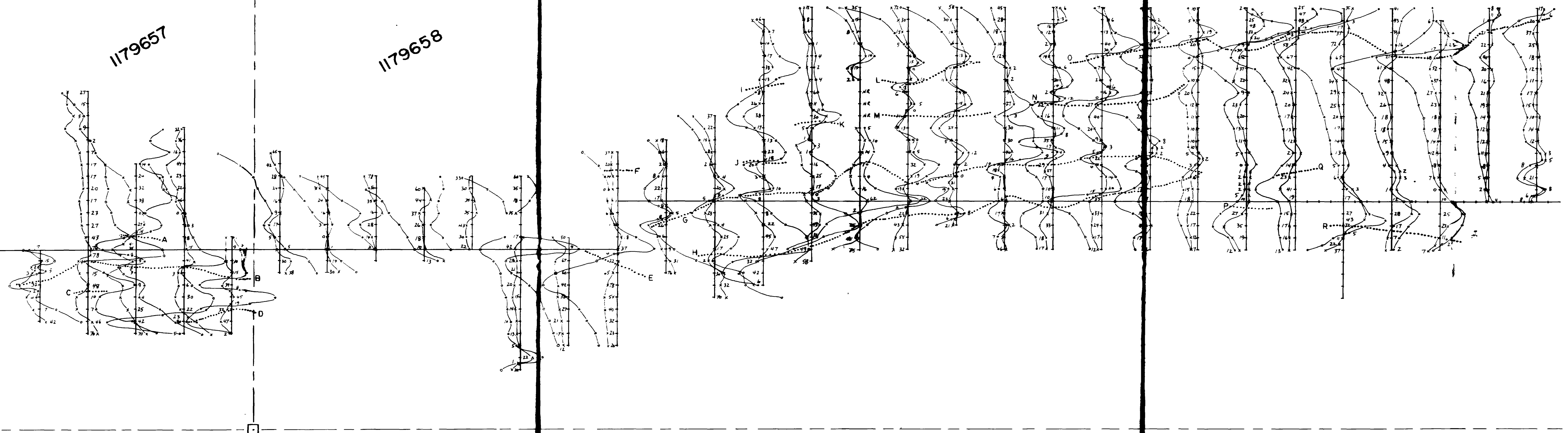


L24E L26E L28E L30E L32E L34E L36E L38E L40E L42E L44E L46E L48E L50E L52E L54E

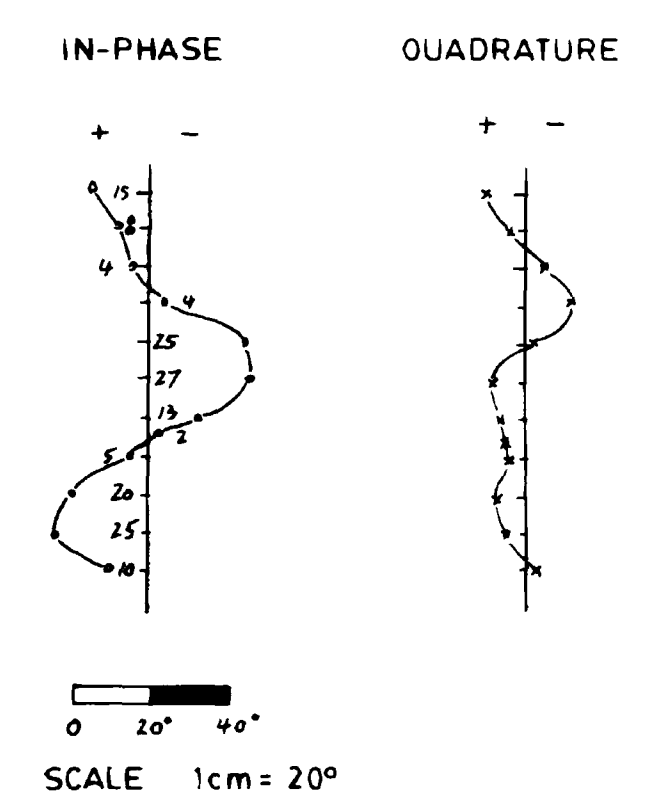


5+00N
4+00N
3+00E
2+00N
TL50N
1+00S
2+00S
3+00S
4+00S

5+00N
4+00N
3+00N
TL150N
0+0
1+00S
2+00S
3+00S
4+00S



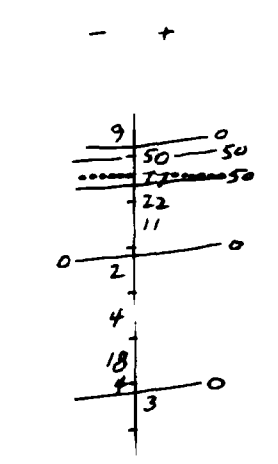
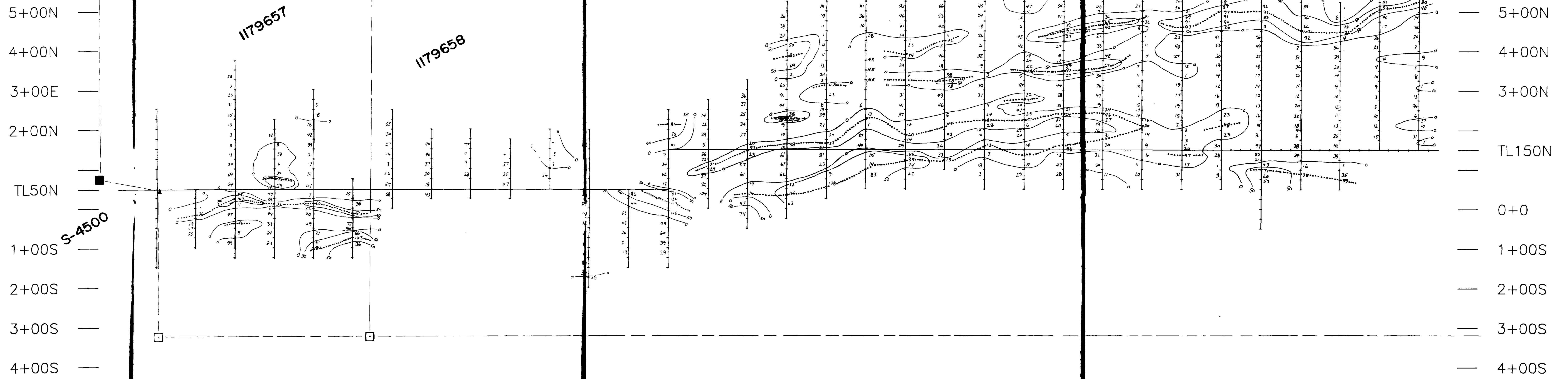
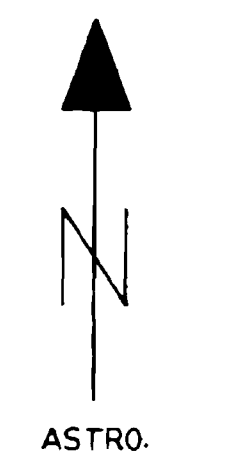
S-4500



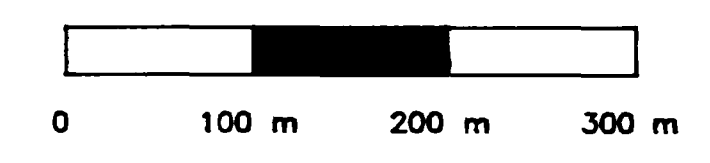
STATION NAA, CUTLER, MAINE
24.0 (kHz)
INSTRUMENT USED : GEONICS EM-16
SURVEY PERFORMED : JUNE TO SEPTEMBER, 1993
IN-PHASE
QUADRATURE
CONDUCTOR AXIS

CURTIN TOWNSHIP PROPERTY	
VLF-EM PROFILES	
<i>Roberta Bald</i>	
SCALE : 1 : 4,000	FIGURE 4
Drawn by: R. Bald	Date: December/93

L24E L26E L28E L30E L32E L34E L36E L38E L40E L42E L44E L46E L48E L50E L52E L54E

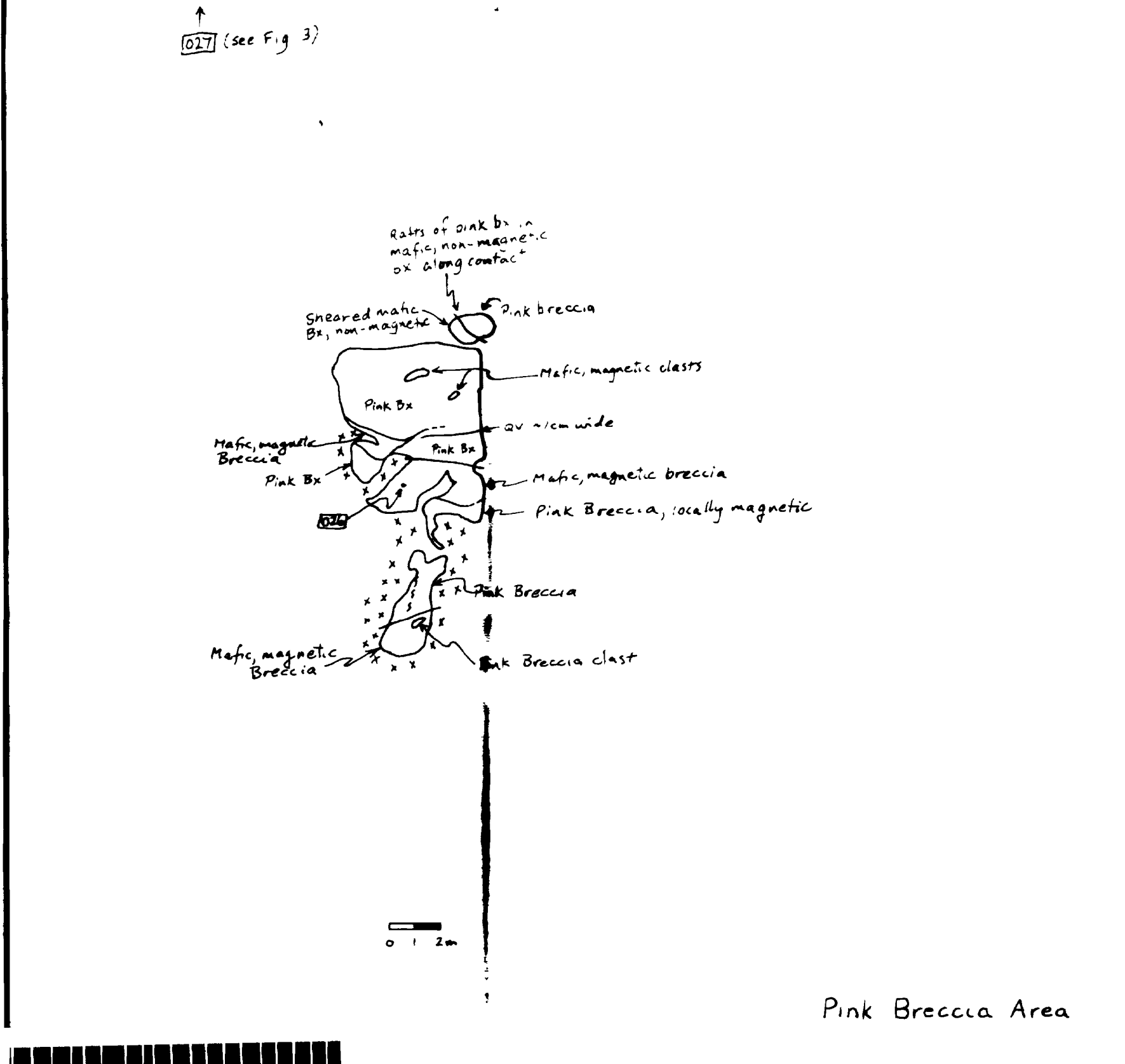
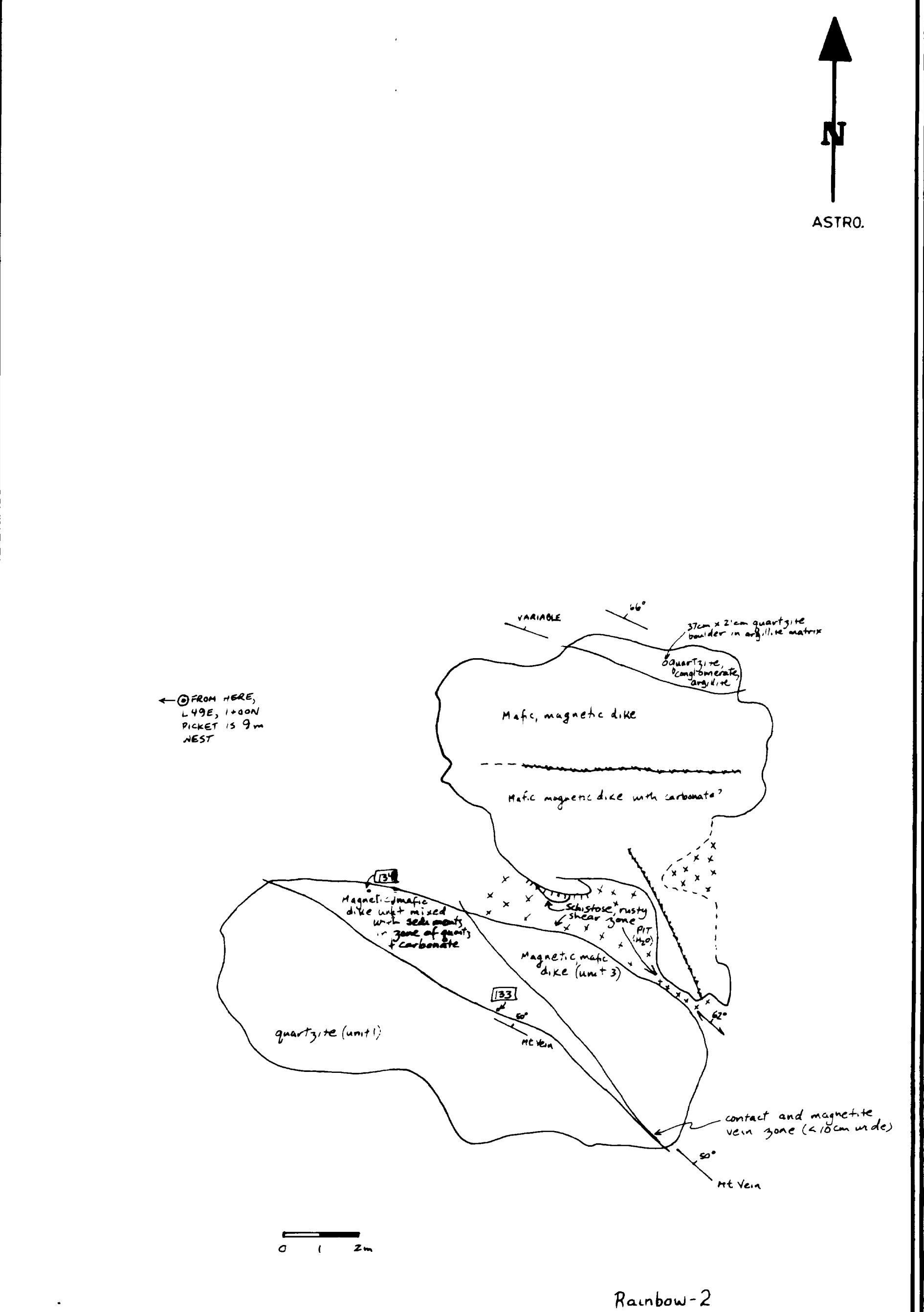
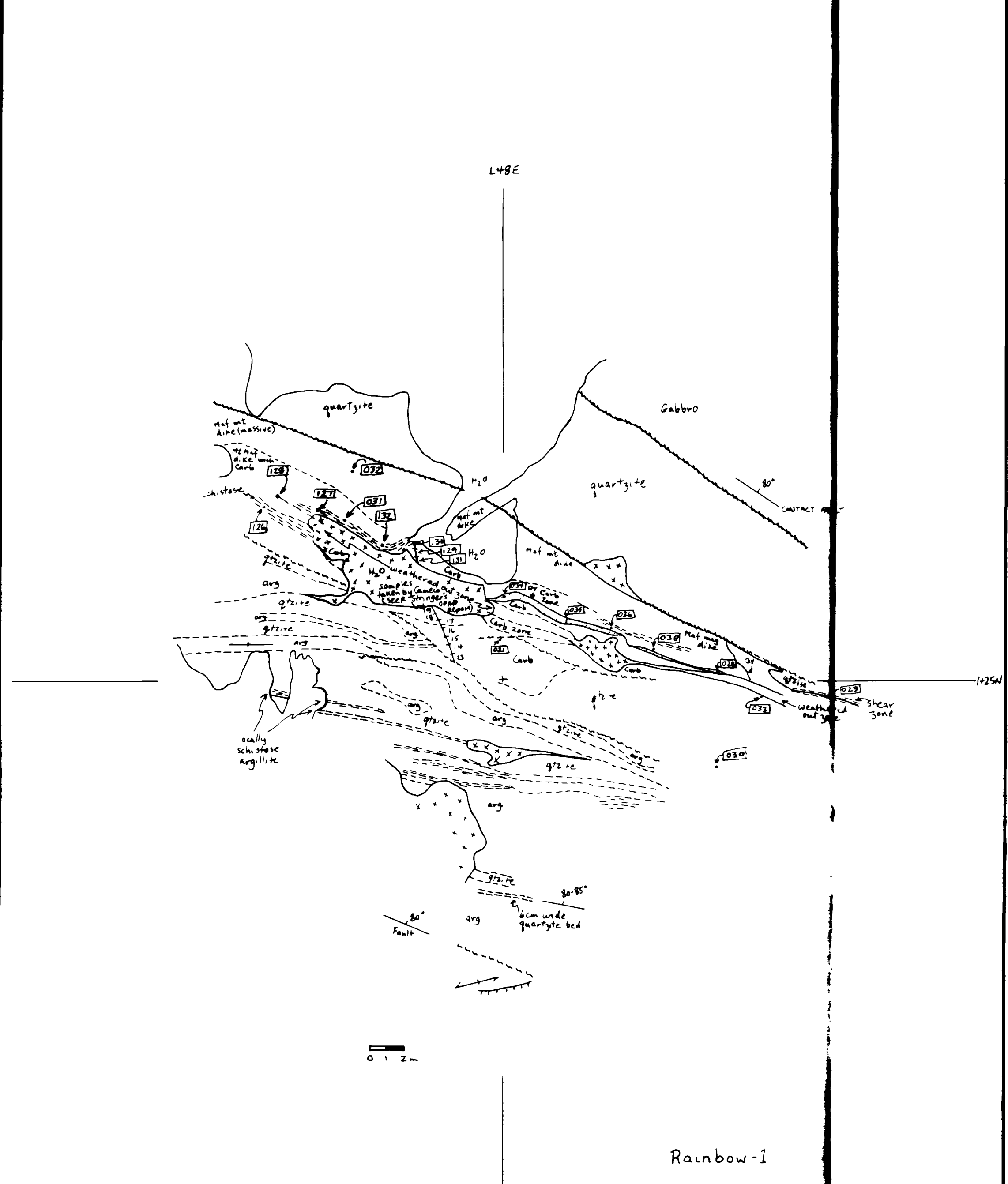
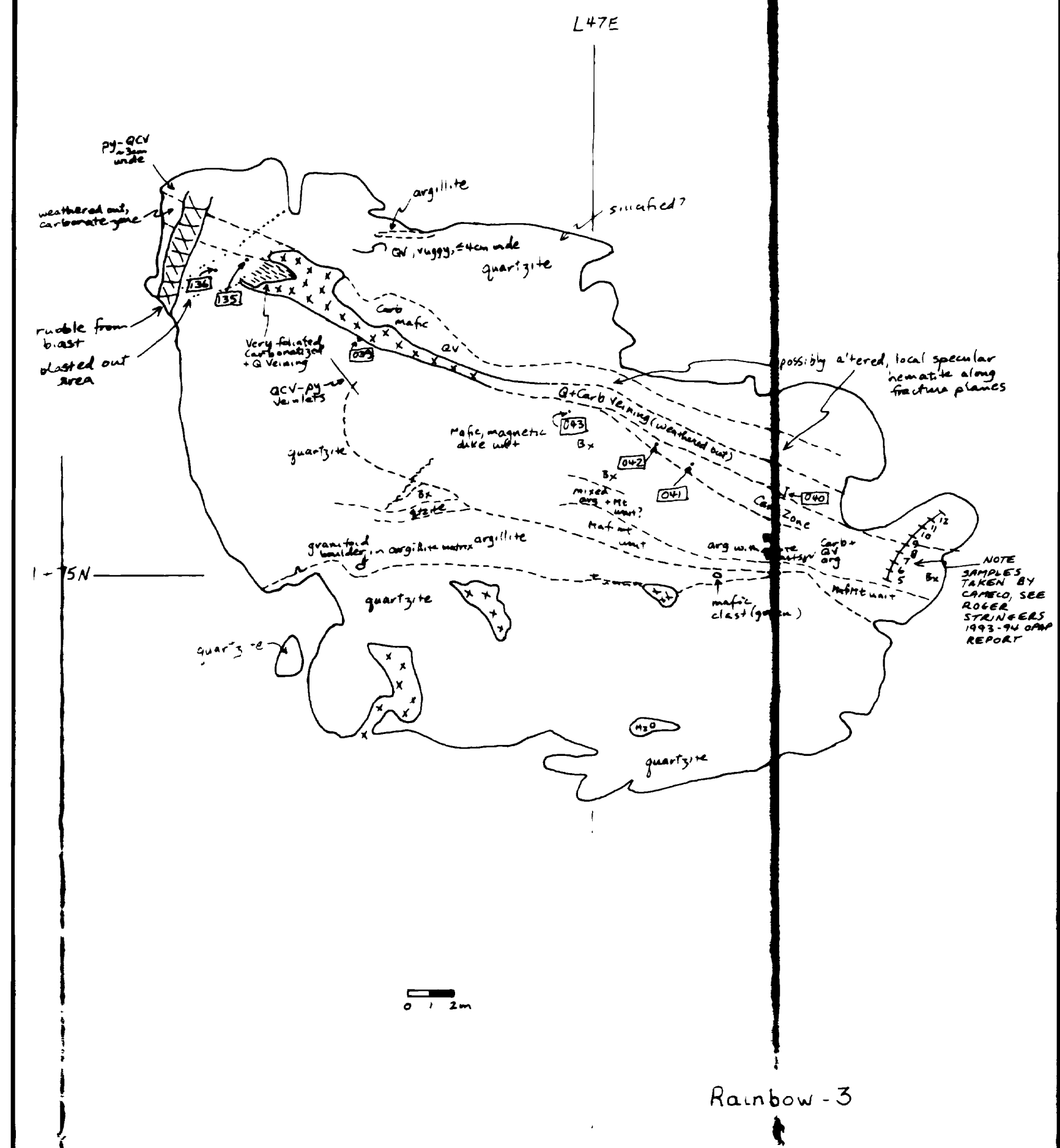
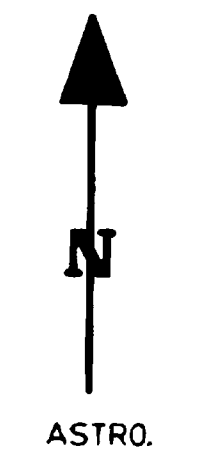


CONDUCTOR AXIS



CURTIN TOWNSHIP PROPERTY	
FRASER FILTER	
<i>Roberta Bald</i>	
SCALE : 1 : 4,000	FIGURE 5
Drawn by: R. Bald	Date: December/93





CURTIN TOWNSHIP PROPERTY

POWER-STRIPPED AREAS

Robert Bald

FIGURE 6

Drawn by: R. Bald Date: December/93