



41113SW2001 OP93-378 GILBERT

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1993 ONTARIO PROSPECTOR'S ASSISTANCE PROGRAM
FINAL REPORT
EXPLORATION ON THE WEST HALF, BENNY GREENSTONE BELT
CRAIG, GILBERT and HOTTE TOWNSHIPS
SUDBURY MINING DIVISION, ONTARIO

by

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Location and Access

The Benny Project is located in the west half of the Benny Greenstone Belt, approximately 65 kilometers northwest of Sudbury, Ontario. It consists of two areas of interest. Project #1 is located in northern Craig Township (Claim Map Plan G-2952), east of Bluewater Lake and is covered by Block Claim 1191407. The NTS map is 41I/13, centered at Latitude 46° 46' North, Longitude 81° 46' West. Project #2 is located in the east half of Hotte Township and the west end of Gilbert townships in unstaked Crown Land. The area lies between Upper Shakwa Lake on the south, Landry Lake on the north, Wensley Lake on the west (all in Hotte Twp.) and Agnes River on the east (in Gilbert Twp.).

Project #1 is accessible all year by bush plane from Sudbury to Bluewater Lake, or by snowmobile trails in the winter. Project #2 is accessible all year by bush plane to Upper Shakwa, Wensley or Landry lakes in Hotte Township. In the summer a main line logging road runs north from Webbwood, just west of Espanola to the west boundary of Hotte Township. Branch lines are open from there east to Upper Shakwa Lake and Agnes River.

Prospecting Targets

The Benny Greenstone Project is being initiated to explore for copper, lead, zinc, gold and silver.

Geology

The project area covers the west half of the Benny Greenstone Belt (OGS Report 206, Card and Innis, 1981). This is a belt of Archean-age metavolcanic rocks and volcanically derived metasedimentary rocks which trends east-west for approximately 50 kilometres. The volcanic rocks consist of

Benny Greenstone Project

General Location Map

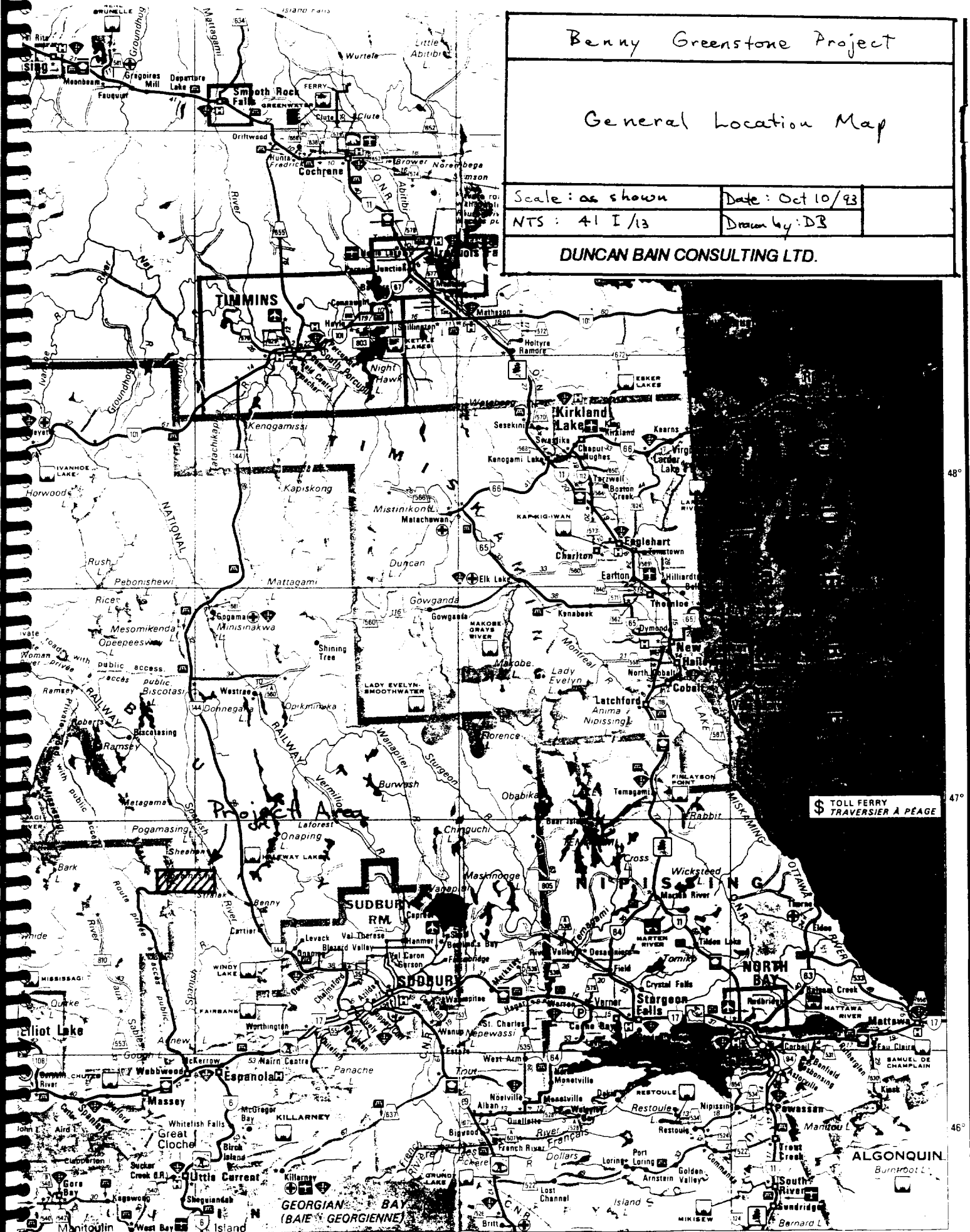
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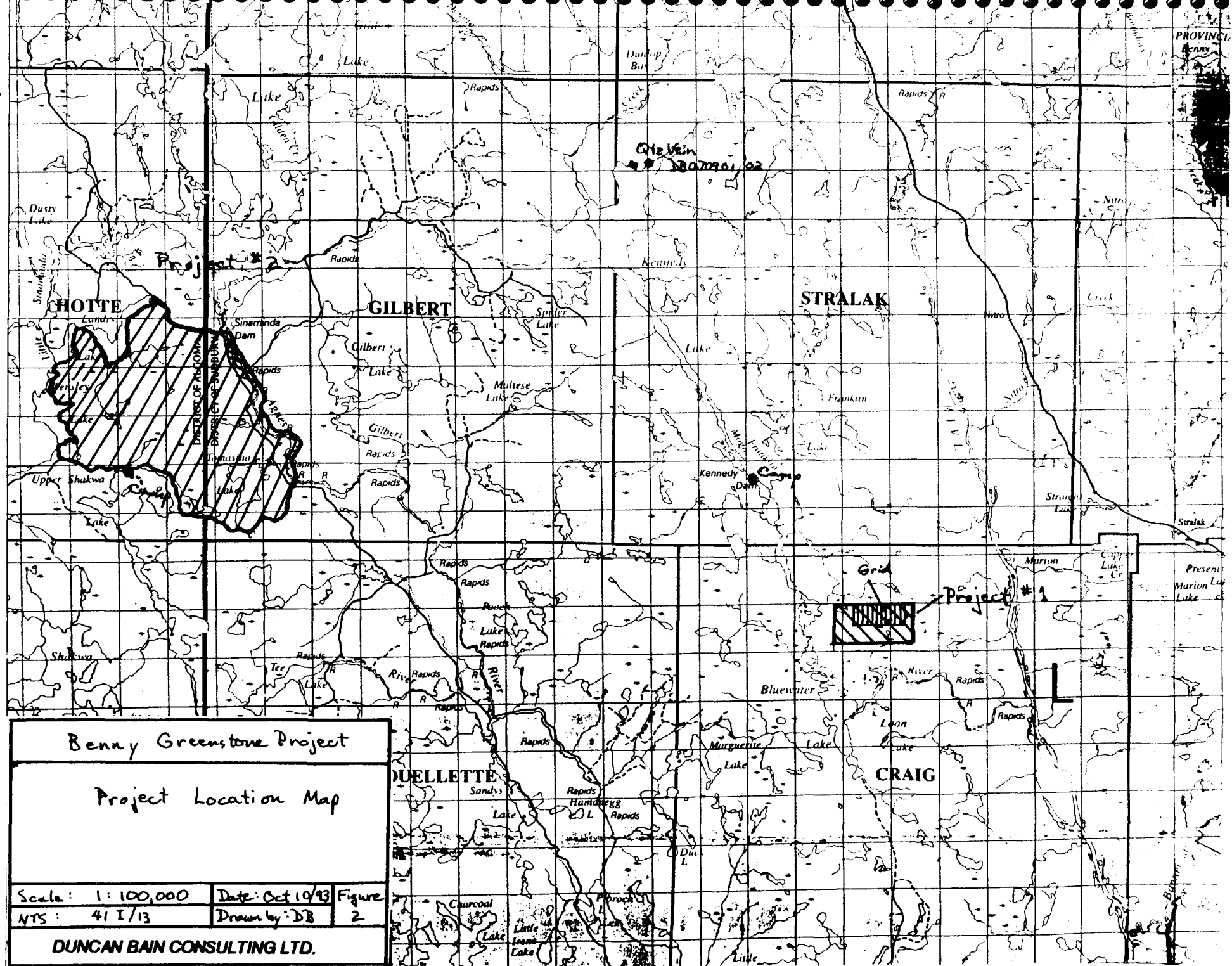
Date: Oct 10/93

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Benny Greenstone Project

Project Location Map

Scale: 1:100,000	Date: Oct 10/93	Figure
NTS: 41 I/13	Drawn by: DB	2

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tholeiitic and calcalkaline basalt and andesite flows, and intermediate to felsic pyroclastics. Some of the pyroclastics are lapilli and crystal tuffs, suggesting some proximity to a volcanic center. Associated metasediments consist of wacke, siltstone and chert. The chert may be a chemical precipitate associated with an exhalative event, or it may represent recrystallized highly siliceous tuffs. Several cycles of volcanic activity are present within the belt, generally dipping south at a moderate to steep angle and striking generally east-west. All cycles contain some stratiform sulphide mineralization, mainly as pyrite and pyrrhotite, although there are local concentrations of chalcopyrite, galena and sphalerite as disseminations, veins and lenses. All of these rocks have been metamorphosed to upper greenschist/lower amphibolite facies.

There are three deposit types that were explored for. The main interest was for volcanogenic massive sulphide deposits which may contain chalcopyrite (copper), galena (lead) and sphalerite (zinc), as well as minor gold and silver mineralization. The second deposit type was exhalative chert-hosted gold mineralization. The third type of deposit was vein-hosted gold mineralization associated with major fault systems. Exploration has been carried out in the past for zinc, lead, copper, silver and gold. The Geneva Lake Mine in Hess Township (east half of the Benny belt) has produced zinc, lead and silver. Other deposits include the Stralak East and West, in northeastern Craig Township and northwestern Ulster Township, and the Straight Lake Occurrence in southwestern Ulster Township. The project covers two areas. Project #1, covering Block Claim 1191407, is underlain by basalt, andesite and mafic tuff, intermediate tuff breccia and lapilli tuff, felsic tuff, lapilli tuff and crystal tuff,

tuffaceous wacke, siltstone, schistose micaceous chloritic metasediments (alteration halo?) and chert. Stratiform sulphide showings, including at least one containing chalcopyrite mineralization, have been reported on the claims. An oxide facies iron formation (silica-magnetite) lies along strike to the east, in Block Claim 1177294. These formations are cut by gabbro dykes and two major northwest-striking fault zones. Project #2 is situated in eastern Hotte and western Gilbert townships, where the belt has not mapped in detail (only 1:250,000). Along the western boundary of the area mapped in detail (east half of Gilbert Twp.) the geology consists of basalt, pillow basalt, andesite and mafic tuff, with only narrow lenses of intermediate and felsic volcanic rocks. The mafic units are cut by several northwest striking gabbro dykes. The only other information available is from OGS Bedrock Geology Map 2544, at 1:1,000,000, indicating a continuation of the Benny Greenstone Belt through Hotte Township, mainly as intermediate to mafic volcanic rocks. However, the map legend indicates the possibility of chert and iron formation within this unit. A sulphide showing containing chalcopyrite and sphalerite mineralization was noted in the southeast corner of Gilbert Township, east of this project area.

PREVIOUS WORK

Project #1 was examined in 1959 by Min-Ore Mines Ltd. At that time a ground EM survey was conducted and four anomalies were noted within the present property boundary. These were drilled the same year by Min-Ore (DDH# 14 to 19). Chalcopyrite was noted in all of the holes but no assay data was included in the drill report. In 1973 J. Descarreaux and Associates conducted an airborne EM survey over the entire belt, including this area. Tex-Sol also did an airborne survey that year. In 1981 Rio Tinto conducted

an airborne EM and magnetometer survey over the belt, including the project area. No further work has been reported from GDIF 242, for Craig Township. In 1991 an airborne EM and magnetometer survey was performed by the Ontario government over the entire belt (OGS Geophysical/Geochemical Series 81538 to 81542). Project #2 covers a section of the Benny Greenstone Belt which has not been mapped in detail. No Geological Data Information Folio (GDIF) exists for either Gilbert or Hotte Townships. Only one area of economic mineralization (chalcopyrite and sphalerite) was noted from government reports (Card and Innis 1981). This occurs in the southeast corner of Gilbert Township, east of the Project #2 area. An airborne geophysical survey published by the Ontario Geological Survey in 1991 showed a weak to moderate EM response 800 meters south of the Gilbert Twp. showing. A linear magnetic anomaly extends northwest from the reported showing for a kilometer. Weak EM responses were also noted in the unmapped areas in Hotte and Gilbert townships and strong linear magnetic anomalies were noted there. It should be mentioned that EM and magnetic responses over known deposits farther east were low to moderate, with stronger responses of both types occurring with graphite/pyrrhotite.

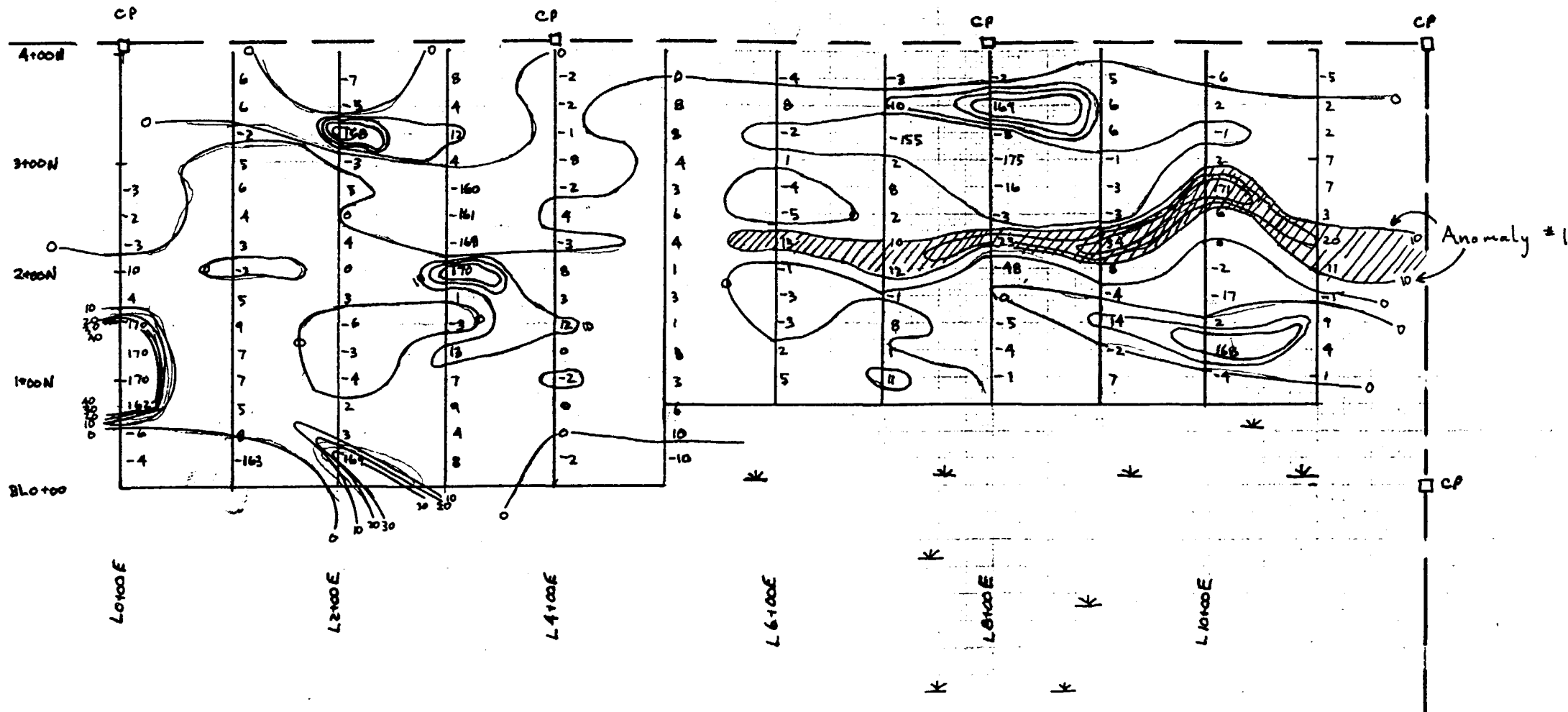
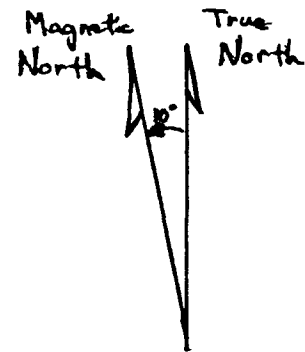
1993 EXPLORATION PROGRAM

A Phase 1 program totalling \$9,940.00 was proposed to explore the western section of the Benny Greenstone Belt for economic mineralization. It involved a two person crew in the field for 21 days, with an additional 4 days to write the report and draft the various maps. Project #1 would require 10 to 14 days in the field from a camp based at Bluewater Lake. EM targets and reported trenches would be relocated. A reconnaissance grid (cut baseline and crosslines) would be established and the grid would be

resurveyed using Shootback Horizontal Loop EM and magnetometer. The grid would be mapped in detail, and any areas of interest would be sampled. The reported old trenches would be retrenched, mapped and resampled for fresh material. Program #2 was a reconnaissance mapping and prospecting program. Airphotos would be used to spot outcrop for mapping. Agnes River runs north along the Hotte/Gilbert townships border, essentially cutting across the greenstone belt. Road access to the river was used to take stream sediment samples to test for elevated metals concentrations whose source would be in the surrounding volcanic rocks. An estimated 100 rock and stream sediment samples would be dried, pulverized and assayed for 24 elements by ICP, plus gold by Fire Assay and graphite furnace Atomic Absorption finish. Further work would be dependent on the results of this program.

WORK DONE AND RESULTS

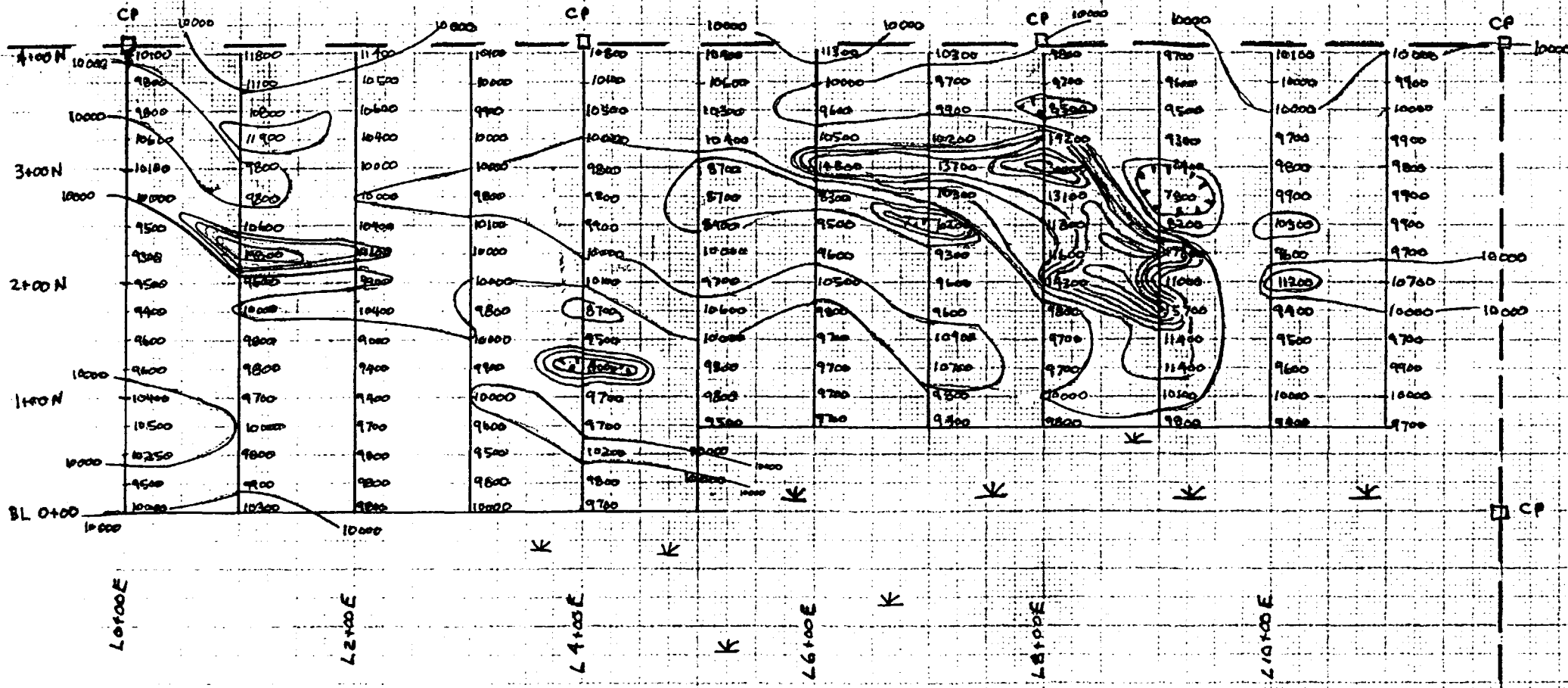
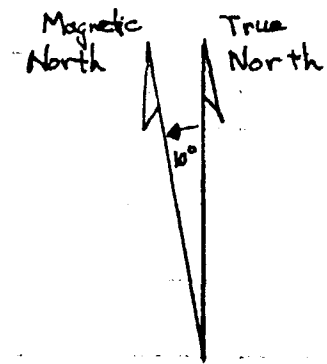
Fieldwork for Project #1 occurred from June 28, 1993 to July 12, 1993. A grid totalling 4.0 kilometers was cut to cover the most promising EM/magnetic anomalies and associated diamond drill holes noted from previous work (Figure 2). Over this grid a Shootback Horizontal Loop EM survey and magnetometer survey were performed to provide greater definition to those anomalies noted from the 1991 airborne survey (Figure 3a,b). The EM survey shows seven anomalies of interest. The four occurring in the west half of the grid can be related to near surface responses from muskeg and/or conductive clays. They have no continuity. In the east half of the grid only one of three anomalies is more than a single site response. This Anomaly #1 extends from L. 6+00E 2+25N to L. 11+00E 2+25N, a distance of 500 meters. The magnetometer survey shows that the only major anomaly



Instrument: Crone Shootback EM
 Frequency: Low 390 Hz
 Coil Spacing: 50 m
 +5 - Sum of Operator #1 + #2 Reading (Appendix A)
 Operators Facing West
 CP - Claim Post, Boundary
 * Cedar Swamp

Block Claim 1191407
 Craig Twp.
 Sudbury District

Banny Greenstone Project		
Project # 1		
Shootback EM Survey		
Horizontal Loop		
Scale: 1:5000	Date: Oct 10/13	Figure 3a
NTS: 4/1/13	Drawn by: DB	
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Instrument: Proton Precession Magnetometer

Calibration: 30,000 γ Maximum

Baseline: 10,000 γ

Contour Interval: 100 γ

Magnetic "High"

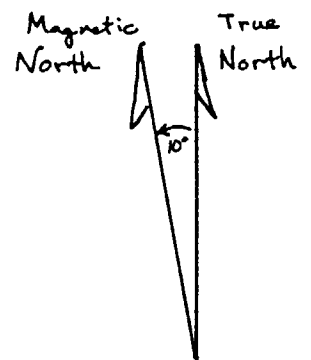
Magnetic "Low"

Claim Boundary, Post Cedar Swamp

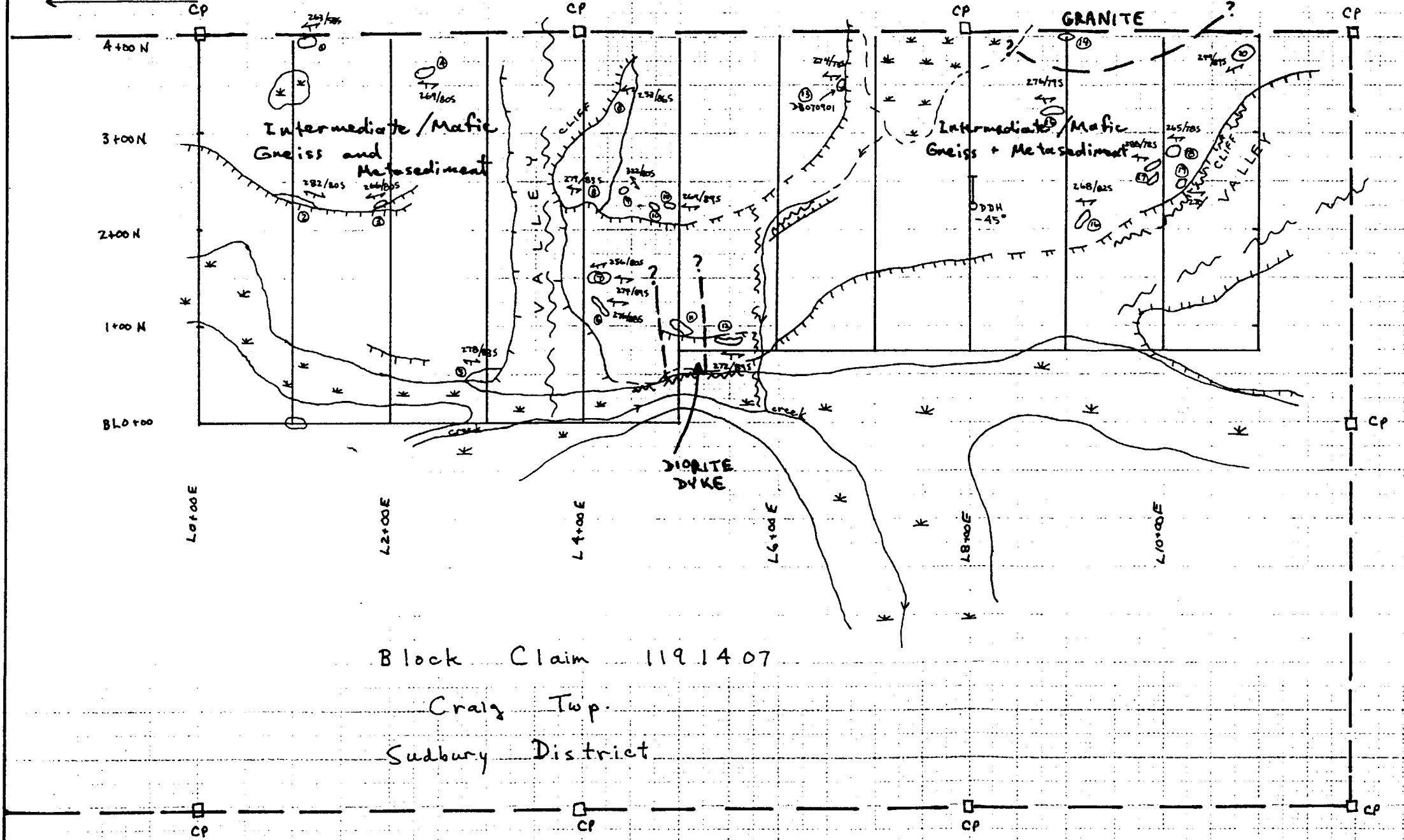
Block Claim 1191407
Craig Twp.
Sudbury District

Benny Greenstone Project
Project # 1
Magnetometer Survey

Scale: 1:5000	Date: Oct 10/93	Figure
NTS: 4 I/13	Drawn by: JJS	34
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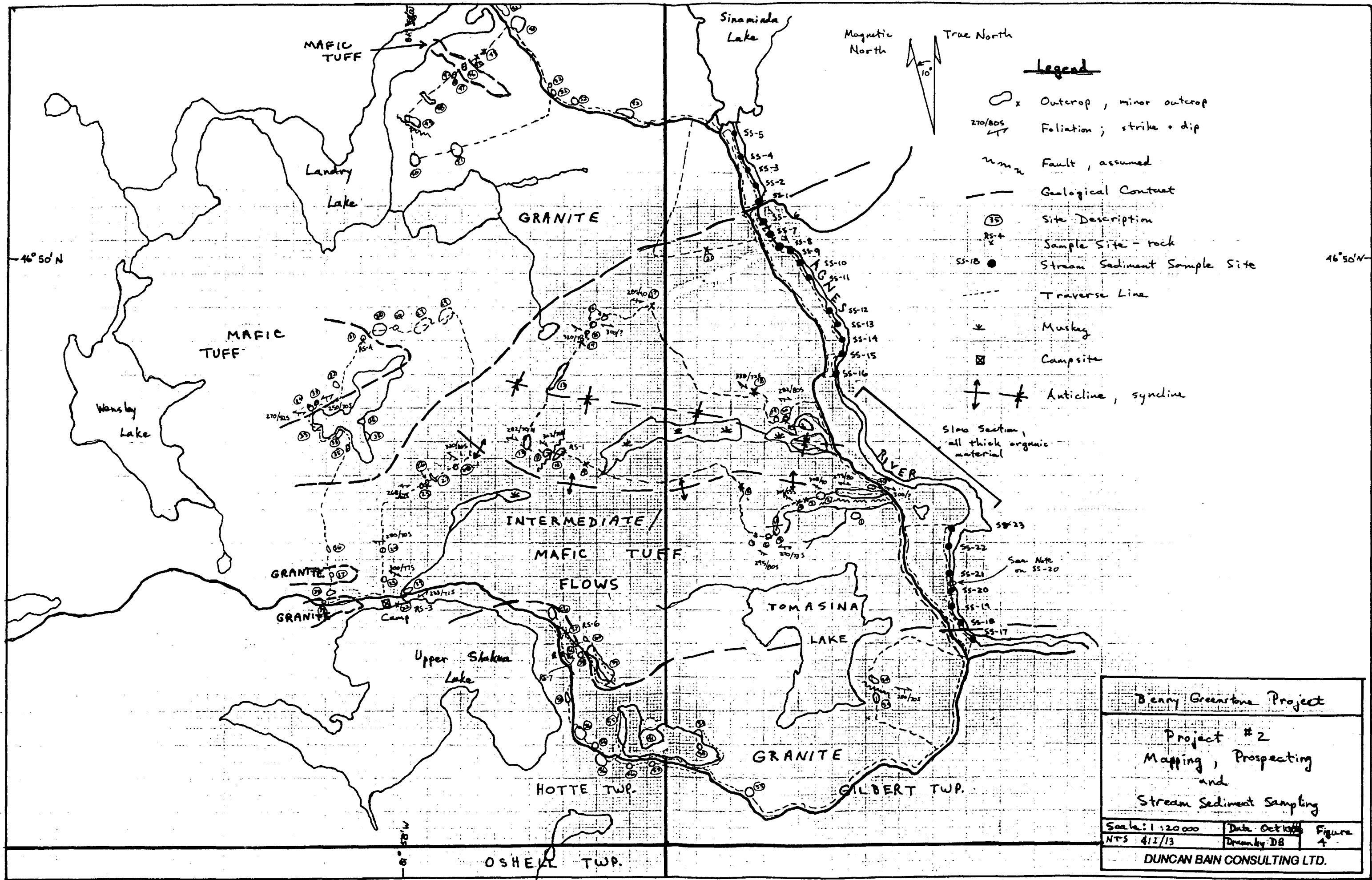
400 Meters to
N.W. Corner Post



- Legend
- Muskeg
 - Topographic Break; steep, gentle
 - Drillhole
 - Claim Boundary, Post
 - Outcrop, with description *
(see Appendix)
 - Fault - inferred
 - Foliation, strike + dip
 - Geological Contact, assumed

Block Claim 1191407
Craig Twp.
Sudbury District

Benny Greenstone Project		
Project #1		
Mapping + Prospecting		
Scale = 1:5000	Date: Oct 10/83	Figure
NTS: ALE/13	Drawn by: DB	3c
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Benny Greenstone Project

Project #2

Mapping, Prospecting and Stream Sediment Sampling

Scale: 1:20,000 Date: Oct 1988 Figure 4

NTS 4/12/13 Drawn by: DB

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occurs from L. 6+00E 3+00N to L. 10+00E 2+00N. It overlaps the EM Anomaly #1 at L. 9+00E 2+00N, suggesting the presence of pyrrhotite mineralization in the underlying bedrock. An attempt was made to locate the original 1959 trenches during mapping and prospecting. This attempt was unsuccessful due to much lower outcrop exposure and much thicker vegetation cover than was anticipated. Therefore no blasting or sampling of old trenches was done. The grid was prospected and mapped, but there was little bedrock exposure or mineralization noted (Figure 3c). The grid is underlain by intermixed intermediate and mafic gneiss suggesting a combination of volcanic tuffs and volcanically derived sediments which have been regionally metamorphosed to upper amphibolite facies. An outcrop of diorite dyke was noted, as was a single outcrop of granite. Sharp topographic breaks represent vertical faults. One of the old drillholes was relocated at L. 8+00E 2+45N by the discovery of a casing rod, and it appears to be collared north of EM Anomaly #1 noted from this years' survey. Only one rock sample was taken on the property (DB071001, see sample descriptions) as there was little worth assaying. Two samples were taken of a 1.5 meter wide rusty weathering quartz vein noted at the north end of Kennedy Lake (DB070901, 02; Exploration camp was located at the south end, at the Kennedy Lake Dam).

Project #2 was planned to continue from July 12 to July 18, 1993. Unseasonal working conditions led to a postponement of this part of the project until September 1. It continued until September 8, 1993, at which point all field work was completed. Two days were spent collecting stream sediment samples at approximately 100 m intervals along the Agnes River. No samples were taken where the streambed was thick organic material. A total of 23

stream sediment samples were taken (Figure 4). Assay results are found in Appendix C. The survey shows that there were no significant elevated metal concentrations present in those stream sediment samples. Five days were spent mapping and prospecting the Project #2 area. Traverses, sample sites and outcrop are located on Figure 4. Outcrop exposure was 20%, mainly consisting of mafic gneisses derived from basalt and andesite tuffs. Occasional pillow basalts were noted, and rare showings of possible lapilli tuff and volcanically derived metasediments were found. There appears to be a syncline/anticline sequence present (possibly overturned pillows) associated with regional metamorphism. Much of the greenstone belt has been invaded by white and pink quartz-feldspar-(biotite)-(hornblende) granites. There was little indication of metasediments or chert. Several pyrite stringers in rusty weathering mafic gneiss (avg. 1/2%) were the only indication of sulphide mineralization and were sampled. No significant assays were noted from these samples. Sample descriptions are found in Appendix D.

RECOMMENDATIONS

It is recommended that Anomaly #1 in the Project #1 area should be further tested by soil sampling to determine if there is any significant sulphide mineralization underlying the anomaly. Further work would depend on the results of this investigation. No further work should be done on the Project #2 area. No mineralization was noted in outcrop or in the stream sediments. The area is moderately overgrown, making the discovery of new rock exposures with mineralization unlikely.

APPENDIX A
GEOPHYSICAL DATA

GEOPHYSICAL DATA

Line	Station	Shootback		EM Survey		Magnetometer	
		Operator 1	Operator 2	Sum	Operator 1	Operator 2	Gamma
0+00E	4+00N						10100
	3+75N						9800
	3+50N						9800
	3+25N						10600
	3+00N						10100
	2+75N						10000
	2+50N						9500
	2+25N						9500
	2+00N						9300
	1+75N						9500
	1+50N						9400
	1+25N						9600
	1+00N						9600
	0+75N						10400
	0+50N						10500
0+25N						10250	
0+00N						9500	
1+00E	4+00N						11800
	3+75N						11100
	3+50N						10800
	3+25N						11900
	3+00N						9800
	2+75N						9800
	2+50N						10600
	2+25N						19800
	2+00N						9600
	1+75N						10000
	1+50N						9800
	1+25N						9800
	1+00N						9700
	0+75N						10000
	0+50N						9800
0+25N						9900	
0+00N						10300	
2+00E	4+00N						11400
	3+75N						10500
	3+50N						10600
	3+25N						10400
	3+00N						10000
	2+75N						10000
	2+50N						10400
	2+25N						11100
	2+00N						9900
	1+75N						10400
1+50N						9000	

	1+25N	54	-50	-3	9400
	1+00N	72	-49	-4	9500
	0+75N	85	-58	2	9700
	0+50N	85	-70	3	9800
	0+25N		-62	169	9800
	0+00N		84		9800
<hr/>					
3+00E	4+00N		-72		10100
	3+75N		-74	8	10000
	3+50N	80	-70	4	9900
	3+25N	76	-71	12	10000
	3+00N	82	-72	4	10000
	2+75N	75	-76	-160	9800
	2+50N	-88	-84	-161	10100
	2+25N	-85	84	-169	10000
	2+00N	-85	76	170	10000
	1+75N	86	79	1	9800
	1+50N	-75	-62	-3	10000
	1+25N	-82	-55	13	9900
	1+00N	75	-54	7	10000
	0+75N	62	-56	9	9600
	0+50N	63	-50	4	9500
	0+25N	60		8	9800
	0+00N	58			10000
<hr/>					
4+00E	4+00N	82			10800
	3+75N	54		-2	10100
	3+50N	65	-84	-2	10500
	3+25N	-67	-56	-1	10000
	3+00N	-58	-66	-8	9800
	2+75N	56	59	-2	9800
	2+50N	26	56	4	9900
	2+25N	60	-52	-3	10000
	2+00N	68	-29	8	10100
	1+75N	78	-52	3	8700
	1+50N	68	-65	12	9500
	1+25N	72	-66	0	4000
	1+00N	78	-68	-2	9700
	0+75N	74	-74	0	9700
	0+50N	78	-78	0	10200
	0+25N		-74	-2	9600
	0+00N		-80		9700
<hr/>					
5+00E	4+00N		82		10400
	3+75N		-80	0	10600
	3+50N	-82	-72	8	10300
	3+25N	88	-74	8	10400
	3+00N	80	-72	4	8700
	2+75N	78	-64	3	8700
	2+50N	75	-45	6	8900
	2+25N	70	-37	4	10000
	2+00N	49	-45	1	9700
	1+75N	38	-56	3	10600
	1+50N	48	-60	1	10000

	1+25N	57	-40	8	9800
	1+00N	68	-25	3	9800
	0+75N	43	-52	6	9500
	0+50N	31	78	10	
	0+25N	62		-10	
	0+00N	-88			

6+00E	4+00N	85			11300
	3+75N	82		-4	10000
	3+50N	56	-89	8	9600
	3+25N	49	-74	-2	10500
	3+00N	48	-58	1	14800
	2+75N	64	-48	-4	8300
	2+50N	85	-52	-5	9500
	2+25N	57	-69	13	9600
	2+00N	52	-72	-1	10500
	1+75N	59	-58	-3	9800
	1+50N	59	-55	-3	9700
	1+25N	64	-62	2	9700
	1+00N		-57	5	9700
	0+75N		-59		9700
	0+50N				
	0+25N				
	0+00N				

7+00E	4+00N		83		10300
	3+75N		86	-3	9700
	3+50N	-86	-69	10	9900
	3+25N	-76	88	-155	10200
	3+00N	-86	-80	2	13700
	2+75N	-86	-76	8	10300
	2+50N	88	-78	2	-6200
	2+25N	78	-76	10	9300
	2+00N	88	-60	12	9600
	1+75N	88	-47	-1	9600
	1+50N	59	-38	8	10900
	1+25N	55	-37	1	10700
	1+00N	39		11	9800
	0+75N	48			9400
	0+50N				
	0+25N				
	0+00N				

8+00E	4+00N	84			9800
	3+75N	88		-2	9700
	3+50N	-80	-86	169	8500
	3+25N	-86	81	-8	19200
	3+00N	-90	72	-175	30000
	2+75N	-70	-89	-16	13100
	2+50N	85	74	-3	11800
	2+25N	42	67	23	11600
	2+00N	54	-62	-48	14300
	1+75N	50	-90	0	9800
	1+50N	46	-54	-5	9700

	1+25N	51	-55	-4	9700
	1+00N		-50	-1	10000
	0+75N		-52		9900
	0+50N				
	0+25N				
	0+00N				

9+00E	4+00N		-55		9900
	3+75N		-72	5	10100
	3+50N	60	-76	6	11400
	3+25N	78	-69	6	11400
	3+00N	82	-61	-1	15700
	2+75N	68	-63	-3	11000
	2+50N	58	-46	-3	17300
	2+25N	60	-67	34	8200
	2+00N	80	-69	8	7800
	1+75N	75	-51	-4	-2400
	1+50N	65	-50	14	9300
	1+25N	65	-68	-2	9500
	1+00N	48		7	9600
	0+75N	75			9700
	0+50N				
	0+25N				
	0+00N				

10+00E	4+00N	74			10100
	3+75N	66		-6	10000
	3+50N	59	-80	2	10000
	3+25N	86	-64	-1	9700
	3+00N	86	-60	2	9800
	2+75N	62	-84	171	9900
	2+50N	46	85	6	10300
	2+25N	20	-56	0	9600
	2+00N	50	-46	-2	11200
	1+75N	66	-22	-17	9400
	1+50N	88	-67	2	9500
	1+25N	-88	-64	168	9600
	1+00N		80	-4	10000
	0+75N		84		9400
	0+50N				
	0+25N				
	0+00N				

11+00E	4+00N		-33		10000
	3+75N		-40	-5	9800
	3+50N	28	-54	2	10000
	3+25N	42	-51	2	9900
	3+00N	56	-49	7	9800
	2+75N	58	-55	7	9900
	2+50N	56	-64	3	9700
	2+25N	58	-75	20	10700
	2+00N	84	75	11	10000
	1+75N	86	63	-1	9700
	1+50N	-76	70	9	9900

1+25N	-54	61	4	10000
1+00N	-66		1	9700
0+75N	-60			
0+50N				
0+25N				
0+00N				

APPENDIX B

OUTCROP DESCRIPTIONS

PROJECT #1

- 1 -med. gr. hbl-d-biot gneiss with qtz lenses to 5 mm thick (boudinage), well fol., layering 2 mm
- 2 -f. gr. hbl-d gneiss, faintly layered, qtz lenses rare
- 3 -same as 2, slightly more siliceous
- 4 -knob of med. gr. hbl-d-biot gneiss, weak foliation
- 5 -weathers med. grey, fresh med grey qtz-feld-(hbl-d)(ser) gneiss, f.gr., weak fol.
- 6 -med brown weathering blue-grey silicified qtz-feld-hbl-d gneiss, slaty cleavage but granular, v.f.gr. tuff or volc. slt.
- 7 -lt. brown-grey weathering med. grey granular qtz-feld-(hbl-d) gneiss, minor 1 mm diam feld. frags (lapilli); occas. musc. rich, some sections with layering of felsic and mafic minerals
- 8 -rusty weathering (no sulphides) well layered qtz-feld-biot gneiss (metasediment), mafic and felsic layering to 5 cm wide, rusty from weathering of biotite; mafic layers may contain lithic feld. frags stretched along fol.; large o/c very resistant to weathering, cliff; in north half 10% of o/c is qtz-feld pegmatite
- 9 -med gr. hbl-d gneiss
- 10 -finely layered hbl-d gneiss
- 11 -grey brown weathering blue-grey fresh massive intermed/mafic med gr diabase/diorite dyke
- 12 -weakly bedded f.gr. intermed. tuff
- 13 -interbedded coarse + f.gr. well bedded mafic tuff; sample DB071001, finely dissemin. 1/2% py in qtz stringers in hornblendite
- 14 -pink coarse gr. granite
- 15 -f.gr. blue grey massive granular mafic tuff (gneiss)
- 16 -mafic tuff banded with qtz eyes to 2 mm diam; 1/2% dissemin. py grains
- 17 -f.gr. intermed. tuff
- 18 -well layered lt. brown weathering med. grey/blue f.gr. massive mafic tuff
- 19 -massive blue-grey to f.gr. med. grey granular intermed. tuff

20 -f.gr. granular blue grey, weathers med grey hbl-d-qtz-feld gneiss (mafic tuff)

21 -1.5 m wide qtz vein, vertical, 10% feldspar, rusty along sutures; north end Kennedy Lake (see Figure 2), sample DB070901, 02

PROJECT #2

1 -o\c ridge of mafic/intermed gneiss, weathers pale/med grey, med gr. granular, cut by approx 10% pink granitic dykes along foliation 295/80N; area newly logged and cleared

2 -pillow basalts, Az 308/vert, length avg. 1.5 m, width avg 30 cm, weathers med./lt. green with dk green rims avg 4 cm wide; tops unknown, probable N overturned; minor andesite flow to SW 10 m distance

3 -med. gr. v. granular tuff/lapilli tuff; weathered surface "lumpy", no obvious lapilli

4 -andesite flow brxx, Az 305/55S, andesite pillowed weathers med/lt green

5 -pillowed flows, Az 270/73S, top of knob, andesitic basalt or basalt with hbl-d altered to chlor; mottling fine, 1 mm diam green + blue-grey med gr.; approx. contact between pillows to N and med. gr. basalt tuff to S; cut along fol. by granitic dyke with Az 263/80N

6 -basalt tuff, fol 295/80S

7 -basalt tuff, dk green fresh, med gr. granular

8 -large subcrop mafic tuff, fresh dk green granular; v. close to in place

9 -same as 8

10 -basalt tuff, med-f.gr. blue-grey fresh, occas. rusty surface from dissem + bleb py, sample RS-1

11 -across small sharp valley (fault) from 10, med gr. coarse weathering well fol. mafic tuff(gneiss), Az 303/70 N

12 -top of knob; ridge running 020, fol. 282/72N

13 -dk blue grey massive f.gr. basalt tuff

14 -same as 13

15 -Az 320/78S, med gr. well fol green-grey hbl-d gneiss, xstls to 5 mm euhedral

16 -same rock, fol 300/50N

17 -med green grey med gr. granular andesite/basalt tuff, Az 285/90

- 18 -Az 338/72S, mafic tuff, rare barren white qtz vein 10 cm wide along fol
- 19 -same as 18
- 20 -coarsely layered alternating black and lt grey weathering gneiss; fol 282/80S; segregation of mafic and felsic minerals from original intermed tuff/metased; mafic band shows coarse hbl'd xstls to 1 cm long; 1/2% dissem. py, sample RS-2
- 21 -moderately granitized mafic gneiss, pink-grey tinge, med-coarse gr., streaky fol.
- 22 -at campsite, N shore Upper Shakwa Lake; rusty weathering intermed./mafic gneiss, siliceous, with 1/2% dissem. py, sample RS-3
- 23 -intermed. tuff, med. gr. mod. fol. Az 300/77S
- 24 -mafic tuff, fol. Az 280/70S
- 25 -hbl'd gneiss, fresh blue grey med gr.; subhedral hbl'd laths to 3 mm along fol. Az 268/62S; weathers med grey granular
- 26 -med grey granular weathering, fresh dk grey f.gr. weakly fol siliceous (sharp fracture edge) mafic gneiss; slight rusty weathering
- 27 -small ridge facing SW; fresh med grey f.gr. massive to weakly fol. mafic gneiss; weak sericitiz. along fol. plane to give sheen (schistose); weathers med grey f.gr texture, weakly rusty patches; salt and pepper banding suggests intermed tuff/metasediment; rare py grains rusted out in fresh rock
- 28 -foliation 320/80S; pinkish grey weathering fresh med grey/lt. green intermed. tuff, fine foliation
- 29 -knoll may consist of brick red coarse-med gr. hbl'd granite, 5-10% hbl'd; numerous round and angular blocks of this material downslope; no bedrock exposure; an indicator for underlying granitics in the change in vegetation to open mature spruce + pine with little undergrowth
- 30 -increase in mafic gneiss in rubble; approaching granite/mafic gneiss contact
- 31 -med-coarse gr. amphibolite; hbl'd altered to chlor., laths subhedral to 5 mm, random orient.(?); N side of ridge; weakly magnetic, 1/2% po, sample RS-4
- 32 -coarse gr. pale grey-pale pink weathering, fresh dk grey feld/qtz + 20% red feld laths, xstlline, gneissic; no foliation available
RS-4
- 33 -possible andesite flow brxx; stretched subangular med/dk green med gr. granular tuff frags to 50 cm long X 20 cm wide in white grey-pale pink xstl lapilli tuff matrix; approx 60% frags, 40% ash; flow along foliation Az

250/70S

- 34 -intermed./mafic tuff; fol 270/52S, occas. refold (Z) on 1/2 m scale
- 35 -lt pink weathering, med grey/med pink granite, gneissic along shores of shallow lake; contacts with tuff to N is hidden
- 36 -mafic tuff; med-f.gr. weathers med grey, fresh dk blue grey, faint foliation 272/82S; grey bull qtz + granite dykelets injected along fol.; contact with granite along lakeshore; near top of hill?
- 37 -red granite, N side of ridge
- 38 -well fol. finely fol. lt + dk grey layers, fol 332/48S, occas. rusty weathering intermed. tuff (dacite?); looks like original ash under hand lens
- 39 -possible mafic flow, dk green xstillne, fol 233/71S, N side of road
- 40 -on Agnes R. road, new logging road; pillow basalts, flow strike 300, lies N of known mafic tuff (flow?)
- 41 -pink granite on point across lake
- 42 -N side Landry Lake; pink granites
- 43 -pink granite + (dykelet) cutting white granite
- 44 -weather pale grey, coarse texture; fresh med. grey/lt. grey med/coarse gr. x'stllne, granular white granite
- 45 -pink nodular granite, gneissic fabric
- 46 -mafic tuff; dk green-grey med.gr. granular; weathers med. grey granular
- 47 -pink granite
- 48 -red granite
- 49 -ridge of pink granite/red granite; sharp drop to SW of 20 m; presumed fault Az 320/? along foliation of volcanics; granite probably has fol 320/50S
- 50 -red granite (qtz-feld-hbld); weathers red-pink, fresh brick red mottled with 15-20% subhedral/anhedral hbld laths to 5 mm
- 51 -red granite
- 52 -pink granite
- 53 -mafic tuff

- 54 -pink/red granite gneiss; sharp drop of 10 m to S to valley floor;
probable fault along gneissosity 280/705
- 55 -pink unfol. granite
- 56 -white/pale pink weathering qtz-feld-(hbl) granite
- 56a -pink granite; possible contact with andesite in place
- 57 -andesite tuff float, angular, with 5 cm coarse qtz xstllne veins, rusty,
with py blebs; qtz may be chert lens rexstll; source to N, sample RS-6
- 58 -pink granite
- 59 -basalt/andesite tuff; green-grey to blue-grey granular med. gr.; no
apparent fol.; in close contact (not exposed) with pink granite to S
- 60 -"basalt" becoming coarse gr., lighter in colour, possibly due to
contamination from granitic material (diffuse contact, some still
recognizable basalt tuff)
- 61 -rusty weathering float, angular andesite tuff/basalt (dk green fresh)
with narrow pink feld. layers to 3 mm along fol.; xstls, grains + narrow 1-2
mm layers of py and py altered to limonite, usually surrounded by apple
green chlor. altered andesite; sample RS-7

APPENDIX C
ASSAY CERTIFICATES



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 5175 Timberlea Blvd., Mississauga,
 Ontario, Canada L4W 2S3
 PHONE: 416-624-2806

To: BAIN, DUNCAN CONSULTING LTD.

UNIT 17, 1318 HIGHBURY AVE.
 LONDON, ON
 N5Y 5E5

Project: BENNY
 Comments: ATTN: DUNCAN BAIN

Page Number :1-A
 Total Pages :1
 Certificate Date: 20-OCT-93
 Invoice No. :19322441
 P.O. Number :930919
 Account :LFV

CERTIFICATE OF ANALYSIS A9322441

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
69751	217 285	< 5	< 0.2	7.23	470	1.0	< 2	1.56	< 0.5	12	190	12	3.02	2.47	0.82
69752	217 285	not/ss	< 0.2	5.81	450	0.5	< 2	1.69	< 0.5	11	808	34	2.86	1.67	0.80
69753	217 285	< 5	< 0.2	7.77	530	0.5	< 2	2.80	< 0.5	13	168	11	2.97	1.63	1.17
69754	217 285	< 5	< 0.2	6.58	420	1.0	< 2	1.17	< 0.5	6	491	3	1.46	2.37	0.48
69755	217 285	< 5	< 0.2	7.39	560	1.0	2	1.91	< 0.5	10	235	8	2.33	2.43	0.95
69756	217 285	< 5	< 0.2	7.24	510	1.0	< 2	1.77	< 0.5	13	224	8	2.87	2.27	0.90
69757	217 285	< 5	< 0.2	6.95	410	1.0	2	1.37	< 0.5	11	186	10	2.38	2.40	0.76
69758	217 285	< 5	< 0.2	6.78	480	0.5	2	1.80	< 0.5	17	385	14	3.70	1.99	1.12
69759	217 285	< 5	< 0.2	7.05	470	1.0	< 2	1.41	< 0.5	13	119	7	2.86	2.43	0.72
69760	217 285	< 5	< 0.2	7.04	480	1.0	2	1.58	< 0.5	11	185	7	2.74	2.15	0.69
69761	217 285	< 5	< 0.2	6.65	500	1.0	2	1.40	< 0.5	13	186	10	2.81	2.16	0.69
69762	217 285	50	< 0.2	7.20	570	1.0	2	1.91	< 0.5	10	150	11	2.17	2.05	0.88
69763	217 285	< 5	< 0.2	6.96	490	1.0	2	1.46	< 0.5	11	155	6	2.27	2.31	0.75
69764	217 285	< 5	< 0.2	7.29	500	1.0	< 2	1.51	< 0.5	15	175	9	2.61	2.54	0.79
69765	217 285	< 5	< 0.2	7.05	510	1.0	< 2	1.44	< 0.5	11	181	8	2.31	2.26	0.66
69766	217 285	< 5	< 0.2	7.33	490	1.0	< 2	1.76	< 0.5	14	104	15	3.24	2.34	0.96
69767	217 285	< 5	< 0.2	6.74	1290	1.0	< 2	1.42	0.5	58	358	20	6.48	2.32	0.68
69768	217 285	15	< 0.2	6.98	560	1.5	< 2	1.10	< 0.5	11	180	10	3.19	2.54	0.45
69769	217 285	15	< 0.2	7.18	510	1.0	< 2	1.71	< 0.5	12	108	14	2.68	2.15	0.98
69770	217 285	< 5	< 0.2	6.27	1110	0.5	< 2	1.42	< 0.5	61	130	18	8.86	1.95	0.68
69771	217 285	< 5	< 0.2	7.40	590	1.5	2	1.43	< 0.5	15	132	10	4.04	2.30	0.51
69772	217 285	< 5	< 0.2	6.65	900	0.5	< 2	2.28	< 0.5	49	100	19	9.97	1.53	1.15
69773	217 285	< 5	< 0.2	6.76	480	1.0	< 2	1.11	< 0.5	9	159	10	1.76	2.35	0.63

CERTIFICATION: *Handwritten signature*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 5175 Timberlea Blvd., Mississauga,
 Ontario, Canada L4W 2S3
 PHONE: 416-624-2806

To: BAIN, DUNCAN CONSULTING LTD. **

UNIT 17, 1318 Highbury Ave.
 LONDON, ON
 N5Y 5E5

Project: BENNY
 Comments: ATTN: DUNCAN BAIN

Page Number : 1-B
 Total Pages : 1
 Certificate Date: 20-OCT-93
 Invoice No. : 19322441
 P.O. Number : 930919
 Account : LFV

CERTIFICATE OF ANALYSIS A9322441

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
69751	217 285	675	< 1	2.89	20	430	44	220	0.22	64	< 10	30			
69752	217 285	495	2	2.11	36	500	40	232	0.36	51	< 10	96			
69753	217 285	510	< 1	2.96	23	820	8	340	0.49	75	< 10	40			
69754	217 285	230	< 1	2.72	17	220	12	213	0.19	28	< 10	12			
69755	217 285	410	1	2.85	22	310	10	256	0.24	58	< 10	24			
69756	217 285	770	1	2.84	21	550	12	258	0.27	63	< 10	40			
69757	217 285	705	1	2.84	19	430	12	208	0.23	54	< 10	26			
69758	217 285	960	1	2.61	32	540	14	241	0.38	85	< 10	54			
69759	217 285	1125	1	2.81	18	440	14	217	0.20	56	< 10	36			
69760	217 285	570	1	2.84	17	490	12	251	0.28	58	< 10	40			
69761	217 285	915	1	2.68	19	460	14	236	0.26	57	< 10	48			
69762	217 285	385	< 1	2.88	19	420	12	318	0.28	57	< 10	24			
69763	217 285	460	1	2.79	18	370	12	234	0.23	54	< 10	30			
69764	217 285	1350	1	2.89	22	400	14	222	0.21	59	< 10	44			
69765	217 285	575	1	2.83	18	470	16	254	0.25	49	< 10	44			
69766	217 285	955	4	2.85	28	450	14	242	0.24	73	< 10	50			
69767	217 285	>10000	10	2.53	34	680	12	201	0.19	77	< 10	178			
69768	217 285	1150	4	2.82	14	450	14	210	0.14	39	< 10	50			
69769	217 285	545	1	2.90	24	180	14	261	0.27	66	< 10	28			
69770	217 285	>10000	14	2.31	30	870	14	201	0.21	93	< 10	180			
69771	217 285	1545	6	2.95	16	610	14	252	0.16	54	< 10	82			
69772	217 285	8820	11	2.33	28	1130	12	217	0.36	124	< 10	180			
69773	217 285	300	1	2.69	19	240	10	209	0.16	40	< 10	20			

CERTIFICATION:

John A. Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 5175 Timberlea Blvd., Mississauga,
 Ontario, Canada L4W 2S3
 PHONE: 416-624-2806

To: BAIN, DUNCAN CONSULTING LTD. **

UNIT 17, 1318 HIGHBURY AVE.
 LONDON, ON
 N5Y 5E5

Project: BENNY
 Comments: ATTN: DUNCAN BAIN

Page Number : 1-B
 Total Pages : 1
 Certificate Date: 14-OCT-93
 Invoice No. : 19322442
 P.O. Number : 930919
 Account : LFV

CERTIFICATE OF ANALYSIS A9322442

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
69774	205 226	1645	2	1.66	47	740	< 2	136	0.93	250	< 10	138			
69775	205 226	890	4	1.14	16	490	< 2	115	0.16	57	< 10	118			
69776	205 226	70	< 1	0.06	14	30	< 2	5	0.01	12	< 10	8			
69777	205 226	60	< 1	0.26	12	50	2	5	0.01	16	< 10	6			
69778	205 226	1410	3	2.57	24	1090	2	384	0.86	113	10	118			
69779	205 226	1390	1	2.15	32	1780	< 2	233	0.93	215	10	98			
69780	205 226	1350	< 1	2.35	58	590	14	187	0.55	201	50	116			
69781	205 226	1380	2	2.33	61	700	2	190	0.88	263	10	104			
69782	205 226	630	1	0.20	31	440	8	965	0.42	177	< 10	112			
69783	205 226	1250	2	2.50	40	910	< 2	277	0.78	157	< 10	52			

CERTIFICATION:

Stanley P. ...



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 416-624-2806

To: BAIN, DUNCAN CONSULTING LTD.

UNIT 17, 1318 HIGHBURY AVE.
LONDON, ON
N5Y 5E5

Project : BENNY
Comments: ATTN: DUNCAN BAIN

Page Number : 1-A
Total Pages : 1
Certificate Date: 14-OCT-93
Invoice No. : 19322442
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CERTIFICATE OF ANALYSIS A9322442

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
69774	205 226	65	0.2	6.58	130	< 0.5	< 2	5.97	< 0.5	36	129	76	9.14	0.42	2.33
69775	205 226	< 5	< 0.2	4.06	90	< 0.5	4	2.27	< 0.5	11	212	124	9.53	0.61	2.79
69776	205 226	< 5	< 0.2	0.39	< 10	< 0.5	4	0.11	< 0.5	3	424	16	0.85	0.04	0.30
69777	205 226	< 5	< 0.2	0.86	< 10	< 0.5	4	0.03	< 0.5	3	338	7	1.01	0.04	0.62
69778	205 226	< 5	0.4	6.14	140	1.0	6	4.90	< 0.5	41	74	366	9.70	0.32	2.16
69779	205 226	< 5	< 0.2	8.29	340	< 0.5	4	5.43	< 0.5	27	122	176	9.12	0.98	2.23
69780	205 226	< 5	< 0.2	7.29	340	< 0.5	< 2	3.40	< 0.5	28	196	95	7.67	1.01	2.81
69781	205 226	< 5	< 0.2	7.29	300	< 0.5	2	5.08	< 0.5	47	132	46	8.71	0.93	3.47
69782	205 226	5	4.2	5.51	180	< 0.5	4	6.40	< 0.5	15	148	2010	8.36	0.62	0.90
69783	205 226	< 5	0.2	6.53	150	0.5	4	3.64	< 0.5	31	59	860	8.13	0.44	1.87

CERTIFICATION: *Hart Buchler*

-16-

APPENDIX D
SAMPLE DESCRIPTIONS

SAMPLE DESCRIPTIONS

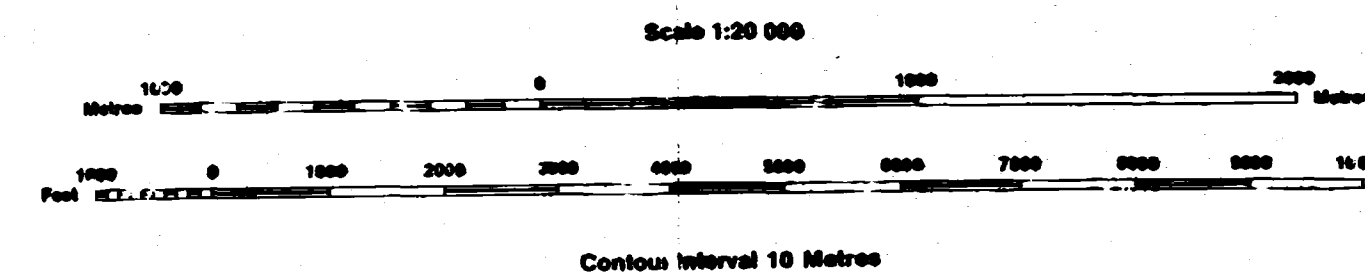
- 69751 - Stream Sediment SS-1, upstream side of bridge
- 69752 - Stream Sediment SS-2, organics + sand, south end of "lake", 100 m above SS-1
- 69753 - Stream Sediment SS-3, 150 m upstream from SS-2
- 69754 - Stream Sediment SS-4, 100 m upstream from SS-3
- 69755 - Stream Sediment SS-5, 100 m above SS-4, 20 m below Siniminda Dam and opposite road junction
- 69756 - Stream Sediment SS-6, 100 m below bridge.
- 69757 - Stream Sediment SS-7, 100 m downstream from SS-6, in rapids
- 69758 - Stream Sediment SS-8, 100 m downstream from SS-7
- 69759 - Stream Sediment SS-9, 100 m downstream from SS-8; swamp to west, opposite south end of island in river
- 69760 - Stream Sediment SS-10, 100 m downstream of SS-9; swamp and beaver dam approx. 50 m upstream
- 69761 - Stream Sediment SS-11, 95 m downstream from SS-10, just above widening with island
- 69762 - Stream Sediment SS-12, approx. 225 m below SS-11; stretch of slow water with organics not sampled
- 69763 - Stream Sediment SS-13, 100 m downstream from SS-12
- 69764 - Stream Sediment SS-14, 100 m downstream from SS-13, 20 m downstream from cleared area on west shore
- 69765 - Stream Sediment SS-15, 100 m downstream from SS-14, at base of rapids, with pool below
- 69766 - Stream Sediment SS-16, sharp abrupt rapids 100 m below SS-15, sampled at base, widens to slow grassy section with lots of organics
- 69767 - Stream Sediment SS-17, started at south junction of Agnes River road and worked north; sample taken 50 m above junction position
- 69768 - Stream Sediment SS-18, 125 m upstream from SS-17
- 69769 - Stream Sediment SS-19, 125 m upstream from SS-18
- 69770 - Stream Sediment SS-20, 80 m upstream from SS-19; bay 50 m upstream from SS-19 on west side

- 69771 - Stream Sediment SS-21, upstream 100 m from SS-20, py present
69772 - Stream Sediment SS-22, 165 m upstream from SS-21
- 69773 - Stream Sediment SS-23, deep bay at 95 m above SS-22, with old dam/bridge; upriver broadens out, slow; sand/silt sample taken from in front of dam
- 69774 - Rock sample DB070901, qtz vein N end of Kennedy Lake
- 69775 - Rock Sample DB070902, qtz vein N end of Kennedy Lake
- 69776 - Rock Sample DB071001, 1/2% py in qtz stringers in hornblendite
- 69777 - Rock Sample RS-1, basalt tuff, med-f.gr. blue-grey fresh, occas. rusty surface from dissem + bleb py
- 69778 - Rock Sample RS-2, coarsely layered alternating black and lt grey weathering gneiss, 1/2% dissem. py
- 69779 - Rock Sample RS-3, N shore Upper Shakwa Lake; rusty weathering intermed./mafic gneiss, siliceous, with 1/2% dissem. py
- 69780 - Rock Sample RS-4, med-coarse gr. amphibolite; N side of ridge; weakly magnetic, 1/2% po
- 69781 - Rock Sample RS-6, andesite tuff float, angular, with 5 cm coarse qtz xstllne veins, rusty, with py blebs; qtz may be chert lens rexstll; source to N
- 69782 - Rock Sample RS-7, rusty weathering float, angular andesite tuff/basalt (dk green fresh) with narrow 1-2 mm layers of py and py altered to limonite, usually surrounded by apple green chlor. altered andesite

INDEX TO LAND DISPOSITION

PLAN
G-2952
TOWNSHIP
CRAIG

M.N.R. ADMINISTRATIVE DISTRICT
ESPANOLA
MINING DIVISION
SUBBURY
LAND TITLES/REGISTRY DIVISION
SUBBURY



AREAS WITHDRAWN FROM DISPOSITION

Description	Order No.	Date	Disposition	File
5 C.C. 34/80	W 4/87	14/L/2	S.R.O.	127648

SYMBOLS

Boundary	
Township, Meridian, Baseline	—
Road allowance; surveyed	—
shr. reline	—
Lot/Concession; unsurveyed	—
surveyed	—
Partly; surveyed	—
unsurveyed	—
Right-of-way; road	—
utility	—
Reservation	—
Cliff, Pit, Sho.	—
Contour	—
Interpolated	—
Approximate	—
Depression	—
Control point (horizontal)	—
Flooded land	—
Mine head frame	—
Pipeline (above ground)	—
Railway; single track	—
do. double track	—
abandoned	—
Road; highway, county, township	—
access	—
trail, bush	—
Shoreline (original)	—
Transmission line	—
Wooded area	—

NOTES

THE SUBDIVISION OF THIS TOWNSHIP INTO LOTS AND CONCESSIONS IS ANNULLED AUGUST 21, 1968.

DISPOSITION OF CROWN LANDS

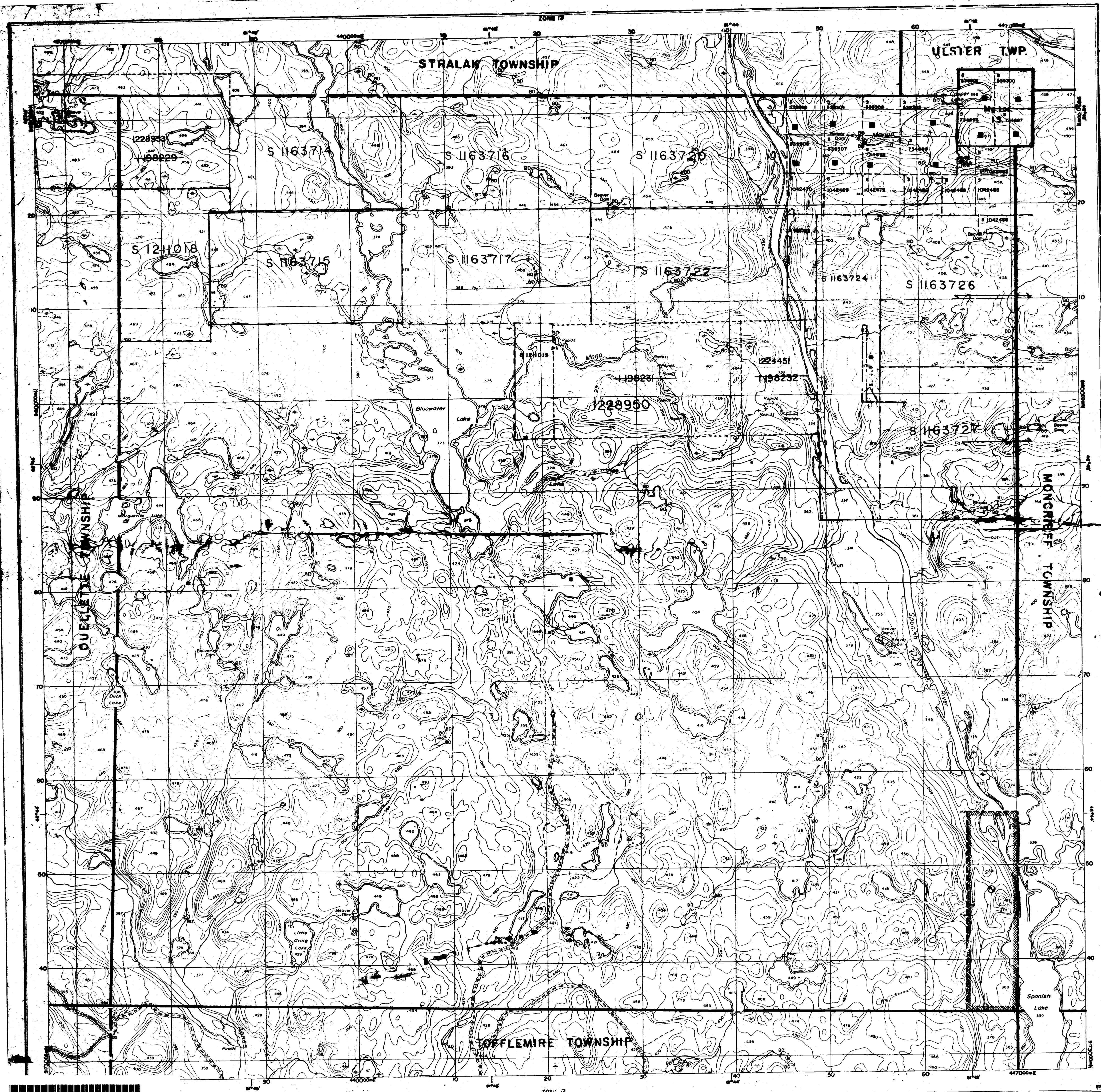
Patent	●
Surface & Mining Right	●
Surface Rights Only	○
Mining Rights Only	○
Lease	■
Surface & Mining Right	■
Surface Rights Only	■
Mining Rights Only	■
Licence of Occupation	▼
Order-in-Council	○
Cancelled	○
Reversion	○
Sand & Gravel	○

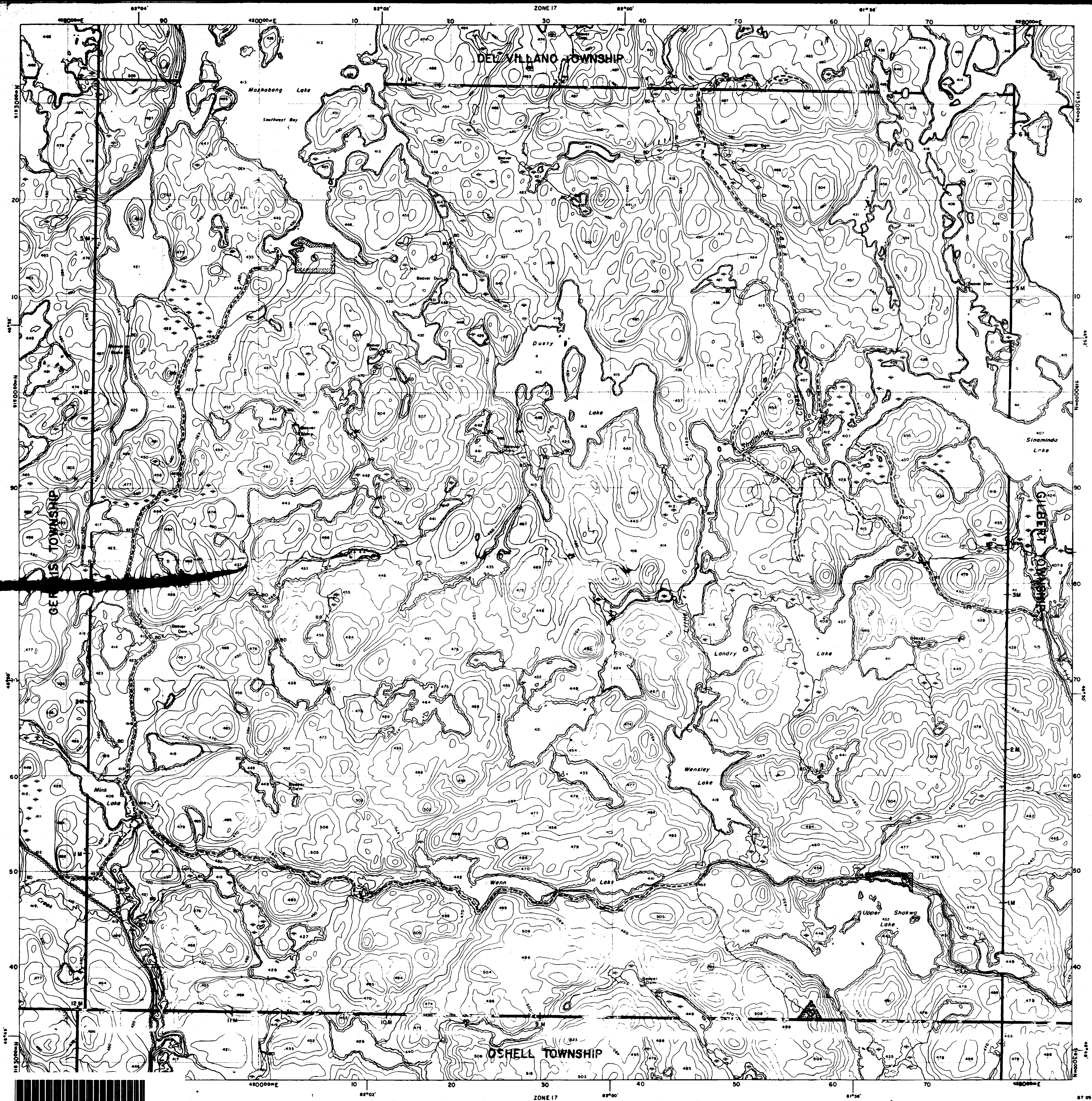
DATE OF ISSUE

JUN 09 1998

PROVINCIAL RECORDING
OFFICE - SUBBURY

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STATE 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.



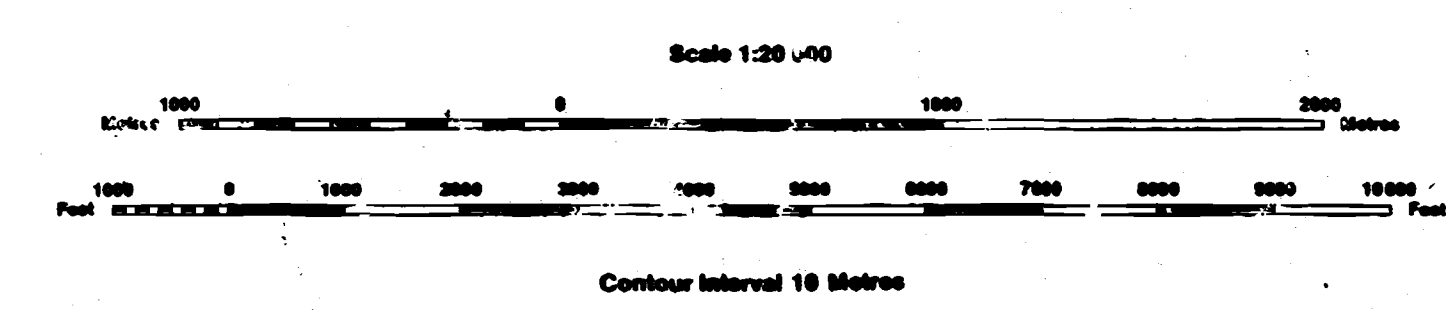


INDEX TO LAND DISPOSITION

PLAN
 G-2965
 TOWNSHIP

M.N.R. ADMINISTRATIVE DISTRICT
ESPANOLA
 MINING DIVISION
SUDBURY
 LAND TITLES/REGISTRATION DIVISION
ALGOMA

HOTTE



SYMBOLS

Boundary	
Township, Meridian, Baseline	—
Road allowance: surveyed	—
shoreline	—
Lot/Concession: surveyed	—
unsurveyed	—
Parcel: surveyed	—
unsurveyed	—
Right-of-way: road	—
railway	—
utility	—
Reservation	—
Chff. Pk. Pile	—
Contour	—
Interpolated	—
Approximate	—
Depression	—
Control point (horizontal)	—
Flooded land	—
Mine head frame	—
Pipeline (above ground)	—
Railway: single track	—
double track	—
abandoned	—
Road: highway, county, township	—
access	—
trail, bush	—
Shoreline (original)	—
Transmission line	—
Wooded area	—

AREAS WITHDRAWN FROM DISPOSITION

MRO - Mining Rights Only
 SRO - Surface Rights Only
 M + S - Mining and Surface Rights

Description	Order No.	Date	Disposition	File
SEC. 43/70	N. 43/74	14/8/74	S.R.O.	18954
SEC. 36/80	N. 8/83	31/3/83	S.R.O.	7704

DISPOSITION OF CROWN LANDS

Patent	●
Surface & Mining Rights	●
Surface Rights Only	●
Mining Rights Only	●
Lease	■
Surface & Mining Rights	■
Surface Rights Only	■
Mining Rights Only	■
Licence of Occupation	▽
Order-in-Council	OC
Cancelled	○
Reservation	○
Sand & Gravel	○

DATE OF ISSUE
 JUN 09 1998

PROVINCIAL RECORDING
 OFFICE - SUDBURY

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IN SERVICE AUGUST 18, 1992

2965
HOTTE TWP
G-2965



440000E

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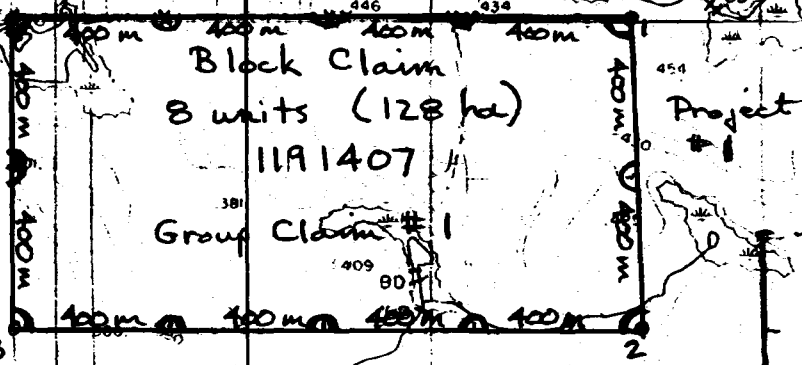
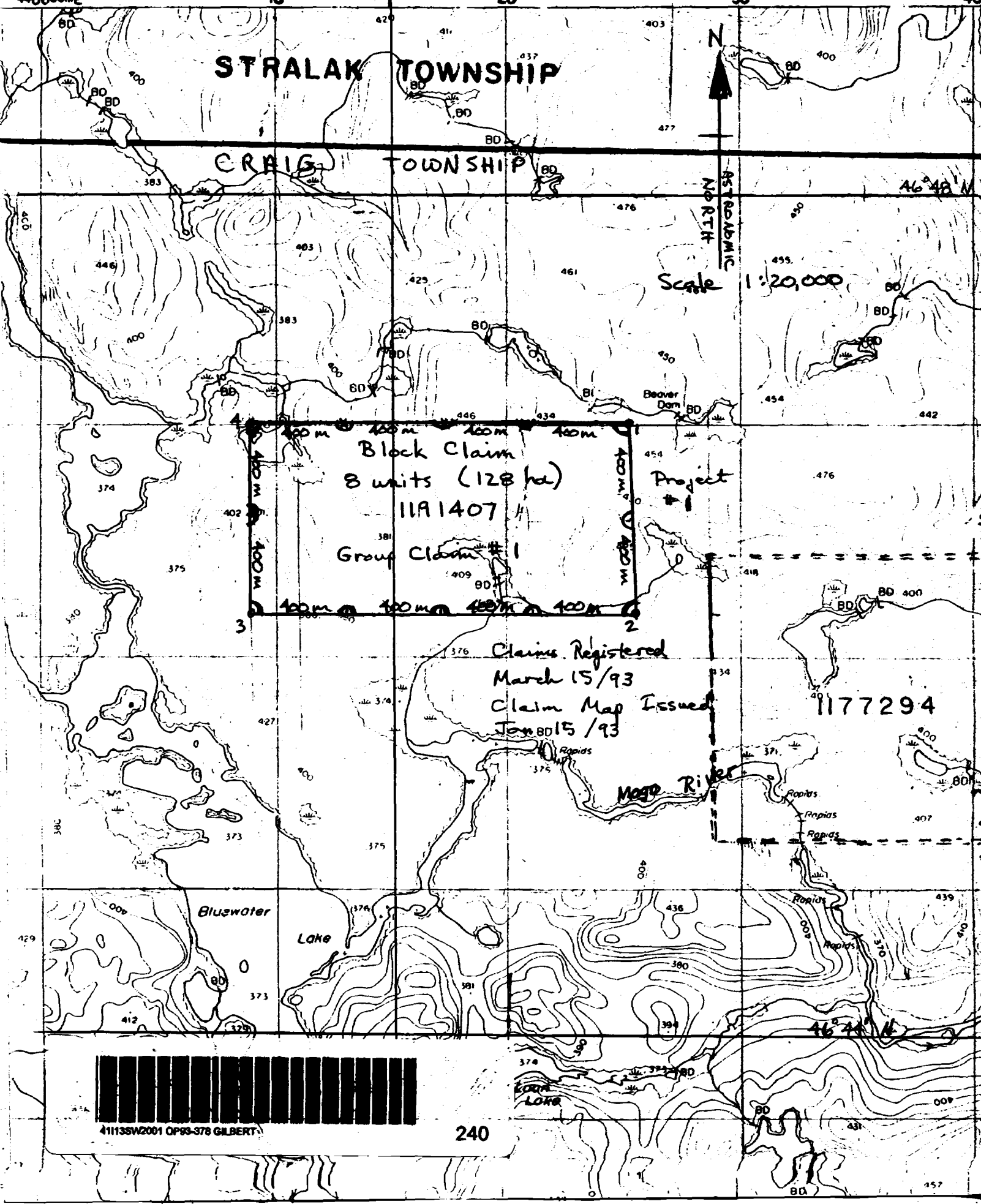
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STRALAK TOWNSHIP

CRAIG TOWNSHIP



Scale 1:20,000



Claims Registered
March 15/93
Claim Map Issued
Jan 15/93

1177294

Bluswater
Lake

Moose River



41135W2001 OP93-378 GILBERT

240

157