



31C13SE0056 2.9638 TUDOR

010

Report of VLF-electromagnetic Survey and Rock Analysis;

Tudor Township, Eastern Ontario.

EO 820718, EO 820719, EO 820720, EO 820721.

R.J. Dillman

Lic. # D-18466

RECEIVED

DEC 22 1986

MINING LANDS SECTION

Location and Access

The property is located in the north east corner of Tudor township in eastern Ontario. It lies three miles south east of the town of Gilmour. The property currently consists of four claims:

- EO. 820718; lot 5, conc. XIV, south $\frac{1}{2}$
- EO. 820719; lot 5, conc. XIII, north $\frac{1}{2}$
- EO. 820720; lot 6, conc. XIII, north $\frac{1}{2}$
- EO. 820721; lot 6, conc. XIII, south $\frac{1}{2}$

There is good access to the claims by following an access road to the hydro power lines located south of Gilmour. A vehicle can be driven to within half of a mile of the property and the rest of the way made on foot since the road is flooded. During the winter the road is not kept open and access can only be made on snowmobile or on foot.

Qualifications

All geophysics, rock sampling, report writing, and drifting have been carried out by:

R.J. Dillman Licence # D 18466
2052 Stavebank Rd.
Mississauga, Ontario.
L5C-1T2

R.J. Dillman is presently in his 3rd year in the geology pro-

gram at the University of Western Ontario. He has ten years experience in mineral exploration and is both qualified and experienced in organizing and conducting VLF-electromagnetic survey's. All four claims are recorded in his name.

Number of claims covered and dates of survey.

Four claims have been covered by the VLF survey and rock sampling. These claims are:

EO 820718

EO 820719

EO 820720

EO 820721

In 1985, rock samples were collected in October on the 5th and the 6th. In February 1986, on the 12th to the 15th, a VLF-electromagnetometer survey was conducted equally over the four claims. Rock samples were also taken on these dates. In May from the 15th to the 20th, 1986, further rock sampling was undertaken.

Geology

The claims have been staked along a felsic flow unit described by S.B. Lumbers in his 1961 geological report on Tudor township. A thin section study of a sample taken by the author of this report defines the felsic flow unit as a highly mylonitized granite or gneiss. A copy of the thin section study is attached to this report. Bordering the mylonites on the east

and the west are amphibolite rich mafic volcanics. The amphibolites east of the mylonites have been metamorphosed by the gabbros of the Lingham Lake Complex. Sills of gabbro are also present on the property. They can be found along the east contact of the mylonites and in the north west corner of EO 820720. The general strike of the rocks in the area is north east. Faulting has occurred in the area.

Summary of exploration and development to date.

The property was staked on the knowledge that that gold is associated with arsenopyrite mineralization within the mylonitized granite or gneiss unit. This information was evident from the geological report of Tudor township by S.B. Lumbers, 1961. He outlined two gold occurrences in pits within the mylonites on what is presently EO 820718. These occurrences are known as the No. 9 and the No. 12 occurrences of Tudor township.

In 1971, R.B. England discovered four new occurrences of gold on lot 5 conc. XIV, south $\frac{1}{2}$, presently EO 820718. Only one of the showings is found within the mylonite unit. England conducted limited pitting on the occurrence. Record of this work is on file in the assessment office.

Since the staking of the claims in October of 1985, the author of this report has collected a number of rock samples conducted a VLF survey on the four claims. Results of the rock

analysis have confirmed numerous new gold occurrences associated with arsenopyrite mineralization within the mylonite unit.

Results of rock analysis.

The "Tudor" sample was taken 60 metres south and 40 metres west of post # 1; EO 820718 (75 S, 350 E). This sample came from a pit known as the No. 12 occurrence of Tudor township. This pit is located in the mylonite unit. Mineralization in mylonites from the pit consist of disseminated to fairly massive arsenopyrite and minor calcopyrite. Chips were taken of the best mineralization and assayed 0.072 oz/ton Au and 2.10% As.

Sample "A" was taken from the same location and is more representative of the mineralization in the pit. This sample consisted of both the disseminated to more massive arsenopyrite over 1.5 metres. Assays showed 0.028 oz/ton Au and 1.90% As.

From this pit the arsenopyrite mineralization can be traced 8 metres north until outcrop exposure is cut off by swamp. Going south 3 more pits follow the mineralization over a distance of 20 metres.

The "Dillman 1" was taken of a small lense of arsenopyrite mineralization within the mylonite unit. Mineralization tended to be disseminated. The sample assayed 485 ppb Au and 5700 ppm As over 60 centimetres.

The "Dillman 2" sample was taken on the south side of the

clearing for the powerline. It is located 40 metres south and 42 metres west of the # 1 post of EO. 820718 (40 S, 375 E). This sample is of a shear that marks the contact between the mylonites and the mafic volcanics. Mineralization in the shear consisted of as much as 2% pyrite and minor arsenopyrite. Assays showed 605 ppb Au and 100ppm As over 50 centimetres.

Sample 7851 was taken along the north claimline 75 metres west of post #1, EO 820718 (0 S, 225 E). The sample was taken of a pyrite-magnetite rich chert band within the amphibolites. This band can be traced for a distance of 60 metres and strikes north east. Widths varied between 5 to 15 centimetres. Assays only showed 25 ppb Au.

Sample 7852 was taken in a trench believed to be that of the work of R.B. England, 1971. This trench is found within the mylonite unit and is located 250 metres north and 200 metres east of the # 3 post of EO 820718 (275 S, 225 E). Arsenopyrite mineralization in the pit ranges from disseminated to massive veinlets up to 2.5 centimetres wide. Chips from the trench assayed 0.19 oz/ton Au and greater than 10,000 ppm As.

Sample "D" was taken 35 metres west of the pond in the south east corner of EO 820718. The sample location is 120 metres north and 150 metres east of the # 3 post of EO 820718 (400 S, 175 E). The sample was taken of a small quartz vein, 8 centimetres wide and traced for a distance of 5 metres striking east. The mineralization consisted of 2% pyrite and minor arsenopyrite along the contact of the vein and the amphibolite wallrock.

Sample "D" assayed 40 ppb Au and 580 ppm As.

Sample "B" came from a pit located on the north shore of the pond in the north west corner of EO 820719. The pit can be found 40 metres east and 12 metres south of post # 4 of EO 820719 (512 S, 40 E). Three other pits can be found over a distance of 30 metres in a north east direction. All pits are in the mylonite unit and are all mineralized with arsenopyrite. The pits are believed to be the No. 9 occurrence of Tudor township.

Sample "B" came from the most southernly pit. Mineralization in the pit consisted of arsenopyrite and minor magnetite. Quartz veining is also present. An assay of only the mineralized mylonite showed 0.067 oz/ton Au and 2.90% As. It was from this sample that a thin section study was performed.

Sample "C" was taken 85 metres north and 85 metres west of post # 2 EO 820720 (825 S, 100 W). The sample came from a band of arsenopyrite mineralization within the mylonite unit. This band can be traced a distance of 30 metres and varies in width. Maximum width noted was 50 centimetres. Arsenopyrite mineralization varied from disseminated to massive. Sample "C" was taken across 15 centimetres of some of the more massive mineralization. Assays showed 0.12 oz/ton Au and 5.67% As.

Another sample taken of the mineralized band came 25 metres south of sample "C". 7853 assayed 0.16 oz/ton Au and greater than 10,000 ppm As. Sample width was 30 centimetres.

30 metres west of this area there is a mineralized shear

within the mylonite unit. The mineralization in the shear consists of arsenopyrite. Quartz is also present. Sample 7854 assayed 0.038 oz/ton Au and greater than 10,000 ppm As over 15 centimetres. Due to overburden the shear can be traced 5 metres striking southeast.

Sample 7859 was taken 20 metres south and 110 metres west of the # 1 post of EO 820721 (925 S, 120 W). The sample was taken of another mineralized that strikes south in the mylonite zone. The shear is exposed for 4.5 metres and is 30 centimetres at its widest point. Sample 7859 assayed 0.16 oz/ton Au and greater than 10,000 ppm As.

Sample 7857 was taken of a small lens of arsenopyrite mineralization within the mylonite unit. Amount of arsenopyrite ranges from disseminated to massive. The mineralization can be traced 4 metres. Assays of the best mineralization showed 0.13 oz/ton Au and greater than 10,000 ppm As. This sample was taken 110 metres south and 125 metres west of the # 1 post of EO 820721 (1020 S, 125 W).

Sample 7858 came from a pit in the mylonite unit. The pit is located 215 metres south and 150 metres west of the # 1 post of EO 820721 (1125 S, 150 W). The pit was dug in arsenopyrite mineralization along small quartz veins that strike north south in the mylonite. Mineralization tends to be in the wallrock on either side of the quartz veins. Assays showed 0.032 oz/ton Au and greater than 10,000 ppm As across 15 centimetres.

Sample 7856 came from the west side of a swamp in the south

east corner of EO 820721. The sample was taken 30 metres north and 185 metres west of the # 2 post of EO 820721 (1260 S, 185 W). The sample consisted of mineralized mylonite wallrock surrounding a quartz vein. The vein strikes north south and was traced a distance of 30 metres. The sample contained only wallrock mineralized with arsenopyrite and assayed 0.047 oz/ton Au and greater than 10,000 ppm As.

Results of VLF-electromagnetic survey.

Anomaly A is located on EO 820718. It crosses line 200 S at 360 E, line 300 S at 318 E, and line 400 S at 275 E. The reason for this conductor has not been determined since it is either covered by water or dry overburden. Only speculation can be made at this time as to the nature of anomaly A. It is believed from the strength of the conductor that it may represent sulfide mineralization. It has been found by prospecting that the conductor lies within the mafic volcanic amphibolites. Further geophysics in the form of a magnetometre survey may help determine a cause for this conductor.

Anomaly B is located on EO 820719. It crosses line 700 S at 30 metres east of the baseline. Anomaly B is a reasonably strong conductor that does not appear to be associated with any topographic features. The conductor also appears to have a short strike length since it was not detected on lines 600 S or 800 S.

The exact cause for this conductor has not yet been established. Prospecting has found that this anomaly could be asso-

ciated with the contact between the mylonite unit and a gabbro sill that parallels the mylonites on the east. Small occurrences of sulfide mineralization have been found where this contact crosses the baseline at 800 S. The mineralization takes the form of minor arsenopyrite, magnetite, and pyrrhotite. The mineralization may give an indication as to the nature of anomaly B.

Recommendations

To date, prospecting has revealed a number of gold showings associated with arsenopyrite mineralization in a highly mylonitized granite or gneiss. Since these mineralized areas appear quite frequently along the trend of the mylonite zone other prospecting methods should be employed. Detailed soil sampling of B horizon may prove to be useful in pinpointing other gold-arsenic occurrences within the mylonite unit.

Only two anomalies were defined by the VLF survey. Of these two only one, anomaly B, is possibly associated with the mylonites. This fact suggests that the conductive response of the gold-arsenic occurrences is not strong enough to be detected by a VLF unit. An induced polarization survey would be more appropriate in receiving a weaker electromagnetic field strength.

R. J. Dillman

R. J. Dillman
Dec 1, 1980

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- CHEMICAL RESEARCH AND ANALYSIS
- CONTRACT LABORATORIES

TECHNICAL SERVICE LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2

TELEPHONE: (416) 625-1544

TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM 2052 Stavebank Road
 Mississauga, Ont.
 L5C 1T2

REPORT No.

M1300

SAMPLE(S) OF Rock

INVOICE #: 34530

P.O.:

	Gold (Au) ppb FA/AA	Gold (Au) oz/T	Arsenic (As) ppm
07851	25		<10
07852	>1000	0.19	>10000
07853	>1000	0.16	>10000
07854	>1000	0.038	>10000
07855	35		900
07856	>1000	0.047	>10000
07857	>1000	0.13	>10000
07858	>1000	0.032	>10000
07859	>1000	0.16	>10000

R. J. Dillman
Dec 1, 1986

COPIES TO: Bob Dillman
 INVOICE TO: Mississauga

Samples, Pulps and Rejects discarded after two months

DATE Sep 10/86

SIGNED

John Burgener



- CHEMICAL RESEARCH AND ANALYSIS
- CONTRACT LABORATORIES

TECHNICAL SERVICE LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2

TELEPHONE: (416) 625-1544

TELEX 06-960215

CERTIFICATE OF ANALYSIS

30428

SAMPLE(S) FROM

Key Lake Ent.
Ste. 2108 401 Bay St.
Toronto Ontario
M5H 2Y4

REPORT No.

T2963-1

ATTN Mr. B. Dillman
SAMPLE(S) OF ROCK

Tudor North

	Gold (Au) ppb	Arsenic (As) ppm
③ Dillman #1	485	5700
② #2	605	100

EO.820718 ; TUDOR TWP. LOTS CONC XIV
South 1/2

R.J. Dillman
Oct 3, 1986
D-18466

Samples, Pulps and Rejects discarded after two months

Oct. 17/85

DATE

SIGNED

[Signature]



For any enquiries on this report, please contact Customer Service Department - Edith Anzil

- CHEMICAL RESEARCH AND ANALYSIS
- CONTRACT LABORATORIES

TECHNICAL SERVICE LABORATORIES
 DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED
 1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2

TELEPHONE: (416) 625-1544
 TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

Key Lake Exploration Ltd.
 Ste. 4108 401 Bay St.
 Toronto Ontario
 M5H 2Y4

REPORT No.
 T4431-1

ATTN Mr. R. Dillman

SAMPLE(S) OF

ROCK

Inv# 31906
 P.O. /

	Gold (Au)		Arsenic (As)	
	ppb	oz/T	ppm	%
A	520	0.028	>10000	1.90
B	>1000	0.067	>10000	2.90
C	>1000	0.12	>10000	5.67
D	40	-	580	0.04

R. S. Dillman

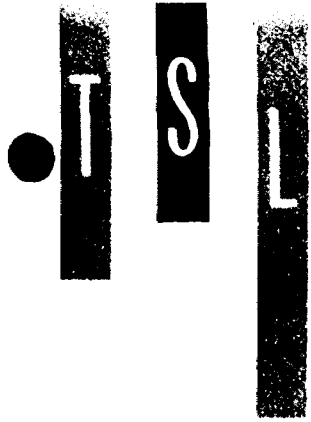
Dec 1, 1986

Samples, Pulps and Rejects discarded after two months

DATE Mar. 6/86

SIGNED *[Signature]*





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TECHNICAL SERVICE LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2

TELEPHONE: (416) 625-1544

TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Key Lake Explorations Ltd.
Ste. 2108 401 Bay Street
Toronto, Ontario
M5H 2Y4
Attn: Mr. E.M. Dillman

REPORT No.
T2467-1

Inv. #29937
P.O. /

SAMPLE(S) OF ROCK

Gold (Au) ox/ton
Fire Assay

Gold (Au) ppb
FA/AA

Arsenic (As)
ppm

#1 Ewing

#2 Ewing

#3 Ewing

Quilan Lake

Tudor

0.072

>1000 2.10%

Twin Sister #1

Twin Sister #2

R. J. Dillman
Dec 1, 1986

Samples, Pulps and Rejects discarded after two months

DATE September 17, 1985

SIGNED *Edith Anzil*



For any enquiries on this report, please contact Customer Service Department - Edith Anzil

PETROGRAPHIC DESCRIPTION
Geoplastech, Inc.

Sample No. 1 hand sample and thin section
Client: Key Lake Explorations Ltd. (E.M. Dillman)
Locality: Not available

SYNOPSIS

This sample is a recrystallized mylonite, probably from a large (regional) shear zone. The protolith was either a high-grade, quartzofeldspathic gneiss or a granite. The coarse grain size of plagioclase laths suggests the latter.

MINERALOGY

◆Quartz: 60% Grain sizes range from microcrystalline to 1 mm diameter. The finest material is largely recrystallized, indicated by 1) the fine grain size; 2) 120° triple junction grain boundaries; 3) migration of quartz grain boundaries; 4) lack of strain (no undulatory extinction). Some of the larger quartz grains do exhibit undulatory extinction. An undetermined percentage of the quartz has been introduced from another source - this is clear from the high quartz content of the rock, and from the presence of coarse, unstrained quartz in veinlets.

◆Feldspar: 30% Both plagioclase and alkali feldspar (microcline) are present. The proportion of the two feldspars relative to each other and to quartz is difficult to determine due to the wide variation in grain sizes and to the large amount of extremely fine-grained material. The feldspars show deformation features (bent and deformed twin lamellae, etc.). There are some large, rounded feldspar porphyroblasts (typical of mylonites) surrounded by crushed material.

◆Biotite: 3-5% Biotite occurs as fine-grained laths which are altering to chlorite.

◆Opaques: 3-5% From hand sample identification (no polished section yet available), arsenopyrite and hematite are present.

◆Carbonate: 2-3% Euhedral to subhedral, fine-grained interstitial carbonate may have been introduced with the quartz, or alternatively may have formed from the sulphidation of pre-existing ferromagnesian minerals. For example, there is some coarse arsenopyrite (?) + hematite associated with carbonate + biotite + chlorite in a typical sulphidation assemblage.

◆Accessory minerals: Trace zircon occurs mainly as inclusions in biotite. Sericite is also pervasive as alteration material within the feldspars.

TEXTURE

The sample contains many features which are typical of a recrystallized mylonite: rounded feldspar porphyroblasts, deformed plagioclase laths, crushed and recrystallized quartz, etc. Although no original textures remain, the protolith was almost certainly a quartzofeldspathic gneiss or a granite.

R. J. Dillman
Dec 1, 1986

PETROGRAPHIC DESCRIPTION
Geoplastech, Inc.

Sample No. 2 (hand sample and polished thin section)
Client: Key Lake Explorations Ltd. (E.M. Dillman)
Locality: Not available

SUMMARY

This sample is a recrystallized mylonite, probably from a large (regional) shear zone, as discussed in Sample No. 1. The protolith was either a high-grade, quartzofeldspathic gneiss or a granite. The coarse grain size of plagioclase laths suggests the latter.

MINERALOGY

60% Quartz: grain sizes range from microcrystalline to 0.8 mm diameter; the finest material is largely recrystallized, indicated by 1) the fine grain size; 2) 120° triple junction grain boundaries; 3) migration of quartz grain boundaries; 4) lack of strain (no undulatory extinction); larger quartz grains do exhibit undulatory extinction, indicating strain; the larger grains are rounded, with recrystallized, finer grains surrounding them.

30% Feldspar: grain sizes range from microcrystalline to almost 2 mm; both plagioclase and alkali feldspar (microcline) are present; the proportion of the two feldspars relative to each other and to quartz is difficult to determine due to the wide variation in grain sizes and to the large amount of extremely fine-grained material; the feldspars show deformation features (bent and deformed twin lamellae, etc.).

Acc. Biotite: 3-5%, occurs as fine-grained laths which are altering to chlorite.

Acc. Sericite: in fine laths, up to 0.3 mm; also occurs as microcrystalline alteration of feldspars.

Acc. Opaques (2-3%), consisting of:

90% Arsenopyrite: ave. grain size 0.05-0.1 mm (some coarser grains, up to 0.6 mm); mostly subhedral to euhedral; some grains are crushed and broken, suggesting some deformation may have been post-crystallization of the arseno.

10% Sphalerite: irregular masses of crystals, anhedral grains, ave. 0.05 mm.

Tr. Magnetite.

Tr. Zircon: fine euhedra, less than 0.2 mm.

R. J. Dillman
Dec 1, 1986

INVOICE NO.

30428

TECHNICAL SERVICE LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

1301 FEWSTER DR., MISSISSAUGA, ONTARIO L4W 1A2
TELEPHONE: (416) 625-1544K035
30428

CHARGE TO Key Lake Ent. Ste. 2103 401 Bay St. Toronto Ontario M5H 2Y4	DATE Oct. 17/85	REFERENCE NO. t2963	YOUR ORDER NO. /
	SHIP TO Mr. B. Dillman		
			TERMS: NET 30 DAYS

CODE	DESCRIPTION	UNIT PRICE	TOTAL
9	2 det. of Au		
10	2 det. of As		
12	2 Sample preparations		
	1 Minimum Charge	50.00	50.00
	TOTAL		50.00
			50.00

RECEIVED PAYMENT
WITH DOLLARS

TECHNICAL SERVICE LABORATORIES
Division of Burgner Technical Enterprises Limited

PER..... **PAY THIS AMOUNT**

R. E. Dillman

Dec 1, 1986

INVOICE NO.

34530

TECHNICAL SERVICE LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

1301 FEWSTER DR., MISSISSAUGA, ONTARIO L4W 1A2
TELEPHONE: (416) 625-1544

CHARGE TO Bob Dillman 2052 Stavebank Rd. Mississauga, Ontario L5C 1T2	DATE Sept. 11/86	REFERENCE NO. M-1300	YOUR ORDER NO.
	SHIP TO		
			TERMS: NET 30 DAYS

CODE	DESCRIPTION	UNIT PRICE	TOTAL
9	9 determinations of Au by FA/AA	7.90	71.10
9	8 determinations of Au by fire assay	8.90	71.20
10	9 determinations of As	5.00	45.00
12	9 sample preparations	3.75	33.75
	TOTAL		\$221.05

RECEIVED PAYMENT
WITH DOLLARS

TECHNICAL SERVICE LABORATORIES
Division of Burgner Technical Enterprises Limited

PER..... **DK by cheque**

INVOICE - PLEASE ENCLOSE COPY OF INVOICE WITH PAYMENT

TECHNICAL SERVICE LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

1301 FEWSTER DR., MISSISSAUGA, ONTARIO L4W 1A2

TELEPHONE: (416) 625-1544

31906

K035
31906

CHANGE TO Key Lake Exploration Ltd. Ste. 4108 401 Bay Street Toronto Ontario M5H 2Y4	DATE	REFERENCE NO.	YOUR ORDER NO.
	Mar. 6/86	T4431	
SHIP TO			TERMS: NET 30 DAYS
Mr. R. Dillman			

CODE	DESCRIPTION	UNIT PRICE	TOTAL
9	4 Det. of Au by FA/AA	7.50	30.00
	3 Det. of Au by Fire Assay	8.50	25.50
10	4 Det. of As Geochem	5.00	20.00
	3 Det. of As by Assay	10.00	30.00
12	4 Sample prep	3.50	14.00
	TOTAL		119.50
	TECHNICAL SERVICE LABORATORIES Division of Burgner Technical Enterprises Limited	PAY THIS AMOUNT	119.50
	INVOICE		

RECEIVED PAYMENT



R. J. Dillman
Dec 1, 1986

geoplastech inc.

Lower Level - 65 Granby Street
Toronto, Ontario
M5B 1H8
416-596-0381

INVOICE

NO. **1246**

SERVICES RENDERED TO : E.M. Dillman
Key Lake Explorations Limited
2108-401 Bay Street
Toronto, Ontario
M5H 2Y4

Date: 4/23/86 Shipped Via: Gopher Order No. Self

Quantity	Description	Shipped	\$/Unit	Amount
1	Thin Sections	1	\$8.50	\$8.50
1	Thin Section Description	1	\$45.00	\$45.00
1	Polished Thin Section In Progress	1	\$20.00	\$20.00
0		0	\$0.00	

Shipping: **\$6.00**

TOTAL: **3** **\$79.50**

TERMS: PAYABLE UPON RECEIPT.
Interest of 2% per month will be charged on overdue accounts.

Customer Copy



Résumé

Robert James Dillman
Apt. 1, 449 Princess Ave.
London, Ontario.
N6B-2B4

Status: Prospector

Work History

June- Sept. 1986 La Fosse Platinum
Val dor, Quebec.
Position: Party chief, prospector.
Duties: Prospecting, mapping.
Area: Labrador trough, Quebec.

June- Sept. 1985 Key Lake Exploration Ltd.
Suite 4109, 401 Bay Street,
Toronto, Ontario.
Position: Supervisor.
Duties: Mapping, prospecting, geochem, line
cutting, mag and VLF survey.
Area: Hemlo property, Ontario.

July- Sept. 1984 Nelson W. Baker Geological Services.
54 D'arcey Magee Cr.,
Westhill, Ontario.
Position: Prospector.
Duties: Mapping, prospecting, geochem, claim
staking.
Area: Gunner Gold Mine property, Manitoba.

June- July 1984 Westmin Resources Ltd.
Suite 904, 1055 Dunsmuir Street,
P.O. Box 49066, The Bentall Centre,
Vancouver, B.C.
Position: Geological Technician.
Duties: Geochem, prospecting, claim staking,
mag and VLF.
Area: Utik Lake, Manitoba.

May- June 1984 Nelson W. Baker Geological Services.
Position: Geophysical Technician
Duties: Mag and VLF, line cutting.
Area: Gunner Gold Mine property, Manitoba.

Feb.- Mar. 1984 Fenton Scott Management.
17 Malabar Place,
Don Mills, Ontario.
Position: Geophysical Technician
Duties: Mag and VLF.
Area: Duberville road property, Wawa, Ont..

Work history con't

June- Dec. 1983 Prospecting Geophysic's Ltd.
Val'dor, Quebec.
Position: Prospector, party chief.
Duties: Prospecting, geochem, mapping, claim
 staking.
Area: Pukaskwa area, Wawa, Ontario.

June- Sept. 1982 Crone Geophysic's Ltd.
 Wolfdale Rd.,
 Mississauga, Ontario.
Position: Geophysical technician.
Duties: Pulse EM., borehole
Area: Black Lake, Russel Lake, Saskatchewan.

Dec.- Jan. 1981 Kenting Exploration Ltd.
 Calgary, Alberta.
Position: Jug hound.
Duties: Planted microphones.
Area: Provost, Alberta.

Oct.- Nov. 1980 Key Lake Exploration Ltd..
 Toronto, Ontario.
Position: Geophysical technician, prospector.
Duties: Vertical loop, prospecting, line
 cutting.
Area: La Ronge, Saskatchewan.

Sept.- Oct. 1980 Eldorado Nuclear Ltd.
 Uranium City, Saskatchewan.
Position: Mechanic's helper.
Duties: Maintenance in mill.
Area: Uranium City.

July- Aug. 1980 Saskatchewan Mining and Development Corp
 Uranium City, Saskatchewan.
Position: Party chief.
Duties: Prospecting, trenching.
Area: Lake Athabasca, Saskatchewan.

June- July 1980 Connor's Drilling.
Position: Driller's helper.
Area: South-south Fondulac, Lake Athabasca,
 Saskatchewan.

Mar.- Apr. 1979 Steve Bortnick Geophysics Ltd.
 George Town, Ontario.
Position: Geophysics technician.
Duties: VLF, horizontal loop.
Area: Poplar Point, Lake Athabasca,
 Saskatchewan.

Education Background

- 1984- 1987 University of Western Ontario.
London, Ontario.
Presently in 3rd year of the Geology program
- 1982- 1983 Sheridan College
Brampton, Ontario.
Completed 1st year of the Computer Engineering
and Technology program.
- 1975- 1981 Port Credit Secondary High School
Port Credit, Ontario.
Graduated with Grade 12 diploma.

Work Related Skills

All my exploration has been for gold, platinum, uranium, and base metals. I have organized and conducted geological mapping, geochemical, magnetometer, electromagnetics, and prospecting surveys. I can cut line and stake claims. I have experienced using a gold pan. I have set up and maintained field camps. I presently have two gold properties in south eastern Ontario.

Feb.28,1987

TO WHOM IT MAY CONCERN

Bob Dillman was employed as an exploration geologist under my supervision for four months during the summer of 1986. The work included geology mapping and rock sampling in connection with a program of regional mineral exploration in Northern Quebec. I found Bob to be a capable geologist and a responsible individual. He has the initiative and imagination needed to be a success in his profession.

I have no hesitation in recommending Bob Dillman as a geologist and as a person.

A.T. Avison

A.T.Avison
Consulting Geologist

Fenton Scott Management Inc.

17 Malabar Place, Don Mills, Ontario M3B 1A4
416-444-1717

2.9638

To Whom it may concern:

March 25, 1987

Mr. Robert J. Dillman has worked for this company and associated companies at various times over the past four years.

He has demonstrated competence in the following mineral exploration activities.

Surface Prospecting
Project Management
Soil Sampling
Rock Sampling
Geological Mapping
VLF - EM Surveys
Magnetometer Surveys

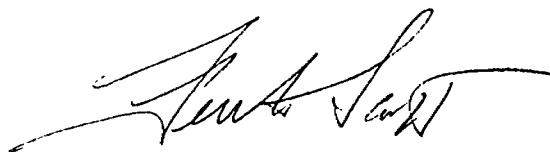
RECEIVED

APR 16 1987

MINING LANDS SECTION

In all of these projects his work has proved accurate and reliable.

Signed.



Fenton Scott

RECEIVED

APR 16 1987

MINING LANDS SECTION



Ministry of
Northern D
and Mines



31C13SE0056 2.9638 TUDOR

cal

900

le EO-820718

**TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.**

Type of Survey(s) VLF - ELECTROMAGNETIC
Township or Area TUDOR TWP.
Claim Holder(s) R.J. DILLMAN
Survey Company R.J. DILLMAN
Author of Report R.J. DILLMAN
Address of Author 2052 STAVEBANK RD MISSISSAUGA
Covering Dates of Survey FEB 12 - 15 1986 ONT.
(linecutting to office)
Total Miles of Line Cut 7200 METRES

MINING CLAIMS TRAVERSED
List numerically

<u>EO</u> (prefix)	<u>820718</u> (number)
<u>EO</u>	<u>820719</u>
<u>EO</u>	<u>820720</u>
<u>EO</u>	<u>820721</u>

**SPECIAL PROVISIONS
CREDITS REQUESTED**

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
-Electromagnetic	<u>40</u>
-Magnetometer	_____
-Radiometric	_____
-Other	_____
Geological	_____
Geochemical	_____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Dec 1, 1986 SIGNATURE: R.J. Dillman
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS _____

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations 311 Number of Readings 311
Station interval 25 metres Line spacing 100 metres
Profile scale 1CM = 10°
Contour interval _____

MAGNETIC

Instrument _____
Accuracy – Scale constant _____
Diurnal correction method _____
Base Station check-in interval (hours) _____
Base Station location and value _____

ELECTROMAGNETIC

Instrument PHOENIX VLF-2
Coil configuration VERTICAL
Coil separation INFINITY
Accuracy 1°
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 21.9 kHz Annapolis Maryland
(specify V.L.F. station)
Parameters measured Dip Angles (Inphase), Field Strength

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____
Base station value and location _____
Elevation accuracy _____

**INDUCED POLARIZATION
RESISTIVITY**

Instrument _____
Method Time Domain Frequency Domain
Parameters – On time _____ Frequency _____
– Off time _____ Range _____
– Delay time _____
– Integration time _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____



1. Type of Survey VLF-ELECTROMAGNETIC, ROCK & GEOCHEMISTRY

2. Township or Area TUDOR TWP.

3. Numbers of Mining Claims Traversed by Survey EO 820718, EO 820719, EO 820720, EO 820721.

4. Number of Miles of Line Cut 7200 metres Flown _____

*5. Number of Stations Established 311

*6. Make and type of Instrument Used PHOENIX VLF-2

*7. Scale Constant or Sensitivity 1°

*8. Frequency Used and Power Output 21.4 kHz, Annapolis, Maryland

9. Summary of Assessment Credits (details on reverse side)

Total 8 hour Technical Days (Include Consultants, Draughting etc.) 7 1

Total 8 hour Line-Cutting Days _____

Calculation

$$\frac{4}{\text{Technical}} \times 7 = \frac{28}{\text{Line-cutting}} = \frac{28}{\text{Number of claims}} \div \frac{4}{\text{Number of claims}} = \frac{7}{\text{Assessment credits per claim}}$$

The dates listed on this form represent working time spent entirely within the limits of the above listed claims Check
If otherwise, please explain _____

Dated: Dec 1, 1986

Signed: R.J. Dillman

- Note: (A) * Complete only if applicable.
 (B) Complete list of names, addresses and dates on reverse side.
 (C) Submit separate breakdown for each type of survey.
 (D) Submit in duplicate.

Details of Assessment Work Breakdown

FIELD WORK

<u>Type of Work</u>	<u>Name & Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
SAMPLE COLLECTION	R. J. DILLMAN 2052 STAVEBANK RD MISSISSAUGA, ONT	OCT 5, 1986	3

CONSULTANTS

<u>Name & Address</u>	<u>Dates Worked (specify in field or office)</u>	<u>Number of 8 hour days</u>

DRAUGHTSMAN, TYPING, OTHERS (specify)

<u>Name & Address</u>	<u>Type of Work</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
R. J. DILLMAN 2052 STAVEBANK RD MISSISSAUGA ONT	DRAFTING TYPING	OCT. 3, DEC 1, 1986	1

TOTAL 8 HOUR TECHNICAL DAYS 1

LINE-CUTTING

<u>Name</u>	<u>Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
R. J. DILLMAN	2052 STAVEBANK RD MISSISSAUGA ONT	Feb 12-13, 1986	

TOTAL 8 HOUR LINE-CUTTING DAYS

May 20, 1987

Your File: 86-84
Our File: 2.9638

Mining Recorder
Ministry of Northern Development and Mines
Whitney Block, Room 2548
99 Wellesley Street West
Queen's Park
Toronto, Ontario
M7A 1W3

Dear Madam:

RE: Notice of Intent dated April 29, 1987
Geophysical (Electromagnetic) and Geochemical
Surveys and Sample Analyses on Mining Claims
EO 820718, et al, in Tudor Township

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

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

Yours sincerely,

Gary L. Weatherson, Manager
Mining Lands Section
Mineral Development and Lands Branch
Mines and Minerals Division

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

DK/mc

cc: D.J. Dillman
2052 Stavebank Road
Mississauga, Ontario
L5C 1T2

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

Resident Geologist
Tweed, Ontario

Encl.



Recorded Holder R. J. DILLMAN
Township or Area TUDOR TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ 40 _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	E0 820718 to 21 inclusive

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

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

- No geochemical credits approved. The work is considered to be geological in nature and would normally be assessed in conjunction with a geological survey.
- Credit may be obtained for the time spent in collecting the samples, at the rate of one day's work for each six hours (Section 77(18)). Please contact the Mining Recorder should you wish to record this work.

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Date April 29, 1987

Mining Recorder's Report of Work No. 86-84

Recorded Holder
R. J. DILLMAN

Township or Area
TUDOR TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days	<p>\$470.05 SPENT ON ANALYSES OF SAMPLES TAKEN FROM MINING CLAIMS: E0 820718 to 21 inclusive</p> <p>31.34 ASSESSMENT WORK DAYS ARE ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT.</p>
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

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

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.

TUDOR

COUNTY OF
HASTINGS

SOUTHERN ONTARIO
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

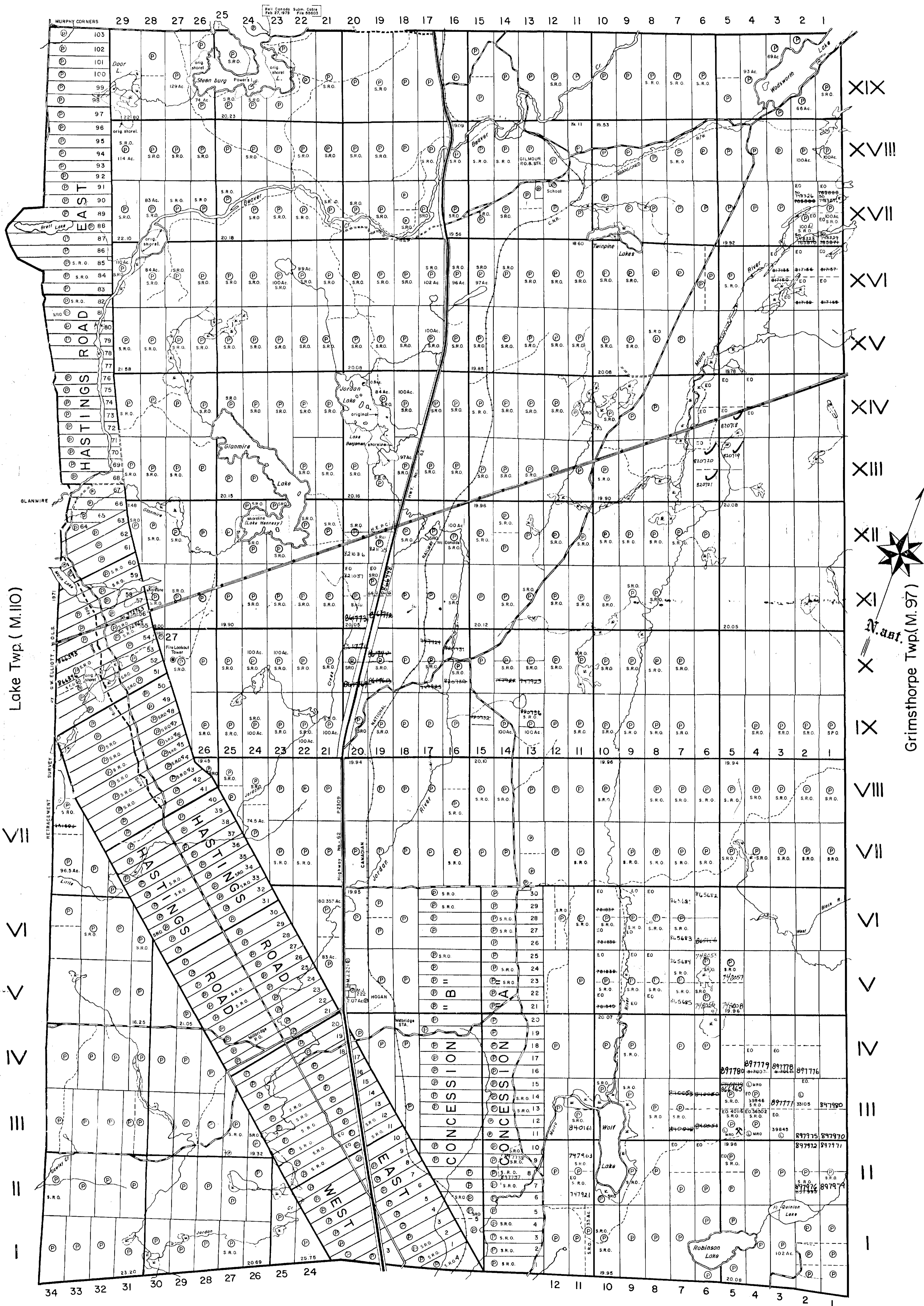
- PATENTED LAND ● or ⊙
- CROWN LAND SALE C.S.
- LEASES Loc.
- LOCATED LAND L.O.
- LICENSE OF OCCUPATION M.R.O.
- MINING RIGHTS ONLY S.R.O.
- SURFACE RIGHTS ONLY
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED, TRAILS
- PATENTED S.R.O.

NOTES

This Map Is Not To Be Used
FOR SURVEY PURPOSES.

Lot And Concession Lines Shown Hereon Are Projected From The Best Informations Available But Their True Position Is Not Guaranteed. For Official Survey Purposes Consult The Original Survey Plans And Field Notes Of Records In The Ministry Of Natural Resources.

400' Surface rights reservation along the shores of all lakes and rivers.



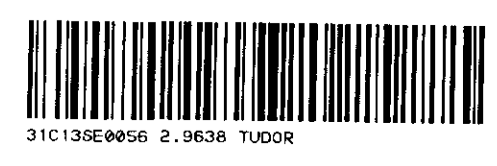
Lake Twp. (M.110)

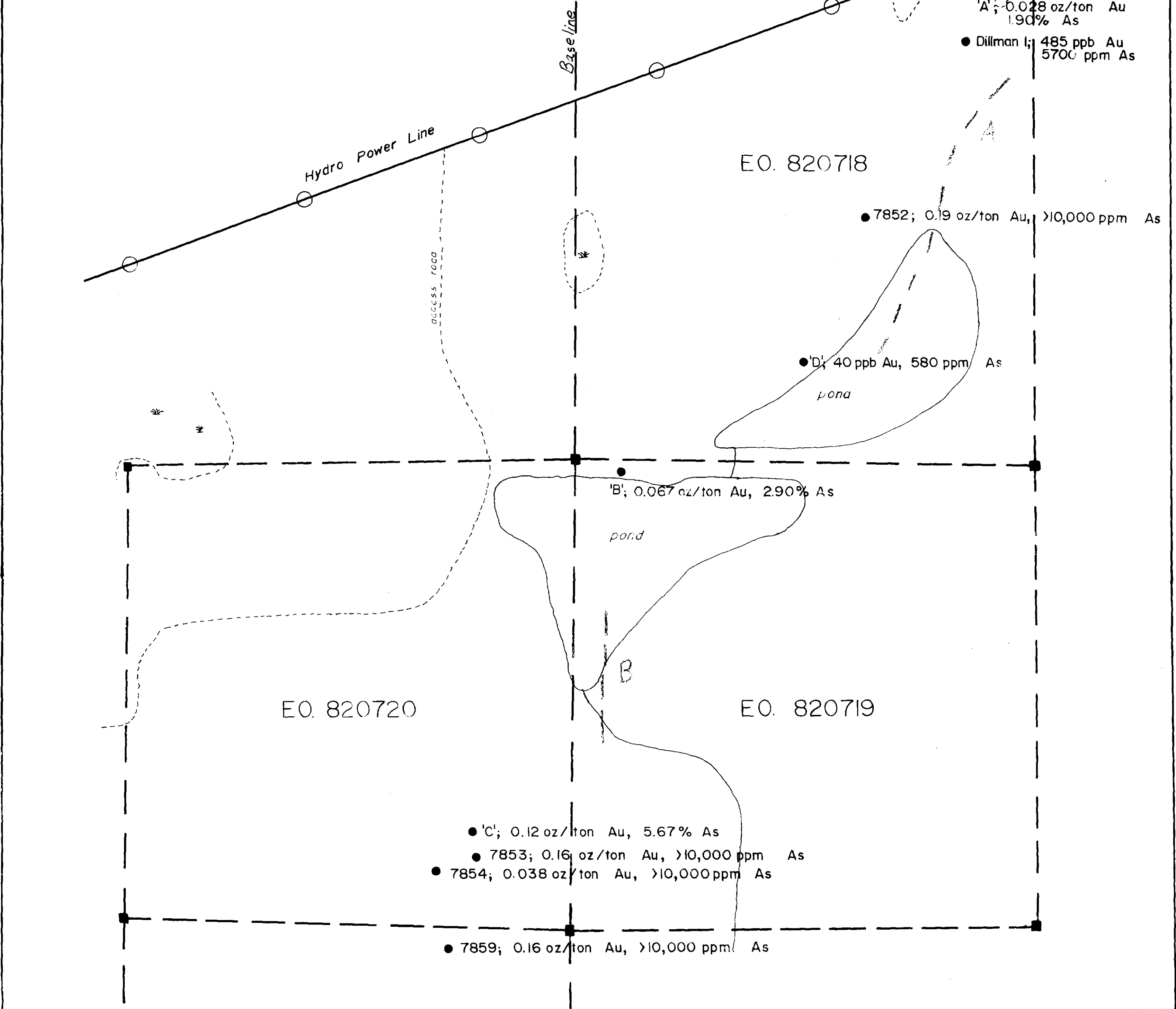
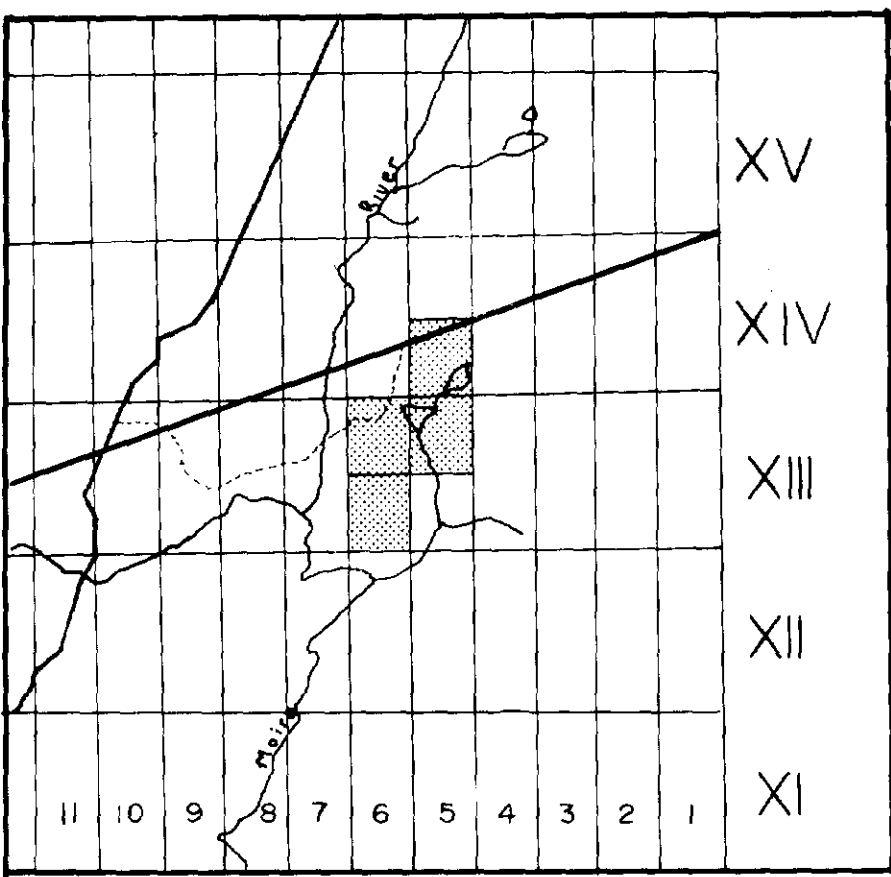
Grimsthorpe Twp.(M.97)

Madoc Twp.(M.120)

PLAN NO.-M.156

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH





ROCK SAMPLE LOCATIONS
TUDOR TWP., EASTERN ONTARIO

E.O. 820718,	Lot 5	Conc. XIV,	South 1/2
820719,	Lot 5	Conc. XIII,	North 1/2
820720,	Lot 6	Conc. XIII,	North 1/2
820721,	Lot 6	Conc. XIII,	South 1/2

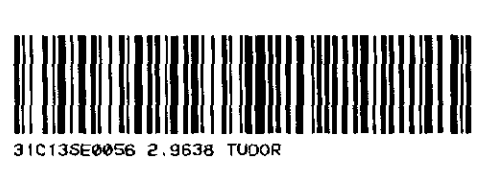
- sample location
- claim post and line
- Au gold
- As arsenic
- ppm parts per million
- ppb parts per billion

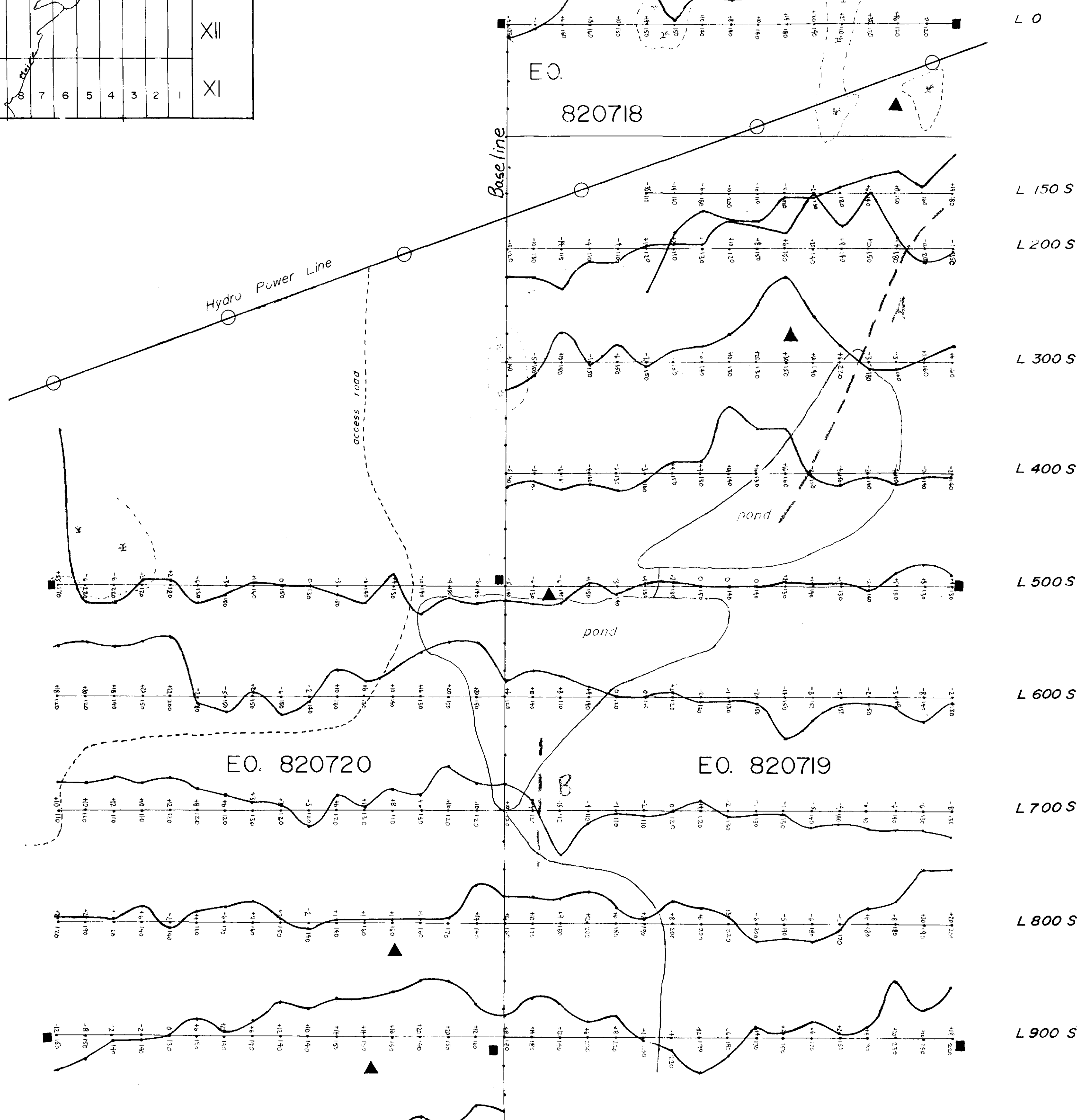
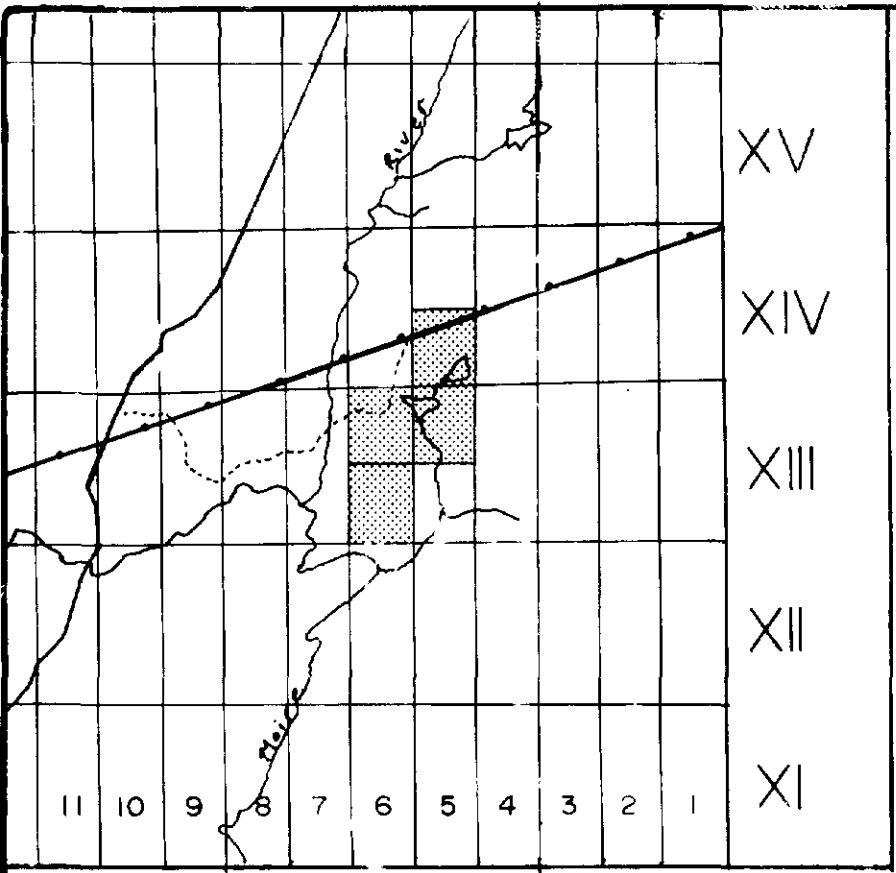
Magnetic
North

0 50 100 150 200
meters

R.J. Dillman Oct 3, 1986

27638





VLF EM SURVEY
TUDOR TWP., EASTERN ONTARIO

EO. 820718, Lot 5 Conc. XIV, South 1/2
 820719, Lot 5 Conc. XIII, North 1/2
 820720, Lot 6 Conc. XIII, North 1/2
 820721, Lot 6 Conc. XIII, South 1/2

INSTRUMENT: Phoenix VLF-2
 STATION: Annapolis, Maryland; 21.4 kHz.

Graph showing Inphase Field Strength vs. Station Direction. The y-axis ranges from -20 to +20. The x-axis shows Station Direction. A scale bar indicates 0, 50, and 100 Meters. A handwritten number '29638' is present.

▲ gold occurrence
 ■ claim post

R. J. Dillman Oct. 3 1986

