



52J02SW0042 52J02SW0050 FOURBAY LAKE

010

REPORT ON LOYDEX RESOURCES INC.

JUMPING LAKE PROPERTY,

STURGEON LAKE, ONTARIO

PREPARED BY DEJOUR MINES LIMITED

B. & C. LTD.

DEJOUR MINES LIMITED

R. E. Routledge, M.Sc.(Applied), F.G.A.C.

P. A. Hartwick, B.Sc.

Toronto, Canada
November 24, 1983

RECEIVED

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MINING LANDS SECTION



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INTRODUCTION

From July 15 to August 25, 1983 Dejour Mines Limited carried out a programme of geological mapping, geochemical rock, soil and humus sampling and trenching on the Loydex Resources Inc. Jumping Lake Property in the Sturgeon Lake area, northwestern Ontario.

PROPERTY, LOCATION AND ACCESS

Lat: 50°02'00"N
Long: 90°52'30"W
NTS: 52J2SW

Consisting of 15 unpatented mining claims totalling about 240 Ha, the property is held under title by Loydex Resources Inc., Whitby, Ontario. The claims were staked by Loydex in November 1982 and by agreement dated May 2, 1983, Dejour Mines Limited of Toronto, Ontario optioned the claims (Table 1).

The claims are located in the Four Bay Lake area, Thunder Bay Mining District some 5 km west of King Bay, Sturgeon Lake. Jumping Lake and a small lake named Yankovich Lake, for the purpose of this report, occupy about 30% of the claim group.

The property is accessible by road from the Trans-Canada Highway No. 17 at Ignace via blacktop Highway 599 north for 110 km and thence by the Six Mile Lake Road. This gravel road departs east from No. 599 some 47 km north of the junction between highways 599 and 642. Alternatively this junction may be reached from Sioux Lookout, some 70 km west. At 4.8 km from the highway, a pulp haulage

road leads from the Six Mile Lake Road for 3 km west-southwest to the west-central portion of the property.

TABLE 1
SCHEDULE OF CLAIMS SUBJECT TO OPTION
AGREEMENT BETWEEN
DEJOUR MINES LIMITED AND LOYDEX RESOURCES INC.

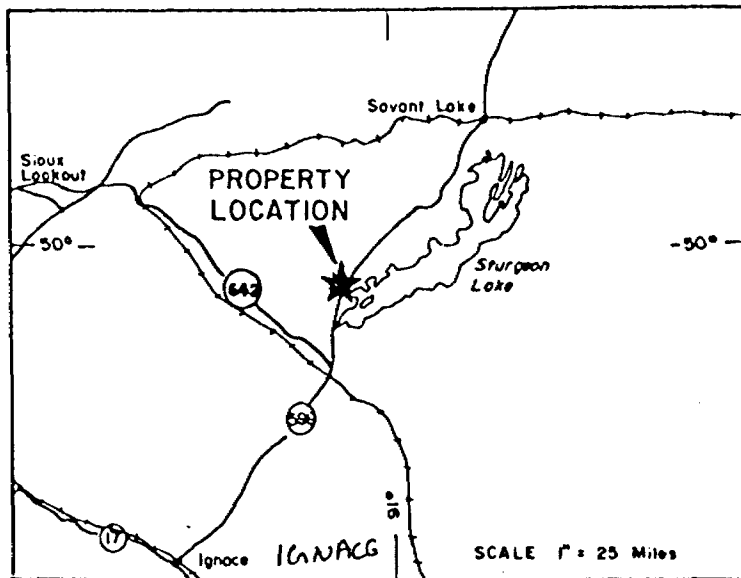
Claims held by Loydex in the Four Bay Lake area, west of Sturgeon Lake, Ontario, are:

PA 612189
PA 612190
PA 612191
PA 612192
PA 612169
PA 612170
PA 612171
PA 612172
PA 612173
PA 612174
PA 612175
PA 612176
PA 612177
PA 612178
PA 611671

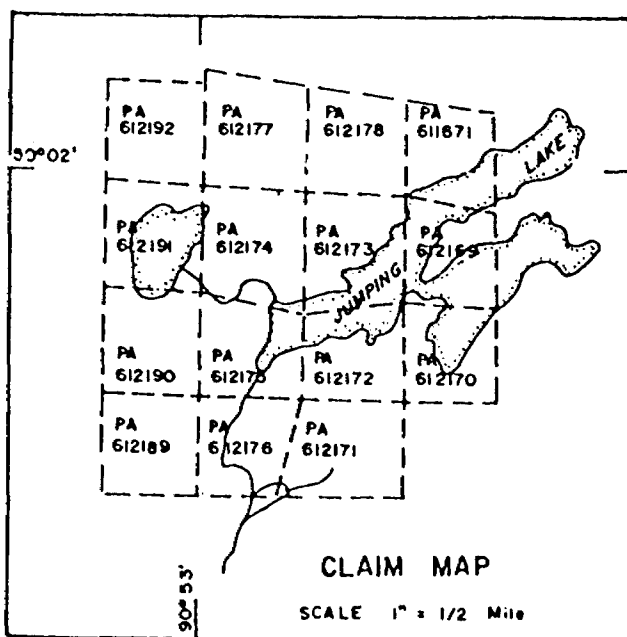
TOTAL: 15

Figure 1

Location of Loydex Resources Inc. Jumping Lake Claims



1 INCH



1 INCH

PREVIOUS WORK

Mapping in the Sturgeon Lake area has been carried out by the Geological Survey of Canada and the Ontario Geological Survey (OGS) since 1900 with the most recent report, incorporating earlier phases of mapping and reported exploration, published by the OGS in Report 221 (Trowell, 1983). The property and immediate area has not been mapped by these government agencies although reconnaissance traversing was carried out by OGS mapping crews.

Mineral exploration in the area has been sporadic and of varied intensity since the late 1800s. Zinc, copper and silver polymetallic sulphides, including the Mattabi Mines Limited Mattabi, Lyon Lake and Creek deposits and the Sturgeon Lake Mines Ltd. Boundary orebody, were discovered some 15 km south of the property during the period of September 1969 to February 1972.

Gold in quartz veins was first reported in the area in 1896. From 1905 to 1941, the St. Anthony Mine, the only gold mine of record in the area, produced 63,310 oz. of gold and 6,341 oz. of silver from a carbonate horizon with mafic volcanics adjacent to the St. Anthony trondhjemite intrusive (Trowell, 1983). In general, gold occurrences in the Sturgeon Lake area are reported to be associated with quartz veining in metavolcanics; epizonal subvolcanic felsic intrusive rocks (Dark Water Prospect in the Beidleman Bay Pluton); and as well with sulphide ironstone and trondhjemite dykes. Gold-bearing quartz veins also host minor pyrite, pyrrhotite, chalcopyrite, galena and sphalerite. The discovery by Steep Rock Iron Mines Limited, in late 1982, of gold-bearing quartz veining cutting mafic volcanics in contact with a trondhjemite intrusive in the King Bay area sparked renewed gold prospecting interest in the Sturgeon Lake area.

With respect to the Loydex Jumping Lake Property, the St. Anthony Mine is 16 km northeast; the Darkwater Mine is 24 km southwest; and the King Bay Discovery is 6 km east.

DEJOUR MINES LIMITED EXPLORATION PROGRAMME

The July-August programme was carried out to follow-up geophysical exploration consisting of line cutting and VLF EM 16 and proton magnetometer surveying completed by Loydex Resources during the winter of 1983. During March-April 1983, Great Lakes Paper Limited harvested spruce pulp and scarified the total-cut areas which cover about 50% of the property. These operations obliterated cut lines, pickets and claim posts. Consequently, 10 line km of rechainning and picketing in these disturbed areas were required in advance of the geologic mapping, prospecting and geochemical sampling carried out by Dejour Mines.

Geologic Mapping and Prospecting

22.2 line km of detailed geologic mapping and prospecting were completed along lines spaced at 100 m intervals and picketed at 25 m stations, across the entire claim group excluding the areas occupied by lakes.

Geochemical Soil and Humus Sampling

Eighty-three soil samples were collected by grub hoe pitting from the oxidized "B" horizon at depths of 15 to 30 cm along grid lines at 25 m stations over five VLF conductors located on claims PA 612169, 612171, 612172, 612174, 612176, 612177, 612189, 612191 and 612192. Sampling covered the east-west trending conductor axes for 50 m north and south. Where soil cover was too thin to permit collection of an adequate sample volume, humus "Ao" (peaty decomposed) leaf litter, comprising chiefly spruce with lesser poplar and birch, was collected by hand at the picketed stations. A total of 63 humus samples were taken over five conductors on claims PA 611671, 612169, 612170, 612171, 612176, 612178, 612189 and 612192. Samples were shipped to Technical Services Laboratory in Mississauga, Ontario for analysis of gold, silver, arsenic, antimony, copper, nickel and zinc contents. Gold content of soil was determined by fire assay-atomic absorption and by neutron activation for humus. The inductively coupled argon plasma (ICAP) method was used to determine the other elements. Detection limits for the various analytical methods employed and analytical results are attached in Appendix A.

Lithochemical Sampling, Blasting and Trenching

Six trenches and two pits were blasted in sulphide mineralized bedrock in the vicinity of VLF conductors E and F on claims PA 612176 and 612170. Eleven chip samples and six bulk samples ranging from 15 to 30 kg were obtained from the trenches and approximately 20 kg of grab samples were taken from the blast pits. A total of 43 rock grab samples were collected in the vicinity of VLF conductors B, C, E and F on claims 611671, 612170, 612171, 612174, 612176, 612178

and 612191. Chip and grab samples were geochemically analysed by the fire assay - atomic absorption technique for gold plus or minus silver. Five determinations for gold and silver were carried out on each of the bulk samples. Detection limits and analytical results are attached in Appendix B.

PERSONNEL

Dejour Mines personnel carrying out exploration and acting in supervisory capacity are listed below along with the tasks performed.

<u>CREW MEMBER</u>	<u>ADDRESS</u>	<u>RESPONSIBILITIES/TASKS</u>
R. E. Routledge, B.Sc. M.Sc. (applied) F.G.A.C.	401 Bay St., Toronto	Programme management and reporting, prospecting, blasting and trenching.
J. T. Arengi B.Sc., M.Sc. F.G.A.C.	401 Bay St., Toronto	Field Supervision and prospecting.
P. Hartwick B.Sc.	Toronto, Ont.	Geologic mapping, geochemical sampling.
C. Buck, B.Sc.	Temagami, Ont.	Geologic mapping, geochemical sampling.
D. Richardson Geol. Tech.	Willowdale, Ont.	Blasting and trenching.
C. Debow Geol. Tech.	Belleville, Ont.	Blasting and trenching and geochemical sampling.

REGIONAL GEOLOGY

The Sturgeon Lake area is underlain by Precambrian (Archean) rocks assigned to the Wabigoon Subprovince of the Superior Province. Trowell (1983) subdivides the area into four assemblages based on lithology and geographic distribution. The Loydex Jumping Lake Property lies within the North Sturgeon Lake Assemblage which has been further subdivided in the immediate area into the Jumping Lake-Six Mile Lake cycle. Two formations comprise this mafic volcanics to felsic volcanics and sedimentary rock transition cycle. The lower formation is predominantly massive and pillowed amygdaloidal flows with minor porphyritic flows and narrow hyaloclastite and autoclastite zones. The upper formation consists of intermediate to felsic fragmental rocks including autoclastic breccia, pyroclastic and redeposited pyroclastic detritus, conglomerate and wacke-siltstone. Whereas the lower formation flows are predominantly of high iron and high magnesium tholeiitic basalt affinity, upper formation rocks plot in the calc-alkalic dacite to rhyolite field (Trowell, 1983). Narrow bands of tuff, lapilli tuff and wacke to siltstone and argillite are mapped in the similar, but older, mafic flows of the Four Bay Lake cycle to the north. Recent reconnaissance mapping indicates that these interflow or intra-cycle pyroclastics and volcanoclastic sedimentary rocks are also common in the lower Jumping Lake mafic sequence. Trondhjemite and gabbro sills and dykes intrude the above assemblage locally.

Regional lithologic trend is principally east-west with volcanic contacts and weak foliation dipping steeply north and south. Top determinations indicate stratigraphic younging to the south. Open regional folding is cross-folded locally and small scale, tight isoclinal flexures and shear folding occur locally. Shear zones

are evident as numerous lineaments and strike faulting along incompetent sedimentary-tuff horizons appears to be common.

PROPERTY GEOLOGY (Map 1)

Physiography

Relief on the property is moderate and ranges up to 45 m with respect to a base elevation of about 430 m ASL at Jumping Lake. Differential erosion of bedrock accounts for most of the relief, whereas Quaternary sediments exert little influence on topography. The thin soil cover consists of bouldery till with recent deposits of clay and silt occupying low lying areas where drainage accumulates as well as the borders of the two lakes on the property. Drainage is largely undeveloped and run-off is collected in Yankovich Lake and Jumping Lake which discharges south via a creek.

Lithology, Structure and Mineralization

Lithologic terminology used herein is based only on physically identifiable properties such as colour, texture, hardness and the stratigraphic/structural relationships observed in the field.

The property is underlain chiefly by weakly deformed and metamorphosed basalt flows, minor dacite and thin but continuous bands of interflow sediments of

the lower Jumping Lake volcanic cycle. In the east-central portion of the property this assemblage is intruded by a composite body of trondhjemite (granophyre)-gabbro.

Metabasalt flows are massive to pillowed and locally exhibit autoclastic breccias and minor carbonate alteration. Colour is dark olive green to grey and texture varies from aphanitic and weakly foliated to medium-grained massive. Local cross-cutting relationships indicate a near-vent setting and the presence of subvolcanic dykes in addition to coarser flows possibly representing sills. Top determinations from pillow packing and shapes indicate strata face south-southeast. Dips are steeply south.

Siliceous dark grey metavolcanics, field-termed dacite, crop out on the northwest shore of Jumping Lake (Lines 0 to 4E/3+50 to 7+50N). This unit is about 150 m thick. Thin bands of dacitic to rhyodacitic tuff are interbedded with interflow metasediments south of Jumping Lake on L5E/1+75N at VLF conductor E.

Interflow metasediments are exposed in two bands and are traced as VLF conductors, E & F, for up to 800 m across the property. Although not confirmed in outcrop, VLF conductors B and C, in the north portion of the property, are likely interflow sediments and volcanoclastics. From north to south in ascending stratigraphic order as exemplified in conductor "E", the sedimentary sequence consists of arkosic-wacke to quartzite succeeded by thinly laminated chert with minor graphitic beds and dacitic to rhyodacitic tuff topped by massive blue chert. Cherts host minor disseminated pyrite. This sequence is up to 3 m thick. Autoclastic basalt breccias underlie the metasedimentary unit. Phyllitic basalt to siliceous basalt or andesite mineralized by pyrrhotite overlies the conductive metasediments. Shearing of the basalts and sediments parallel to lithologic trend is indicated by

phyllitic to schistose cleavage of the basalt and the strong foliation of the metasediments.

A trondhjemite-gabbro intrusive complex, approximately 400 m x 200 m in dimensions, is exposed on a hill south of Yankovich Lake in the southwest quadrant of the property. Field relations suggest the white to light grey, medium-grained massive "trondhjemite" (granophyric differentiate?), which cross-cuts the volcanics, has been itself intruded and partially assimilated by green, medium-grained massive gabbro. The intrusive contact with volcanics is irregular and inclusions of basalt up to 100 m x 25 m are present within the intrusive mass. "Trondhjemite" and gabbro dykes are numerous near the main body and isolated exposures of these rock-types within volcanics up to 600 m from the intrusive margin may represent cupolas. Minor pyrite is finely disseminated in the intrusive rocks.

RESULTS OF EXPLORATION

Trenching and Pitting (Map 1)

Results of rock analyses for samples obtained from trenches and pits blasted in exposures in the vicinity of and over conductors E and F range from less than 5 ppb to 25 ppb gold and 0.8 to 1.5 ppm silver in chips and from 6 to 42 ppb gold and 0.7 to 1.6 ppm silver (averaged) in bulk samples. A composite grab sample of blue quartz lenses, occupying tension fractures perpendicular to faulting along conductor

F, was taken from pits 1 and 2. This yielded 40 ppb gold and 0.7 ppm silver. Although the above gold and silver contents may be somewhat elevated with respect to normal background in similar volcanic and sedimentary rock-types elsewhere, they are not economically significant. Trench and blast pitting results are summarized in Table 2.

Table 2

Summary of Trenching and Blast Pitting Results

<u>Trench No (Tr) Pit No (P)</u>	<u>Analysed Interval Au ppb(Ag ppm)/metres</u>	<u>Lithology and Mineralization</u>	<u>Bulk Sample Au ppb/Agppm)/metres</u>
Tr 1	(1201) 5(1.2)/0.99	Siliceous basalt (andesite)	(1218) 8(1.3)/3.03
	(1202) 5(1.2)/0.30	Blue chert & dissem. pyrite	
	(1203) 5(0.8)/1.19	Dacite to rhyodacite tuff	
	(1204) 10(1.1)/0.55	Laminated chert/ graphite/massive chert	
Tr 2	(1205) 5(1.1)/1.68	Basalt/andesite & dissem. pyrite	(1231) 22(1.4)/4.58
	(1206) 5(1.4)/0.88	Laminated chert & dissem. pyrite	
	(1207) 10(1.4)/1.56	Phyllitic basalt, chert & pyrrhotite	
	(1208) 5(0.8)/0.46	Basalt	
Tr 3	(1209) 5(1.1)/0.98	Basalt & dissem. pyrrhotite	(1232) 42(1.6)/1.68
	(1211) 10(1.0)/0.40	Basalt-andesite	
	(1210) 25(1.5)/0.30	Laminated wacke/ chert/graphite & pyrite	
Tr 4	-	Arkosic wacke to quartzite & dissem. pyrite.	(1233) 14(1.1)/0.24
Tr 5	-	Arkosic wacke to quartzite & dissem. pyrite.	(1234) 15(0.9)/0.45
Tr 6	-	Sheared basalt & pyrrhotite, pyrite; trondhemite dyke & wackes.	(1235) 6(1.0)/3.90
P 1&2	-	Blue quartz lenses in basalt	(1213) 40(0.7) -

Rock Geochemical Sampling (Map 1)

Gold and silver contents analysed from the 43 rock samples collected from outcrops returned less than 5 to 20 ppb gold and less than 0.2 to 1.0 ppm silver and are not encouraging.

Geochemical Sampling Results (Map 2 and 3)

Gold and silver contents of humus range from less than 1 to 47 ppb gold and less than 0.2 to 11.4 ppm silver. Soil sample values are less than 5 to 45 ppb gold and 0.2 to 2.9 ppm silver. These values compare closely to the background bedrock contents of conductors E and F. Arsenic, antimony, copper, zinc and nickel contents also appear to be background. Because of the thin soil cover, much of which is locally derived till, it is very likely the geochemical values in humus and soils directly reflect local background concentrations in bedrock and no significant anomalies in soils and humus indicative of economic mineralization are thus apparent.

CONCLUSIONS

Results from geologic mapping, prospecting, lithochemical sampling and geochemical humus and soil sampling, and from trenching over VLF EM conductors are not encouraging. The sulphide-bearing metasediments within the mafic volcanics on the property do not appear to be economically promising for gold. No stratiform carbonate horizons were found within the mafic volcanics adjacent to the intrusive on the property which could suggest a potential for gold analogous to the St.

Anthony Mine setting. Furthermore, the property setting does not duplicate that of the Steep Rock Mine at King Bay wherein gold was discovered in quartz veins cross-cutting mafic volcanics near the contact with the trondhjemite stock. The "trondhjemite"-gabbro plug on the Loydex Jumping Lake Property appears to be more of a tholeiitic-diorite-gabbroid kindred rather than comparable to the calc-alkaline affinity of trondhjemites composing the favourable King Bay, the Beidleman Bay and St. Anthony Plutons.

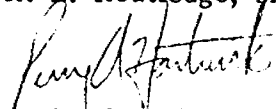
The geologic setting on the property, consisting of the middle members of a monotonous sequence of tholeiitic basalt flows, lacks the altered ultramafic units, major fault structures and significant sedimentary rock sequences which characterize favourable vein-gold camps known in Archean volcanic settings elsewhere. A potentially more favourable stratigraphic position, given the mafic suite of volcanics underlying the property, would likely be further south at the top of the Jumping Lake - Six Mile Lake mafic volcanics, i.e. stratigraphically subjacent to the upper felsic volcanic unit.

In view of the above, no further work is warranted at this time.

Respectfully submitted,

DEJOUR MINES LIMITED

R. E. Routledge, M.Sc. (Applied) F.G.A.C.


P. A. Hartwick, B.Sc.

Toronto, Canada
November 24, 1983

APPENDIX A

HUMUS AND SOIL GEOCHEMICAL ANALYSES

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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

Derry, Michener, Booth & Wahl
 Suite 2302
 401 Bay St
 Toronto, Ont. M5H 2Y4
 Attention: L.S. Thompson

REPORT No.
 T-4283-1

Inv.#23165

SAMPLE(S) OF

HUMUS

	Gold (Au) ppb by NAA	Silver (Ag) ppm by AA	Arsenic (As) ppm by NAA	Antimony (Sb) ppm by NAA
CD1	7	0.4	3	0.3
CD2	12	0.5	5	0.4
CD3	9	0.3	5	0.4
CD4	<1	0.2	5	0.5
CD11	4	0.3	5	0.5
CD44	5	1.4	7	0.8
CD45	6	0.6	3	0.4
CD46	28	0.3	5	0.5
CD47	7	0.5	4	0.4
CD48	<1	0.6	3	0.2
CD53	10	11.4	4	0.5
CD54	11	0.5	4	0.4
CD101	<1	0.4	4	0.5
CD103	47	0.2	9	0.4
CD104	9	0.3	5	0.5
CD105	15	0.3	7	0.3
CD106	3	0.6	5	0.5
CD107	4	0.4	4	0.2
CD108	6	0.4	5	0.5
CD109	6	0.2	6	0.3

Samples, Pulps and Rejects discarded after two months

September 15/83

DATE _____

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Toronto, Ont. M5H 2Y4
Attention: L.S. Thompson

REPORT No.
T-4283-2

Inv.#23165

SAMPLE(S) OF

HUMUS

	Copper (Cu) ppm by AA	Zinc (Zn) ppm by AA	Nickel (Ni) ppm by AA
CD1	6	44	11
CD2	11	120	9
CD3	7	64	7
CD4	4	34	4
CD11	5	55	7
CD44	6	60	8
CD45	6	40	7
CD46	7	63	6
CD47	28	30	17
CD48	14	30	16
3L53	5	30	7
CD54	7	37	13
CD101	11	38	15
CD103	10	58	7
CD104	8	51	7
CD105	11	56	10
CD106	22	53	15
CD107	13	43	16
CD108	10	42	14
CD109	5	46	10

Samples, Pulps and Rejects discarded after two months

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Toronto, Ont. M5H 2Y4
Attention: L.S. Thompson

REPORT No.
T-4283-3

Inv.#23165

SAMPLE(S) OF

HUMUS

	Gold (Au) ppb by NAA	Silver (Ag) ppm by AA	Arsenic (As) ppm by NAA	Antimony (Sb) ppm by NAA
CD110	6	0.3	6	0.5
CD111	9	0.3	11	0.4
CD122	12	0.2	5	0.4
CD123	12	<0.2	3	0.3
CD124	7	0.2	7	0.5
CD125	6	0.3	7	0.7
CD126	3	<0.2	7	0.8
CD127	12	0.2	1	0.2
CD128	10	0.3	6	0.4
CD129	10	4.0	5	0.5
CD140	9	0.3	5	0.6
CD141	5	0.4	5	0.2
CD142	<1	0.4	4	0.2
CD143	1	0.3	3	0.1
CD144	4	0.3	8	0.4
CD145	<1	0.5	2	0.1
CD146	2	0.3	8	0.8
CD147	1	0.2	2	0.3
CD148	4	0.4	8	0.6
CD149	4	0.2	5	0.5

Samples, Pulps and Rejects discarded after two months

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REPORT No.
T-4283-4

Inv.#23165

SAMPLE(S) OF

HUMUS

	Copper (Cu) ppm by AA	Zinc (Zn) ppm by AA	Nickel (Ni) ppm by AA
CD110	5	24	4
CD111	8	20	6
CD122	7	36	5
CD123	5	19	4
CD124	6	45	7
CD125	5	27	5
CD126	6	40	3
CD127	6	18	7
CD128	6	38	6
CD129	3	17	3
CD140	3	12	4
CD141	3	24	11
CD142	7	25	10
CD143	3	18	7
CD144	8	52	7
CD145	20	27	20
CD146	7	47	9
CD147	10	70	7
CD148	18	127	8
CD149	5	40	5

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Inv.#23165

SAMPLE(S) OF

HUMUS

	Gold (Au) ppb by NAA	Silver (Ag) ppm by AA	Arsenic (As) ppm by NAA	Antimony (Sb) ppm by NAA
CL10	5	0.5	5	0.6
CL37	4	0.5	5	0.4
CL38	<1	0.6	3	0.1
CL39	1	0.2	2	0.1
CL42	3	0.2	7	0.7
CL47	2	0.2	6	0.5
CL48	2	0.3	5	0.4
CL49	1	1.7	3	0.3
CL50	3	0.3	5	0.5
CL53	<1	<0.2	7	0.5
CL58	1	0.3	5	0.4
CL61	2	<0.2	7	1
CL65	3	<0.2	7	0.7
CL94	3	<0.2	7	0.9

Samples, Pulps and Rejects discarded after two months

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SIGNED

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1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2

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

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

Derry, Michener, Booth & Wahl
Suite 2302
401 Bay St
Toronto, Ont. M5H 2Y4
Attention: L.S. Thompson

REPORT No.
T-4283-6

SAMPLE(S) OF

HUMUS

Inv.#23165

	Copper (Cu) ppm by AA	Zinc (Zn) ppm by AA	Nickel (Ni) ppm by AA
CL10	40	103	14
CL37	24	37	20
CL38	56	58	40
CL39	11	16	7
CL42	8	28	7
CL47	8	20	8
CL48	12	31	11
CL49	37	30	18
CL50	20	27	13
CL53	11	20	10
CL58	19	28	10
CL61	7	78	6
CL65	8	64	6
CL94	8	35	5

Samples, Pulps and Rejects discarded after two months

September 15/83

DATE

SIGNED

L.S. Thompson



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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

Derry, Michener, Booth & Wahl
 401 Bay St., Suite 2302
 Toronto, Ontario
 M5H 2Y4
 Attention: L.S. Thompson

REPORT No.

T-4281-1

SAMPLE(S) OF

SOILS

Inv. #23250

Sample No.	Gold (Au) ppb	Silver (Ag) ppm	Arsenic (As) ppm	Antimony (Sb) ppm
CD 6	<5	0.4	<1	2.2
CD 8	<5	0.4	<1	1.4
CD 10	<5	0.4	<1	1.0
CD 15	<5	0.3	<1	1.6
CD 17	<5	0.2	<1	1.4
CD 19	<5	0.3	<1	1.3
CD 21	5	0.3	<1	1.5
CD 23	<5	0.2	<1	2.0
CD 25	<5	0.5	<1	2.4
CD 27	<5	0.5	<1	1.8
CD 29	<5	0.6	<1	<1
CD 31	10	0.4	<1	<1
CD 33	5	0.5	<1	<1
CD 35	5	0.4	2	<1
CD 37	45	0.3	<1	<1
CD 39	10	0.4	1	1.1
CD 41	<5	0.4	1	<1
CD 43	10	0.5	<1	<1
CD 49	25	0.3	<1	<1
CD 50	15	0.2	<1	1.8

Samples, Pulps and Rejects discarded after two months

DATE September 27/83

SIGNED

Paul E. Burgner



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1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2

TELEPHONE (416) 625-1544

TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

Derry, Michener, Booth & Wahl
401 Bay St., Suite 2302
Toronto, Ontario
M5H 2Y4
Attention: L.S. Thompson

REPORT No.

T-4281-2

Inv. #23250

SAMPLE(S) OF

SOILS

Sample No.	Copper (Cu) ppm	Zinc (Zn) ppm	Nickel (Ni) ppm
CD 6	12	24	15
CD 8	17	24	10
CD 10	8	24	5
CD 15	5	12	5
CD 17	4	22	6
CD 19	5	18	5
CD 21	6	26	5
CD 23	5	22	4
CD 25	7	26	14
CD 27	10	37	10
CD 29	12	67	13
CD 31	6	19	4
CD 33	11	27	9
CD 35	30	61	13
CD 37	6	17	4
CD 39	19	23	11
CD 41	12	17	10
CD 43	13	30	11
CD 49	7	65	9
CD 50	3	21	5

Samples, Pulps and Rejects discarded after two months

DATE September 27/83

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Paul S. Burger



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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

Derry, Michener, Booth & Wahl
401 Bay St., Suite 2302
Toronto, Ontario
M5H 2Y4
Attention: L.S. Thompson

REPORT No.
T-4281-3

Inv. #23250

SAMPLE(S) OF

SOILS

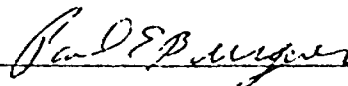
Sample No.	Gold (Au) ppb	Silver (Ag) ppm	Arsenic (As) ppm	Antimony (Sb) ppm
CD 52	5	0.3	<1	<1
CD 56	<5	0.2	<1	<1
CD 58	5	<0.2	<1	<1
CD 60	5	0.2	<1	1.5
CD 62	5	0.4	<1	<1
CD 64	<5	0.5	<1	<1
CD 66	<5	<0.2	<1	<1
CD 68	5	<0.2	<1	<1
CD 70	5	0.3	<1	<1
CD 72	<5	0.4	<1	<1
CD 74	10	<0.2	<1	<1
CD 76	5	0.3	<1	<1
CD 78	5	0.2	<1	2.2
CD 80	5	0.5	<1	2.3
CD 82	<5	0.4	1	1.5
CD 84	<5	2.9	<1	1.9
CD 86	5	0.4	<1	2.4
CD 88	5	0.2	<1	2.2
CD 90	10	0.2	<1	2.1
CD 92	10	0.4	<1	1.8

Samples, Pulps and Rejects discarded after two months

September 27/83

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1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2

TELEPHONE (416) 625-1544

TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

Derry, Michener, Booth & Wahl
 401 Bay St., Suite 2302
 Toronto, Ontario
 M5H 2Y4
 Attention: L.S. Thompson

REPORT No.
 T-4281-4

Inv. #23250

SAMPLE(S) OF

SOILS

Sample No.	Copper (Cu) ppm	Zinc (Zn) ppm	Nickel (Ni) ppm
CD 52	14	18	13
CD 56	14	16	7
CD 58	9	20	8
CD 60	29	33	15
CD 62	21	31	12
CD 64	48	48	17
CD 66	3	7	2
CD 68	3	9	2
CD 70	7	24	6
CD 72	17	71	15
CD 74	16	46	15
CD 76	5	21	5
CD 78	5	14	5
CD 80	9	34	9
CD 82	11	38	11
CD 84	5	21	6
CD 86	7	23	6
CD 88	3	12	5
CD 90	11	25	12
CD 92	10	29	13

Samples, Pulps and Rejects discarded after two months

September 27/83

DATE

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R. S. Burgner



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1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2

TELEPHONE (416) 625-1544

TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Derry, Michener, Booth & Wahl
401 Bay St., Suite 2302
Toronto, Ontario
M5H 2Y4
Attention: L.S. Thompson

REPORT No.
T-4281-5

Inv. #23250

SAMPLE(S) OF SOILS

Sample No.	Gold (Au) ppb	Silver (Ag) ppm	Arsenic (As) ppm	Antimony (Sb) ppm
CD 94	<5	0.4	<1	<1
CD 96	<5	0.3	<1	1.4
CD 97	5	0.4	1	<1
CD 98	<5	0.3	<1	<1
CD 99	<5	0.3	<1	<1
CD 100	5	0.4	<1	<1
CD 102	5	0.3	<1	<1
CD 113	<5	0.3	<1	<1
CD 115	5	0.5	<1	<1
CD 117*	NO SAMPLE			
CD 119	5	0.3	<1	<1
CD 121	<5	0.3	<1	<1
CL 2	<5	0.2	<1	<1
CL 4	<5	0.2	<1	<1
CL 6	<5	<0.2	<1	<1
CL 8	<5	0.8	<1	<1
CL 12	<5	0.4	<1	<1
CL 13	30	0.6	<1	<1
CL 15	5	0.4	<1	<1
CL 18	<5	0.4	<1	<1

* Note: Sample CD 117 - Broken Bag - Sample Lost.

Samples, Pulps and Rejects discarded after two months

DATE September 27/83

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Paul S. Burgner



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1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2

TELEPHONE (416) 625-1544

TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

Derry, Michener, Booth & Wahl
401 Bay St., Suite 2302
Toronto, Ontario
M5H 2Y4
Attention: L.S. Thompson

REPORT No.
T-4281-6

Inv. #23250

SAMPLE(S) OF

SOILS

Sample No.	Copper (Cu) ppm	Zinc (Zn) ppm	Nickel (Ni) ppm
CD 94	13	57	24
CD 96	8	26	14
CD 97	17	37	21
CD 98	8	20	11
CD 99	10	35	13
CD 100	23	32	22
CD 102	17	24	18
CD 113	15	39	15
CD 115	12	33	15
CD 117*	NO SAMPLE		
CD 119	15	38	18
CD 121	2	13	8
CL 2	25	18	11
CL 4	26	33	20
CL 6	46	64	25
CL 8	105	200	52
CL 12	33	22	16
CL 13	63	156	20
CL 15	37	32	16
CL 18	13	24	14

* Note: Sample CD 117 - Broken Bag - Sample Lost.

Samples, Pulps and Rejects discarded after two months

September 27/83

DATE

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- CONTRACT LABORATORIES

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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 Derry, Michener, Booth & Wahl
 401 Bay St., Suite 2302
 Toronto, Ontario
 M5H 2Y4
 Attention: L.S. Thompson

REPORT No.
 T-4281-7

Inv. #23250

SAMPLE(S) OF SOILS

Sample No.	Gold (Au) ppb	Silver (Ag) ppm	Arsenic (As) ppm	Antimony (Sb) ppm
CL 20	<5	0.3	<1	<1
CL 22	<5	0.2	<1	<1
CL 24	<5	0.5	<1	<1
CL 26	5	0.2	<1	<1
CL 28	<5	0.3	<1	<1
CL 30	<5	0.3	<1	<1
CL 32	<5	0.2	<1	<1
CL 34	<5	<0.2	<1	<1
CL 36	<5	0.2	<1	<1
CL 41	<5	0.4	<1	<1
CL 44	<5	0.3	<1	<1
CL 46	<5	<0.2	<1	<1
CL 52	<5	0.4	<1	<1
CL 55	<5	<0.2	1	<1
CL 57	<5	<0.2	2	<1
CL 60	<5	0.2	<1	<1
CL 63	<5	0.3	<1	<1
CL 67	<5	0.5	<1	<1
CL 69	<5	0.6	<1	<1
CL 71	<5	<0.2	<1	<1

Samples, Pulps and Rejects discarded after two months

DATE September 27/83

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1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2

TELEPHONE (416) 625-1544

TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Derry, Michener, Booth & Wahl
 401 Bay St., Suite 2302
 Toronto, Ontario
 M5H 2Y4
 Attention: L.S. Thompson

REPORT No.
 T-4281-8

Inv. #23250

SAMPLE(S) OF SOILS

Sample No.	Copper (Cu) ppm	Zinc (Zn) ppm	Nickel (Ni) ppm
CL 20	22	30	26
CL 22	23	62	19
CL 24	19	68	23
CL 26	21	30	13
CL 28	11	19	14
CL 30	11	23	17
CL 32	17	31	18
CL 34	11	23	13
CL 36	27	30	18
CL 41	21	25	18
CL 44	22	26	16
CL 46	62	28	20
CL 52	38	33	23
CL 55	17	21	5
CL 57	75	36	18
CL 60	9	19	8
CL 63	24	21	8
CL 67	35	48	20
CL 69	55	63	47
CL 71	41	23	19

Samples, Pulps and Rejects discarded after two months

DATE September 27/83

SIGNED *Paul E. Burgner*



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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 Derry, Michener, Booth & Wahl
401 Bay St., Suite 2302
Toronto, Ontario
M5H 2Y4
Attention: L.S. Thompson

REPORT No.
T-4281-9

Inv. #23250

SAMPLE(S) OF SOILS

Sample No.	Gold (Au) ppb	Silver (Ag) ppm	Arsenic (As) ppm	Antimony (Sb) ppm
CL 73	<5	0.2	<1	<1
CL 75	<5	0.2	1	<1
CL 77	<5	0.2	1	<1
CL 79	<5	0.3	<1	1.6
CL 81	<5	0.6	<1	<1
CL 83	<5	<0.2	<1	1.1
CL 85	<5	0.3	<1	<1
CL 87	<5	0.2	<1	1.3
CL 89	<5	0.2	<1	<1
CL 91	<5	0.3	<1	<1
CL 93	<5	1.2	1	1.0

Samples, Pulps and Rejects discarded after two months

DATE September 27/83

SIGNED *Paul S. Burger*



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TECHNICAL SERVICE LABORATORIES

DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED

1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2

TELEPHONE (416) 625-1544

TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

Derry, Michener, Booth & Wahl
 401 Bay St., Suite 2302
 Toronto, Ontario
 M5H 2Y4
 Attention: L.S. Thompson

REPORT No.
 T-4281-10

Inv. #23250

SAMPLE(S) OF

SOILS

<u>Sample No.</u>	<u>Copper (Cu) ppm</u>	<u>Zinc (Zn) ppm</u>	<u>Nickel (Ni) ppm</u>
CL 73	15	27	8
CL 75	12	21	11
CL 77	9	26	6
CL 79	24	45	14
CL 81	10	51	10
CL 83	12	28	13
CL 85	12	28	13
CL 87	6	22	7
CL 89	16	27	15
CL 91	31	22	18
CL 93	178	47	70

Samples, Pulps and Rejects discarded after two months

September 27/83

DATE

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Paul S. Burgen



APPENDIX B

ROCK GEOCHEMICAL ANALYSES

B & C LTD.

DERRY, MICHENER, BOOTH & WAHL LTD.

(J. ARENGI)

WO NO: 83-0433

PAGE: 1

SAMPLE ID	AU PPM	AS PPM	AG PPM	
LJ-1	<10	---	<.2	} Baseline +60E
LJ-2	<10	---	.2	
LJ-3	<10	---	<.2	
LJ-4	<10	---	.2	
LJ-5	<10	---	.2	
LJ-6	<10	---	.6	} CONDUCTOR 'E'
LJ-7	<10	---	.4	
LJ-8	<10	---	.2	
PH-72-F	<10	---	<.2	} CONDUCTOR 'F'
PH-73-F	<10	---	.2	
PH-74-F	<10	---	<.2	
PH-75-F	<10	---	<.2	
PH-76-F	<10	---	<.2	
PH-77-F	<10	---	.6	} CONDUCTOR 'C'
PH-77-F(R)	<10	---	1.6	
PH-80-R	<10	---	.2	} CONDUCTOR 'B'
PH-81-R	<10	---	<.2	
PH-82-R	<10	---	<.2	
PH-84(C)	<10	---	<.2	} CONDUCTOR 'C'
PH-85	<10	---	<.2	
PH-86	<10	---	<.2	

Loydex

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1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2

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

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Derry Michener Booth & Wahl
Suite 2302
401 Bay St.
Toronto Ont. M5H 2Y4
ATTN L.S. Thompson

REPORT No. T4280-1

SAMPLE(S) OF ROCK

Inv# 23253
P.O. /

	Gold (Au) ppb	Silver (Ag) ppm
1201	5	1.3
1202	<5	1.2
1203	<5	0.8
1204	10	1.5
1205	5	1.1
1206	5	1.1
1207	10	1.4
1208	5	1.4
1209	5	0.8
1210	25	1.1
1211	10	1.0
1212 (Unnumbered bag)	<5	0.6
1213 (3 bags)	40	0.7
CB8	5	0.8
CB9	5	1.0
DGS-1	<5	1.0
PH71(F)	5	0.9
PH72(F)	10	0.7
PH73	20	0.9
PH73(F)	10	0.6

Samples, Pulps and Rejects discarded after two months

DATE Sept. 27/83

SIGNED *P. E. Burgener*

P. E. Burgener PEng.



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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 Derry Michener Booth & Wahl
 Suite 2302
 401 Bay St.
 Toronto Ont. M5H 2Y4
 ATtn L.S. Thompson

REPORT No.
 T4280-2

SAMPLE(S) OF ROCK

Inv# 23253
 P.O. /

	Gold (Au) ppb	Silver (Ag) ppm
PH74(F)	<5	0.4
PH78	<5	0.4
PH79	5	0.5
PH81(B)	5	0.4
PH82(B)	5	0.8
PH83(C)	5	0.6
PH84(C)	<5	<0.2
PH86	10	<0.2
PH102	10	0.7

Samples, Pulps and Rejects discarded after two months

DATE Sept. 27/83

SIGNED *Paul E. Burgener*

P.E. Burgener PEng.



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1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2

TELEPHONE (416) 625-1544

TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Derry Michener Booth & Wahl
 Suite 2302
 401 Bay St.
 Toronto Ont. M5H 2Y4
 ATtn L.S. Thompson

REPORT No.

T4279-1

SAMPLE(S) OF ROCKS

Inv# 23425

P.O. /

	Gold (Au) ppb by FA/AA	Silver (Ag) ppm
1218-1	5	1.4
1218-2	10	1.1
1218-3	5	1.4
1218-4	10	1.4
1218-5	10	1.3
1231-1	20	1.5
1231-2	20	1.3
1231-3	25	1.3
1231-4	25	1.3
1231-5	20	1.4
1232-1	25	1.6
1232-2	45	1.6
1232-3	35	1.7
1232-4	65	1.5
1232-5	40	1.6
1233-1	25	1.5
1233-2	10	1.0
1233-3	10	1.0
1233-4	10	1.1
1233-5	15	0.9
1234-1	10	1.0

Samples, Pulps and Rejects discarded after two months

DATE Oct. 20/83

SIGNED

P. E. Burgener

P.E. Burgener PEng.



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- 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 Derry Michener Booth & Wahl
 Suite 2302
 401 Bay St.
 Toronto Ont. M5H 2Y4
 ATtn L.S. Thompson

REPORT No.
 T4279-2

SAMPLE(S) OF ROCKS

Inv# 23425
 P.O. /

	Gold (Au) ppb by FA/AA	Silver (Ag) ppm
1234-2	15	0.8
1234-3	20	1.0
1234-4	20	0.8
1234-5	10	0.9
1235-1	5	0.9
1235-2	5	0.9
1235-3	5	1.1
1235-4	10	1.1
1235-5	5	0.9

Samples, Pulps and Rejects discarded after two months

DATE Oct. 20/83

SIGNED *P. E. Burgener*

P. E. Burgener PEng.



DEJOUR MINES LIMITED

Allocation of Man-days and Exploration Costs
(Exclusive of Geologic Mapping and Prospecting Surveys)

Loydex Resources Inc. Jumping Lake Property

July 15 - August 25, 1983

Geochemical Soil and Humus Sampling

7 Man-days

\$ 975.00

Stripping, trenching and sampling

23 Man-days

4,625.00

Geochemical Analyses (rock, soil humus - 206 samples total)

4,842.38

Supervision

4 Man-days

1,275.00

TOTAL

\$ 11,717.38

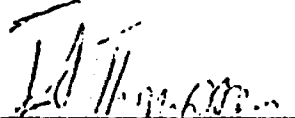
Certified by:

DEJOUR MINES LIMITED

RECEIVED

DEC 10 1983

MINING LANDS SECTION



I. S. Thompson, P.Eng.
Vice President

Okay Men
01, 31.84



BARRINGER MAGENTA LIMITED

304 CARLINGVIEW DRIVE
METROPOLITAN TORONTO
REXDALE, ONTARIO
CANADA M9W 5G2
PHONE 416-675-3870
TELEX 06-989183

SERVICES FOR THE EARTH AND ENVIRONMENTAL SCIENCES

DATE: August 22, 1983

PROJECT: 100.41

PERIOD COVERED:

SALES ORDER:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT:

FED. SALES TAX:

ONT. SALES TAX:

83-433

N/A

N/A

- Derry, Mitchener, Booth & Wahl Ltd.
2302 - 401 Bay Street
- Toronto, Ontario
M5H 2Y4

TERMS: NET 30 days

AUTHORITY: J.T. Arengi

TO: ANALYSIS

*Dgiron - Batch (0627%) = 434.12
- Loydex (038%) = 266.08 ✓*

Jo

55 Rocks for: Preparation

@ \$ 3.20

\$176.00

21 Rocks for: Au

@ \$ 5.50

115.50

Ag

@ \$ 2.30

48.30

34 Rocks for: Au

@ \$ 5.50

187.00

As

@ \$ 5.10

173.40

TOTAL INVOICE

\$700.20

Ed Thompson

INTEREST AT 2% PER MONTH PAYABLE ON
OVERDUE ACCOUNTS

INVOICE No 8970

304 CARLINGVIEW DRIVE
 METROPOLITAN TORONTO
 REXDALE, ONTARIO
 CANADA M9W 5G2
 PHONE: 416-875-3870
 TELEX: 06-989183

C
 23.90 +
 266.08 +
 145.00 +
 507.60 +
 2 079.00 +
 820.30 +
 4 842.28 +

INGER MAGENTA LIMITED

EARTH AND ENVIRONMENTAL SCIENCES

1

DATE: Sept. 9, 1983

PROJECT: 100.41

PERIOD COVERED:

SALES ORDER:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: 83-479

FED. SALES TAX: N/A

ONT. SALES TAX: N/A

 nener, Booth & Wahl
 Street, Ste. 2302
 Toronto, Ontario
 M5H 2Y4

TERMS: NET 30 days

AUTHORITY: R. Rutledge

TO: ANALYSIS

15 Rock Samples

Preparation	@ \$3.20	\$48.00
Au	@ \$5.50	82.50
Ag, Cu	@ \$3.25	<u>48.75</u>

TOTAL INVOICE

\$179.25

*✓ @ 23.90 - Disposal
 @ 155.35 - Repro - Test*

ERK

W. Thompson

INVOICE No. 10215



TECHNICAL SERVICE LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

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

INVOICE NO.
23165

A0848
23165

CHARGE TO Derry Michener Booth & Wahl Suite 2302 401 Bay St. Toronto Ont. M5H 2Y4	DATE Sept. 15/83	REFERENCE NO. T42.83	YOUR ORDER NO.
	SHIP TO I.S. Thompson		TERMS: NET 30 DAYS

CODE	DESCRIPTION	UNIT PRICE	TOTAL
2.5	54 Determinations of Au As & Sb by NA	10.00	540.00
	54 Determinations of Ag Cu Zn & Ni	3.60	194.40
	54 Aqua Regia Digestions	1.60	86.40
	TOTAL		820.80
		PAY THIS AMOUNT	820.80

Levy

INVOICE - PLEASE ENCLOSE COPY OF INVOICE WITH PAYMENT

I.S. Thompson



TECHNICAL SERVICE LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

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

INVOICE NO.

23253

A0848
23253

CHARGE TO Derry Michener Booth & Wahl Suite 2302 401 Bay St. Toronto Ont. M5H 2Y4	DATE Sept. 27/83	REFERENCE NO. T4280	YOUR ORDER NO. /
	SHIP TO I. S. Thompson		TERMS: NET 30 DAY

CODE	DESCRIPTION	UNIT PRICE	TOTAL
2.5	29 Determinations of Au by FA/AA	7.00	203.00
2.2	29 Determinations of As with Aqua Regia Digestions	2.50	72.5
8.5	29 Sample Preparations	2.75	79.75
	TOTAL		355.25
	+ Collect Charges \$132.35 and Pick Up Charges From Bus Depot \$20.00		355.25
			152.35
			<u>\$507.60</u>

INVOICE - PLEASE ENCLOSE COPY OF INVOICE WITH PAYMENT

I. S. Thompson

TECHNICAL SERVICE LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

1301 FEWSTER DR., MISSISSAUGA, ONTARIO L4W 1A2

TELEPHONE: (416) 625-1544

23250

A0848
23250

CHARGE TO

Derry Michener Booth & Wahl
Suite 2302
401 Bay St.
Toronto Ont. M5H 2Y4

DATE

Sept. 27/83

REFERENCE NO.

t428

YOUR ORDER NO.

SHIP TO

R.E. Routledge

TERMS: NET 30 DAYS

CODE		DESCRIPTION	UNIT PRICE	TOTAL
2.5	90	Determinations of Au by FA/AA	7.00	630.00
2.2	90	Determinations of Ag Cu Zn & Ni	3.60	324.00
2.2	90	Aqua Regia Digestions	1.60	144.00
2.2	90	Determinations of Sb & As	10.00	900.00
8.5	90	Sample Preparations of Soil	0.90	81.00
		TOTAL		2079.00
			PAY THIS AMOUNT	2079.00

INVOICE -- PLEASE ENCLOSE COPY OF INVOICE WITH PAYMENT

E. Thompson



TECHNICAL SERVICE LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

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

INVOICE NO.
23425

A0848
23425

CHARGE TO

Derry Michener Booth & Wahl
Suite 2302
401 Bay St.
Toronto Ont. M5H 2Y4

DATE: Oct. 20/83 REFERENCE NO.: t4279 YOUR ORDER NO.: /

SHIP TO: L.S. Thompson

TERMS: NET 30 DAYS

CODE	DESCRIPTION	UNIT PRICE	TOTAL
5.2	30 Determinations of Au by FA/AA	7.00	210.00
2.2	30 Determinations of Ag with Aqua Regia Digestion	2.50	75.00
8.5	43 Hours Sample Preparation	20.00	860.00
TOTAL			1145.00
PAY THIS AMOUNT			1145.00

*Legon = Loydes
RER*

INVOICE - PLEASE ENCLOSE COPY OF INVOICE WITH PAYMENT

L.S. Thompson



52J02SW0042 52J02SW0050 FOURBAY LAKE

020

2.6075

REPORT On The ELECTROMAGNETIC
and
MAGNETIC SURVEY
On THE PROPERTY of LOYDEX RESOURCES INC.
FOURBAY LAKE AREA,

District of Kenora - Thunder Bay, Patricia Mining Division

N.T.S. 52-J-2

OM83-2-C-101



24 Kenlon Court, Whitby, Ontario L1N 5X7

INTRODUCTION:

A program consisting of a V.L.F. Electromagnetic Survey and a Magnetic Survey have recently been completed on the property of Loydex Resources Inc. in the Fourbay Area, west of Sturgeon Lake, Ontario.

PROPERTY:

The property consists of fifteen (15) contiguous mining claims in the Fourbay Area, Districts of Kenora and Thunder Bay, Patricia Mining Division. The claims are registered with the Ministry of Natural Resources of Ontario, under the following claim numbers;

PA 611671, PA 612169, PA 612170, PA 612171,
PA 612172, PA 612173, PA 612174, PA 612175,
PA 612176, PA 612177, PA 612178, PA 612189,
PA 612190, PA 612191, PA 612192.

GEOLOGY

The geological and geophysical interpretation of the area is shown on Map No. 39b, Sturgeon Lake Area, accompanying a report by A.R. Graham in volume XXXIX, Part 2, Ontario Department of Mines Annual Report, 1930 and on a preliminary map No. P1039 - Fourbay Lake Area, issued in 1975 by the Ministry of Natural Resources of Ontario.

The geology consists of east-west striking mafic metavolcanics with intrusions of Trondjemite, granodiorite sills (?) and quartz veins. Gold in the area is apparently associated with blue quartz veins as in the King Bay Area.

SURVEY METHODS and INSTRUMENT DATA:

The V.L.F. (very low frequency) Electromagnetic Survey was conducted over previously cut lines with readings at 12.5 meter intervals. The equipment used was the Geonic EM-16 System.

The V.L.F. method uses military radio transmitters at low frequencies as primary signals as opposed to portable transmitters in the conventional E.M. methods. The instrument has two receiving coils and the parameters measured are:

- (i) The vertical in-phase component.

- (ii) The vertical out-of-phase component (quadrature component).

The interpretation of the results used the relative measurements of these two parameters and it is possible to outline such poor conductors as sheared contacts, faults, breccia zones and alteration anomalies which are produced by a wide range of geological affects. Profiles tend to show a complex "cluttered" pattern and additional assistance is required to distinguish trends. By the use of the Fraser Method of filtering tilt angle profiles, the readings at 12.5 meter intervals are converted into contourable data and it is this data that is plotted on the accompanying map.

The magnetic survey was carried out over the same network of lines using a Geonics GSM-8 Proton magnetometer. The magnetometer measures the vertical component of the earth's magnetic field. Readings were taken at 12.5 meter intervals. These are plotted as gammas on a separate map, after correction for diurnal variation.

All conductor axes have been plotted on the magnetic map to aid in the interpretation.

RESULTS of the GEOPHYSICAL SURVEYS

The Electromagnetic Survey is shown on Map 1, indicating profiles of In and Out Phase Components and Map 2 showing Fraser Filtered Contours. The Magnetic Survey is shown on map 3.

THE FOLLOWING IS A LIST OF THE ELECTROMAGNETIC FRASER FILTERED CONDUCTORS. EACH CONDUCTOR HAS AN EXPLANATION AS TO ITS CAUSE

Conductor A

A cross-cutting structure which may be caused by shearing. Worthy of exploring in more detail by prospecting or using soil geochem methods.

Conductor B

Possibly a long shear zone which strikes east-west across the entire claim group. Sections within this long zone are of interest.

(i) Zone at 6W and 7W approximately 800 meters north of base line. An interesting conductor since blue quartz stringers occur at line 7W and 820 meters north of base line.

(ii) Zone at line 1W, 910 meters north of base line. At this location is a large quartz vein (unable to determine width due to overburden). Associated with this vein is pyrite and chalcopyrite sulphides.

(iii) Zone between lines 5E - 8E at 900 meters north of base line is probably due to a shear zone. At line 8E, 920 meters north of base line, a quartz vein occurs within the shear.

Conductor C

Possibly a long weak shear zone paralleling conductor B. An interesting moderately strong conductor occurs within this long structure between lines 2W - 4W at 750 meters north of base line. An interesting shaped anomaly and no apparent cause. Worthy of additional prospecting.

Conductor D

Possibly a wet shear zone beneath Jumping lake occurring between lines 2E - 5E at 340 meters north of base line. May be of interest if other shear zones within claim group contain mineralization of interest.

Conductor E

A very weak conductor south of Jumping Lake, located at 5E and 150 meters north of base line, contains rocks exhibiting shearing. Cause of conductor may be shearing.

Conductor F

Strongest conductor on the property. Location at 4W and 210 meters south of base line contains semi-massive sulphides of pyrite within a sheared Trondhjemite intrusive, minor amounts of chalcopyrite and pyrrhotite. Worthy of additional work along entire conductor.

Conductor G

A moderately strong conductor immediately south of Conductor F. Exhibits cross cutting features and minor folding. Strikes south-east off of claims into a small lake. Should be prospected.

THE RESULTS OF THE MAGNETIC SURVEY ARE SHOWN ON MAP 3

ACCOMPANYING THIS REPORT

The area south and south-west of Jumping Lake exhibits discontinuous east-north-east magnetic anomalies. The area north of Jumping Lake lacks magnetic responses with the exception of several weak magnetic anomalies at the south boundary of claim PA 612177. This would indicate a different rock type for these two areas.

The sulphides associated with Conductor F exhibits a moderately strong magnetic response.

Conductor E has an associated magnetic response.

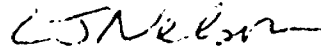
The remaining EM-16 conductors have no magnetic highs associated with them. This would indicate that these conductors are due to shearing and would prove interesting in prospecting for gold.

RECOMMENDATIONS

(1) A systematic soil geochem program be performed on the grid with particular attention being paid to the sulphide and quartz showings as outlined in this report.

(2) Clearing and blasting Conductor F where semi-massive pyrite has been found.

(3) If the geochem is interesting, a drill program with short holes should be initiated to explain some of the conductors outlined in this report.



Respectfully submitted by:
Lloyd J. Nelson - B. Sc.
Loydex Resources Inc.
May 5, 1983



GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

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) Geological & Geochemical
Township or Area Four Bay Lake Area
Claim Holder(s) Loydex Resources Inc.
Whitby, Ontario
Survey Company Derry, Michener, Booth & Wahl
Author of Report R. E. Routledge
Address of Author Suite 2302-401 Bay St., Toronto
Covering Dates of Survey July 15 - Oct 31, 1983
(linecutting to office)
Total Miles of Line Cut -

MINING CLAIMS TRAVERSED
List numerically

PA	612189
PA (prefix)	(number)
PA	612190
PA	612191
PA	612192
PA	612169
PA	612170
PA	612171
PA	612172
PA	612173
PA	612174
PA	612175
PA	612176
PA	612177
PA	612178
PA	611671
TOTAL CLAIMS <u>15</u>	

If space insufficient, attach list

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>	Geophysical	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	-Electromagnetic _____	
	-Magnetometer _____	
	-Radiometric _____	
ENTER 20 days for each additional survey using same grid.	-Other <u>See attached list.</u>	
	Geological <u>20</u>	
	<u>TRAVELLING</u> + Geochemical <u>20.37</u>	

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

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

DATE: Nov 25, 83 SIGNATURE: R. E. Routledge
Author of Report or Agent

Res. Geol. _____ Qualifications 2.2207

Previous Surveys

File No.	Type	Date	Claim Holder

DUPLICATE USE ONLY

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken PA 611671, PA 612170, PA 612171, PA 612172
PA 612176, PA 612177, PA 612178, PA 612189, PA 612191, PA 612192

83 soil samples, 63 humus samples
11 chip samples, 6 bulk samples
Total Number of Samples 43 rock grab samples

Type of Sample _____
(Nature of Material)

Average Sample Weight 50 gm - 30 kg

Method of Collection hand, blasting

Soil Horizon Sampled B

Horizon Development Ao, B

Sample Depth to 1m

Terrain varied

Drainage Development Poor - Fair

Estimated Range of Overburden Thickness Up to
10 m

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

Humus = briquetting

Soil & Rock = 80 mesh

General _____

ANALYTICAL METHODS

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

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

Others Au (ppb); Sb (ppm)

Field Analysis (N/A tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (N/A tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory TSL (see below)

Extraction Method Acid Extraction

Analytical Method EA/AA, Neutron Activation

Reagents Used HCL, H₂O₂

General _____

Technical Service Laboratories

1301 Fewster Drive

Mississauga, Ontario

L4W 1A2

SPECIAL PROVISIONS CREDITS REQUESTED

- Other

20 days each for rechaining on the following claims:

PA 612189

PA 612190

PA 612191

PA 612170

PA 612171

PA 612174

PA 612175

PA 612176

PA 612178

Type of Survey(s) **Geological and Geochemical Sampling** Township or Area **Four Bay Lake Area M-2879**
 Claim Holder(s) **Loydex Resources Inc.** Prospector's Licence No. **T1293**
 Address **24 Kenton Court, Whitby, Ontario L1N 5X7**
 Survey Company **Dejour Mines Limited** Date of Survey (from & to) **15 07 83 25 08 83** Total Miles of line Cut **10 km**
 Name and Address of Author (of Geo-Technical report) **R.E. Routledge/P.Hartwick, Suite 2302, 401 Bay Street, Toronto, Ontario M5H 2Y4**

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
	Geological	20
	Geochemical	

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	9.7
	Geological	
	Geochemical	

Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	- Electromagnetic	
	- Magnetometer	
	- Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.
Prefix	Number	
PA	612169	21.5
	612170	21.5
	612171	21.5
	612172	21.5
	612173	21.5
	612174	21.5
	612175	21.5
	612176	21.5
	612177	21.5
	612178	21.5
	612189	21.5
	612190	21.5
	612191	21.5
	612192	21.5
	611671	21.5

1st Rec'd Nov. 17/83

PATRICIA-MINING DIV.
RECEIVED
 JAN 19 1984
 A.M. P.M.
 7 8 9 10 11 12 1 2 3 4 5 6

See recorded statement

Expenditures (excludes power stripping)

Type of Work Performed **Section 77-19**
Rock, Soil, Humus, Analyses

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures	+	Total Days Credits
\$ 4,842.38		15 = 322.8

Instructions
 Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. **15**

Pa. 611671

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Report
768.3	Jan. 19, 1984	<i>[Signature]</i>
Date Approved as Recorded	Branch Director	

Date **Jan. 9, 1984** Recorded Holder or Agent (Signature) *[Signature]*

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying
R.E. Routledge, 2302 - 401 Bay Street
Toronto, Ontario M5H 2Y4

Date Certified **Jan. 9, 1984** Certified by (Signature) *[Signature]*

Assessment Work Breakdown

83-124

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey						
Geochemical Sampling						
Technical Days		Technical Days Credits	Line-cutting Days	Total Credits	No. of Claims	Days per Claim
7	X	49	6	54	15	3.6

Type of Survey						
Technical Days		Technical Days Credits	Line-cutting Days	Total Credits	No. of Claims	Days per Claim
	X					

Type of Survey						
Supervision, Engineering Sampling						
Technical Days		Technical Days Credits	Line-cutting Days	Total Credits	No. of Claims	Days per Claim
13	X	91	-	91	15	6.1

Type of Survey						
Technical Days		Technical Days Credits	Line-cutting Days	Total Credits	No. of Claims	Days per Claim
	X					



Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

The Mining Act

Type of Survey(s) <i>GEOLOGICAL, GEOCHEMICAL, TRACING</i>	Township or Area <i>FOUR BAY LAKE AREA</i>
Claim Holder(s) <i>LOYDEX RESOURCES INC.</i>	Prospector's Licence No. <i>71293</i>
Address <i>24 KENTON CRT. WHITBY ONTARIO L1N 5X7</i>	
Survey Company <i>DEJOUR MINES LIMITED</i>	Date of Survey (from & to) 15 07 83 25 08 83 Day Mo. Yr. Day Mo. Yr.
Name and Address of Author (of Geo-Technical Report) <i>R. E. ROUTLEDGE / P. HARTWICK SUITE 2302-401 BAY ST TORONTO M5H2Y4</i>	

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	<i>DRAWING PICKETS</i>	<i>20</i>
	<i>9 CLAIMS</i>	<i>20</i>
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Geological	
	Geochemical	
	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
PA	612189	77.6			
	612190	77.6			
	612191	77.6			
	612192	57.6			
	612169	57.6			
	612170	77.6			
	612171	77.6			
	612172	57.6			
	612173	57.6			
	612174	77.6			
	612175	77.6			
	612176	77.6			
	612177	57.6			
	612178	77.6			
	611671	57.6			

RECEIVED

NOV 10 1983

MINING LANDS SECTION

Total number of mining claims covered by this report of work.

15

Expenditures (excludes power stripping)

Type of Work Performed
GEOCHEMICAL SAMPLING - STRIPPING - TRACING

Performed on Claim(s)
-

Calculation of Expenditure Days Credits

Total Expenditures *Analyses*: \$ *4842.38* + 15 = 322.8

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right. *37.6 days/claims*

Date: *NOV 10, 1983* Recorded Holder or Agent (Signature): *[Signature]*

For Office Use Only

Total Days Cr. Recorded: _____ Date Recorded: _____ Mining Recorder: _____

Date Approved as Recorded: _____ Branch Director: _____

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

Name and Postal Address of Person Certifying
I. S. THOMPSON PENG. SUITE 2302-401 BAY ST TORONTO M5H 2Y4

Date Certified: *NOV 10, 1983* Certified by (Signature): *[Signature]*

Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey <i>GEOCHEMICAL SAMPLING, STRIPPING, BLASTING, TRENCHING.</i>												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	+	No. of Claims	=	Days per Claim
<input type="text" value="34"/>		<input type="text" value="7"/>		<input type="text" value="238"/>		<input type="text" value="—"/>		<input type="text" value="238"/>		<input type="text" value="15"/>		<input type="text" value="15.9"/>

Type of Survey												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	+	No. of Claims	=	Days per Claim
<input type="text"/>		<input type="text" value="7"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>

Type of Survey												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	+	No. of Claims	=	Days per Claim
<input type="text"/>		<input type="text" value="7"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>

Type of Survey												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	+	No. of Claims	=	Days per Claim
<input type="text"/>		<input type="text" value="7"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>



Recorded Holder
LOYDEX RESOURCES INC

Township or Area
FOUR BAY LAKE AREA

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 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.	\$4842.38 spent on assaying samples taken from Mining Claims: PA 612169-171-172-174-175-176-177-178 189-191-192 and PA 611671. \$322.83 days credit allowed which may be grouped in accordance with Section 77(19).

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;
828 (83/6)



Ontario

Ministry of Natural Resources

Technical Assessment Work Credits

File 2.6075

Date 1984 05 31

Mining Recorder's Report of Work No. 83-124

Recorded Holder: LOYDEX RESOURCES INC

Township or Area: FOUR BAY LAKE AREA

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 Section 77 (19) See "Mining Claims Assessed" column Geological _____ 13 _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input checked="" 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.	PA 612169 to 178 inclusive 612189 to 192 inclusive 611671

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;



Ontario

Ministry of
Natural
Resources

Technical Assessment Work Credits

File 2.6075

Date
1984 05 31

Mining Recorder's Report of
Work No. 83-124

Recorded Holder	LOYDEX RESOURCES INC
Township or Area	FOUR BAY LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ days	PA 612169
Magnetometer _____ days	612171 - 172
Radiometric _____ days	612174
Induced polarization _____ days	612176 to 178 inclusive
Geochemical Sampling	612189
Other _____ 13 _____ days	612191 - 192
	611671
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
Man days <input checked="" type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/>	
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	
<input checked="" 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

<input checked="" type="checkbox"/> not sufficiently covered by the survey	<input type="checkbox"/> Insufficient technical data filed
PA 612170	
612173	
612175	
612190	

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;



Mining Lands Comments

- geology map should be coloured

To: ~~Geophysics~~ Mr. R. Barton

Comments

Approved Wish to see again with corrections Date Signature

To: Geology - Expenditures Mr. C. Kustra

Comments

Approved Wish to see again with corrections Date Feb 29 / 84 Signature Kustra

To: Geochemistry DR. FORTESLUE

Comments

L-1
L-2

Approved Wish to see again with corrections Date Signature

To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

M. Anderson Jan. 31, 84

Assessed

Approved Reports of Work
sent out

Notice of Intent filed

Approval after Notice of Intent
sent out

Duplicate sent to Resident
Geologist

Duplicate sent to A.F.R.O.

DEJOUR MINES LIMITED

SUITE 2302
SIMPSON TOWER, P.O. BOX 89
401 BAY STREET
TORONTO, CANADA M5H 2Y4
TELEPHONE (416) 368-4838
TELEX 06-23888

November 10, 1983

Mr. Matthews
Mining Lands Section
Mining Recorder
Room 1617 Whitney Block
Queen's Park, Toronto
M7A 1W3

Dear Mr. Matthews:

Enclosed are two copies of the report entitled "Report on the Electromagnetic and Magnetic Survey on the Property of Loydex Resources Inc., Fourbay Lake Area" and the accompanying Report of Work forms which we are submitting for assessment credit. In addition, a Report of Work Form covering a geologic survey, geochemical sampling and trenching performed on the same claims is enclosed.

A report on this exploration will follow.

Yours very truly,

DEJOUR MINES LIMITED



R. E. Routledge

RER/h
Encls.

RECEIVED
NOV 10 1983
MINING LANDS SECTION

DEJOUR MINES LIMITED

SUITE 2302
SIMPSON TOWER, P.O. BOX 89
401 BAY STREET
TORONTO, CANADA M5H 2Y4
TELEPHONE (416) 368-4838
TELEX 08-23888

November 28, 1983

REGISTERED

Mr. Matthews
Mining Lands Section
Mining Recorder
Room 1617 Whitney Block
Queen's Park Toronto,
M7A 1W3

RECEIVED

1983

MINING RECORDERS

Dear Sir:

Enclosed are two (2) copies of our report entitled "Report on Loydex Resources Inc. Jumping Lake Property, Sturgeon Lake, Ontario, Prepared by Dejour Mines Limited", which Dejour Mines are submitting for assessment credits for the Loydex Resources Inc. 15 claim group property in the Fourbay Lake area as per our option agreement with Loydex. Report of Work Forms and cost statements, along with a report describing geophysical surveys completed by Loydex, were filed previously on the anniversary date of the claims.

Yours very truly,



R. E. Routledge

RER/h
Encls.

1983 12 05

2.6075

Mr. Albert Hanson
Mining Recorder
Ministry of Natural Resources
P.O. Box 669
Sioux Lookout, Ontario
POV 2T0

Dear Sir:

We have received reports and maps for a Geochemical, Geological and Data for Assaying survey submitted on mining claims PA 612169 et al in the Area of Four Bay Lake.

This material will be examined and assessed and a statement of assessment work credits will be issued.

We do not have a copy of the report of work which is normally filed with you prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-1380

A. Barr:mc

cc: Loydex Resources Inc
24 Kenton Court
Whitby, Ontario
L1N 5X7

cc: Dejour Mines Limited
Suite 2302
403 Bay Street
Toronto, Ontario
M5H 2Y4

DEJOUR MINES LIMITED

SUITE 2302
SIMPSON TOWER, P.O. BOX 88
401 BAY STREET
TORONTO, CANADA M5H 2Y4
TELEPHONE (416) 368-4838
TELEX 08-23888

December 13, 1983

Mr. E.F. Anderson
Director - Land Management Branch
Whitney Block, Room 6643
Queen's Park
Toronto, Ontario M7A 1W3

Dear Sir:

Re: Claims PA-612169 et al
Sioux Lookout Area, Ontario

We received a copy of your letter dated December 5th, 1983 (File #2.6075) to Mr. Albert Hansen, Mining Recorder, Sioux Lookout, concerning a Report of Work submission for assessment work performed on claims PA-612169 et al held by Loydex Resources Inc. of Whitby, Ontario. Dejour Mines Limited submitted a Report of Work to a Mr. Matthews of your Toronto office on November 11th, 1983. Your branch subsequently informed us by telephone during the following week that they were forwarding the Report of Work forms to Sioux Lookout. Apparently a copy was not retained by your office and in response to your letter, I am enclosing an additional copy for your office's use.

Yours very truly,

DEJOUR MINES LIMITED



R.E. Routledge

RER:smm
Enclosure

RECEIVED	
Land Management Branch	
COMMUNICATES	<input checked="" type="checkbox"/>
COMMUNICATES PLEASE	<input type="checkbox"/>
DEC 16 1983	

RECEIVED

DEC 19 1983

MINING LANDS SECTION



Ministry of
Natural
Resources

June 15/84

Your file: 83-124

Our file: 2.6075

1984 05 31

Mr. Albert Hanson
Mining Recorder
Ministry of Natural Resources
P.O. Box 669
Sioux Lookout, Ontario
POV 2T0

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. F.W. Matthews at 416/965-6918.

Yours very truly,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

RJ S. Hurst:mc

Encls.

cc: Loydex Resources Inc
24 Kenton Court
Whitby, Ontario
L1N 5X7

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



Ministry of
Natural
Resources

Ontario

Notice of Intent
for Technical Reports

1984 05 31

2.6075/83-124

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



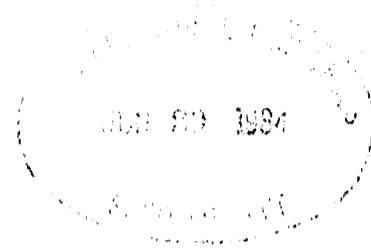
Ministry of
Natural
Resources

52 J/02 SW (58)

1984 06 26

Your File: 83-124
Our File: 2.6075

Mr. Albert Hanson
Mining Recorder
Ministry of Natural Resources
P.O. Box 669
Sioux Lookout, Ontario
POV 2T0



Dear Sir:

RE: Notice of Intent dated May 31, 1984
Geochemical, Geological and Data for
Assaying Survey on Mining Claims
PA 612169 et al in the Area of Four
Bay Lake

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,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416) 965-4888

p S. Hurst:mc

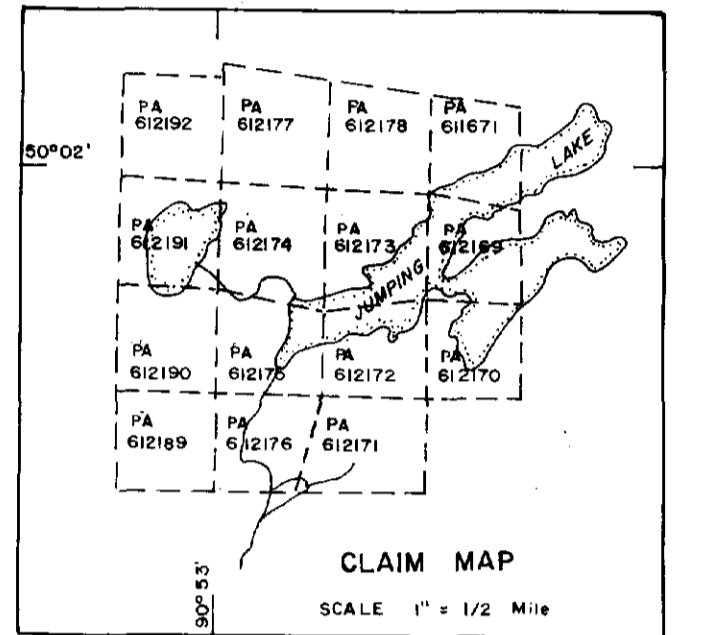
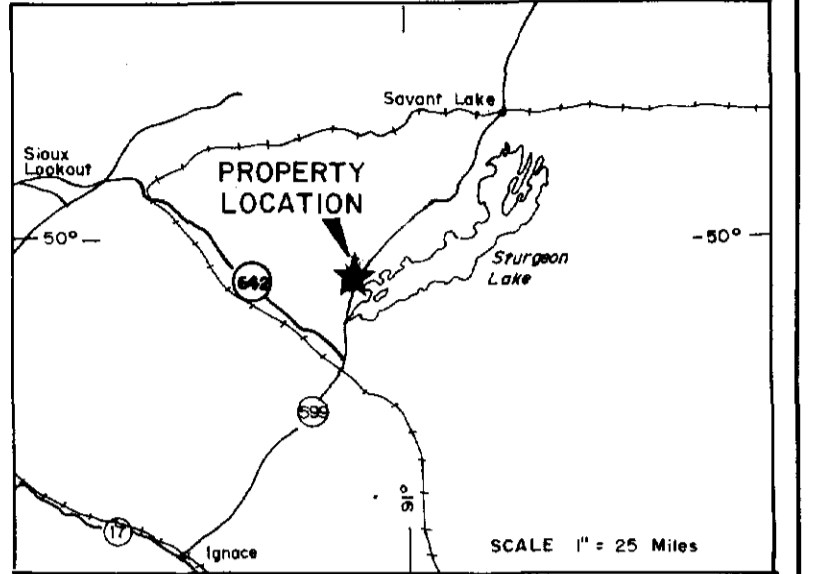
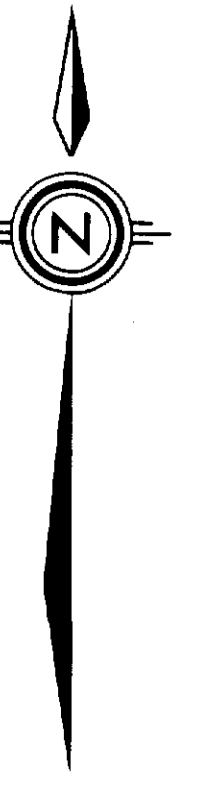
cc: Loydex Resources Inc
24 Kenton Court
Whitby, Ontario
L1N 5X7

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

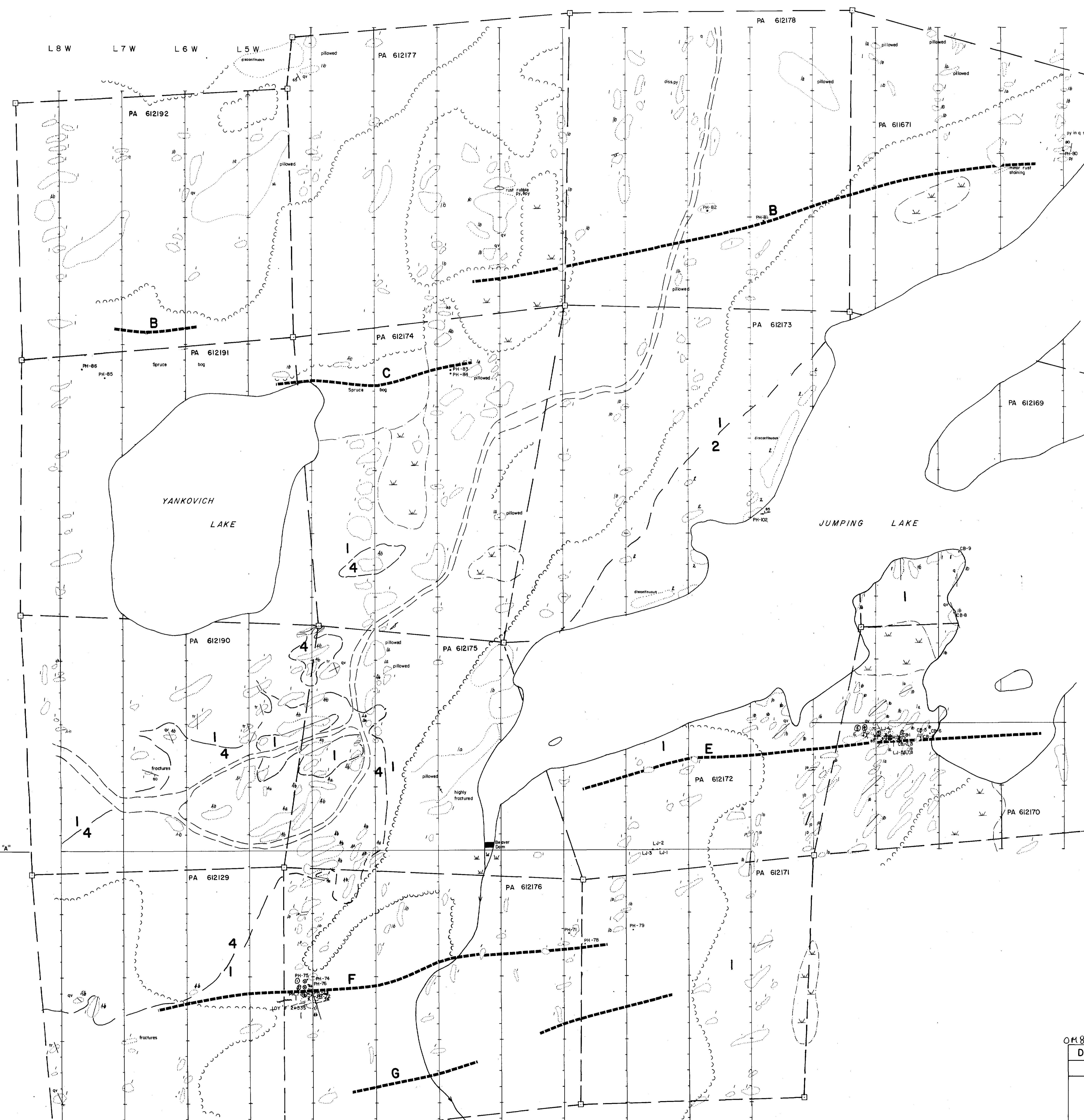
cc: ✓ Resident Geologist
Sioux Lookout, Ontario

Encl.

L4 W L3 W L2 W L1 W L0 L1 E L2 E L3 E L4 E L5 E L6 E L7 E L8 E



12+00 N
11+00 N
10+00 N
9+00 N
8+00 N
7+00 N
6+00 N
5+00 N
4+00 N
3+00 N
2+00 N
1+00 N
BASELINE "A"
1+00 S
2+00 S
3+00 S
4+00 S

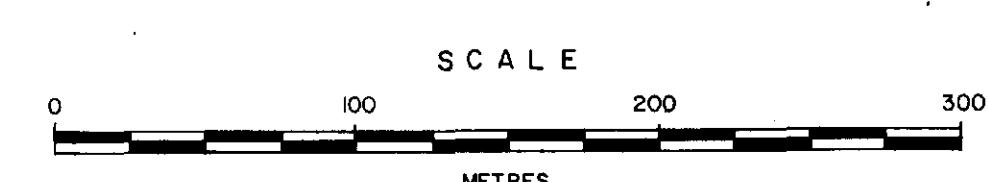


LEGEND

- 4 □ a Gabbro
b Trondhjemite (Granophyre)
 - 3 □ Interflow metasedimentary rocks
a thinly laminated chert
b arkosic wacke to quartzite
 - 2 □ Dacite
a dacitic to rhyodacitic tuff
 - 1 □ Mafic metavolcanic rock
a pillowed
b fine to medium grained massive flow or subvolcanic intrusive
c flow breccia
d sheared phyllitic to chlorite schist
e siliceous to intermediate
- SYMBOLS**
- , × Outcrop; Large, Small (E/m²)
 - / — Lithologic / flow contact; observed, inferred
 - ↗, ↘ Strike and Dip, bedding or flow contact, foliation
 - Shearing or fault
 - ⊗ Trench, blast pit and number
 - qtz, qv Quartz, quartz vein
 - cpy Chalcopyrite
 - py Pyrite
 - VLF-EM conductor axis (interpreted bedrock source)
 - Rock grab sample site and number

Boundary of forestation
Swamp

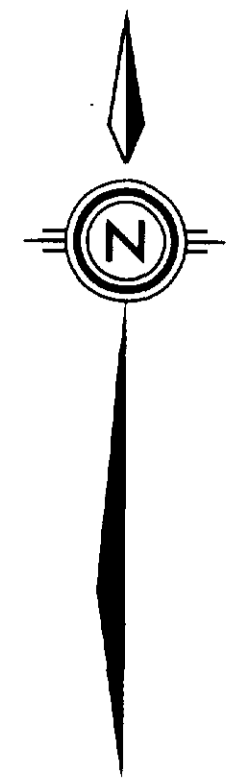
NOTE: for trench, pit and rock geochemical sample analyses see table and Appendix A.



2-6075
OM83-2-C-101 NTS. 52 J 2 SW
DERRY, MICHENER, BOOTH & WAHL
DEJOUR MINES LTD.
LOYDEX OPTION - JUMPING LAKE
GEOLOGIC COMPILATION



L4 W L3 W L2 W L1 W L0 L1 E L2 E L3 E L4 E L5 E L6 E L7 E L8 E



L8 W L7 W L6 W L5 W

12+00 N

11+00 N

10+00 N

9+00 N

8+00 N

7+00 N

6+00 N

5+00 N

4+00 N

3+00 N

2+00 N

1+00 N

BASELINE "A"

1+00 S

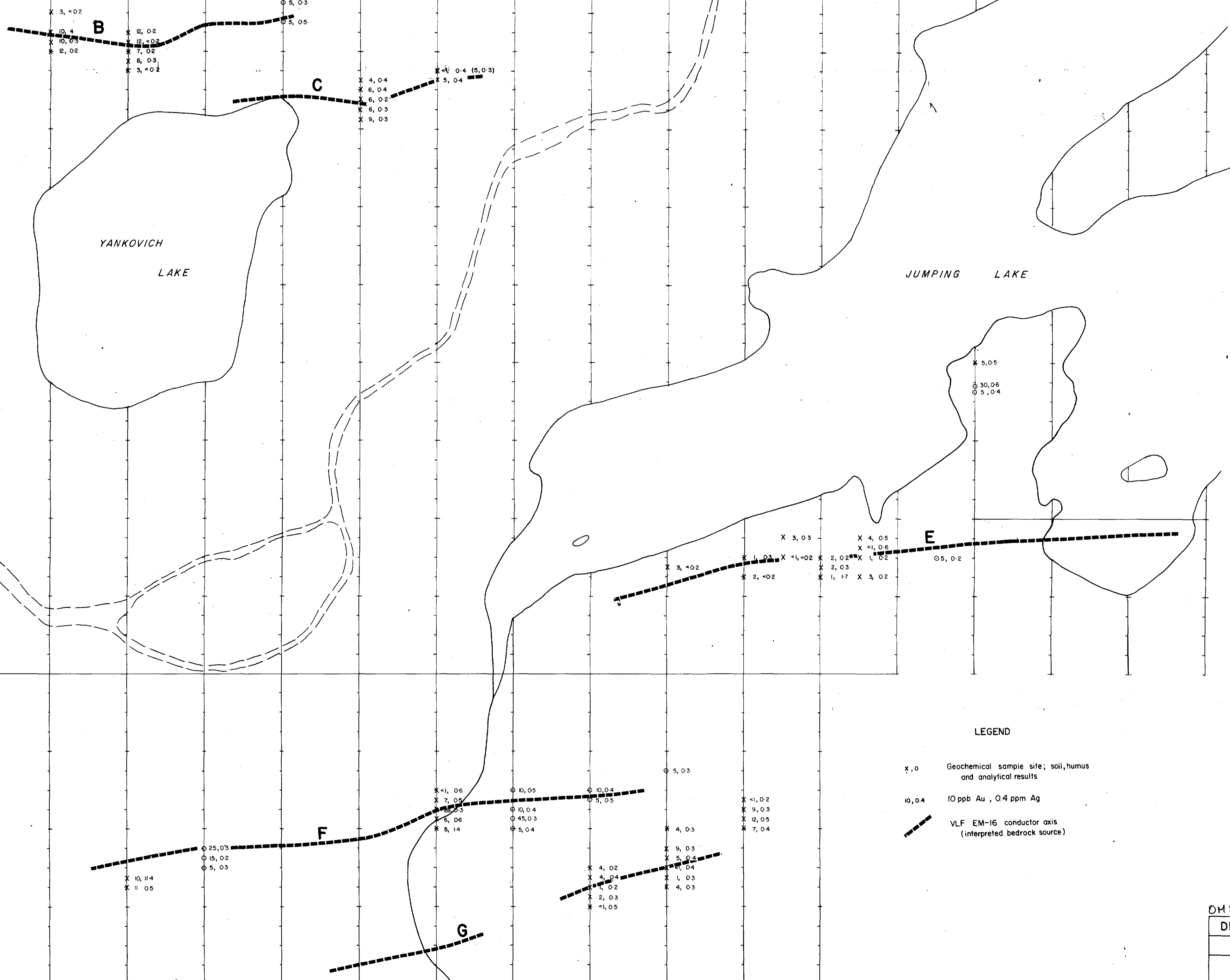
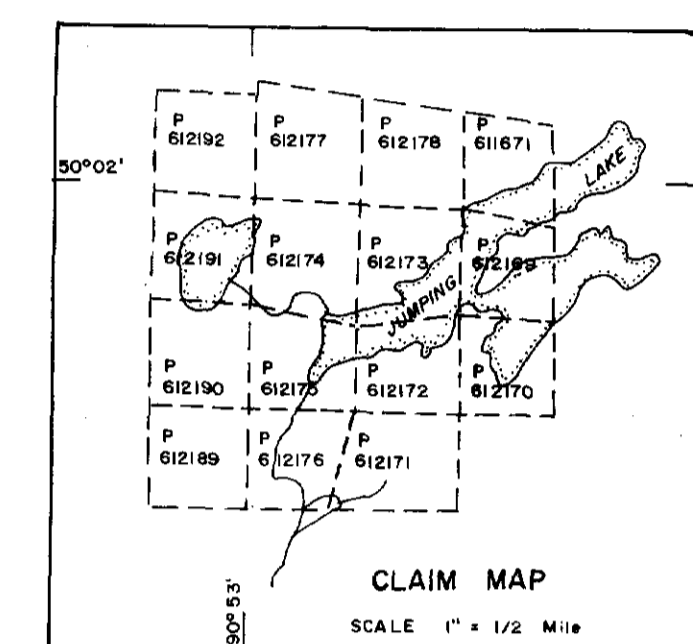
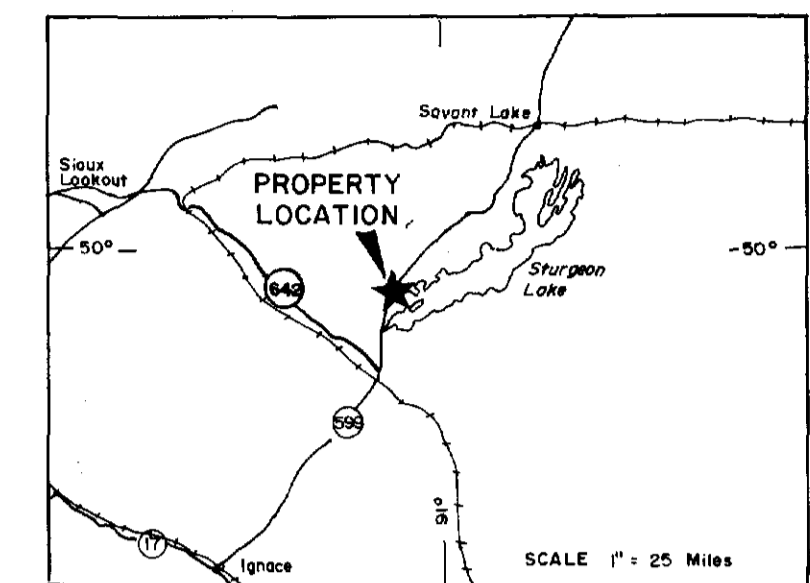
2+00 S

3+00 S

4+00 S

YANKOVICH LAKE

JUMPING LAKE



LEGEND

- X, 0 Geochemical sample site; soil, humus and analytical results
- 10, 0, 4 10ppb Au, 0.4 ppm Ag
- VLF EM-16 conductor axis (interpreted bedrock source)

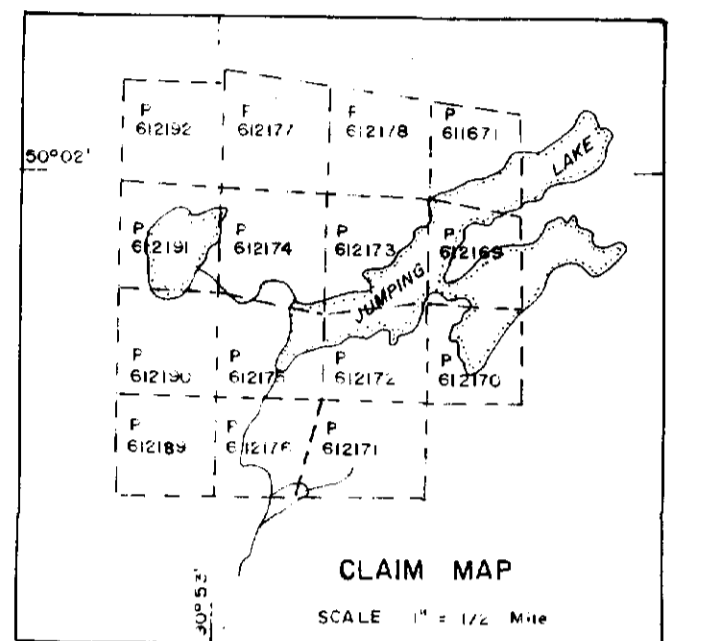
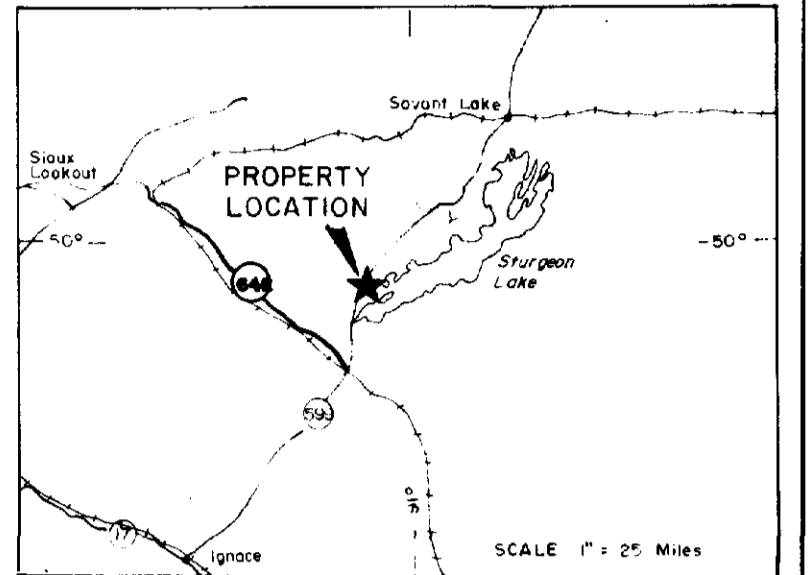
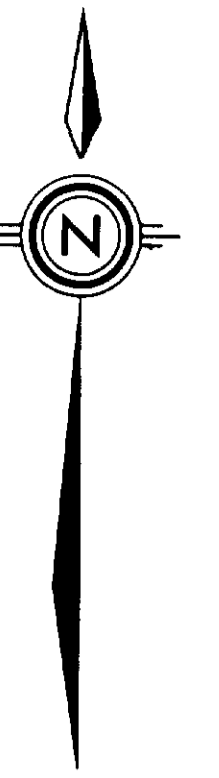


OH83-2-C-101 2-6075
 NTS 52 J 2 SW
 DERRY, MICHENER, BOOTH & WAHL
 DEJOUR MINES LTD.
 LOYDEX OPTION - JUMPING LAKE
 GEOCHEMICAL HUMUS AND
 SOIL SAMPLING
 Gold and Silver

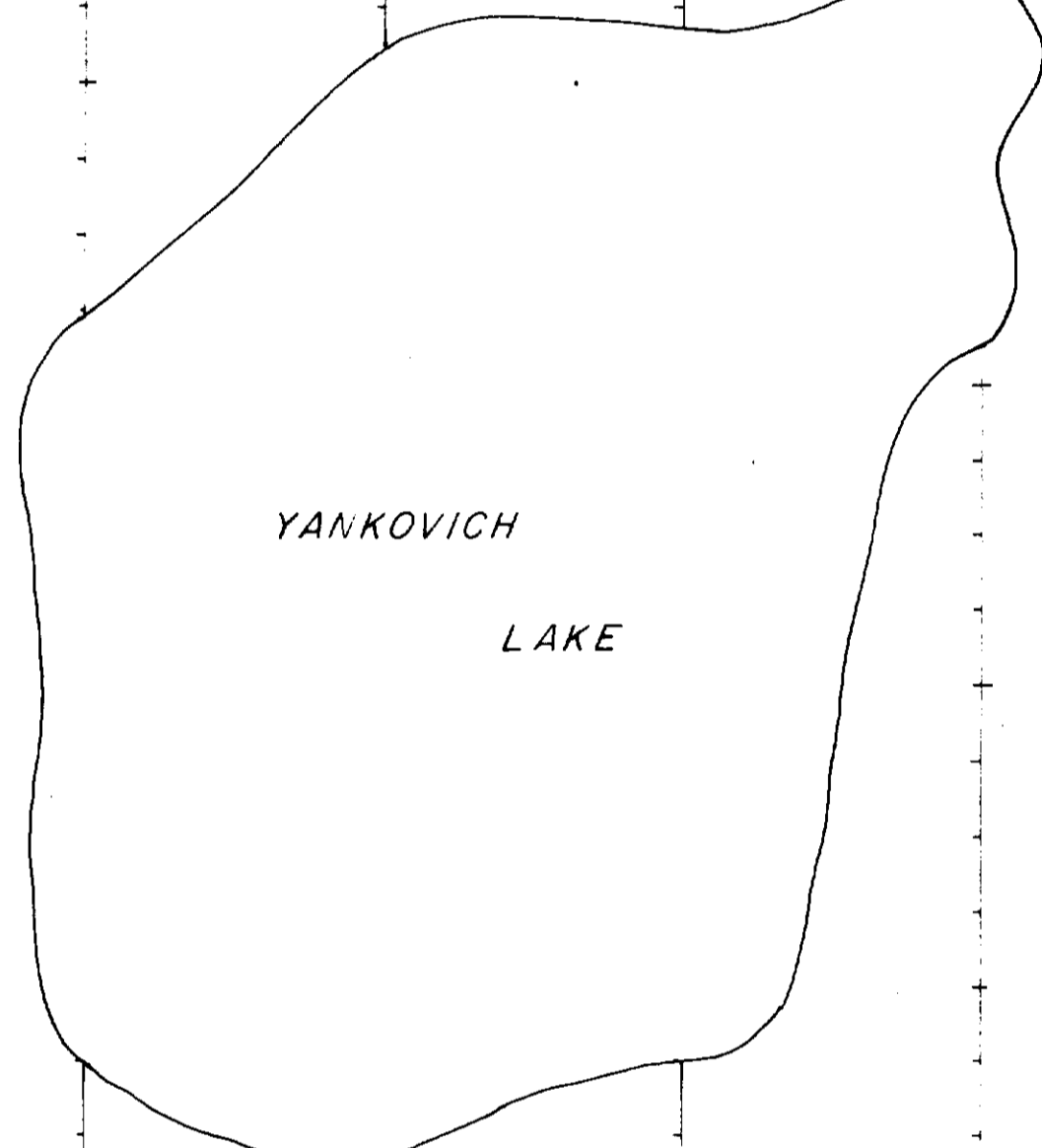


L4W L3W L2W LIW LO L1E L2E L3E L4E L5E L6E L7E L8E

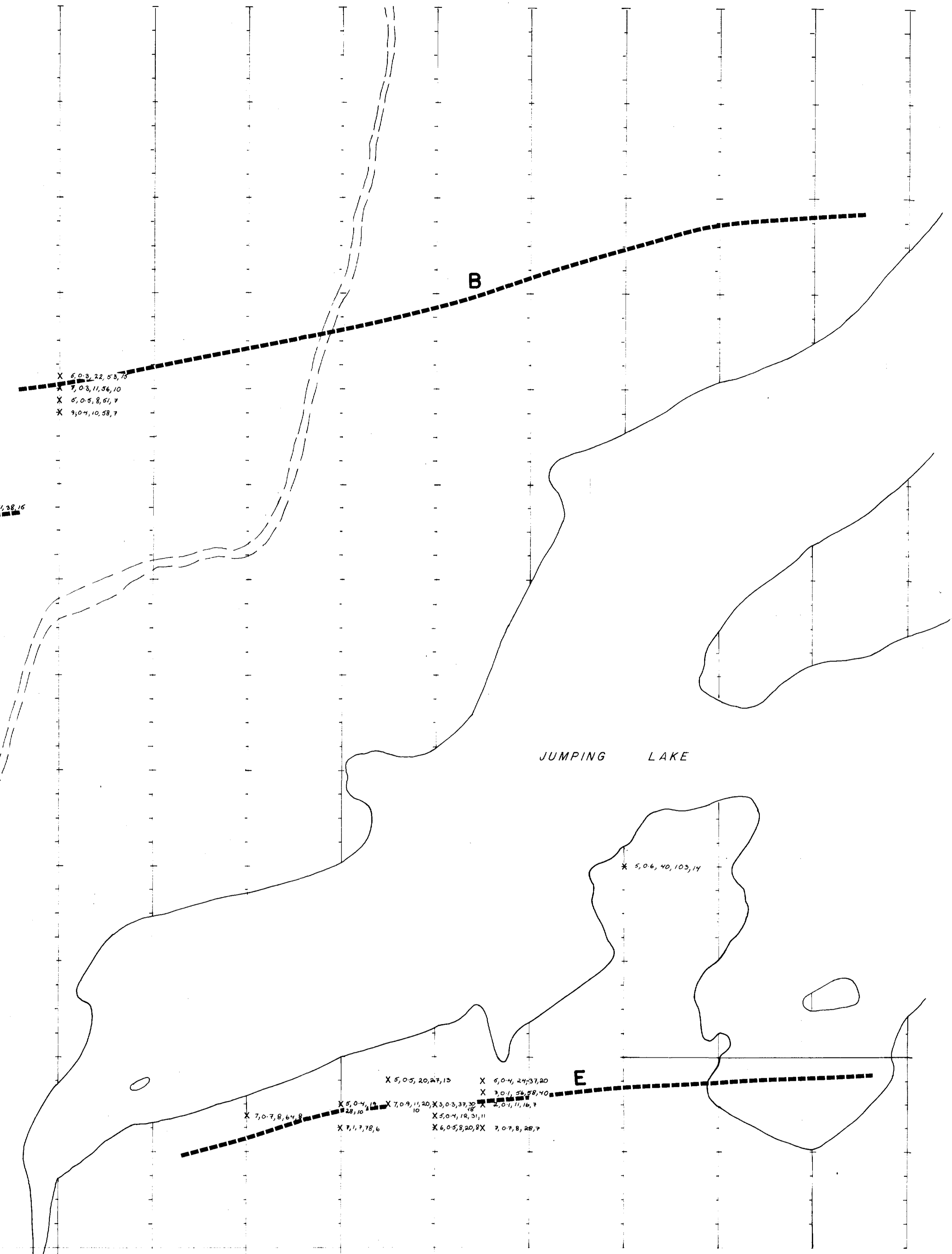
L8W L7W L6W L5W



12+00 N
11+00 N
10+00 N
9+00 N
8+00 N
7+00 N
6+00 N
5+00 N
4+00 N
3+00 N
2+00 N
1+00 N
BASELINE "A"
1+00 S
2+00 S
3+00 S
4+00 S



YANKOVICH LAKE



JUMPING LAKE

BASELINE "B"

X 7,09,8,36,5
X 5,05,3,17,3
X 4,04,4,30,1
X 1,02,6,18,7

B

X 5,04,7,36,6
X 3,03,6,13,4
X 7,04,6,46,7
X 7,07,6,21,6
X 7,08,6,40,3

C

X 4,02,13,43,14
X 6,05,10,42,11
X 4,03,8,24,10
X 4,05,5,24,9
X 11,04,8,20,6

X 4,04,11,38,16

X 6,03,22,03,7
X 7,03,11,36,10
X 6,05,8,51,7
X 1,01,10,58,7

B

X 5,05,20,21,15
X 5,04,24,37,20
X 3,01,59,59,10
X 5,04,15,11,10
X 5,04,11,12,9
X 7,07,8,64,8
X 7,1,7,78,6
X 6,05,8,20,8X
X 7,07,8,28,7

E

X 4,05,5,30,7
X 4,04,7,37,10

F

X 3,02,17,30,14
X 4,04,28,30,17
X 7,05,7,63,6
X 5,04,6,40,7
X 7,08,6,60,8

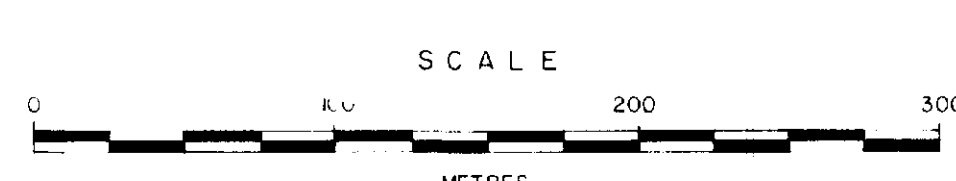
G

X 5,05,5,40,8
X 1,02,13,15,8
X 1,03,10,10,7
X 8,08,7,47,9
X 2,01,20,24,20

X 5,05,5,33,7
X 5,04,7,44,7
X 5,04,11,120,9
X 3,03,4,44,11
X 5,04,3,12,7
X 5,04,2,20,7
X 3,01,7,25,10
X 3,01,3,18,7
X 8,04,4,58,7

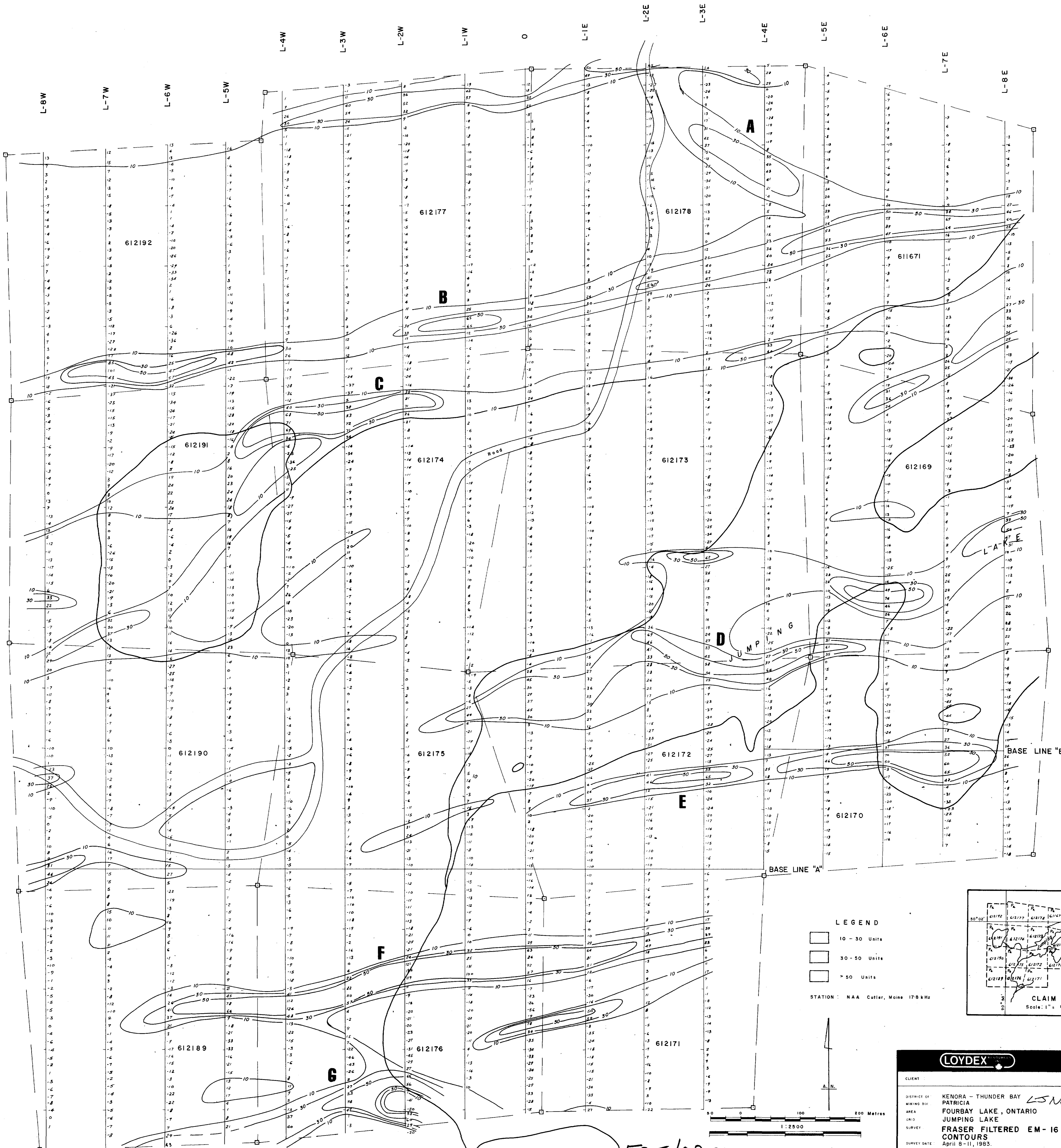
LEGEND

- x,0 Geochemical sample site; soil, humus and analytical results
- 5,0,5,4,34,1 5ppm As, 0.5ppm Sb, 4ppm Au, 34ppm Zn, 1 ppm Ni
- VLF EM-16 conductor axis (interpreted bedrock source)



2.6075
OH 83-2-C-101 NTS 52 J 2 SW
DERRY, MICHENER, BOOTH & WAHL
DEJOUR MINES LTD.
LOYDEX OPTION - JUMPING LAKE
GEOCHEMICAL HUMUS AND
SOIL SAMPLING
Arsenic, Antimony, Copper, Zinc, Nickel
Date: Nov., 1983 By: R. Routledge Map No: 3

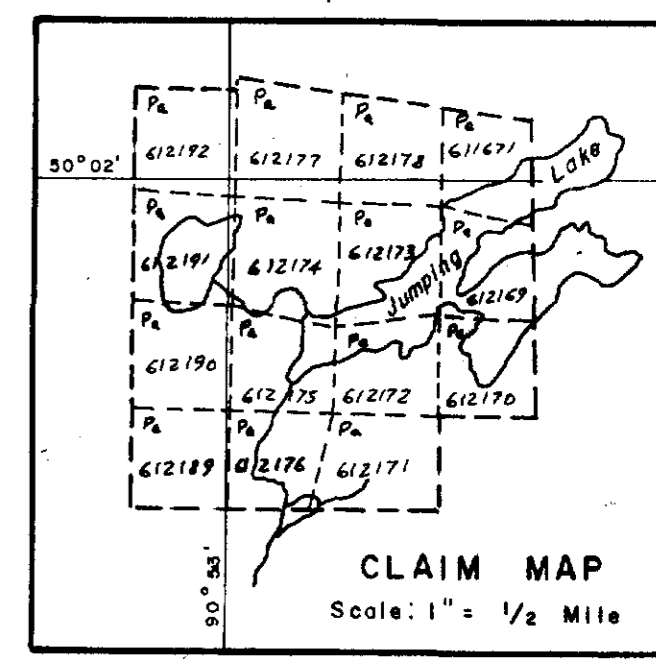




LEGEND

- 10 - 30 Units
- 30 - 50 Units
- > 50 Units

STATION : NAA Cutler, Moine 17.8 kHz



LOYDEX

CLIENT :

DISTRICT OF MINING DIV. : KENORA - THUNDER BAY *LS Nelson*

AREA : PATRICIA

GRID : FOURBAY LAKE, ONTARIO

SURVEY : JUMPING LAKE

SURVEY DATE : FRASER FILTERED EM - 16

SURVEY BY : CONTOURS

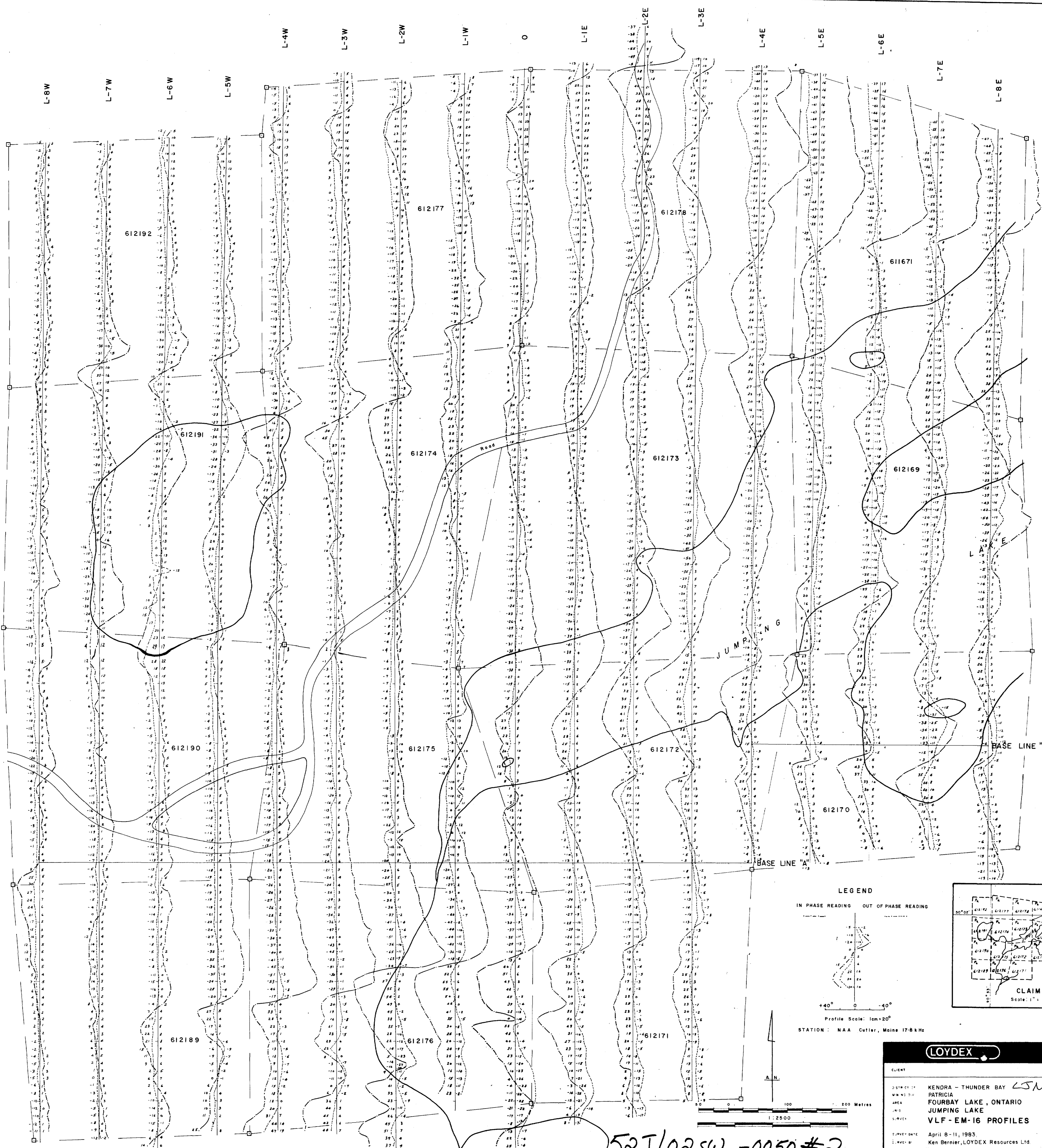
APRIL 8-11, 1993.

Ken Bernier, LOYDEX Resources Ltd.

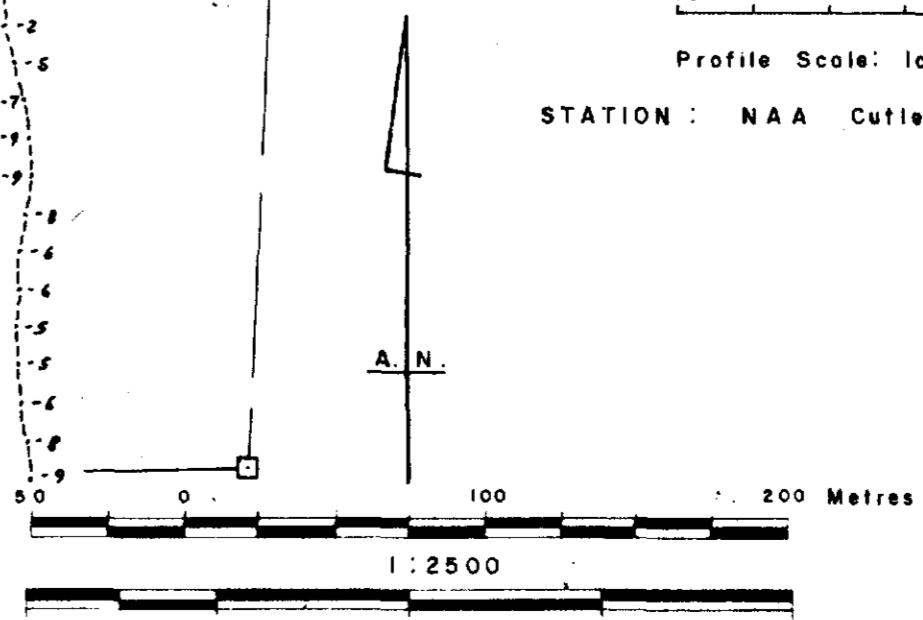
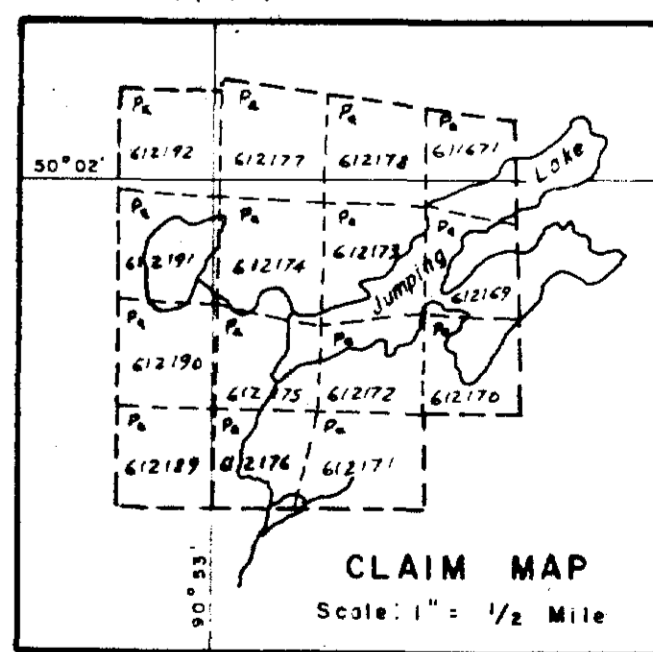
NTS 52/J/2 CLAIM MAP M 2879 MAP No. /

52J/02 SW-0050 #1





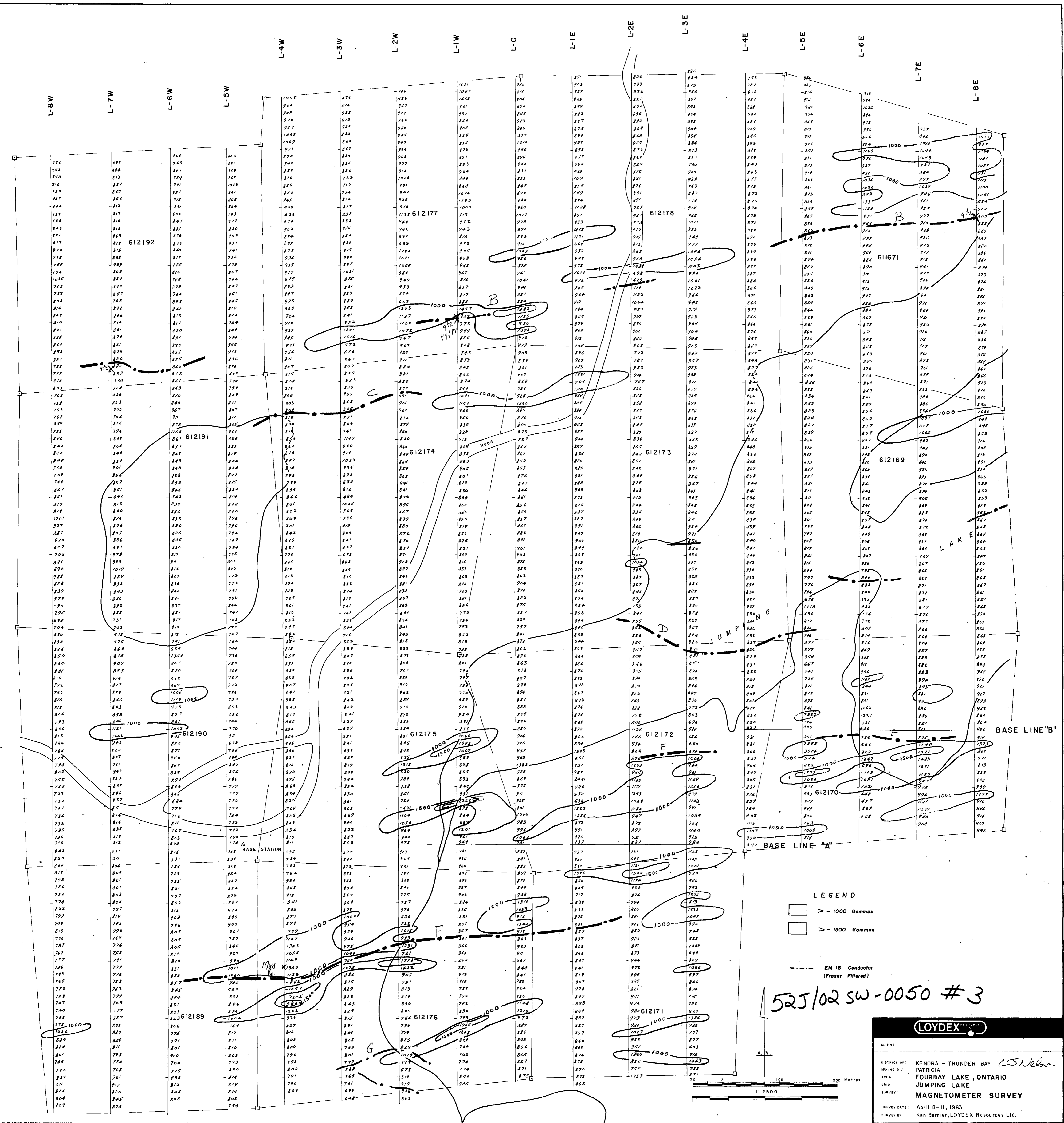
LEGEND
 IN PHASE READING OUT OF PHASE READING
 +40° 0 -40°
 Profile Scale: 1cm = 20°
 STATION: NAA Cutler, Maine 17.8 kHz



LOYDEX	
CLIENT	KENDRA - THUNDER BAY <i>LS Nelson</i>
35° 01' 01"	PATRICIA
W 10° 01' 01"	FOURBAY LAKE, ONTARIO
AREA	JUMPING LAKE
GRID	VLF - EM-16 PROFILES
SURVEY	
SURVEY DATE	April 8-11, 1993
REVIEW BY	Ken Bernier, LOYDEX Resources Ltd.
NTS 52/J/2	C.L.A.M. MAP M 2879
	MAP NO 2

52J/02SW -0050 #2





52J/02 SW-0050 #3

LEGEND
 □ > 1000 Gammas
 □ > 1500 Gammas
 --- EM 16 Conductor (Fraser Filtered)

1:2500
 0 100 200 Metres

LOYDEX

CLIENT: KENORA - THUNDER BAY *LS Nelson*
 DISTRICT OF MINING DIV: PATRICIA
 AREA: FOURBAY LAKE, ONTARIO
 GRID: JUMPING LAKE
 SURVEY: MAGNETOMETER SURVEY
 SURVEY DATE: April 8-11, 1983.
 SURVEY BY: Ken Bernier, LOYDEX Resources Ltd.
 NTR 52/J/2 CLAIM MAP M 2879 MAP NO. 3

