



41P12SW0037 63.4897 CHESTER

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GEOLOGICAL REPORT
ON
TYSTAR PROPERTY
CHESTER TOWNSHIP, ONTARIO

PREPARED FOR THE BOARD OF DIRECTORS
OF
KING ERRINGTON RESOURCES LTD.

BY
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EXPLORATION GEOLOGIST

JUNE 1, 1987

OM 86-5-C-125

INTRODUCTION

This report is a geological report presenting the results of a work program carried out under the Ontario Mineral Exploration Program (O.M.E.P.) during the period May, 1986 to January, 1987. This report has been compiled to fulfill the requirements of the O.M.E.P. grant system and is presented to the Board of Directors of King Errington Resources Ltd. The work program carried out encompassed trenching, powerstripping, sampling, diamond drilling, mapping and bulk sampling of a previously located mineralized shear zone. The property of King Errington Resources has been termed the Tystar property and consists of six patent claims located in north eastern Chester Township near the Village of Gogama, Ontario. The claims are ideally located in the Swayze synclinorium of the Abitibi greenstone belt, very proximal to several areas currently undergoing detail investigations with respect to mine development. The contents of the report are based on the author's overall supervision of each portion of the work program and comments are based on 5 years experience working as a geological consultant in and around the specific property area. All facts mentioned herein are accurate being based on material and information gained in the field.



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PROPERTY DESCRIPTION

This property consists of six patent claims, which are currently held outright by King Errington Resources Ltd. of Vancouver B.C. All claims are situated in Chester Township, within the Porcupine Mining Division of the Province of Ontario. The six claims cover an area of approximately 228.8 acres and consist of the following claim numbers: S.32044, S.32033, S.32034, S.32035, S.32036, S.32037.

The claims have received a perimeter survey and are classified as patent land in accordance with the Ontario Mining Act, therefore, having no assessment requirements or other encumbrances, save an annual taxation commitment for the patent land.

FLORA AND FAUNA

This claim area is covered with a thin layer of overburden consisting of sand and gravel, providing an excellent soil base for the growth of a mixed forest. Typical coniferous trees are of the spruce, pine and balsam varieties. The low lying areas are well populated in black spruce, cedar and tagalder.

This type of forest cover provides an excellent habitat for a variety of animals including moose and bear, as well as smaller fur bearing animals including muskrat, beaver, lynx, mink, marten, fisher and squirrels. The numerous rivers and small lakes in the general area provide excellent locations for all types of fishing enthusiasts, with typical fish being northern pike, walleye, bass, and several varieties of trout.

LOCATION, ACCESS AND FACILITIES (See Fig. 2)

The "King Errington" property is situated in north-central Ontario, mid-way between Sudbury and Timmins. Gogama, the nearest town is situated 186 kilometre north of Sudbury. This small town provides several services including transportation (rail line), lodging (3 motels - hotels), groceries, mail etc. Gogama is a base for the Ministry of Natural Resources (forestry division) and also a base for the Canadian National Railway (line crews). The actual property is located some 19 kilometres south of this small town via King's Highway Number 144 which passes within one quarter mile of the property. A well maintained gravel road (highway 560) provides access to the

central and western portion of the property. Access to the property can be accomplished by any type of motorized vehicle.

Facilities present within the limits of the property include the main Ontario Hydro power line, which services Gogama, passing through the northern portion of the property adjacent to the gravel road (Highway 560). A tourist and fishing camp is located 2 km south of the property providing adequate lodging to any personnel involved in exploration or development of the property, at moderate cost.

HISTORY OF EXPLORATION

The King Errington property lies in the southeast extension of the Swayze synclorium. The general area around Chester and Yeo Townships has seen intermittent exploration since the turn of the century. The first gold discovery in the area was in 1912 near Moore Lake in central Yeo Township. A few years later, in a search for copper to assist the war effort, this particular prospect was discovered. A small sixty ton bulk sample was procured and shipped, which graded 7% copper and \$3.50/ton in gold. An estimate of the gold value assuming \$20.67 per ounce for gold in 1916 is 0.169 c.p.t. Au, making the current (March 29, 1986) value/ton of this ore to be estimated at \$160.00 U.S. (Cu @ \$.64/lb, Au @ \$415/oz).

The area saw little exploration activity until just prior to the depression of 1929 when another gold showing was encountered on the east shore of Clam Lake, near the Chester-Yeo border, initiating a moderate staking spree. Several other showings were encountered in the years 1927 to 1930, all in the general vicinity of Clam Lake, and Three Duck Lake in Central Chester Township, as well as in northern Yeo Township around Schist Lake. Exploration activity carried on at a slower pace for the next decade, as most prospects were now undergoing developmental work, with small shafts being sunk on the more promising sites. Exploration and production shafts are scattered throughout the entire area, with some sites approaching "economic conditions" for a viable short-term mining operation.

All of these prospects, when closely looked at, prove that the area is a note-worthy gold-belt within a metallogenic province, note-worthy enough to

tract such major mining companies as Noranda, Kidd Creek, Cominco, Falconbridge, Inco and Kerr Addison. Several juniors have acquired major land-holdings in the area, more or less tying up all the ground of any economic potential, and then some.

The recent activity (post 1980) has included such surface drilling in Chester Township by Murgold Resources, Kidd Resources, and Canadian Gold Crest. Murgold Resources has gone on to do some underground evaluation and sampling of the main ore zones (the Gomak and Watt's vein) as accessed by an old shaft and surface trenches and the Gomak Shaft; located along the main vein systems. The Gomak shaft has been dewatered (Oct. 1985) and assays of the "shaft vein" material ran as high as 0.266 o.p.t. Au over 24 inches (at 41 vertical feet) and 0.723 o.p.t. Au over 15 inches (at 48 vertical feet).

Murgold Resources has subsequently entered into an agreement with Chesbar Resources Inc., by which Chesbar can earn up to a 60% interest in the landholdings of Murgold by the expenditure of some \$2.5 million by the end of 1987. Chesbar has collared a ramp and are currently exploring the Watt's vein by a 12.5% decline to the 184 vertical foot level. Underground diamond drilling as accessed by this ramp has proven up a gold bearing zone within the Watt's vein system averaging 5 feet in width grading 0.30 o.p.t. Au over a strike length of 300 feet. With this encouragement Chesbar has decided to continue the ramp at the same angle to explore the minus 300 foot level. The president of Chesbar Resources, Mr. J. T. Flanagan, has indicated that the potential exists for a medium sized, high-grade gold mine which may be as large as 500,000 tons with an average grade of 0.30 o.p.t. Au.

Kidd Resources had their main No. 2 zone re-evaluated in 1984 by Pamour Mines Ltd., using percussion drill techniques for sampling. Pamour's exploration of this zone indicated ore reserves in the "probable" category to be approximately 20,000 tons averaging 0.19 o.p.t. Au. This zone has been closely examined by this author as well as Murgold Resources, and it is evident that there is some potential for along strike and down dip extensions of this deposit. The deposit is currently amenable to a small open-pit operation, negotiations have taken place to proceed with this mining

eration in the summer of 1987.

A short powerstripping program was conducted in 1981 on the property immediately south of claim number S.32034, by which a sulphide bearing quartz vein was uncovered which reportedly gave an assay of 2.05 o.p.t. Ag, and 0.4 o.p.t. Au over a width of 8 feet. In the latter part of the same year another powerstripping program was conducted over an area 700 feet by 400 feet located on claim S.32044, which uncovered an area 12 feet wide containing several parallel sulphide (chalcopyrite, quartz-carbonate) veins in a granitic (trondhjemitic) country rock, which yielded assays in grab samples as high as 0.4 o.p.t. Au and 13% Cu.

The King Errington claims have recently undergone a short geophysical program during the summer of 1984 under the auspices of this author. Four high priority VLF electromagnetic conductors have been selected which display coincidental magnetic expression.

Another, fifth conductor is expected in the vicinity of the main showing on the property, but the electromagnetic response of this zone is masked by the overwhelming response of the powerline adjacent to this zone.

More recently Lystar received results from an airborne VLF, magnetic survey flown over the area in the summer of 1985. This survey, essentially, confirmed the presence of coincidental electromagnetic conductors and magnetic responses, and enhanced the regional geological overview of the surrounding area.

It is thought, by this author that the two southern exposures of sulphide mineralization indicate a continuity of the main zone to extend for nearly 2000 feet. Government assays of the northern exposure yielded assays of 20.44% copper and 6.02 o.p.t. silver in a grab sample of the dump material.

The group of claims held by King Errington Resources Ltd. are in a very strategic land position, within the Swayze syncline and over an area which has seen some (minimal) production in the early 1900's and they definitely warrant further investigations.

MINERAL OCCURRENCES

"No. 1 " Texasgulf Canada indicated presence of iron sulphides and chalcop rite as fine-grained disseminations, drilled nine short holes over zone, a sayed for Cu, Zn, Au, Ag. Out of 90 samples selected 12 samples assayed higher than 0.48% Cu. Government geologists selected grab samples from ex used zone, yielding similar results to Texasgulf, with the exception of two amples yielding 0.11 and 0.18 o.p.t. Au. Kidd Resources the current owners valuated this zone at depth with 26 diamond drill holes, significant gold mi eralization was encountered in several holes, indicating the presence of a g ld-copper enriched zone, currently requiring more evaluation by diamond drilling.

"No. 17 Pyrite, pyrrhotite and chalcopyrite disseminations and seams in chlorit zed shear planes in a silicified greywacke. Ken Lytle, previous owner reports significant gold in this environment. Consolidated Silver Butte Mines L d. is the current owner. Recent work has been completed, results have not bee disclosed.

"No. 18 Pyrite, pyrrhotite and chalcopyrite are reported in logs of diamond drill h les drilled by Chesgo Gold Mines. Assays up to 0.10 o.p.t. Au were obtaine in this drill program. Murgold Resources the current holder of showing reports that this zone is a portion of the main Watt's vein system.

"No. 21 Silicified and sericitized alteration zones usually contain minor pyrite, pyrrhotite and chalcopyrite.

"No. 24 Ironohjemitite is locally sheared and silicified by subhorizontal quartz veins. Mineralization consists of disseminations of pyrite, pyrrhot te, hematite and chalcopyrite as well as malachite. Grab sample yielded assays of 1.94% Cu, 0.1 o.p.t. Au, 0.48 o.p.t. Ag.

"No. 25 Mineralization consists of pyrite-chalcopyrite within or adjacent to a quart vein. Grab sample of vein material assays 1.62% Cu, 4.11 o.p.t. Au and 0.5 o.p.t. Ag.

No.

"No. 26" In 1936, 1,387 tons of ore were milled by Gomak Mines Ltd. yielding 98.31 ounces of gold and 23 ounces of silver. Grab sample by government geologists assays 1.79% Cu, 0.65 o.p.t. Au and 0.33 o.p.t. Ag. Visible gold is common within the vein material. Murgold Resources the current holder conducted dewatering and underground evaluation of the zone in 1985 with encouraging results, have entered into an underground evaluation of the zone with Chesbar Resources Inc. as operator.

"No. 36" Lies within the limits of the property held by King Errington. Mineralization consists of pyrite and chalcopyrite in a quartz-carbonate vein three feet wide and 200 feet long along a five foot wide shear zone striking N 30° W and dipping 70° NE. Sixty tons of ore were shipped in 1916 averaging 7% copper and 0.169 o.p.t. Au. Selected grab sample by government geologist assayed 10.44% Cu and 6.02 o.p.t. Ag.

"No. 37" The property is currently held by Murgold Resources and contains the old Strathmore shaft, with workings at the 100 foot level. A channel sample of vein material 2 feet wide is reported to have assayed 0.51 o.p.t. Au. Underground bulk sampling was done by Murgold in 1982 which brought a bulk sample to surface. Half was sent to Timmins for processing and half was sent to a local mill for processing; results were as follows: "656 tons ore processed averaged 0.34 o.p.t. Au". Murgold and their joint venture partner Chesbar Resources are currently evaluating this occurrence by underground exploration.

"No. 39" Mineralized zone is a north-trending quartz vein in a coarse granodiorite containing pyrite, chalcopyrite and visible gold. Channel sample reported to have yielded 0.5 o.p.t. Au over an undisclosed length, while grab samples are reported to be up to 1.0 o.p.t. Au.

GENERAL GEOLOGY (after Siragusa, 1981) (Fig. 3)

The area occupied by the King Errington property is commonly called the southeast extension of the Swayze Syncline. The area is crossed by two broadly parallel Early Precambrian (Archeon) belts of locally pillowed tholeiitic basalts trending west-northwest and dipping sub-vertically. Near the western boundary of Chester Township the basalt grades to rocks of

gabbroic to dioritic composition which represent recrystallized derivatives of the former basalt and of an agmatitic migmatite. (migmatite breccia with angular fragments within a crystalline granitic matrix). Local conditions of incomplete recrystallization within the gabbroic-dioritic rocks is commonly represented by the presence of basaltic domains of relatively low grade metamorphic rock still retaining some primary depositional features.

The agmatitic migmatite consist of variable proportions of leucocratic trondhjemitic neosome and of paleosome which includes dominantly gabbroic and dioritic rocks (recrystallized basalt), hornblendite, and basalt that is virtually unrecrystallized. The gabbroic, dioritic and agmatitic rocks reflect variable conditions of recrystallization, metasomatism and migmatization affecting the marginal formations of the southern belt. The area between the two basaltic belts is underlain by intermediate pyroclastic metavolcanics. Regional granitic rocks flank the northern and southern basaltic belts. All of the above-mentioned Archean formations are cut by basic lamprophyre and diabase dikes of Proterozoic age.

Three sets of structural disruption appear to be evident in the area. These consist of faults trending at 040° azimuth, 160° azimuth and 120° azimuth. The latter set being shear faulting. The 160° and 120° sets appear to control the mineralization with "poddy" type mineralization found within the 120 degree azimuth shears, concentrated at the juncture of these two sets. It is apparent that the intensity of tenor of the mineralization wanes with distance from the intersection of these structures.

PROPERTY GEOLOGY

The property has seen some reconnaissance ground geological investigations by this author and it is apparent from the mapping that the six claims straddle an intrusive contact between intermediate pyroclastic metavolcanics to the north and an intrusive rock of dominant trondhjemitic character to south as presented on the accompanying geologic compilation (Figure 1). The pyroclastic metavolcanics consist of tuffaceous members varying from ash size clasts (2mm) to lapilli size clasts (.2cm to 6 cm), and locally of derives schist. Cutting the metavolcanics near the northeastern boundary is a diabase dike trending at 135° azimuth. The intrusive rock to the south is

Primarily trondhjemite is light-coloured, medium to coarse grained and has a low content of mafic minerals.

A mineralized occurrence is located within the trondhjemite near the intrusive contact with the pyroclastic member. The showing consists of pyrite, chalcopyrite, bornite and malchite in a quartz-carbonate vein averaging three feet in width with an exposed length of nearly 300 feet, within a five foot wide shear zone striking at 120° azimuth and dipping 70° NE. This site saw limited production, represented by a small elongated pit 8 feet wide and 75 feet long, along the eastern bank of a small creek. Sixty tons of ore was removed in 1916 which is reported to have averaged 7% copper and 0.109 o.p.t. gold. A grab sample by government geologists in 1981 yielded 20.44% copper and 6.02 o.p.t. silver. This shear zone has been traced by this author for a distance of nearly 2000 feet to the south, but could not be traced north due to the presence of a small lake, and extremely marshy conditions.

PROPERTY GEOPHYSICS

In the spring and summer of 1984 the property underwent a reconnaissance geophysical program consisting of ground electromagnetics (VLF) and ground magnetics. Lines were cut perpendicular to the base line which had an azimuth of 135° . Offsets were established every 200' along this base line and extended to the edge of the property. Four intense electromagnetic conductors were encountered in the VLF survey, with numerous secondary weak conductors. The strong conductors have magnetic coincidence suggesting bedrock sources for the positive electromagnetic responses. Although no electromagnetic conductor is indicated resultant from the main sulphide occurrence it is thought that this zone is responsive, but has been masked by the presence of "cultural noise" being a power line passing within a few hundred feet of the actual showing. The zone, does however, have a magnetic expression associated with it, being a magnetic anomaly in the order of 500 gammas. This zone would therefore be categorized with a quite high priority with respect to any follow-up program.

In the 1985 the area underwent an airborne survey consisting of VLF electromagnetics and magnetics. This survey confirmed the presence of the

ound onductors with magnetic association and assisted in the regional interpretation of geologic structures which are thought to influence mineral zation. The survey was flown in an east-east fashion to evaluate the responsiveness of the various occurrences in north-trending structures.

1986 WORK PROGRAM

The King Errington property underwent a detailed investigation during 1986, under the O.M.E.P. grant system the following work was completed during this program

May 11 to May 28	Geophysical checks on lines, backhoe trenching, powerwashing, blasing, sampling, assaying
May 29, to June 8	Report preparation
August 19 to Sept. 12	Diamond drilling
Sept. 13 to Sept. 24	Report preparation
Dec. 3 to Dec. 17	Bulk sampling of main zone continued trenching and mapping
Jan. 6 to Jan. 8 (1987)	Transport sample to Lakefield Research

FIELD PERSONNEL

The following personnel were involved in the various work programs completed over the King Errington property:

May 11 to May 28

Neil Novak, Project Geologist (Nominex Ltd.)

1121-6599 Glen Erin Drive, Mississauga, Ontario

Bob Leliever, Backhoe operator, Labourer (Bobex Resources Ltd.)

14 Pinecliff Dr., Mississauga, Ontario

May 29 to June 8

Neil Novak, Project Geologist (Nominex Ltd.)
(as above)

August 11 to September 12

Neil Novak, Project Geologist (Nominex Ltd.)
(as above)

4 drillers, Bradley Bros. Ltd., Timmins, Ontario

September 13 to September 24

Neil Novak, Project Geologist (Nominex Ltd.)
(as above)

December 3 to December 17

Joe Bankowski, Project Geologist

611 Sweetwater Cres., Port Credit, Ontario

Bob Leliever, (Bobex Resources Ltd.) labourer
(as above)

Dozer operator (Pioneer Excavating)
Sudbury, Ontario.

January 5 to January 8, 1987

Neil Novak, Project Geologist (Nominex Ltd.)
(as above)

Bob Leliever, Labourer, (Bobex Resources Ltd.)
(as above)

DETAILS OF WORK PROGRAMS

Period May 12 to June 8 (Fig. 4, Appendix 1)

In preparation for an anticipated diamond drill program, a short orientation program was initiated. Previously encountered geophysical responses were verified and re-identified in the field, using an E.M. 16 (VLF) hand unit. Each conductive response was exposed where possible using a John Deere Backhoe mounted on a Bombardier Muskeg Carrier. Trenched areas were powerwashed using a Wajax Mark 75 water pump. The newly exposed areas were then plugged using a Pionjar plugger and then basted using C.I.L. Forcite 75%

th 4 minute delay caps connected to B-line cordite.

All samples procured from this survey are detailed in Appendix I, locations of each trench with respect to the sample description is illustrated in Figure 4.

Period August 19 to September 24 (Fig. 4, Appendix II)

As a result of the encouraging results in the previous work program a 2500 foot diamond drill program was initiated with the contract being awarded to Bradley Brothers Diamond Drilling, contractors from Timmins, Ontario. Drill sites were selected to test the main mineralized trench located on line 18+00' south at 500' West and its geophysically inferred extension to the south, as well as another very strong conductor located to the east of the baseline coinciding with a stream bed, crossing the baseline at 27+00'S then heading further south towards the #2 post of claim S.32034. A third geophysical response was obtained in the vicinity of trenches T-9 and T-10 with surface showings of a narrow vein (shear) 1.4' wide. A total of 11 diamond drill holes were completed over this property totalling 2,531 feet. Diamond drill logs, and assay certificates of all samples taken are presented as Appendix II, while the drill hole locations are indicated on Figure 4.

Period December 3, 1986 to January 8, 1987 (Fig. 5, Appendix III, IV)

After the less than encouraging diamond drill program executed in the late summer the data was reviewed and plotted to ascertain why the excellent results received in the surface investigations did not continue to depth. To determine this another powerstripping program was initiated by which the entire area around the main shear exposure was stripped using a D-7 bulldozer accompanied by the same backhoe used in the initial program. The shear zone was exposed for a total length of 350 feet and blasted and sampled throughout its length. A larger bulk sample was selected in the vicinity of the old workings along its northern exposure, which was shipped to Lakefield Research for an evaluation. Results of this program are presented as Fig. 5 and as Appendix III and IV.

CONCLUSIONS

King Errington Resources Ltd. has carried out a very detailed geologic evaluation of their land holdings in Chester Township, Ontario. This investigation has included three main phases of activity which encompassed trenching, powerstripping, sampling, diamond drilling, mapping and bulk sampling.

The overall project yielded some very exciting results during the onset of the program which included grade samples of 0.126 o.p.t. Au, 3.15 o.p.t. Ag, 8.32% Cu and a channel sample across 3.5 feet of 0.424 o.p.t. Au, 1.55 o.p.t. Ag and 3.12% Cu. Further investigations of the main shear system along strike and to depth by diamond drilling and trenching failed to substantiate these local anomalous values.

It appears from the exploration completed to date, that economic "grade" mineralization occurs locally within the shear system examined. This mineralization is podiform and is not expected to be continuous along this shear zone. One could expect to find several of these pods throughout the entire shear system, each pod would have to be evaluated for its own merit, presenting a very tough exploration problem.

Several other areas are present within the limits of the property which have some geophysical responses which remain untested. These areas should be explored in the same manner which the main shear zone was evaluated.

RECOMMENDATIONS


A follow up program is definitely warranted on this property!

Encouragement exists within a structural geologic feature, responsible to simple electromagnetic prospecting, transecting the property in a 150° to 160° azimuth, parallel to the main shear system in the region termed the Mesomiker la Lake Fault (Fig. 3). All other economic concentrations of gold currently being evaluated and exploited by other companies in the area are located at the juncture of this main shear trend (150° to 160°) with offsets in the 040° and 120° azimuthal directions. The work program carried out on this project to date, has only identified conductors (shear zone) trending

the 10° to 160° azimuth direction due to the orientation of the present grid system. A grid system oriented perpendicular to the present system would identify conductors located in the acute directions to the main trend. The junction of the two geophysically responsive shear zone would be an area which would be prime for locating Murgold-Chesbar or Kidd type mineralization.

The property has not as yet been adequately geologically mapped or prospected for other areas similar to that which King Errington has evaluated. This could be done simultaneously with the geophysical program recommended over the property.

This report is respectfully submitted this 1st day of June, 1987.

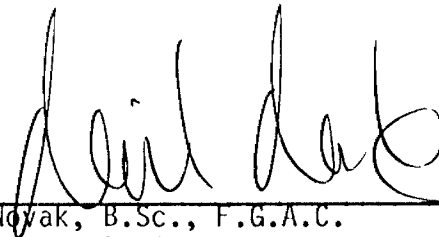
A handwritten signature in cursive script, appearing to read "Neil Novak", is written over a horizontal line.

Neil Novak, B.Sc., F.G.A.C.

CERTIFICATE

I, Neil Novak, do hereby certify:

- (1) that I am an exploration geologist residing at 1121-6599 Glen Erin Drive, Mississauga, Ontario L5N 2X3
- (2) that I am a graduate of the University of Waterloo, Waterloo, Ontario and hold a Bachelor of Science degree as an Earth Scientist dated 1977;
- (3) that I am a fellow in good standing of the Geological Association of Canada;
- (4) that I have been engaged in the practice of this profession since graduating;
- (5) that I have no interest, direct or indirect, nor do I expect to receive any such interest in the properties or securities of "King Errington Resources Inc."



Neil D. Novak, B.Sc., F.G.A.C.
Exploration Geologist

June 1, 1987

APPENDIX I

Work Program May 12 to June 8, 1986

- Sample Description
- Assay Certificates

NOMINEX

(NOVAK MINERAL EXPLORATIONS)

NEIL D. NOVAK, B.S.C., F.G.A.C.
CONSULTING GEOLOGIST

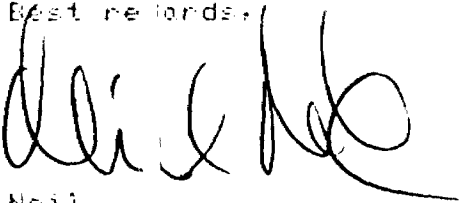
Mr. George Ferry
President, King Ennington Resources Inc.
905-837 West Hastings St.,
Vancouver, B.C.

Dear George,

Please find enclosed a copy of Table I, which describes all of the samples which I selected in the field on the Chester Tr. property of your company. I have sent the samples to Chemex Labs Ltd., and should be receiving assays soon. I will be sending you selected grab samples representative of each trench location as well so you will have a feel for the type of rock which we are looking at. I've also enclosed a copy of the Trench Location Plan which illustrates the actual trench location with respect to topographic and specific E.M. conductors as I located in the field. You will note that there are two E.M. conductor lines indicated on the map, the 1985 locations were plotted to illustrate to you the old results. The 1986 locations were verified in the field by myself using the old lines and 50 foot station intervals to provide more accurate information, which can be used in the next phase of exploration which will hopefully include some diamond drilling and further sampling.

Hope you find everything in order with respect to this short program

Best regards,



Neil



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1
Phone: (604) 984-0221
Telex: 043-52597

*** INVOICE ***

To : NOVAK, NEIL

** Invoice # : I8613259

818 - 60 SOUTHPORT ST.
TORONTO, ONT.
M6S 3N4

Date : 13-JUN-86
P.O. # : NONE
Project

Invoice for analytical work reported on certificate(s) A8613259-001

Quantity	code	description	unit price	amount
30	301	- Cu	¢	
	385	- Ag	oz/T	
	398	- Au	oz/T	16.75
				502.50

Sample preparation and other charges :

30	207	- Assay - PULVERIZE	3.75	112.50
----	-----	---------------------	------	--------

TOTAL \$ 615.00

Please pay this amount ----> \$ 615.00
=====

TERMS -- NET 30 DAYS

1.5 % per month (18 % per annum) charged on overdue accounts

pd. ch # 36 June 23/86



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1

Phone: (604) 984-0221
Telex: 043-52597

CERTIFICATE OF ASSAY

TO : NOVAK, NEIL

818 - 60 SCOUTHPORT ST.
TORONTO, ONT.
M6S 3N4

** CERT. # : A8613259-001-A
INVOICE # : 18613259
DATE : 13-JUN-86
P.O. # : NGNE

ATTN: NEIL NOVAK

Sample description	Prep code	Cu %	Ag oz/T	Au oz/T			
10028	207	0.74	0.36	0.026	--	--	--
10029	207	17.80	8.17	0.062	--	--	--
10030	207	8.32	3.15	0.126	--	--	--
10031	207	0.11	0.11	<0.002	--	--	--
10032	207	3.12	1.55	0.424	--	--	--
10033	207	0.02	0.02	<0.002	--	--	--
10034	207	11.50	3.62	0.098	--	--	--
10035	207	0.03	0.03	<0.002	--	--	--
10036	207	1.92	0.63	0.040	--	--	--
10037	207	0.07	0.05	<0.002	--	--	--
10038	207	2.95	0.90	0.048	--	--	--
10039	207	0.08	0.03	<0.002	--	--	--
10040	207	0.58	0.23	0.006	--	--	--
10041	207	0.02	0.01	<0.002	--	--	--
10042	207	0.01	0.01	<0.002	--	--	--
10043	207	0.01	0.05	<0.002	--	--	--
10044	207	0.05	0.01	0.002	--	--	--
10045	207	<0.01	0.01	<0.002	--	--	--
10046	207	<0.01	<0.01	0.004	--	--	--
10047	207	0.09	0.05	0.002	--	--	--
10048	207	0.08	0.07	0.004	--	--	--
10049	207	0.05	0.03	<0.002	--	--	--
10050	207	9.60	0.54	0.014	--	--	--
10051	207	0.40	0.05	<0.002	--	--	--
10052	207	1.33	0.28	<0.002	--	--	--
10053	207	0.11	0.03	<0.002	--	--	--
10054	207	3.82	1.14	0.022	--	--	--
10055	207	0.02	<0.01	0.010	--	--	--
10056	207	4.57	1.20	0.018	--	--	--
10057	207	0.27	0.07	0.006	--	--	--

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.....
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TABLE I

TRENCH # (Sample #)	SAMPLE DESCRIPTION	WIDTH	ASSAY VALUES		
			Au opt	Ag opt	Cu %
T-1 10028	Brecciated vein material	grab	.025	0.35	0.74
T-1 10029	vein material with sulphides incl. mal.,oz.,bo.,cf.	grab	.062	0.17	17.8
T-1 10030	dark quartz vein material high carbonate content vuggy	grab	.125	0.15	0.22
T-1 10031	hanging wall schistose volcanics	3.0 feet	<.002	0.11	0.11
T-1 10032	vein material abundant sulphides including bp.,cf.,mal.	3.5 feet	.424	1.55	0.12
T-1 10033	footwall schistose volcanics minor sulphides	2.0 feet	<.002	0.02	0.02
T-3 10034	vein material with abundant sulphides incl. cf., pg.	grab	.099	0.62	11.9
T-3 10035	hanging wall schistose volcanics with minor sulphides	3.0 feet	<.002	0.03	0.03
T-3 10036	vein material with abundant sulphides incl. cf.,bo.,mal.	1.7 feet	.040	0.52	1.92
T-3 10037	footwall schistose volcanics minor sulphides	2.0 feet	<.002	0.05	0.07
T-4 10038	vein material with abundant sulphides incl. cf.,bo	grab	.049	0.80	2.95
T-4 10039	hanging wall sheared int. volcanics, minor sulphides	2.0 feet	<.002	0.03	0.09
T-4 10040	vein plus sheared int. volcanics	2.9 feet	.006	0.23	0.53
T-4 10041	footwall zone sheared int. volcanics	3.8 feet	<.002	0.01	0.02
T-5 10042	vein material with abundant sulphides incl. pg.,cf.	grab	<.002	0.01	0.01
T-5 10043	hanging wall extremely schistose volcanics	3.0 feet	<.002	.05	.01
T-5 10044	vein material with sheared volcanics	3.3 feet	.002	0.01	0.05

TABLE I (cont.)

 ASSAY VALUES
 Au Ag Cu
 opt opt %

T-7 10045	sheared int. volcanics hanging wall, brecciated	14.0 feet*	<.002	.01	<0.01
T-7 10046	quartz vein with ce. highly brecciated	2.0 feet*	.004	<0.01	<0.01
T-8 10047	hanging wall int. volcanics with minor sulphides incl. ce.,bo	5.5 feet	.002	0.06	0.09
T-8 10048	brecciated vein material with abundant sulphides incl. ce.,bo	2.3 feet	.004	0.07	0.08
T-8 10049	footwall sheared volcanics with minor sulphides	1.2 feet	<.002	0.03	0.05
T-9 10050	highly mineralized vein material with abundant bo.,ce.,mal.	grab	.014	0.54	9.60
T-9 10051	hanging wall sheared int. volcanics fr. sulphides	4.0 feet	<.002	0.05	0.40
T-9 10052	sheared int. volcanics plus vein material abund. ce.,bo.,mal.	8.0 feet	<.002	0.28	1.33
T-9 10053	footwall zone minor quartz in sheared int. volcanics abund. ce.	3.5 feet	<.002	0.03	0.11
T-10 10054	highly mineralized vein material with abund. ce.,bo.,Fe.	grab	.022	1.14	3.82
T-10 10055	hanging wall int. volcanics with minor ce.,bo.	2.3 feet	.010	<0.01	0.02
T-10 10056	vein material with abundant sulphides incl. mal.,ce.,bo.	1.4 feet	.018	1.20	4.57
T-10 10057	footwall sheared volcanics with minor quartz and abund. ce.,bo.	1.8 feet	.006	0.07	0.27

Notes

* indicates representative samples of the bedrock across the specified width

all other samples are classified as channel samples across the specified width except where referred to as grab sample.

APPENDIX II

Work Program August 19 to September 24, 1986

- Diamond drill logs
- Assay Certificates



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CERTIFICATE OF ASSAY

TO : KING ERRINGTON RESOURCES

905 - 83 W. HASTINGS ST.
VANCOUVE, BC
V6C 1B6

818-60 Southport St*
TORONTO, ONT
M6S 3N4

CERT. # : A8618074-001-A
INVOICE # : 18618074
DATE : 29-SEP-86
P.O. # :
CHESTER

ATTN: GORGE FERRY GR.: NEIL NOVAK

Sample description	Prep code	Cu %	Ag oz/T	AU oz/T			
0001	207	<0.01	0.03	<0.002	--	--	--
0002	207	<0.01	0.03	<0.002	--	--	--
0003	207	<0.01	0.01	<0.002	--	--	--
0004	207	<0.01	0.01	<0.002	--	--	--
0005	207	<0.01	0.01	<0.002	--	--	--
0006	207	0.21	0.05	0.002	--	--	--
0007	207	<0.01	0.01	<0.002	--	--	--
0008	207	<0.01	0.01	<0.002	--	--	--
0009	207	<0.01	0.01	<0.002	--	--	--
0010	207	<0.01	0.01	<0.002	--	--	--
0011	207	0.02	0.03	<0.002	--	--	--
0012	207	<0.01	0.01	<0.002	--	--	--
0013	207	<0.01	<0.01	<0.002	--	--	--
0014	207	<0.01	<0.01	0.002	--	--	--
0015	207	<0.01	<0.01	<0.002	--	--	--
0016	207	<0.01	1.01	0.004	--	--	--
0017	207	<0.01	0.01	0.002	--	--	--
0018	207	<0.01	0.01	0.002	--	--	--
0019	207	<0.01	0.03	<0.002	--	--	--
0020	207	<0.01	0.01	<0.002	--	--	--
0021	207	<0.01	<0.01	<0.002	--	--	--
0022	207	0.06	0.03	0.002	--	--	--
0023	207	<0.01	<0.01	0.002	--	--	--
0024	207	0.04	<0.01	0.002	--	--	--
0025	207	0.01	<0.01	<0.002	--	--	--
0026	207	0.02	<0.01	<0.002	--	--	--
0027	207	0.02	<0.01	<0.002	--	--	--
0028	207	<0.01	<0.01	<0.002	--	--	--
0029	207	0.05	<0.01	<0.002	--	--	--
0030	207	<0.01	<0.01	<0.002	--	--	--
0031	207	<0.01	<0.01	<0.002	--	--	--
0032	207	0.01	<0.01	<0.002	--	--	--
0033	207	<0.01	<0.01	<0.002	--	--	--
0034	207	<0.01	<0.01	<0.002	--	--	--
0035	207	0.03	0.01	<0.002	--	--	--
0036	207	0.01	<0.01	<0.002	--	--	--
0037	207	0.01	<0.01	<0.002	--	--	--
0038	207	<0.01	<0.01	<0.002	--	--	--
0039	207	0.02	0.01	<0.002	--	--	--
0040	207	0.01	0.01	<0.002	--	--	--

Neil Novak
VOI rev. 4/85

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CERTIFICATE OF ASSAY

TO : KING ERRINGTON RESOURCES

905 - 831 W. HASTINGS ST.
VANCOUVER, BC
V6C 1B6

** CERT. # : A8618074-002-A
INVOICE # : 18618074
DATE : 29-SEP-86
P.O. # :
CHESTER

ATT'N: GEORGE FERRY CC.: NEIL NOVAK

Sample description	Prep code	Cu %	Ag oz/T	AU oz/T			
0041	207	<0.01	0.01	<0.002	--	--	--
0042	207	0.02	<0.01	<0.002	--	--	--
0043	207	0.03	0.01	<0.002	--	--	--
0044	207	0.02	<0.01	<0.002	--	--	--
0045	207	0.01	0.01	<0.002	--	--	--
0046	207	<0.01	<0.01	<0.002	--	--	--
0047	207	<0.01	<0.01	<0.002	--	--	--

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CERTIFICATE OF ASSAY

TO : KING ERRINGTON RESOURCES

CERT. # : A8618155-001-A
INVOICE # : 18618155
DATE : 29-SEP-86
P.C. # : NONE
CHESTER

905 - 83' W. HASTINGS ST. 818-60 SOUTHPORT ST.
VANCOUVER, BC TORONTO, ONT
V6C 1B6 M6S 3N4

ATTN: GEORGE FERRY ✓ CC: NEIL NOVAK

Sample description	Prep code	Cu %	Ag oz/T	Au oz/T			
0048	207	0.05	0.01	<0.002	--	--	--
0049	207	<0.01	0.01	<0.002	--	--	--
0050	207	<0.01	0.01	<0.002	--	--	--
0051	207	<0.01	<0.01	<0.002	--	--	--
0052	207	<0.01	<0.01	<0.002	--	--	--
0053	207	<0.01	<0.01	<0.002	--	--	--
0054	207	0.02	0.01	<0.002	--	--	--
0055	207	0.01	<0.01	<0.002	--	--	--
0056	207	0.01	<0.01	<0.002	--	--	--
0057	207	<0.01	<0.01	<0.002	--	--	--
0058	207	<0.01	<0.01	<0.002	--	--	--
0059	207	<0.01	<0.01	<0.002	--	--	--
0060	207	<0.01	0.01	<0.002	--	--	--
0061	207	0.02	<0.01	<0.002	--	--	--
0062	207	0.01	<0.01	<0.002	--	--	--
0063	207	0.21	0.10	0.016	--	--	--
0064	207	<0.01	<0.01	<0.002	--	--	--
0065	207	<0.01	<0.01	<0.002	--	--	--
0066	207	0.02	0.01	<0.002	--	--	--
0067	207	<0.01	<0.01	<0.002	--	--	--
0068	207	0.02	<0.01	<0.002	--	--	--
0069	207	0.04	0.01	<0.002	--	--	--
0070	207	0.01	<0.01	<0.002	--	--	--
0071	207	0.02	<0.01	<0.002	--	--	--
0072	207	0.01	<0.01	<0.002	--	--	--
0073	207	0.01	0.02	<0.002	--	--	--
0074	207	0.03	0.01	<0.002	--	--	--
0075	207	0.04	0.01	<0.002	--	--	--
0076	207	0.03	0.03	<0.002	--	--	--
0077	207	<0.01	0.03	<0.002	--	--	--
0078	207	0.06	0.01	<0.002	--	--	--
0079	207	0.29	0.12	<0.002	--	--	--
0080	207	0.03	0.04	<0.002	--	--	--
0081	207	0.16	0.08	0.021	--	--	--
0082	207	0.01	<0.01	<0.002	--	--	--
0083	207	0.03	<0.01	<0.002	--	--	--
0084	207	<0.01	<0.01	<0.002	--	--	--
0085	207	<0.01	<0.01	<0.002	--	--	--
0086	207	0.01	0.01	<0.002	--	--	--
0087	207	0.02	0.03	<0.002	--	--	--

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CERTIFICATE OF ASSAY

TO : KING ERRINGTON RESOURCES

905 - 83 W. HASTINGS ST.
VANCOUVER, BC
V6C 1B6

** CERT. # : A8618155-002-A
INVOICE # : 18618155
DATE : 29-SEP-86
P.C. # : NCNE
CHESTER

ATTN: GEORGE FERRY CC: NEIL NOVAK

Sample description	Prep code	Cu %	Ag oz/T	Au oz/T			
0088	207	0.13	0.03	0.002	--	--	--
0089	207	0.48	0.09	0.004	--	--	--

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KING ERRINGTON RESOURCES INC.

INCLINATION TESTS					
DEPTH	DIP	DEPTH	DIP	DEPTH	DIP
COLLAR	-45°		collar		

HOLE NO: K.E. 85-1

LOCATION: CHESTER TWP. GRID: L.188.8+50W

ELEVATION:

PROJECT:

LENGTH: 275.0' HORIZ: 185.0' VERT: 185.0' AZIMUTH: 225° CORE SIZE: 80

STARTED:

RECOVERY: 95% LOGGED BY: M. M... DATE: Oct 25 1988

FINISHED:

FROM	TO	DESCRIPTION	ANALYTICAL RESULTS						
			SAMPLE	FROM	TO	LENGTH	Cu (ppm)	Zn (ppm)	Ag (ppm)
0	15	Overburden							
15	81.0	Diorite to gneodiorite med. grained with poor crystal growth. plagioclase feldspar as masses, white to gray anhedral crystals, comprising 50% of unit. potash feldspars comprise 5-10%, are slightly pink. Occasional rare fleck of euvrite as irregular blebs. Unit is widely fractured, chloritization evident along fractures.							
81.0	87.25	Diorite, extremely aphanitic plagioclase feldspar dominates the unit (50 - 70%) minor potash feldspars comprising 5% and rare irregular blebs of euvrite throughout with minor chloritization along fractures.							
87.25	122.0	Rhyolite, tuffaceous with short interbeds of dacite, minor spherulitic texture in rhyolitic beds.							
		87.25 - 89.25 tr - 1% py	0001	87.25	89.25	2.0			
		89.25 - 91.25 tr - 1% py	0002	89.25	91.25	2.0			
		111.5 - 115.0 tr - 1% py	0003	111.5	115.0	3.5			
		121.0 - 122.0 tr - 1% py + (e. carb. vein 1")	0004	121.0	122.0	1.0			
122.0	128.2	Rhyolite breccia and tuff, with short interbeds of dacitic brecciated tuff.							
128.2	130.8	Brecciated rhyo-dacite tuff, with minor quartz carbonate veins and chloritized fractures							
		128.2 - 131.2 1 - 2% py	0005	128.2	131.2	3.0			
130.8	131.2	Quartz vein (bull)							
131.2	142.0	Brecciated rhyo-dacite pyroclastic tuff with minor quartz seams and short sinuously folded interbeds of							

FROM	TO	DESCRIPTION	SAMPLE	ANALYTICAL RESULTS						
				FROM	TO	LENGTH	Cu(ppm)	Zn(ppm)	Ag(ppm)	Au(ppb)
		cherty material, minor sericitization throughout giving an overall green tinge to rock.								
142.0	151.7	well foliated (30° C.P.) rhyo-dacite ash tuft with minor flecks of pyrite throughout.								
151.7	155.5	rhyo-dacite brecciated pyroclastic tuft with minor sericitization with an occasional fleck of pyrite.								
155.5	158.2	well foliated (30° C.P.) rhyo-dacite tuft.								
158.2	173.0	rhyodacite brecciated pyroclastic tuft, minor short quartz filled sections between breccia fragments, highly silicified.								
173.0	178.5	rhyolitic ash and pyroclastic tuft, well foliated (30° C.P.) occ. minor fleck pyrite.								
178.5	183.0	diorite, aphanitic slightly brecciated.								
183.0	188.0	granodiorite aphanitic highly fractured.								
188.0	203.5	granodiorite aphanitic, highly fractured gradational contact with aphanitic variety at top. Disseminated pyrite plus chalcocyanite throughout								
		188.0 - 190.0 1-2% Py, CP	.0006	188.0	190.0	2.0				
		190.0 - 194.0 tr-1% Py, CP	.0007	190.0	194.0	4.0				
		194.0 - 198.0 1-2% Py, CP	.0008	194.0	198.0	4.0				
		198.0 - 203.5 1 - 2 % Py CP	.0009	198.0	203.5	5.5				
203.5	205.0	very fine grained intermediate ash tuft with minor pyrite over 3" up to 4% at 204.5								
205.0	205.5	brecciated granodiorite with up to 5% pyrite, orthoclase crystals broken								
		205.0 - 205.5 3-5% Py, CP	.0010	205.0	205.5	1.5				

FROM	TO	DESCRIPTION	ANALYTICAL RESULTS						
			SAMPLE	FROM	TO	LENGTH	Cu (ppm)	Zn (ppm)	Ag (ppm)
205.5	262.0	very fine grained felsic to intermediate act f with minor fractured relatively featureless, occasional chloritic fragment and chloritic- zation along fracture planes.							
262.0	275.0	brecciated granodiorite with minor sulfide throughout.							
		265.0 - 270.0 1% py	0011	265.0	270.0	4.0			
		275.0 end of hole							

FROM	TO	DESCRIPTION	ANALYTICAL RESULTS						
			SAMPLE	FROM	TO	LENGTH	Cu(ppm)	Zn(ppm)	Ag(ppm)
95.7	109.0	medium grained aphanitic granodiorite, grad- ational contact at top. highly brecciated out, occasional fleck pyrite.							
109.0	135.0	fine grained aphanitic granodiorite, to diorite moderately brecciated, minor pyrite flecks.							
135.0	215.7	fine grained diorite, massive relatively fracture- less, occ fractured zone, minor pyritic section at 184.5 for 2".							
215.7	238.4	medium grained aphanitic granodiorite breccia, highly fractured tr-2% py + cf along fractures. 215.7 - 218.7 tr-1% py 218.7 - 221.7 tr-2% py+cf 221.7 - 224.7 tr-2% py+cf 224.7 - 228.7 tr-2% py+cf 228.7 - 231.7 tr-2% py+cf 231.7 - 234.7 tr-2% py+cf 234.7 - 238.7 tr-2% py+cf extremely blocky from 235.5 to 236.5 (fault zone)	.0015 .0015 .0017 .0018 .0019 .0020 .0021	215.7 218.7 221.7 224.7 228.7 231.7 234.7	218.7 221.7 224.7 228.7 231.7 234.7 238.4	3.0 3.0 3.0 3.0 3.0 3.0 3.7			
238.4	245.5	fine grained aphanitic diorite moderately frac- tured, mildly brecciated occ. fleck py + cf.							
245.5	253.5	fine grained aphanitic diorite, highly silicified minor pyrite throughout quartz veining at 247.5 to 248.5 containing up to 10% cf + py. 245.5 - 249.5 10% cf + py 249.5 - 253.5 tr - 2% cf	.0022 .0023	245.5 249.5	249.5 253.5	3.0 4.0			
253.5	262.4	fine grained aphanitic diorite, occ. fleck pyrite. 262.4 end of hole.							

KING ERFINGTON RESOURCES INC.

INCLINATION TESTS			
DEPTH	DIP	DEPTH	DIP
COLLAR	-60		

HOLE NO: K.E. 86-4

LOCATION: Chester Twp.	GRID: L.1800S, 450'W	ELEVATION:	PROJECT:
LENGTH: 171.6'	HORIZ: 90'	VERT: 150'	STARTED:
RECOVERY: 95%	LOGGED BY: Neil Novak	DATE: September 1 1986	

FROM	TO	DESCRIPTION	ANALYTICAL RESULTS						
			SAMPLE	FROM	TO	LENGTH	Cu (ppm)	Zn (ppm)	Ag (ppm)
0	36.0	Highly fractured aphanitic diorite, slightly chloritic with very thin quartz carbonate veinlets crossing core at various angles. trace pyrite over short sections (2-3"). Quartz appears almost chert-like sodium feldspars are grey in appearance set in light grey fractured silicious groundmass. Quartz vein at 28.5 to 29.5 paralleling core angle.							
36.0	41.6	Felsic tuff, slightly brecciated, well foliated at 40 C.A.							
41.6	77.6	Aphanitic diorite (as above) slight foliation apparent at 40 C.A.							
		41.6 - 44.0 tr. - 2% py	0039	41.6	44.0	2.4			
		60.5 - 63.5 tr - 1% py	0040	60.5	63.5	3.0			
		63.5 - 66.5 tr - 1% py	0041	63.5	66.5	3.0			
		66.5 - 69.5 tr - 1% py	0042	66.5	69.5	3.0			
		69.5 - 72.5 tr - 1% py + asp	0043	69.5	72.5	3.0			
77.6	82.0	fracture zone 77.6 to 77.8, Felsic ash tuff, moderately foliated fracture zone at 81.5 to 81.7 quartz breccia zone at 81.5 to 82.0							
		77.6 - 82.0 1 - 2% py + cp	0044	77.6	82.0	4.4			
82.0	114.5	Highly fractured dioritic breccia aphanitic, mildly chloritic, occasional quartz carbonate infilling along fractures at various angles to C.A., occasional short 6" section with tr. - 1% pyrite, from 103.4 to 103.8 quartz breccia zone with 2 - 3% cp.							
		99.9 - 103.8 1 - 2% py + cp	0045	99.9	103.8	3.9			
114.5	123.3	Alteration zone, gradational contact between dioritic breccia and granodioritic breccia, increase in potassium feldspar over length							
123.3	133.0	Granodiorite breccia with 4-1/2" quartz veins, moderately chloritic along fracture seams.							
		123.3 - 128.3 tr - 1% py	0046	123.3	128.3	5.0			
		128.3 - 133.0 tr - 1% py	0047	128.3	133.9	4.7			

FROM	TO	DESCRIPTION	ANALYTICAL RESULTS						
			SAMPLE	FROM	TO	LENGTH	Cu(ppm)	Zn(ppm)	Ag(ppm)
259.0	283.4	Granodiorite medium grained phaneritic potassium feldspars are predominate giving overall greyish appearance, minor chloritization, numerous quartz veins throughout, assimilative dioritic masses throughout, along with disseminated sulphides.							
		259.0 - 264.0 tr 1% py + cp (1 Q.V.)	0052	259.0	264.0	5.0			
		264.0 - 269.0 1 - 3% py + cp (8 Q.V.)	0053	264.0	269.0	5.0			
		269.0 - 274.0 1 - 3% py + cp + mo (6 Q.V.)	0054	269.0	275.0	5.0			
		274.0 - 280.0 tr - 1% py + cp (4 Q.V.)	0055	274.0	280.0	6.0			
		280.0 - 283.4 tr - 1% py + cp	0056	280.0	283.4	3.4			
283.4	333.3	Diorite medium grained phaneritic sodium feldspars dominant over potassium feldspars giving overall greyish appearance, minor chloritization of biotite flecks, minor brecciation with occasional quartz veins, no sulphides							
		333.3 end of hole							

KING ERRINGTON RESOURCES INC.

INCLINATION TESTS			
DEPTH	DIP	DEPTH	DIP
COLLAR	-45		

HOLE NO: K.E. 86-6

LOCATION: Chester Twp. GRID: L. 2600S, 460'W ELEVATION:
 LENGTH: 254.1' HORIZ: 185.0' VERT: 185.0' AZIMUTH: 225 CORE SIZE: BQ
 RECOVERY: 95% LOGGED BY: Neil Novak DATE: September 9 1994

PROJECT:
 STARTED:
 FINISHED:

FROM	TO	DESCRIPTION	ANALYTICAL RESULTS						
			SAMPLE	FROM	TO	LENGTH	Cu (ppm)	Zn (ppm)	Ag (ppm)
0	16.5	Overburden							
16.5	53.2	Felsic pyroclastic tuff, well foliated with numerous cherty quartz beds which are very thin, mildly fractured at 36.0 feet minor carbonate beds (tuffaceous) which are highly brecciated, with individual beds crenulated and warped, extremely cherty at 41.0 to 42.2							
53.2	87.9	sharp contact with above unit, medium grained diorite breccia, with occasional narrow quartz vein with sodium feldspar prevalent, fracture zone at 74.3 to 78.2 with minor sulphides.							
		61.0 - 67.0 1 - 2% cp + py (Q.V. + ank)	0057	61.0	67.0	6.0			
		67.0 - 71.0 1 - 2% cp + py (2 Q.V. + ank)	0058	67.0	71.0	4.0			
		74.3 - 78.2 1 - 2% py	0059	74.3	78.2	3.9			
87.9	90.0	Quartz vein with tr. - 1% cp, plus assimilated diorite, highly chloritic							
		87.9 - 90.0 tr - 1% cp	0060	87.9	90.0	2.1			
90.0	110.5	Diorite, medium grained phaneritic, mildly chloritic along fractures.							
		98.5 - 103.0 1 - 2% py + cp + asp	0061	98.5	103.0	4.5			
110.5	110.7	mafic tuff inclusion							
110.7	111.0	brecciated fractured diorite with 2-3% cp							
111.0	112.3	very fine grained aphanitic diorite							
112.3	119.8	medium grained phaneritic dioritic breccia with abundant sulphides throughout, highly silicious, quartz vein at 118.0							
		112.3 - 117.0 2 - 3% cp + py	0062	112.3	117.0	4.7			
		117.0 - 119.8 5 - 10% cp + py	0063	117.0	119.8	2.8			
119.8	127.8	Intermediate pyroclastic tuff, well foliated, bedding slightly disrupted extremely chloritic on both assimilative contacts top and bottom.							

FROM	TO	DESCRIPTION	ANALYTICAL RESULTS						
			SAMPLE	FROM	TO	LENGTH	Cu (ppm)	Zn (ppm)	Ag (ppm)
127.8	140.3	Medium grained phaneritic dioritic breccia, with minor pyrite as individual flek. slightly chloritic. quartz vein at 130.1"							
140.3	141.2	Intermediate pyroclastic tuff well foliated with minor carbonate beds and an occasional flek of pyrite.							
141.2	185.7	Medium grained phaneritic diorite, bleached (altered) at top of unit, generally increasing in chlorite alteration and crystal size Short granodioritic section at 150.1 to 151.2, occasional flek pyrite throughout and along fractures.							
185.7	196.1	Intermediate pyroclastic tuff inclusion with highly contorted carbonate rich beds.							
196.1	212.0	Medium grained phaneritic diorite, moderately fractured, and slightly chloritic, one 2" quartz vein at 201.8 with speck cp. 201.0 - 203.0 tr cp (Q.V.)	0064	201.0	203.0	2.0			
212.0	219.0	medium grained granodiorite, moderately fractured with three minor 2" quartz veins and an occasional flek of pyrite throughout.							
219.0	254.1	Medium grained phaneritic diorite, mildly fractured throughout with an occasional flek pyrite.							
		234.3 - 239.3 1 - 2% py	0065	234.3	239.3	5.0			
		239.3 - 244.6 4 - 5% py + cp (last 6" 20% cp + py in Q.V.)	0066	239.3	244.6	5.3			
		244.6 - 248.6 1 - 2% py + cp	0067	244.6	248.6	4.0			
		248.6 - 251.6 2 - 3% py + cp	0068	248.6	251.6	3.0			
		254.1 end of hole							

KING EPRINGTON RESOURCES INC.

INCLINATION TESTS					
DEPTH	DIP	DEPTH	DIP	DEPTH	DIP
COLLAR	-45				

HOLE NO: K.E. 86-7

LOCATION: Chester Twp; **GRID:** L. 2800S, 140W **ELEVATION:** _____ **PROJECT:** _____
LENGTH: 264.0' **HORIZ:** 190' **VERT:** 190' **AZIMUTH:** 045 **CORE SIZE:** BQ **STARTED:** _____
RECOVERY: 95% **LOGGED BY:** Neil Novak **DATE:** September 9, 1986

FROM	TO	DESCRIPTION	ANALYTICAL RESULTS						
			SAMPLE	FROM	TO	LENGTH	Cu (ppm)	Zn (ppm)	Ag (ppm)
0	52.0	Overburden							
52.0	142.5	Medium grained phaneritic diorite, mildly fractured, slightly chloritized along fracture, most biotite altered to chlorite. Sodium feldspars dominant as grey ragged crystals, potassium feldspars forming aphanitic groundmass, minor quartz carbonate veinlets along fractures. Trace of pyrite at 56.3 to 56.4, minor shear zone at 83.0 to 84.5, 1/2" quartz vein at 111.0, 113.1, & 113.8, no sulphides apparent. Tr. pyrite at 136.0							
142.5	173.0	Brecciated medium grained phaneritic diorite, moderately chloritized, potassium feldspars becoming more dominant, numerous fractures cross-cutting core axis. From 171.0 to 173.0 highly fractured shear zone.							
173.0	177.7	Altered intermediate tuff, well foliated aligned parallel to C.A. extremely fractured, with minor quartz (175'), and tuffaceous beds which are slightly crenulated.							
177.7	226.8	Medium grained phaneritic diorite, with short silicified granodiorite sections, moderate to strong chloritization throughout. Occasional flek of pyrite, mildly brecciated. 191.8 - 194.2 tr - 1% py	0069	191.8	194.2	2.4			
226.8	227.3	Intermediate tuff xenolith							
227.3	233.3	Medium grained diorite (as above 177.7 to 226.8)							
233.3	234.6	Intermediate tuff xenolith							
234.6	264.0	Medium grained diorite, chloritic along fractures. 264.0 end of hole							

KING SPRINGTON RESOURCES INC.

INCLINATION TESTS			
DEPTH	DIP	DEPTH	DIP
COLLAR	-60		

HOLE NO: K.E. 86-8

LOCATION: Chester Twp. GRID: L.2600S, 940'W ELEVATION:
 LENGTH: 194.7' HORIZ: 95' VERT: 165.0' AZIMUTH: 225 CORE SIZE: BQ
 RECOVERY: 95% LOGGED BY: Neil Novak

PROJECT:
 STARTED:
 FINISHED:

FROM	TO	DESCRIPTION	ANALYTICAL RESULTS						
			SAMPLE	FROM	TO	LENGTH	Cu (ppm)	Zn (ppm)	Ag (ppm)
0	13.2	Overburden							
13.2	43.5	Medium grained phaneritic diorite with numerous fractures near top, oxide stained (surface weathering) unit slightly brecciated and chloritized, small clots chalcopryrite at 18.5' over 2", narrow quartz vein at 31.3, minor sulphides along fractures narrow 1" quartz vein at 41.3' with minor chalcopryrite.							
		17.5 - 19.5 tr - 1% cp	0070	17.5	19.5	2.0			
43.5	54.0	altered felsic to intermediate pyroclastic tuff mildly fractured, poorly foliated, mildly chloritic.							
54.0	85.8	medium grained phaneritic diorite breccia with short fine grained aphanitic diorite sections (63.0 to 66.0) short granodioritic sections, 2" quartz vein at 56.1 with 1% chalcopryrite.							
		54.0 - 56.4 tr - 1% cp	0071	54.0	56.4	2.4			
		79.7 - 84.8 1 - 2% cp	0072	79.7	84.8	5.1			
85.8	86.1	Mafic tuff inclusion, with abrupt assimilative contacts.							
86.1	87.7	Medium grained phaneritic diorite breccia as above (54.0 to 85.8)							
87.7	88.5	Mafic ash tuff xenolith							
88.5	139.0	Intermediate to felsic pyroclastic tuff, poorly foliated, individual quartz clasts appear aligned along individual beds, first ten feet altered (sericitized) and mildly fractured, narrow 2" chert bed at 90.6 with minor chalcopryrite.							
		105.0 - 108.4 tr - 1% cp	0073	105.0	108.4	3.4			
		125.0 - 128.0 2 - 3% py + cp	0074	125.0	128.0	3.0			
		128.0 - 132.0 2 - 3% py + cp	0075	128.0	132.0	4.0			
		136.4 - 139.0 3 - 5% py + cp	0076	136.4	139.0	2.6			
139.0	151.0	Intermediate ash tuff with contorted carbonate interbeds with							

KING ERRINGTON RESOURCES INC.

INCLINATION TESTS			
DEPTH	DIP	DEPTH	DIP
COLLAR	-60		

HOLE NO: K.E. 86-9

LOCATION: Chester Twp. **GRID:** L.2500S, 980W **ELEVATION:**
LENGTH: 185.0' **HORIZ:** 90' **VERT:** 165 **AZIMUTH:** 225 **CORE SIZE:** BQ **PROJECT:**
RECOVERY: 95% **LOGGED BY:** Neil Novak **DATE:** September 10, 1986 **STARTED:**
FINISHED:

FROM	TO	DESCRIPTION	ANALYTICAL RESULTS						
			SAMPLE	FROM	TO	LENGTH	Cu (ppm)	Zn (ppm)	Ag (ppm)
0	13.2	Overburden							
13.2	23.5	Medium grained phaneritic diorite breccia with sodium feldspar crystals dominant throughout, minor fracturing with surface oxidation along fractures.							
23.5	24.3	Fine grained intermediate to felsic ash tuff well foliated at 60 C.A.							
24.3	69.5	Medium grained phaneritic diorite with some evidence of alignment of sodium feldspar crystals with small quartz carbonate veinlets 2 - 3" wide totalling four.							
69.5	72.2	medium grained diorite with assimilative contacts with quartz vein at 70.0 containing 3 - 4% chalcopyrite.							
		69.5 - 72.2 2 - 4% cp + py	0079	69.5	72.2	2.7			
72.2	75.0	Altered felsic to intermediate tuff and breccia with minor pyrite throughout with short cherty sections.							
		72.2 - 75.0 1 - 2% cp + py	0080	72.2	75.0	2.8			
75.0	78.4	medium grained diorite, mildly chloritized.							
78.4	127.4	Fine grained intermediate tuff with poor foliation and contorted carbonate beds, with occasional fleks of euhedral pyrite throughout.							
127.4	144.2	Fine grained felsic pyroclastic tuff altered with short sulphide rich breccia zones.							
		127.4 - 131.4 2 - 3 % cp + py	0081	127.4	131.4	4.0			
144.2	155.5	Medium grained phaneritic diorite breccia, with biotite being altered to chlorite, minor short sections with pyrite and chalcopyrite infilling along fractures.							
		149.2 - 152.5 1 - 2% py + cp	0082	149.2	152.2	3.0			

FROM	TO	DESCRIPTION	ANALYTICAL RESULTS						
			SAMPLE	FROM	TO	LENGTH	Cu(ppm)	Zn(ppm)	Ag(ppm)
155.5	155.8	Intermediate ash tuff xenolith.							
155.8	161.7	Medium grained phaneritic diorite breccia as above (144.2 to 155.5)							
161.7	165.1	Quartz carbonate vein, abrupt contacts. 161.7 - 165.1 tr - 1% cp	0083	161.7	165.1	3.4			
165.1	185.0	Medium grained phaneritic diorite with minor white quartz vein at 167.2 to 168.0 crossing core at 20 C.A. approximately 1" wide. 185.0 end of hole.							

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INCLINATION TESTS					
DEPTH	DIP	DEPTH	DIP	DEPTH	DIP
COLLAR	-55				

HOLE NO: K.E. 86-10

LOCATION: Chester Twp. GRID: L.2700s, 950'W ELEVATION:
 LENGTH: 184.8 HORIZ: VERT: AZIMUTH: 225 CORE SIZE: BQ
 RECOVERY: 95% LOGGED BY: Neil Novak DATE: September 11, 1986

PROJECT:

STARTED:

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	ANALYTICAL RESULTS						
							Cu (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)			
0	6.6	Overburden											
6.6	32.4	Medium grained phaneritic slightly chloritic mildly fractured diorite with oxide staining along fractures for first fifteen feet, unit is mildly brecciated with occasional narrow quartz carbonate veinlets as at 24.0 to 24.3 and 31.3 to 31.5.											
32.4	59.8	Medium grained granodiorite phaneritic with potassium feldspars dominant over sodium feldspars, occasional quartz carbonate veinlets with a minor plagioclase veinlet at 42.6 transecting core, rock unit changes to diorite over short sections.											
		36.4 - 39.6 1 - 2% py	0084	36.4	39.6	3.2							
		57.5 - 59.8 1 - 2% py + asp	0085	57.5	59.8	2.3							
59.8	92.7	medium grained diorite phaneritic breccia, moderately chloritic with occasional flek of pyrite. From 90.8 to 91.8 minor py along fractures											
92.7	93.7	Intermediate tuff and breccia well foliated with contorted beds, kink and sinuously folded.											
93.7	95.2	Medium grained diorite as above (59.8 to 92.7)											
95.2	97.2	Intermediate tuff, well foliated at 65 C.A.											
97.2	115.0	Medium grained diorite breccia, with a minor sulphide zone.											
		97.2 - 100.4 tr - 1% py	0086	97.2	100.4	3.2							
115.0	136.6	Intermediate tuff with carbonate beds contorted and discontinuous, roughly aligned at 60 C.A.											
136.6	149.0	Medium grained dioritic breccia, extremely chloritic with ragged chlorite fragments aligned at 60 C.A. (possible pyroclastic tuff) with occasional flek pyrite throughout.											
		140.8 - 144.0 tr - 1% py	0087	140.8	144.0	3.2							

KING EPPINGTON RESOURCES INC.

INCLINATION TESTS			
DEPTH	DIP	DEPTH	DIP
COLLAR	-45		

HOLE NO: K.E. 86-11

LOCATION: Chester Twp. **GRID:** L.2600S, 940W **ELEVATION:**
LENGTH: 155.1 **HORIZ:** 105' **VERT:** 105 **AZIMUTH:** 225 **CORE SIZE:** BQ
RECOVERY: 95% **LOGGED BY:** Neil Novak **DATE:** 11/11/2006

PROJECT:
STARTED:
FINISHED:

FROM	TO	DESCRIPTION	ANALYTICAL RESULTS						
			SAMPLE	FROM	TO	LENGTH	Cu (ppm)	Zn (ppm)	Ag (ppm)
0	13.2	Overburden							
13.2	41.9	Medium grained phaneritic diorite, highly brecciated and fractured with surface oxidation down to 26.4 feet core length., occasional flek pyrite throughout.							
		31.0 - 37.0 2 - 3% py. + cp	0088	31.0	37.0	6.0			
41.9	56.3	Altered intermediate to felsic lapilli tuff with quartz clasts randomly oriented in the tuffaceous matrix, slightly sericitic with small quartz vein at 52.5 to 52.9 and at 56.2 to 56.3							
56.3	89.9	Medium grained phaneritic diorite breccia.							
89.9	110.5	Fine grained felsic to intermediate tuff, foliated at 70 C.A.							
		92.0 - 95.0 3 - 4% cp	0089	92.0	95.0	3.0			
110.5	131.7	Intermediate ash tuff with numerous carbonate beds highly contorted and discontinuous.							
131.7	155.1	Medium grained diorite, mildly chloritic.							
		155.1 end of hole.							

APPENDIX III

Work Program December 3 to December 17, 1986
-Trenching, Mapping, Sampling, Bulk Sampling
-Assay Certificates

MEMO TO: Mr. George Ferry and Mr. Neil Novak
MEMO FROM: Mr. Joe Bankowski, B.Sc (Geologist)
Date: December 20, 1986
RE: KING ERRINGTON RESOURCES LTD.
TYSTAR PROPERTY, GOGAMA, ONTARIO
PROGRAM DESCRIPTION, DECEMBER, 1986

A short program of bulldozer stripping, rock-trenching, sampling and geology was conducted by J. Bankowski and R. Leliever during the period December 8 to 15 inclusive. A 2 to 3 ton bulk sample was also removed for metallurgical analysis and will be submitted in the near future.

A total area of approximately 400' by 150' was stripped by a D-7 bulldozer yielding a total exposure of about 350' by 70' centered on the zone of mineralization (Figure 1). The bulldozer was contracted from Pioneer Constr., Sudbury and completed a total of 30 hours machine and operator time.

Subsequent to the D-7 stripping, a total of 6 trenches were blasted across the mineralized structure at a spacing of roughly 75 feet and covering a section of about 450 feet in length. A total of 23 rock-chip samples were taken from the trenches and immediate area and were submitted for assay for Au, Ag and Cu.

A representative bulk sample estimated at 2 to 3 tons in weight was removed from the northernmost trench (T-"A") and stored at the C.G.M. camp.

A baseline with 50 foot intervals was established on and parallel to the mineralized zone at a bearing of 148° Azimuth (6° W declin.) to aid in accurate trench and sample locations and mapping.

TRENCH AND SAMPLE DESCRIPTIONS

1 T-"A" (BL-0406S)

This trench has a total length of about 14 feet at an average depth of 2' and strikes at 64° Azimuth. Four (4) chip-channel samples and 3 selected samples were taken from this trench as follows:

Sample #457 - selected sample of quartz with abundant disseminated to massive clots of chalcopyrite, arsenopyrite, bornite, pyrite and chalcocite over the main shear zone and representing a width of about 4".

Sample #458 - same as last sample but with less quartz and more sulphides.

Sample #459 - selected sample of dense, extremely carbonatized material with abundant sulphides adjacent to samples 457 and 458 in the hanging (east) wall and representing about 8" in width.

Sample #465 - continuous channel sample over 1.6' of main shear zone composed of heavily carbonate and silica altered material with abundant disseminated to massive cpy., arsenopy., born., py and chalcocite. Last 4" (next to hanging-wall) of quartz and sulphides.

Sample #466 - continuous channel sample over 1.8' of hanging-wall, east of 1st sample. Sample is highly carbonatized adjacent to shear grading to more silicious, less carbonaceous away from shear. Sulphides are abundant in the carbonaceous material and drop off in quantity with increasing silicification away from the shear.

Sample #467 - discontinuous chip sample over 6.0' of hanging-wall. Moderate sulphides and moderate carbonitization closest to shear grading to siliceous and with minor sulphides away from shear.

Sample #468 - discontinuous chip sample over 4.5' of foot-wall west of main shear (465). Carbonaceous with abundant sulphides grading to siliceous with minor sulphides away from main shear.

2. T-"B" (BL-1432S)

This trench has a total length of about 17 feet with a depth of about 2 feet and a strike of 56° Azimuth.

One (1) selected sample and 3 chip samples were taken from this trench as follows:

Sample #460 - selected sample of quartz with abundant sulphides from main shear representing a width of about 4".

Sample #469 - discontinuous chip sample over 3.7' of main shear zone. Carbonaceous and silicious with abundant sulphides. Quartz with sulphides about 4" thick near center of sample.

Sample #470 - discontinuous chip sample over 6.1' of hanging-wall, east of 1st sample. Carbonaceous with abundant sulphides grading to more siliceous with less sulphides away from main shear.

Sample #471 - discontinuous chip sample over 6.9' of footwall, west of main shear. Carbonaceous with moderate sulphides grading to more siliceous with less sulphides away from main shear.

3. T-"C" (BL-2405S)

This trench is about 13.5 feet long, 2 feet deep and trends at 60° Azimuth.

One (1) selected sample and 3 chip samples were taken from this trench as follows:

Sample #461 - selected sample of quartz with abundant sulphides on the main shear representing a width of about 3-4".

Sample 472 - discontinuous chip sample over 2.2' of main shear. Carbonaceous with abundant to moderate sulphides. Quartz with sulphides over 3-4" near center of sample.

Sample #473 - discontinuous chip sample over 4.5' of hanging-wall east of

main shear. Carbonaceous with moderate sulphides closest to shear grading to siliceous with minor sulphides away from shear.

Sample #474 - discontinuous chip sample over 6.8' of footwall west of shear. Carbonaceous with minor to moderate sulphides grading to silicious with minor sulphides away from shear.

4. T-"D"

This trench is about 14.5 feet long by 2 feet deep and trends at 81° Azimuth.

One (1) selected sample and 3 chip samples were taken from this trench as follows:

Sample #462 - selected sample of main shear. Some quartz and sulphide.

Sample #475 - discontinuous chip sample over 2.2' of main shear. Moderate to weak shearing and mineralization.

Sample #476 - discontinuous chip over 2.0' of hanging-wall. Rock has "layered" appearance and abundant ankerite between the layers.

Sample #477 - discontinuous chip sample over 10.4 feet of footwall. Massive fine-grained, siliceous with minor sulphides.

5. T-"E"

This trench is about 10.5 feet long by 2 feet deep and trends at 48° Azimuth.

The shear at this location has weakened considerably and only one sample was taken as follows:

Sample #478 - discontinuous chip sample over 10.4 feet. Shear and sulphide mineralization fairly weak. Very siliceous with abundant ankerite.

6. T"F" (BL-442S)

This trench is about 10.0 feet long by 2 feet deep and trends at 56° Azimuth.

Again, the shear and mineralization at this area were weak and only two samples were taken as follows:

Sample #463 - selected sample of main shear and representing about 3" width. Some quartz with minor sulphides.

Sample #479 - discontinuous chip sample over 9.9 feet. Shear and mineralization weak.

7. Sample #464 - selected sample of main shear taken at 0405E-4480S shear and mineralization fairly weak. Little quartz, lots of ankerite.

GEOLOGY

The following is a brief description of the geology as noted in T-"A".

The mineralization in T-"A" appears to be related to shearing which strikes at 148° and dips 65-70° East. Vertical jointing at a strike of 44° was also noted. Displacement along the shear is hard to establish but the geometry of the old trench present gives the impression that the hanging wall has been slightly uplifted and slickensides were noted.

The host-rock appears to be a quartz-diorite which tends to be medium to coarse grained with heavy quartz and sulphide alteration at the focus of the shear over about 3-4" with a vein-like appearance grading to medium to fine-grained with heavy carbonate and sulphide mineralization for several feet in the hanging-wall and foot-wall of the main shear. Carbonate alteration seems best developed in the hanging-wall to the shear and in both hanging and foot-wall, grades to more silicious with less sulphides away from the shear.

The Au-bearing mineralization appears to be "poddy" and lens-like and could be described as "shoots".

The author has worked in the general area for several years and empirical observation of numerous occurrences suggests that this mineralization is structurally controlled.

Mineralization is virtually always in shear-zones trending at 90 to 150° Azimuth roughly parallel to the regional strike and seems most intense where intersected by faults trending at 150 to 170° Azimuth parallel to the Lake Mesomikenda Fault. These faults are often occupied by diabase dikes.

submitted by:

M. Bankowski
M. Bankowski, B.Sc., Dec. 22, 1986

MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 or (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of ASSAY

Company: KING- ERINGTON RESOURCES LTD.

Project:

Attention: G. FERRY

File: 62-648

Date: DEC 24/66

Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON	CU %
457	84.0	2.45	1.30	0.038	4.130
458	80.0	2.33	1.46	0.043	3.680
459	11.5	0.34	0.68	0.020	0.680
460	28.0	0.82	0.83	0.024	2.240
461	3.6	0.11	0.26	0.008	0.165
462	0.6	0.02	0.01	0.001	0.113
463	0.4	0.01	0.02	0.001	0.054
464	0.2	0.01	0.01	0.001	0.038
465	72.0	2.10	0.72	0.021	4.890
466	0.6	0.02	0.01	0.001	0.105
467	0.2	0.01	0.01	0.001	0.019
468	3.0	0.09	0.90	0.026	0.174
469	8.5	0.25	0.40	0.012	0.690
470	0.3	0.01	0.01	0.001	0.081
471	0.2	0.01	0.01	0.001	0.010
472	3.9	0.11	0.28	0.008	0.195
473	0.5	0.01	0.05	0.001	0.057
474	1.4	0.04	0.02	0.001	0.020
475	1.9	0.05	0.01	0.001	0.057
476	1.6	0.05	0.01	0.001	0.025
477	0.4	0.01	0.02	0.001	0.090
478	0.2	0.01	0.01	0.001	0.013
479	0.2	0.01	0.01	0.001	0.011

Handwritten signature/initials

Certified by

Handwritten signature

MIN-EN LABORATORIES LTD.

APPENDIX IV

Work Program January 6 to January 8, 1987
-Bulk Sample Analysis

DETERMINATION OF

THE GOLD CONTENT

of a bulk sample

submitted by

King Errington Resources

Project No. L. R. 3265

NOTE:

This report refers to the samples as received.

The practice of this Company in issuing reports of this nature is to require the recipient not to publish the report or any part thereof without the written consent of Lakefield Research.

LAKEFIELD RESEARCH
A DIVISION OF FALCONBRIDGE LIMITED
February 3, 1987

I N T R O D U C T I O N

This report contains the results of gold content determinations conducted by cyanidation on a bulk sample submitted by King E rington Resources Limited. The testwork was authorized in a lett r dated January 13, 1987 from Mr. G. Ferry.

LAKEFIELD RESEARCH



R. S. Salter

General Manager



K. W. Sarbutt

Chief Project Engineer

Experimen al Work by: R. G. Irwin

S U M M A R Y

The calculated heads obtained from the four cyanide leach tests on the individual 30 kg ore samples are as follows:

Sample No.	Assays, g/t, %					% Extraction	
	Calculated Head			Residue		Au	Ag
	Au	Ag	Cu	Au	Ag		
1	0.82	19.4	1.00	0.20	10.3	75.6	46.8
2	1.15	14.9	0.83	0.17	6.4	85.1	56.9
3	1.43	16.4	0.89	0.17	6.4	88.1	61.0
4	0.90	19.7	1.00	0.25	14.3	72.3	27.6
Average	1.07	17.6	0.93	0.22	9.35	80.3	48.1

The results indicate an average assay of 1.07 g/t Au, 17.6 g/t Ag and 0.93 % Cu.

The individual cyanide leach test residue assays and total extractions are tabulated above showing average residue assays of 0.22 g/t Au, and 9.35 g/t Ag with extractions of 80.3 % and 48.1% respectively.

The reagent consumptions for the four cyanidation tests were similar with average values of 3.86 kg/t NaCN and 0.40 kg/t CaO.

SAMPLE PREPARATION

On January 8, 1987, a sample was received at Lakefield Research and given our Reference No. L.R. 8727139.

The Sample consisted of two parts:

- a) A large bulk low-grade sample of 2300 kg
- b) A small drum containing high grade ore weighing 97.8 kg

The sample was initially crushed to minus 8 cm in a large jaw crusher followed by crushing in a Hazemag impact crusher in closed circuit with a 6.7 mm screen.

The crushed sample was mixed well and riffled into halves with one half riffled down to four samples each containing 1/8 of the original material.

The 1/8 samples of bulk ore were individually riffled down to produce samples of approximately 50 kg.

The minus 10 mesh samples were mixed individually and a 30 kg test charge was riffled from each as feed to the bulk cyanidation tests.

DETAILS OF TESTS

Test Nos. 1 to 4

Purpose: To determine the gold content of ore samples.

Procedure: The samples were ground and transferred to large plastic vessels and adjusted to 38 % solids. The pH was adjusted to 11.0 with lime and the cyanide level maintained at 2 g/pl. Activated carbon was contacted with the pulp for the final 16 h. After 77 h the carbon was removed by screening and a representative pulp sample removed.

Feed: 30 kg Samples No. 1, 2, 3, and 4

Solution Volume: 50 L Pulp Density 38 % solids

Solution Composition: 2 g/L NaCN

pH Range: 11.0 with Ca(OH)₂

Grind: 30 kg for 90 minutes at 65 % solids in large ball mill

Reagent Balance:

Time Hours	Added, Grams				Residual		Consumed		pH
	Actual NaCN	Actual Ca(OH) ₂	Equivalent NaCN	Equivalent CaO	Grams NaCN	Grams CaO	Grams NaCN	Grams CaO	
0 -16	105	30	100	22	5	-	95	-	11.0-11.3
16 -30	100	-	95	-	50	-	50	-	11.2
30 -48	13	-	50	-	52	2	48	20	11.2
900 grams of carbon (preattritioned) was added for the last 16 hours.									
Total	-	-	245	-	52	-	193	20	

Reagent Consumption (kg/t of cyanide feed) NaCN: 3.86 CaO: 0.40

Metallurgical Results

Sample No.	Product	Amount	Assays, mg/L, g/t, %					% Distribution		
			Au			Ag	Cu	Au	Ag	Cu
			1	2	Average					
1	Carbon	807.7g	22.8	22.7	22.8	332	0.34	75.0	46.2	0.9
	Barrick	45.7L	-	-	0.003	0.08	1,030	0.6	0.6	15.8
	Residue	30.0 kg	0.23	0.16	0.20	10.3	0.83	24.4	53.2	83.3
	Head (Calc.)	30.0 kg	-	-	0.82	19.4	1.00	100.0	100.0	100.0
2	Carbon	897.2 g	33.0	32.0	32.5	279	0.13	84.7	56.1	0.5
	Barrick	50. L	-	-	0.003	0.07	700	0.4	0.8	14.0
	Residue	30 kg	0.20	0.14	0.17	6.4	0.71	14.9	43.1	85.5
	Head (Calc.)	30 kg	-	-	1.15	14.9	0.83	100.0	100.0	100.0
3	Carbon	826.6g	45.7	45.1	45.4	355	0.25	87.3	59.8	0.8
	Barrick	48 L	-	-	0.007	0.12	962	0.8	1.2	17.3
	Residue	30 kg	0.18	0.16	0.17	6.4	0.73	11.9	39.0	81.9
	Head (Calc.)	30 kg	-	-	1.43	16.4	0.89	100.0	100.0	100.0
4	Carbon	826.2 g	17.5	17.0	17.3	191	0.29	53.0	26.7	0.8
	Barrick	57.8 L	-	-	0.09	0.09	760	19.3	0.9	14.6
	Residue	30 kg	0.27	0.23	0.25	14.3	0.85	27.7	72.4	84.6
	Head (Calc.)	30 kg	-	-	0.90	19.7	1.00	100.0	100.0	100.0

Average Head

Au g/t
Ag g/t
Cu %

1.07 = .038 g/t
17.6 = .620 g/t
0.93 = 18.6 lbs

15.20
3.41
11.92
230.51 / 15

LAKEFIELD RESEARCH
A DIVISION OF FALCONBRIDGE LIMITED
February , 1987

Screen Analysis

Sample No. 1 Barren Pulp Residue

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
100	0.1	0.1	99.9
150	1.1	1.2	98.8
200	4.2	5.4	94.6
270	8.4	13.8	86.2
400	11.6	25.4	74.6
400	74.6	100.0	-
Total	100.0	-	-

Sample No. 2 Barren Pulp Residue

65	0.1	0.1	99.9
100	0.2	0.3	99.7
150	1.1	1.4	98.6
200	4.8	6.2	93.8
270	8.9	15.1	84.9
400	11.6	26.7	73.3
400	73.3	100.0	-
Total	100.0	-	-

Sample No. 3 Barren Pulp Residue

65	0.1		99.9
100	0.1	0.2	99.8
150	0.6	0.8	99.2
200	3.1	3.9	96.1
270	7.9	11.8	88.2
400	11.5	23.3	76.7
400	76.7	100.0	-
Total	100.0	-	-

Sample No. 4 Barren Pulp Residue

100	0.1	0.1	99.9
150	0.7	0.8	99.2
200	3.6	4.4	95.6
270	8.2	12.6	87.4
400	11.9	24.5	75.5
400	75.5	100.0	-
Total	100.0	-	-

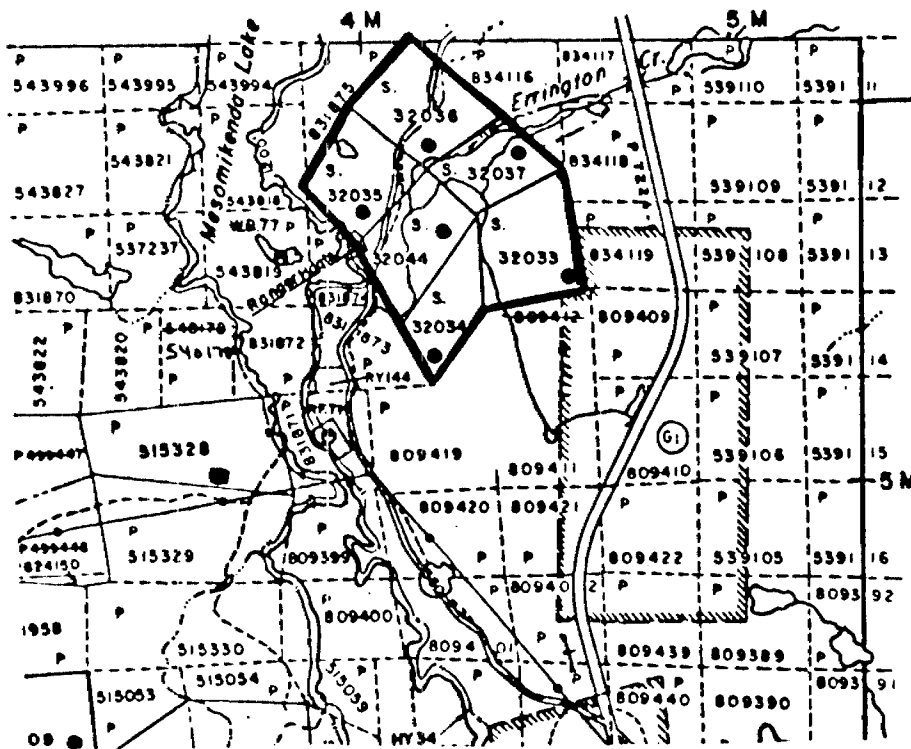


FIGURE 1 PROPERTY DESCRIPTION

TOWNSHIP

CHESTER

M.N.R. / ADMINISTRATIVE DISTRICT

GOGAMA

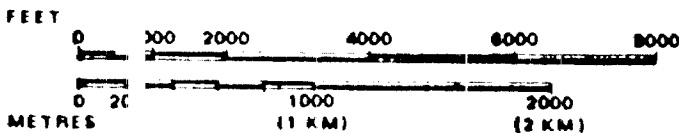
MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

SADBURY

SCALE: 1 INCH = 40 CHAINS



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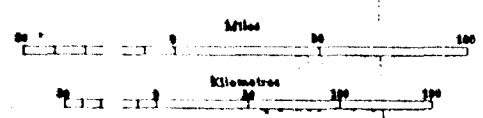


FIGURE 2
LOCATION PLAN

Ontario Geological Survey Map 2389

ONTARIO

GEOLOGY AND PRINCIPAL MINERALS



NOMINEX

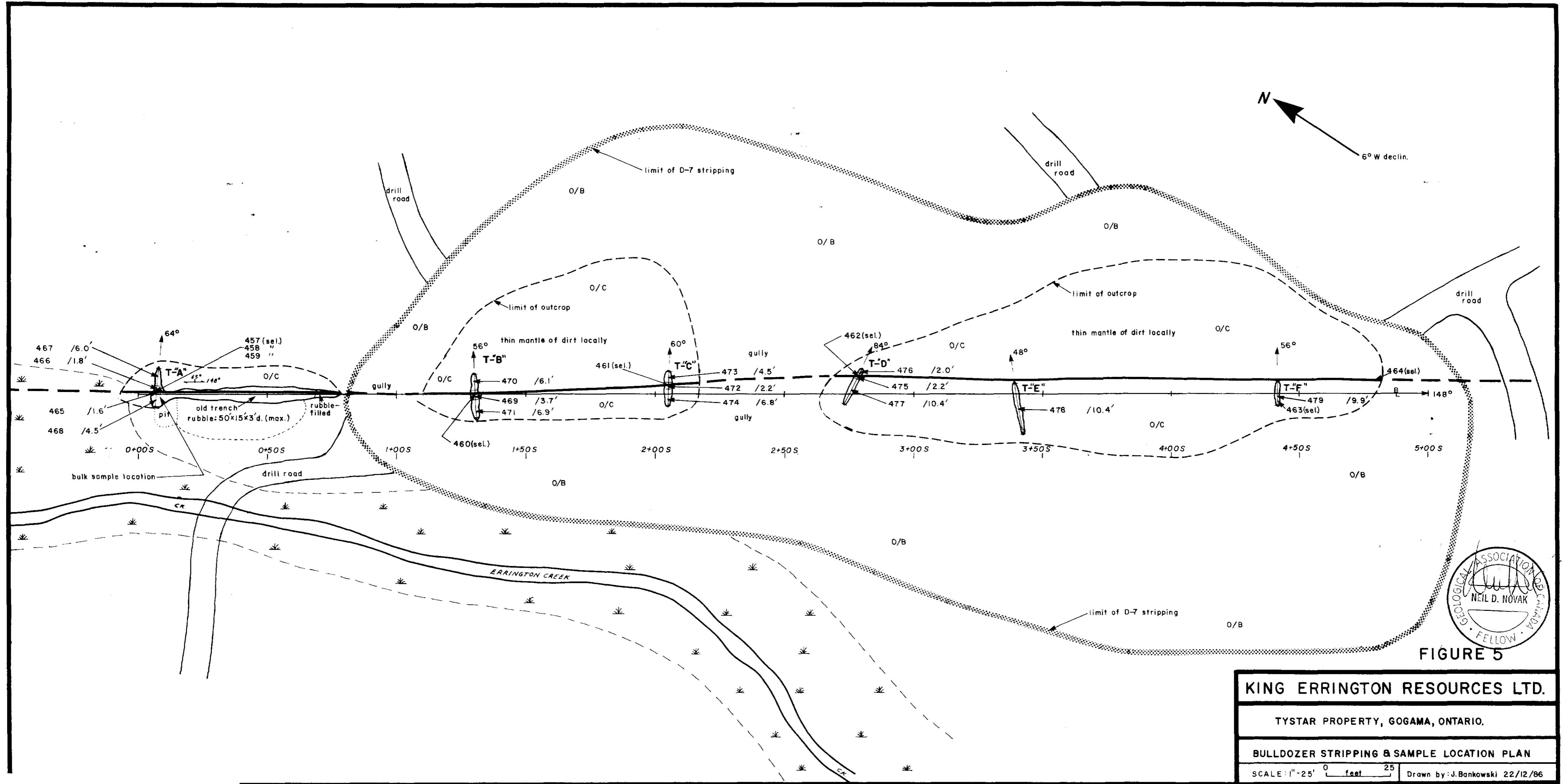
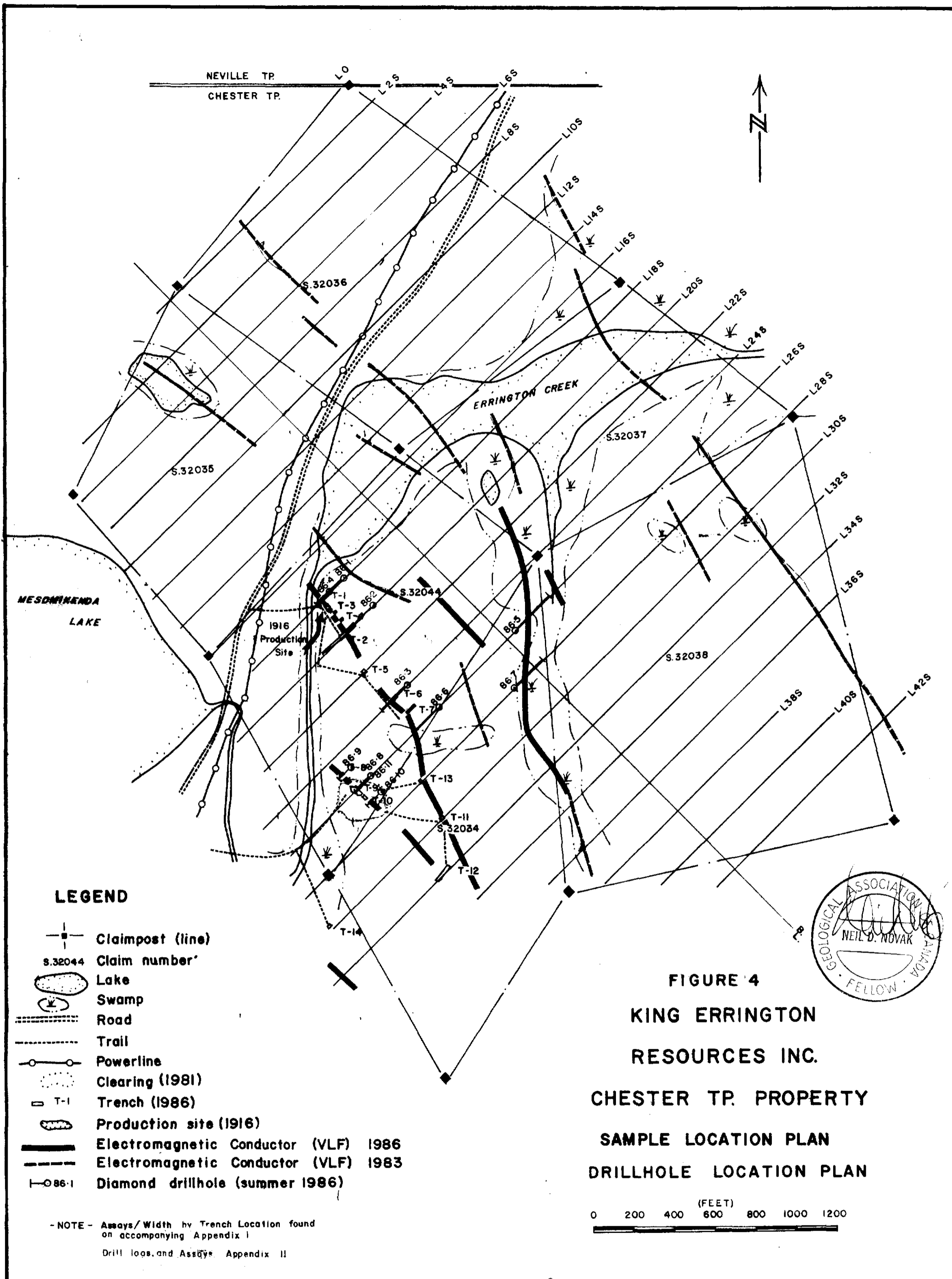


FIGURE 5

KING ERRINGTON RESOURCES LTD.	
TYSTAR PROPERTY, GOGAMA, ONTARIO.	
BULLDOZER STRIPPING & SAMPLE LOCATION PLAN	
SCALE: 1" = 25' $\frac{0}{25}$ feet	Drawn by: J. Bankowski 22/12/86

0M86-5-C-125 63.4897





LEGEND

- Claimpost (line)
- Claim number' S.32044
- Lake
- Swamp
- Road
- Trail
- Powerline
- Clearing (1981)
- T-1 Trench (1986)
- Production site (1916)
- Electromagnetic Conductor (VLF) 1986
- Electromagnetic Conductor (VLF) 1983
- Diamond drillhole (summer 1986) 86-1

-NOTE- Assays/Width by Trench Location found on accompanying Appendix I
 Drill logs and Assays Appendix II

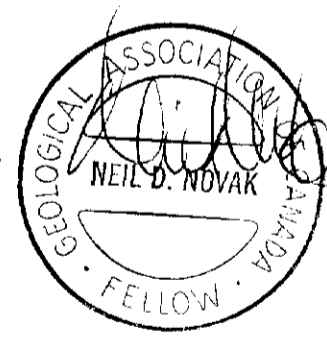


FIGURE 4
KING ERRINGTON
RESOURCES INC.
CHESTER TP. PROPERTY
SAMPLE LOCATION PLAN
DRILLHOLE LOCATION PLAN



OM86-5-C-125
 63.4897

DRAWN: N. NOVAK, JUN. 86



