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52J02NE0037 52J02NE0051 BECKINGTON LAKE

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BECKINGTON PROJECT

BECK 1 AND BECK 2 CLAIM GROUP

SAVANT LAKE AREA, ONT.

RECEIVED

MAY 20 1983

MINING LANDS SECTION

April 1983

J.-J. Lefebvre

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Summary and Recommendation



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SUMMARY

In 1982, work was carried out on a large block of claims in the Beckington area, southeast of Savant Lake. The block of claims was divided in two working zones, Beck 2 to the north and Beck 1 to the south, separated by an area covered with thick sandy glacial sediments.

The Beckington claim group delineates a zone of felsic to intermediate volcanic tuffs enclosed between two thick mafic sequences. The felsic material is largely affected by hydrothermal alteration associated with local poorly developed vein-type mineralizations. Little potential is envisaged for expanding these vein-type sulfide occurrences which may be interpreted to be structurally "trapped" sulphides in the hydrothermal fluid course to the surface. There is a better potential for massive sulfide deposits at the top of the felsic sequence in spite of important reworking and erosion of the volcanics that resulted in relatively abundant epiclastic material. Taking into account the existence of very extensive hydrothermal activities associated with stringer-type sulfide accumulation containing some Cu-Zn mineralizations and local gold indications, and considering the existence of known gold deposits to the south of the mapped area, it is obvious that the Beckington area must be suggested for further exploration.

RECOMMENDATIONS

It appears that the area of Beck 1, south of the logging road where the alteration is the most intense and reaches the upper levels of the felsic volcanic pile represents the best potential of finding a Cu-Zn-Pb massive sulphide deposit. This zone also yielded some indications of possible gold concentration in the pyrite-pyrrhotite stringers.

Potential for gold mineralization also exists where the alteration rises in the geological succession and intersects the iron formation creating favorable areas for gold remobilization and concentration.

Structures such as these are supposed to exist under the glacial cover between Beck 1 and 2 may be important in providing channel ways resulting in gold being deposited in specific structural sites as economic-grade deposits.

From these considerations, the following field work could be recommended:

- More detailed geological mapping is suggested along the contact between pyroclastic and epiclastic tuffs overlying the felsic cycle to the east of Beck 1 and 2. Along this zone, and more particularly athward the eastern section of the logging road in Beck 1, where the hydrothermal alteration is the most intense and extensive, MaxMin II surveys should be completed to confirm several EM anomalies that were already detected in the area.

- In the same area, along the creek and south of the logging road, MaxMin-confirmed anomalies have been only partially probed by drill hole #9. Gold indications were detected in this hole suggesting that more drilling should be completed in order to appraise the possible extension of these mineralization indications.
- Systematic gold analyses in ppb is suggested on the surface samples along the iron formation; mainly in the areas where the formation is intersected by the hydrothermal alteration.
- Geophysical data in the area between Beck 1 and Beck 2 should be reinterpreted taking into account possible directional variations of the geological trends.

INTRODUCTION

Purpose and Scope

The purpose of the survey was to evaluate the large Beck 1 and 2 claim block which contains complexly intercalated sequences of mafic metavolcanics, intermediate to felsic fragmental rocks and minor metasediments. These volcanic rocks are locally intensely affected by hydrothermal alterations, associated with metal anomalies and occasional good values of copper and zinc.

The Beck project is an exploration program directed primarily towards the discovery of a volcanogenic, stratiform massive-sulphide type polymetallic deposit, using geological mapping, lithochemical and geophysical techniques. The Beck 1 and 2 claim block was outlined to follow and cover the felsic volcanic rocks and principally the interpreted mafic to felsic volcanic contacts.

During the course of the field season, an area of 18 square kilometers in the Beck 1 and 2 area was surveyed and sampled. Reference should be made to Figure 1, the location map, and Figures 2, 3, 4, 5 and 6, illustrating the density of sampling stations and geological observations.

Location and access

The Beck project area lies within the Wabigoon sub-province, about 3 kilometers east of Savant Lake, in the district of Thunder Bay, Northwestern Ontario.

The area of interest is approximately 4 by 25 kilometers located within the central portion to the south part of the Beckington Lake, O.G.S. map 2431. The access to this general region and the base camp is to proceed north of the Transcanada highway via Highway 599, up to Savant Lake, 130 km north of Ignace. Access to the claims is via logging roads and trails. The claims are also straddling the CN main rail line across Canada.

Geographic setting

The Beck project area lies within a region of low to very moderate relief where elevations range from 400 to 500 metres above sea level. Spruce is common throughout with little underbrush in most areas, alternating with numerous marshes and swamps. The latter being locally associated with muskeg, cedar and, less frequently, alder.

A large area between Beck 1 and Beck 2 is covered with thick sandy glacial sediments where, in the South-East section of Beck 2, several eskers were delineated. On these sandy hills, the vegetation is less dense and consists mainly of jack pine.

Personnel deployment

A field crew of two men worked on the property for a period of 3 months (between May 1982 and August 1982). Geological mapping and lithogeochemical sampling were completed, with some geophysical surveys, along base lines and traverse lines 125 meters apart. 212 lithogeochemical samples were collected in Beck 1 and 244 samples in Beck 2. All these samples were assayed at the X-Ray Assay Laboratories in Toronto for Cu, Zn, Pb in ppm; total rock analyses were completed on most of these samples. Only a few of them were assayed for Au in ppb. A large number of these samples were also prepared for microscopic examination at the UMEX Laboratory in Toronto.

Staking

The Beckington claim group, covering Beck 1 and 2, covers an area of about 25 square kilometers, measuring 12 kilometers long and 2 kilometers wide. The 201 claims, as listed in Appendix 1, were staked from April 1980 to August 1982.

EXPLORATION METHODS

Office Assessment

The initial office assessment of the Beck Project entailed the compilation of all known pertinent information on the area. Geological and topographic maps were obtained, as well as air photos for the region. This material was studied with particular emphasis on gross geological trends and lineament patterns, the results of which were used as a frame for the field geological mapping. Assessment and OGS, ODM reports and publications concerning the project area were researched and documented.

Field Procedures

The exploration camp was located at Savant Lake. The project area was explored from this base by vehicle and systematic walking along the grid lines.

Descriptions of rock samples of all outcrops encountered were summarized on standardized rock data cards; the samples were systematically etched by hydrochloric acid.

Lithochemical samples were taken at about 100 meter intervals, preferably in felsic volcanic material and at shorter interval in zones with geological or alteration contacts. In case of dubious identification, thin sections were prepared and microscopically studied. Most of these samples were analyzed for copper, zinc, and lead (in ppm) and for total rock analyses. Geochemically anomalous zones in copper, zinc, lead, silica and manganese were outlined and defined by using routine statistical techniques. A geochemical program was computed on the data collected from total rock analyses and alteration zones of different types were defined and compared with the geological interpretations and geophysical readings. Resulting targets would then be outlined and suggested for the drilling phase.

GEOLOGY

General

The understanding of the geology resulted from systematic examination of the rather abundant outcrops encountered while running the base line and the traverse lines cut at intervals of 125 meters.

Metavolcanics

Intermediate to Mafic metavolcanics

The thick sequences of mafic metavolcanics underlying to the west and superposed east to the felsic metavolcanics are well exposed immediately east of the mapped area. At that location, they consist principally of fine to coarse-grained flows, mainly basaltic in composition with rare gabbroic to dioritic intercalations. To the west of the mapped area, in the Beck 2 claim group, the outcrops are less abundant. Among the fine-grained mafic flows, some pillowed and porphyritic textures were observed. To the west of the Beck 1 claim group, the outcrops are still scarce. In this area, mafic intrusives of gabbroic to dioritic composition are quite common. The mafic metavolcanics are recrystallized to varying extents and, locally, the recrystallization is so intense, that the textures are no longer conserved. The confusion with gabbroic intrusive is then easily made.

The most common mineral assemblage is plagioclase, amphibole, chlorite, biotite, carbonate and epidote. The basicity of the plagioclases decreases from the Beck 2 area to the Beck 1 area. Amphiboles are mainly common hornblende and actinolite to the North and essentially actinolite to the south of the separation boundary between Beck 1 and 2.

The felsic sequence, in the mapped area, consists of several volcanic cycles separated by intermediate to mafic metavolcanics. These horizons consist of andesitic to basaltic flows and pyroclastic tuffs. The hydrothermal alteration has frequently enriched these rocks in quartz and biotite. The resulting crystallization has almost systematically destroyed the original textures and structures. In the Beck 1 area, south of the east-west trending logging road, relatively thin intrusive gabbros are remarkably enriched in quartz, siderite and, locally, in tourmaline.

Felsic metavolcanics

In the mapped area, in Beck 1, as well as in Beck 2, four to five felsic volcanic cycles have been identified. They are separated by thin andesitic to mafic episodes, which can be easily followed in the field for relatively long distances. Each cycle consists of dominantly fine dacitic tuffs and flows.

The lower cycles in the Beckington felsic volcanic sequence contain abundant quartz-feldspar-porphyrific-dacite flows. The subhedral to euhedral plagioclase phenocrysts are slightly sericitized and partially recrystallized, and tend to blend into the matrix. Some coarse grains of plagioclase are fragmented; this feature as well as inhomogeneities in the texture, indicate that the rock may be partly pyroclastic in origin. The quartz phenocrysts are mainly white and locally mixed with less common blue quartz. The blue quartz are predominant in the upper cycles and particularly abundant at the top of the sequence, in Beck 1, just south of the logging road, where they crystallize in all kinds of rocks and in the mafic metavolcanics as well.

The fragments in the felsic tuffs rarely exceed a few millimeters and tend to be slightly coarser and flattened toward the top of the sequence.

In the south part of Beck 2, volcanic tuff-breccia were observed in the lowest felsic cycle. The coarsest fragmental rocks are dacitic to andesitic in composition. The fragments are generally well sorted. The dacitic fragments are more felsic than the biotite-rich matrix and are distinct. The fragments consist predominantly of only one rock type and are angular in shape; the matrix may locally show flow textures.

To the north of Beck 2, a partially sericitized lens of fragmental rhyodacite to rhyolite was observed below an extensive iron formation. The white fragments vary in size from several cm to large blocks of indeterminate size and are homogeneous in composition. The angular to subrounded fragments are haphazardly arranged and set in a matrix with a similar composition.

The uppermost felsic cycle lies on the iron formation underneath the upper mafic sequence. The felsic material belonging to this cycle has been partially eroded and is associated with intercalated and overlying fragmental epiclastic rocks. These fragmental rocks are extremely poorly sorted having equally abundant rounded and subangular fragments randomly oriented in an abundant volume of matrix. The fragments are variable in composition and origin. They are principally composed of fine felsic tuffs, quartz porphyries and minor mafic to intermediate rocks. Rare sulfide-rich fragments were observed south of the logging road. These deposits were at least partially tentatively interpreted to be a lahar. The size of the fragments diminish to the north as well as the thickness of the deposits. In Beck 2, this horizon consists of very fine material; the deposit tends to be lency and disappears north of Beck 2, where the iron formation underlies directly the upper mafic sequence.

Metasediments and Iron formation

The iron formation near the top of the felsic sequence is quite extensive and was followed from an area north of the mapped area (south of Evans Lake, about five km north of the village of Savant Lake) to the south part of Beck 2, where it disappears under the glacial cover. Farther south, it can be traced by magnetic methods down to the north of Beck 1 where it was observed again outcropping continuously down to the south of the logging road. At that location, the iron formation was recognized at the bottom of drill hole #8 and on the surface, west of this drill-hole, with an approximate thickness of 60 m, that is to say, less than half of the thickness estimated for this iron formation north of Beck 2.

The iron formation consists of fine tuffaceous metasediments, andesitic and mafic tuffs and an unusual rock almost essentially composed of amphibole and garnet (Mn-rich almandine). This garnet rich rock is sporadically mineralized in pyrite and pyrrhotite but is extremely poor in magnetite. The iron content of this silica-iron-rich rock may be as high as 30% Fe_2O_3 and is never less than 15%.

Lenses of metaquartzites, metapelites and tuffaceous metasediments were observed sporadically at the base of the upper mafic sequence. The metasediments have weathered to a buff brown. The metaquartzites are massive while the more shaly material exhibit sharp bedding planes.

Intrusives

The felsic volcanic sequence is intruded to the west of Beck 2 by an excrescence of a large trondhjemitic batholith. This intrusion appears to be responsible for abundant silicifications in the surrounding quartz-feldspar porphyry flows and tuffs and could be the root for the extensive hydrothermal alteration affecting Beck 2 and extending largely to the north and to Beck 1. These silicifications around the intrusion are apparently associated with patches of copper anomalies.

Quartz-feldspar porphyritic rhyodacites are predominantly found in the central and southwest part of Beck 1 where they form small-sized, sill-like bodies intercalated in the felsic tuffs. These rocks typically contain quartz and feldspar phenocrysts in a fine-grained, pinkish-grey massive matrix.

Mafic to intermediate intrusive sills were locally observed in Beck 1 and 2 and appeared to be slightly more common in the south-east of Beck 1. These sills (and dikes?) are composed predominantly of quartz diorite and quartz gabbro. In the field, these rocks weather from dark grey to dark green and are usually dark grey on the fresh surface. Grain size is commonly fine to very fine.

Metamorphism

The entire Beckington area has been regionally metamorphosed. Beck 2 and north part of Beck 1 have been metamorphosed to predominantly amphibolite facies. South part of Beck 1, just south of the logging road, the area has been regionally metamorphosed to greenschist facies. In the hydrothermally altered felsic metavolcanics, the passage from the medium-grade metamorphic conditions to the low grade metamorphic conditions is well marked by the substitution of chloritoids for staurolite in a relatively narrow band athwart the logging road where staurolite-chloritoid-gamet-andalusite assemblages were observed. In the Beck 2 area, staurolite is quite common and chloritoid absent and kyanite and sillimanite are sporadically associated with andalusite. North of Beck 2, sillimanite and kyanite tend to be slightly more common than andalusite in the deeply altered metavolcanics.

Structural geology

The claim group is located on the south-east limb of an anticlinal structure plunging to the northeast. Consequently, the felsic to intermediate metavolcanic sequence covered by the claim group, and intercalated between two thick sequences of mafic metavolcanics, extends rather regularly along a northwest-southeast trend. The structure is dipping to the east with an angle ranging between 60 and 80°.

The metavolcanics and metasediments do not have a prominent foliation. This poorly marked foliation which may or may not be primary arises from the subparallel alignment of chlorite, actinolite and hornblende in the mafic metavolcanics and principally biotite in the felsic metavolcanics and metasediments (chlorite and sericite in the extreme south of Beck 1).

Crenulation folding is present in the central portion of Beck 1 in deeply altered sericite and sericite-chlorite rich rocks.

No major fault was observed in the field. However, the area between Beck 1 and Beck 2, which is partly covered by a thick overburden could be a zone of intense faulting and fracturation. Some outcrops containing cataclastic rocks were observed in this area north-west of Beck 1.

A fractured zone has been intersected by drill hole #8 and interpreted to be a transverse fault, probably responsible for a slight change in the trend of lithologies from north to south of the logging road in the east section of Beck 1.

Economic Geology

Sulphide mineralizations in the Beckington area occur as sporadic disseminations of pyrite or pyrrhotite in felsic to intermediate tuffs and more seldom in the coarse mafic material and gabbro intrusions.

Concentrations of stringer-type pyrite-pyrrhotite mineralizations were observed locally in the iron formation and the hydrothermally altered felsic metavolcanics. Two of these stringer-type pyrite-pyrrhotite mineralizations from drill hole #9, yielded some gold values in deeply altered intermediate to mafic metavolcanics (respectively 410 and 240 ppb Au).

In the Beckington area, the copper and zinc mineralizations encountered to date occur as isolated, minor chalcopyrite disseminations within altered intermediate rocks along the railway in Beck 2, a chalcopyrite vein in altered dacitic tuff in drill hole #3 and sphalerite stringers in chloritized rocks in d.d.h. 8, respectively in Beck 2 and 1. Drill hole #4 intersected traces of Cu-Zn mineralizations in Py Po stringers in altered felsic tuffs.

Invariably, these occurrences of copper-zinc mineralization appear to be vein type. Host rocks are usually hydrothermally altered felsic to intermediate tuffs. There is no evidence to suggest that any of these mineralizations may be related to conformable massive sulfide bodies; they are probably not continuous enough to develop economic tonnages. These vein-type mineralizations only indicate that the hydrothermal fluids responsible for the widely extended alteration patterns were carrying metals. However, taking into account the abundance of epiclastic tuffs topping the felsic volcanic cycle, it is reasonable to think that the conditions of relative quietness necessitated for the deposition and the conservation of massive sulfide bodies were not completely fulfilled.

The area also has a potential for gold mineralization associated with stringer-type sulfide in altered metavolcanics as illustrated by anomalous gold in the 10-400 ppb range intersected in drill-hole #9.

GEOCHEMISTRY

General

Approximately 450 lithogeochemical samples were taken in the Beckington area. Each was analyzed for copper, zinc and lead and a large selection was sent for whole rock analysis to assist in characterizing rock units circumscribing and defining the hydrothermal alterations.

Lithogeochemistry

A well defined alteration zone was identified in Beck 2, affecting the upper cycles below the Iron Formation. The alteration zone intersects the Iron Formation north of Beck 2 and in the area explored by drill hole #2. It could be rooted in the trondhjemite excretion of Chivelston Lake where important silicifications were observed.

This extensive alteration seems to continue under the glacial cover between Beck 2 and Beck 1, as indicated by rare outcrops and diamond drilling (DDH #3 and 5) and was recognized from the north part of Beck 1, down to the southwest of the claim group, on the west shore of Sturgeon Lake. In the Beck 1 area, the alteration appears to be more intense in the vicinity of the logging road where it reaches higher levels in the volcanic pile. At that location, the contact between the pyroclastic tuffs and the epiclastic tuffs at the top is marked by a relatively consistent silicification associated with Manganese and possibly lead anomalies.

Chemically, this alteration is characterized by a strong Na₂O depletion and very low values of the saturation index, indicating important relative alumina enrichments. Mineralogically, these peraluminous rocks are expressed by abundant crystallizations of kyanite, sillimanite, andalusite and staurolite in Beck 2, and andalusite, staurolite, chloritoids in Beck 1. South of Beck 1, this same alteration is represented by the mineral assemblage of andalusite and chloritoid. Chloritization and sericitization are well developed just south of the logging road in Beck 1, in an area where the sodium depletion is particularly intense.

Results of the geochemical analyses of the rock samples indicate normal background values of Cu, Zn and Pb for the region.

<u>Element</u>	<u>Mean (ppm)</u>	<u>Mean+1 (ppm)</u>	<u>Mean +2</u>	<u>Mean +3</u>
Cu	18.85	36	52	69
Zn	39.24	65	91	116
Pb	7.14	10	14	17

Small zones of anomalous Cu and Zn were identified as isolated patches in the alteration zone. Among these anomalous zones, only two are considered important. Abnormal values found in the remaining areas were either too weak or too small to be of interest. In Beck 2, along the transcanadian railway, a Cu (Zn,Pb) anomaly is centered in the broadest section of the alteration zone and is caused by visible chalcopryite in the samples. In Beck 1, an important Cu, Zn, Pb anomaly occupies the same location as the zone of chloritization, sericitization and Na depletion south of the logging road.

It is in this particular area that drill hole #8 intersected a narrow zone of sphalerite stringers in chloritized rocks and that the drill hole #9 revealed important accumulations of pyrite and pyrrhotite mineralizations yielding some gold values.

The results of the geochemical survey are shown in the attached map; whole rock analysis and litho-geochemical interpretation are in Appendix X₂

DIAMOND DRILLING

Eight targets have been selected for drilling in the Beck 1 and 2 claim block. These targets resulted from the intersection of hydrothermal alteration pattern, confirmed by litho-geochemistry and microscopical examination of the corresponding altered rocks, and favorable geology, generally along the upper contact of felsic tuff with overlying mafic formations, iron formation or felsic epiclastic material. These targets were also outlined by EM-16 and Max-Min geophysical anomalies.

- Drill hole # 1 - was located in claim Pa 486261, which is mainly covered with a thin blanket of glacial sand and gravel and it intersected a sequence of metasediments, mafic to intermediate metatuff and an iron-rich garnet amphibolite. The geophysical anomaly was related to minor pyrite-pyrrhotite stringer type mineralizations.
- Drill hole # 2 - was located in claim Pa 486255, in a similar geological environment as ddh #1, with a similar type of mineralization.
- Drill hole # 3 - was located in claim Pa 486118, which is covered with a relatively thick blanket of glacial sand. It intersected deeply hydrothermally altered felsic and mafic tuffs containing minor pyrite and pyrrhotite mineralizations associated with weak copper and zinc values.
- Drill hole # 4 - was located in claim Pa 486031, mainly covered with swamps, and where the extension of a felsic/mafic metavolcanics contact, observed further North, was expected to be continued under the overburden. The drill-hole missed the geophysical anomaly and the contact. Only traces of pyrite, pyrrhotite and sphalerite were intersected.


- Drill hole # 5 - was located in claim Pa 486119, which is covered with a thick blanket of glacial sand. The drill intersected a complex succession of intensely altered felsic and mafic tuffs. The mineralization consisted of minor pyrite and pyrrhotite disseminations and traces of chalcopyrite.
- Drill hole # 6A - located in claim Pa 486031, on the same target as the one missed by drill hole #4. The drill hole was stopped in the overburden rich in boulders and gravels because of broken drill rods.
- Drill hole # 6B - in the same claim, intersected a contact between mafic tuff and a quartz porphyry dacitic to rhyodacitic tuff containing locally abundant patches of pyrrhotite.
- Drill hole # 7 - was located in claim Pa 486065 in an area covered with recent river sediments. Under this relatively thick overburden, the geology consisted of epiclastic tuffs topping felsic pyroclastic tuffs and a silica-rich iron formation. Geology in d.d.h. 7 was also characterized by faulting and local but intense fracturation of the rocks. Some pyrrhotite concentrations were observed below the fracture zone, in a dark andesitic tuff.
- Drill hole # 8 - was located in claim Pa 486069 with abundant outcropping indicating the same geological succession as in drill hole #7. Minor sphalerite was observed in a chlorite-sericite schist resulting from the hydrothermal alteration of felsic to intermediate tuffs.
- Drill hole # 9 - was located in claim Pa 486068 on a river bank, the geology consisted of a complex succession of deeply hydrothermally altered felsic to mafic metavolcanic tuffs intersected by relatively fresh gabbro intrusions.

Rather frequent concentrations of stringer-type pyrite and pyrrhotite mineralizations were observed in d.d.h. #9; two of these concentrations yielded some significant gold values.

Hole locations and complete drill logs are in Appendix 2.3

CONCLUSIONS

The potential for volcanic massive sulphide mineralizations in the Beckington area, strongly suggested by extremely favorable geological and geochemical conditions, is limited by the paucity of geophysical response at the surface of the studied area and by the existence of intensely reworked material at the top of the felsic cycle. However, abundance of hydrothermal activity and the occurrence of numerous pyrite-pyrrhotite stringer-type mineralizations yielding local gold indications enhance the potential of the area.



F. Felder
Exploration Manager

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AUTHOR'S QUALIFICATIONS

MINING LANDS SECTION

I, Frederick Felder of 7776 Nursery Street, Burnaby, B.C.,
V5E 2B4, certify the following:

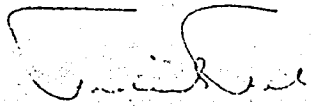
I am a graduate of McGill University of B.Sc. Geology 1967
and M.Sc. Geology-Geochemistry the University of New Brunswick 1972.

I am a member of the Society of Exploration Geochemists,
Canadian Institute of Mining and Metallurgy and Geological Association of
Canada.

From 1967 to 1979, I have been employed in my field by Cominco
+ Exminesa in Eastern Canada, Spain and Mexico, Soquem in Quebec, and Union
Minière S.A. in Mexico and Central and South America.

From 1979 to 1983, I have been the Regional Manager for Union
Minière Explorations and Mining Corporation Limited for the Western District.

From 1983 to the present, I have acted as Exploration Manager
Inc.'s canadian operations.


F. Felder
January 19, 1984

*Before assessing
see note attached
at back of survey
MEA*

BECKINGTON AREA - GEOLOGY
GEOCHEMISTRY

FIGURES

Fig. 1.	Location Map		
Fig. 2.	Geology	DWG No. 1	Grid Beck 2
Fig. 3	Geology	DWG No. 2	Beck 1 & 2
Fig. 4	Geology	DWG No. 3	Beck 1
Fig. 5	Geology	DWG No. 4	Beck 1
Fig. 6	Geology	DWG No. 5	Beck 1
Fig. 7	Na Depletion	DWG No. 1	Beck 2
Fig. 8	Na Depletion	DWG No. 3	Beck 1
Fig. 9	Na Depletion	DWG No. 4	Beck 1
Fig. 10	Na Depletion	DWG No. 5	Beck 1
Fig. 11	Saturation Index	DWG No. 1	Beck 2
Fig. 12	Saturation Index	DWG No. 3	Beck 1
Fig. 13	Saturation Index	DWG No. 4	Beck 1
Fig. 14	Saturation Index	DWG No. 5	Beck 1
Fig. 15	Silicification	DWG No. 1	Beck 2
Fig. 16	Silicification	DWG No. 4	Beck 1
Fig. 17	Mn anomalies	DWG No. 3	Beck 1
Fig. 18	Mn Anomalies	DWG No. 4	Beck 1
Fig. 19	Mn Anomalies	DWG No. 5	Beck 1
Fig. 20	Cu Anomalies	DWG No. 1	Beck 2
Fig. 21	Cu Anomalies	DWG No. 3	Beck 1
Fig. 22	Cu Anomalies	DWG No. 4	Beck 1
Fig. 23	Cu Anomalies	DWG No. 5	Beck 1
Fig. 24	Zn Anomalies	DWG No. 1	Beck 2
Fig. 25	Zn Anomalies	DWG No. 3	Beck 1
Fig. 26	Zn Anomalies	DWG No. 4	Beck 1
Fig. 27	Zn Anomalies	DWG No. 5	Beck 1

Fig. 28	Pb Anomalies	DWG No. 1	Beck 2
Fig. 29	Pb Anomalies	DWG No. 3	Beck 1
Fig. 30	Pb Anomalies	DWG No. 4	Beck 1
Fig. 31	Pb Anomalies	DWG No. 5	Beck .

APPENDIX 1

LIST OF BECK CLAIMS

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MAY 20 1961

MINING LANDS SECTION

BECK CLAIMS

Pa 611926	July 19, 1982	Pa 487062	February 2, 1981
		487063	"
Pa 612001	August 3, 1982	487064	"
612002	"	487065	"
612003	"	487066	"
612004	"	487067	"
612005	"	487068	"
612006	"	487069	"
612007	"		
612008	"	Pa 487633	February 16, 1981
612009	"	487634	"
612010	"	487635	"
612011	"	487636	"
612012	"	487637	"
		487638	"
Pa 612014	"	487639	"
		487640	"
Pa 612016	"	487641	"
612017	"		
612018	"	Pa 486913	October 1, 1980
612019	"	486914	"
612020	"	486915	"
612021	"	486916	"
		Pa 436823	April 10, 1980
		436824	"
		436825	"
		436826	"
		Pa 436828	"
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BECK CLAIMS

Pa 437423 April 11, 1980
 437424 "
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Pa 486020 April 9, 1980
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Pa 486056 April 9, 1980
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Pa 486087 April 11, 1980
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486121	"	Pa 486308	April 10, 1980
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486125	"	486312	"
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APPENDIX 2

- a) surface geochemical analyser.
- b) whole rock analyses.
- c) statistical interpretation of surface geochemical analyses.
- d) lithochemical interpretation.

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MINING LANDS SECTION

X-RAY ASSAY LABORATORIES 04-AUG-82 REPORT 15411 REF. FILE 11123-M3

SAMPLE	ZN PPM	AG PPM	PB PPM	CU PPM
E2AS1	--	--	--	>4000
E2AS2	--	--	--	--
E2AS3	74.0	--	8	42.0
E2AS4	26.0	--	8	52.0
E2AS5	31.0	--	10	56.0
E2AS6	25.0	--	12	29.0
E2AS7	36.0	--	10	55.0
E2AS8	29.0	--	6	14.0
E2AS9	16.0	--	8	12.0
E2AS10	36.0	--	12	4.0
E2AS11	16.0	--	4	12.0
E2AS12	44.0	--	8	28.0
E2AS13	40.0	--	10	29.0
E2AS14	30.0	--	14	22.0
E2AS15	19.0	--	8	63.0
E2AS16	35.0	--	12	50.0
E2AS17	25.0	--	12	86.0
E2AS18	52.0	--	6	11.0
E2AS19	43.0	--	8	11.0
E2AS20	43.0	--	10	10.0
E2AS21	37.0	--	8	49.0
E2AS22	37.0	--	6	9.0
E2AS23	150	--	8	19.0
E2AS24	61.0	--	10	4.5
E2AS25	32.0	--	4	10.0
E2AS26	39.0	--	6	11.0
E2AS27	40.0	--	6	15.0
E2AS28	47.0	--	4	25.0
E2AS29	25.0	--	4	9.5
E2AS30	90.0	--	12	14.0
E2AS31	24.0	--	6	32.0
E2AS32	64.0	--	14	19.0
E2AS33	6.0	--	2	14.0
E2AS34	66.0	--	12	37.0
E2AS35	38.0	--	12	61.0
E2AS36	31.0	--	10	24.0
E2AS37	11.0	--	6	14.0
E2AS38	30.0	--	8	350
E2AS39	37.0	--	10	19.0
E2AS40	83.0	--	8	2000
E2AS41	330	--	18	350
E2AS42	35.0	--	6	17.0
E2AS43	16.0	--	4	130
E2AS44	20.0	--	12	17.0
E2AS45	37.0	--	12	75.0
E2AS46	--	--	--	1900
E2AS47	13.0	--	6	67.0
E2AS48	59.0	--	20	68.0
E2AS49	100	--	4	20.0
E2AS50	42.0	--	12	51.0
E2AS51	14.0	--	6	36.0
E2AS52	23.0	--	12	180
E2AS53	26.0	--	6	21.0
E2AS54	45.0	--	6	44.0
E2AS55	21.0	--	8	8.0

X-RAY ASSAY LABORATORIES 04-AUG-82 REPORT 15411 REF. FILE 11123-M3

SAMPLE	ZN PPM	AG PPM	PB PPM	CU PPM
E2AS56	42.0	--	6	10.0
E2AS57	26.0	--	8	12.0
E2AS58	12.0	--	8	35.0
E2AS59	30.0	--	8	42.0
E2AS60	22.0	--	2	46.0
E2AS61	47.0	--	10	19.0
E2AS62	75.0	--	6	8.0
E2AS63	31.0	--	4	6.5
E2AS64	70.0	--	12	16.0
E2AS65	99.0	--	6	61.0
E2AS66	52.0	--	4	8.5
E2AS67	77.0	--	22	9.0
E2AS68	30.0	--	8	10.0
E2AS69	25.0	--	4	12.0
E2AS70	16.0	--	6	14.0
E2AS71	22.0	--	6	12.0
E2AS72	15.0	--	10	13.0
E2AS73	39.0	--	6	10.0
E2AS74	64.0	--	46	8.0
E2AS75	37.0	--	6	5.0
E2AS76	37.0	--	6	16.0
E2AS77	30.0	--	6	9.5
E2AS78	14.0	--	4	7.0
E2AS79	14.0	--	6	11.0
E2AS80	10.0	--	6	31.0
E2AS81	68.0	--	10	20.0
E2AS82	8.5	--	10	12.0
E2AS83	24.0	--	10	42.0
E2AS84	44.0	--	4	9.0
E2AS85	49.0	--	6	23.0
E2AS86	34.0	--	10	46.0
E2AS87	44.0	--	8	38.0
E2AS88	5.0	--	2	8.5
E2AS89	40.0	--	6	17.0
E2AS90	25.0	--	6	13.0
E2AS91	30.0	--	4	8.5
E2AS92	15.0	--	10	7.5
E2AS93	28.0	--	4	5.0
E2AS94	24.0	--	8	55.0
E2AS95	5.5	--	6	19.0
E2AS96	57.0	--	6	15.0
E2AS97	36.0	--	6	24.0
E2AS98	74.0	--	12	28.0
E2AS99	74.0	--	6	22.0
E2AS100	20.0	--	6	23.0
E2AS101	19.0	--	8	44.0
E2AS102	14.0	--	8	13.0
E2AS103	53.0	--	4	8.5
E2AS104	6.0	--	4	7.0
E2AS105	7.5	--	8	49.0
E2AS106	10.0	--	4	18.0
E2AS107	45.0	--	4	65.0
E2AS108	20.0	--	14	23.0
E2AS109	32.0	--	10	11.0
P2AS110	58.0	--	8	20.0

X-RAY ASSAY LABORATORIES 04-AUG-82 REPORT 15411 REF. FILE 11123-M3

SAMPLE	ZN PPM	AG PPM	PB PPM	CU PPM
E2AS111	18.0	--	6	12.0
E2AS112	10.0	--	10	12.0
E2AS113	34.0	--	8	16.0
E2AS114	41.0	--	6	11.0
E2AS115	29.0	--	4	9.5
E2AS116	14.0	--	4	28.0
E2AS117	91.0	--	8	24.0
E2AS118	35.0	--	6	22.0
E2AS119	5.5	--	<2	11.0
E2AS120	18.0	--	4	29.0
E2AS121	37.0	--	8	22.0
E2AS122	19.0	--	6	12.0
E2AS123	12.0	--	8	11.0
E2AS123A	59.0	--	8	23.0
E2AS124	18.0	--	6	56.0
E2AS125	24.0	--	8	13.0
E2AS126	12.0	--	8	24.0
E2AS127	17.0	--	6	40.0
E2AS128	28.0	--	10	19.0
E2AS129	25.0	--	12	15.0
E2AS130	19.0	--	6	4.0
E2AS131	10.0	--	4	5.0
E2AS132	40.0	--	4	30.0
E2AS133	51.0	--	6	41.0
E2AS134	7.0	--	<2	12.0
E2AS135	20.0	--	4	16.0
E2AS136	50.0	--	8	15.0
E2AS137	36.0	--	2	62.0
E2AS138	41.0	--	24	41.0
E2AS139	24.0	--	8	5.5
E2AS140	27.0	--	6	19.0
E2AS141	30.0	--	6	32.0
E2AS142	15.0	--	2	12.0
E2AS143A	45.0	--	4	8.5
E2AS143B	44.0	--	10	15.0
E2AS144	41.0	--	4	13.0
E2AS145	100	--	8	58.0
E2AS146	29.0	--	4	17.0
E2AS147	91.0	--	14	14.0
E2AS201	7.0	--	4	2.5
E2AS202	16.0	--	6	4.5
E2AS203	21.0	--	4	4.0
E2AS204	32.0	--	<2	3.0
E2AS205	70.0	--	6	27.0
E2AS206	29.0	--	2	37.0
E2AS207	21.0	--	14	28.0
E2AS208	5.0	--	4	10.0
E2AS209	4.5	--	14	7.0
E2AS210	34.0	--	8	3.0
E2AS211	65.0	--	14	10.0
E2AS212	24.0	--	14	4.0

X-RAY ASSAY LABORATORIES 04-AUG-82 REPORT 15411 REF. FILE 11123-M3

PLE	ZN PPM	AG PPM	PB PPM	CU PPM
E1AS1	59.0	--	14	19.0
E1AS2	15.0	--	6	130
E1AS3	26.0	--	4	31.0
E1AS4	7.0	--	4	7.5
E1AS5	45.0	--	4	12.0
E1AS6	28.0	--	4	7.5
E1AS7	57.0	--	6	28.0
E1AS8	17.0	--	10	21.0
E1AS9	44.0	--	6	18.0
E1AS10	80.0	--	20	22.0
E1AS11	320.	--	100	24.0
E1AS12	36.0	--	10	8.0
E1AS13	8.5	--	4	10.0
E1AS14	30.0	--	4	16.0
E1AS15	13.0	--	2	6.5
E1AS16	10.0	--	4	8.5
E1AS17	40.0	--	14	120
E1AS18	27.0	--	12	18.0
E1AS19	37.0	--	14	17.0
E1AS20	7.5	--	4	9.5
E1AS21	39.0	--	8	14.0
E1AS22	50.0	--	6	28.0
E1AS23	38.0	--	4	10.0
E1AS24	49.0	--	6	15.0
E1AS25	22.0	--	6	5.0
E1AS26A	42.0	--	2	64.0
E1AS26B	27.0	--	2	6.5
E1AS27	56.0	--	4	12.0
E1AS28	43.0	--	6	17.0
E1AS29	9.0	--	16	11.0
E1AS30	11.0	--	16	6.0
E1AS31	5.5	--	4	6.0
E1AS32	11.0	--	4	7.0
E1AS33	26.0	--	10	11.0
E1AS34	20.0	--	10	18.0
E1AS35	52.0	--	6	6.5
E1AS36	14.0	--	12	5.5
E1AS37	39.0	--	6	10.0
E1AS38	50.0	--	10	300
E1AS39	35.0	--	6	11.0
E1AS40	16.0	--	4	8.5
E1AS41	46.0	--	6	18.0
E1AS42	11.0	--	10	6.5
E1AS43	9.0	--	10	7.5
E1AS44	8.0	--	10	8.5
E1AS45	36.0	--	6	13.0
E1AS46	59.0	--	6	25.0
E1AS47	32.0	--	8	9.0
E1AS48	64.0	--	10	13.0
E1AS49	6.5	--	4	7.0
E1AS50	47.0	--	8	50.0
E1AS51	28.0	--	6	6.5
E1AS52	95.0	--	6	19.0
E1AS53	84.0	--	8	20.0
E1AS54	26.0	--	8	6.0
E1AS55	50.0	--	6	11.0

X-RAY ASSAY LABORATORIES 04-AUG-82 REPORT 15411 REF. FILE 11123-M3

SAMPLE	ZN PPM	AG PPM	PB PPM	CU PPM
E1AS56	31.0	--	6	57.0
E1AS57	21.0	--	8	10.0
E1AS58	81.0	--	8	10.0
E1AS59	14.0	--	4	8.0
E1AS60	35.0	--	12	8.5
E1AS61	14.0	--	4	7.0
E1AS62	14.0	--	10	7.0
E1AS63	34.0	--	10	9.5
E1AS64	15.0	--	12	11.0
E1AS65	10.0	--	2	5.5
E1AS66	40.0	--	8	16.0
E1AS67	34.0	--	8	7.0
E1AS68	32.0	--	4	5.0
E1AS69	8.5	--	4	7.5
E1AS70	30.0	--	6	10.0
E1AS71	46.0	--	10	10.0
E1AS72	35.0	--	18	160
E1AS73	21.0	--	8	9.0
E1AS74	42.0	--	4	7.0
E1AS75	61.0	--	14	18.0
E1AS76	38.0	--	14	7.0
E1AS77	37.0	--	10	6.0
E1AS78	8.0	--	4	6.0
E1AS79	4.5	--	4	4.5
E1AS80	22.0	--	6	4.5
E1AS81	26.0	--	4	18.0
E1AS82	41.0	--	2	10.0
E1AS83	18.0	--	8	9.0
E1AS84	6.0	--	2	5.5
E1AS85	52.0	--	14	15.0
E1AS86	39.0	--	16	7.5
E1AS87	42.0	--	8	7.0
E1AS88	39.0	--	10	14.0
E1AS89	18.0	--	2	7.0
E1AS90	65.0	--	4	17.0
E1AS91	52.0	--	16	9.0
E1AS92	27.0	--	10	11.0
E1AS93	34.0	--	4	72.0
E1AS94	23.0	--	10	8.0
E1AS95	11.0	--	8	22.0
E1AS96	21.0	--	6	7.0
E1AS97	16.0	--	8	6.5
E1AS98	49.0	--	10	4.0
E1AS99	14.0	--	8	120
E1AS100	75.0	--	10	16.0
E1AS101	22.0	--	10	4.0
E1AS102	55.0	--	6	9.5
E1AS103	9.0	--	4	3.0
E1AS104	36.0	--	6	7.5
E1AS105	72.0	--	10	110
E1AS106	49.0	--	6	55.0
E1AS107	35.0	--	10	4.5
E1AS108	34.0	--	10	5.0
E1AS109	9.5	--	14	4.5
E1AS110	6.0	--	8	31.0

X-RAY ASSAY LABORATORIES 24-SEP-82 REPORT 15961 REF. FILE 11621-A4

SAMPLE	CU PPM	ZN PPM	PB PPM
ELAS111	5.5	6.5	6
ELAS112	6.0	8.5	8
ELAS113	17.0	41.0	6
ELAS114A	180	85.0	14
ELAS114B	15.0	95.0	64
ELAS115	11.0	64.0	34
ELAS116	12.0	60.0	34
ELAS117	3.5	57.0	10
ELAS118	13.0	40.0	16
ELAS119	5.5	39.0	8
ELAS120	11.0	48.0	16
ELAS121	7.0	27.0	8
ELAS122	7.0	26.0	10
ELAS123	35.0	28.0	4
ELAS124	12.0	140.	8
ELAS125	6.5	30.0	8
ELAS126	370.	84.0	6
ELAS127	27.0	190.	8
ELAS128	9.0	21.0	6
ELAS129	24.0	130.	14
ELAS130	2.0	12.0	50
ELAS131	40.0	44.0	8
ELAS131A	19.0	48.0	4
ELAS132	27.0	33.0	8
ELAS133	71.0	61.0	8
ELAS134	30.0	72.0	8
ELAS135	6.5	64.0	6
ELAS136	18.0	69.0	10
ELAS137	20.0	63.0	4
ELAS138	5.0	63.0	2
ELAS139	39.0	63.0	4
ELAS140	3.0	31.0	4
ELAS141	8.0	19.0	4
ELAS142	8.5	16.0	<2
ELAS143	10.0	37.0	4
ELAS144	3.0	21.0	10
ELAS145	500.	31.0	10
ELAS146	9.0	13.0	2
ELAS147	5.0	18.0	<2
ELAS148	60.0	91.0	14
ELAS149	24.0	150.	12
ELAS150	190.	23.0	4
ELAS151	13.0	32.0	2
ELAS152	42.0	94.0	12
ELAS153	65.0	84.0	10
ELAS154	35.0	38.0	4
ELAS155	37.0	77.0	12
ELAS156	46.0	80.0	10
ELAS157	33.0	97.0	8
ELAS158	19.0	49.0	2
ELAS159	4.5	24.0	2
ELAS160	2.0	34.0	4
ELAS161	4.0	24.0	4
ELAS162	14.0	93.0	4

SAMPLE	CU PPM	ZN PPM	PB PPM
E1AS163	25.0	68.0	4
E1AS164	13.0	62.0	84
E1AS165	15.0	66.0	60
E1AS166	9.0	81.0	78
E1AS167	18.0	59.0	74
E1AS168	5.5	4.0	36
E1AS169	2.5	85.0	30
E1AS170	21.0	52.0	44
E1AS171	67.0	75.0	14
E1AS172	25.0	30.0	10
E1AS173	17.0	50.0	10
E1AS174	14.0	38.0	6
E1AS175	48.0	24.0	14
E1AS176	7.5	46.0	22
E1AS177	30.0	120.	46
E1AS178	8.0	59.0	10
E1AS179	9.0	25.0	10
E1AS180	16.0	65.0	12
E1AS181	27.0	35.0	8
E1AS182	13.0	72.0	8
E1AS183	3.0	12.0	4
E1AS184	50.0	130.	10
E1AS185	14.0	24.0	8
E1AS186A	4.0	12.0	4
E1AS186B	160.	27.0	10
E1AS187	66.0	86.0	12
E1AS188	12.0	18.0	20
E1AS189	5.5	120.	20
E1AS190	5.5	29.0	12
E1AS191	91.0	49.0	14
E1AS192	110.	110.	16
E1AS193	35.0	56.0	4
E1AS194	6.0	52.0	6
E1AS195	8.0	26.0	10
E1AS196	2.0	20.0	4
E1AS197	15.0	61.0	16
E1AS198	17.0	70.0	14
E1AS199	4.0	63.0	12
E1AS200	7.0	200.	10
E1AS201	4.5	15.0	14
E1AS202	16.0	47.0	8
E1AS203	10.0	43.0	8
E1AS204	5.0	16.0	4
E1AS205	5.5	30.0	8
E1AS206	10.0	30.0	10
E1AS207	3.0	14.0	4
E1AS208	3.0	28.0	6
E1AS209	9.0	31.0	4
E1AS210	13.0	57.0	2
E1AS211	11.0	110.	12
E1AS212	55.0	79.0	20
E1AS213	14.0	34.0	6
E1AS214	69.0	69.0	14
E1AS215	18.0	37.0	4
E1AS216	3.5	11.0	2

MPLE	CU PPM	ZN PPM	PB PPM
E1AS217	47.0	93.0	10
E1AS218	73.0	78.0	14
E1AS219A	9.5	18.0	4
E1AS219B	10.0	18.0	4
E1AS220	2.0	27.0	4
E1AS221	60.0	75.0	20
E1AS222	89.0	57.0	8
E1AS223	8.5	120.	6
E1AS224	10.0	120.	4
E1AS225	20.0	46.0	8
E1AS226	56.0	72.0	10
E1AS227	14.0	55.0	2
E1AS228	6.0	45.0	6
E1AS229	7.5	22.0	4
E1AS230	150.	59.0	10
E1AS231	46.0	180.	6
E1AS232	17.0	18.0	<2
E1AS233	230.	150.	120
E1AS234	130.	62.0	12
E1AS235	14.0	14.0	4
E1AS236	1.5	37.0	10
E1AS237	14.0	29.0	4
E1AS238	6.5	21.0	2
E1AS239	7.0	15.0	4
E1AS240	8.0	24.0	2
E1AS241	8.0	8.0	2
E1AS242	2.5	47.0	12
E1AS243	74.0	9.0	4
E1AS244	11.0	33.0	10

SAMPLE	ZN PPM	CU PPM	PB PPM
B18S1	82.0	17.0	6
B18S2	15.0	14.0	4
B18S3	62.0	32.0	10
B18S4	36.0	54.0	6
B18S5	11.0	13.0	2
B18S6	56.0	34.0	4
B18S7	78.0	21.0	6
B18S8	38.0	6.5	8
B18S9	66.0	35.0	6
B18S10	35.0	10.0	4
B18S11	44.0	6.0	6
B18S12	92.0	42.0	6

B E C K - - - - 1
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W H O L E R O C K A N A L Y S I S
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ALUMINA ALTERATION

SAMPLE ID	ARGH	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
B1AS011	0.71			0.58	-6.16		-5.15	22.23	0.64	0.75	0.35	-1.07	3.56	0.22
B1AS030	0.91			0.70	-4.54	0.61	-4.54	21.50	2.07	0.84	0.25	-0.47	5.79	0.27
B1AS031	0.86			0.62	-7.67		-7.57	21.98	0.51	0.72	0.42	-0.97	3.35	0.19
B1AS034	0.74			0.64	-5.67	0.94	-5.67	21.13	0.90	0.80	0.33	-0.70	3.23	0.23
B1AS035	0.69			0.68	-5.59		-5.59	17.45	0.45	0.91	0.55	-0.21	3.79	0.17
B1AS043	1.05			0.68	-8.55	0.52	-8.55	21.41	1.73	0.78	0.20	-0.29	3.10	0.31
B1AS047	0.65			0.56	-5.08		-5.08	20.46	1.07	0.92	0.40	-1.24	1.90	0.14
B1AS066	0.60			0.64	-6.76		-6.76	20.67	0.51	0.78	0.43	-0.46	3.08	0.13
B1AS073	0.63			0.59	-6.84		-6.84	19.71	0.55	0.82	0.37	-0.85	2.29	0.22
B1AS079	1.24			0.65	-10.01		-10.01	18.66	1.24	0.79	0.46	7.91	0.44	0.07
B1AS080	0.48			0.51	-5.63		-5.63	21.52	0.38	0.76	0.37	-1.62	3.26	0.19
B1AS081	0.64			0.59	-5.45		-5.45	21.05	0.56	0.77	0.48	-1.19	2.78	0.14
B1AS101	0.82			0.62	-5.60		-5.60	23.28	1.20	0.72	0.46	-1.01	1.24	0.09
B1AS103	0.93			0.67	-5.74		-5.74	19.77	0.57	0.81	0.58	-0.55	1.30	0.14
B1AS109	1.02			0.64	-5.54	0.59	-5.54	19.73	2.32	0.89	0.21	-0.45	2.68	0.31
B1AS117	0.49			0.58	-6.96		-6.96	22.45	0.64	0.69	0.54	-0.86	0.94	0.10
B1AS137	1.29			0.64	-8.43		-8.43	19.83	0.26	0.76	0.52	-0.45	1.41	0.36
B1AS192	2.28			0.68	-7.49	0.28	-7.45	30.86	1.12	0.56	0.11	-0.26	4.74	1.98
B1AS243	0.70			0.55	-8.38		-8.38	19.53	0.21	0.82	0.37	-0.46	3.45	0.25
B1AS244	0.87			0.65	-5.30	0.66	-5.30	22.03	1.33	0.80	0.24	-0.55	3.45	0.37

REC-1-1-1

SOIL MOISTURE ANALYSIS

CARBONATATION

SAMPLE ID	ANCM	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
BIAS116	0.64					0.36	0.32	25.93	6.02	0.83	0.02	-0.36	1.14	1.26

B E C K - - - - 1

WHOLE ROCK ANALYSIS

CHLORITIZATION

SAMPLE ID	ANCH	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
B1A5104	-0.63				-5.59	0.22	-5.59	13.43	0.60	1.23	0.05	-0.19	8.16	5.94

B E C K - - - - 1

WHOLE ROCK ANALYSIS

MUSCOVITE ALUMINA ALTERATION

SAMPLE ID	ANOX	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
B1AS074	1.40			0.72	-8.37		-2.17	21.88	0.85	0.70	0.58	0.34	0.97	0.13
B1AS089	1.52			0.76	-11.73		-11.73	19.90	0.13	0.72	0.54	7.84	1.82	0.51
B1AS188	0.81			0.80	-5.27	0.76	-5.27	20.69	2.09	0.81	0.58	0.12	1.10	0.09

B E C K - - - - 1
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WHOLE ROCK ANALYSIS
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PROPYLITIZATION

SAMPLE ID	ANOM	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
B1AS003	-1.55				-1.10		-1.10	20.86	0.32	0.77	0.35	-4.11	1.58	0.04
B1AS007	-1.26				-1.81		-1.81	21.44	0.17	0.76	0.27	-4.42	7.40	0.09
B1AS019	0.52				-3.21		-3.21	24.46	1.70	0.77	0.12	-1.05	1.98	0.25
B1AS022	0.27			0.64	-2.50		-2.50	19.19	0.75	0.88	0.63	-0.84	1.50	0.08
B1AS027	-0.44				-2.93		-2.93	19.83	0.35	0.63	0.23	-3.59	2.23	0.13
B1AS028	-0.34				-1.45		-1.45	22.04	0.34	0.78	0.33	-3.00	5.65	0.12
B1AS029	-0.29				-2.57		-2.57	26.29	0.39	0.65	0.37	-3.18	5.53	0.11
B1AS039	0.73				-2.53		-2.53	17.28	1.95	1.04	0.28	-1.22	0.94	0.22
B1AS050	-0.17				-2.40		-2.40	21.25	0.46	0.80	0.37	-2.44	3.64	0.10
B1AS052	-1.31				-1.27		-1.27	19.62	0.18	0.82	0.27	-4.50	2.65	0.07
B1AS053	-0.21				-1.30		-1.30	21.06	0.47	0.84	0.34	-2.37	3.39	0.12
B1AS056	0.46				-1.97		-1.97	20.77	0.33	0.93	0.36	-2.48	3.54	0.15
B1AS068	-0.74				-1.98		-1.98	21.70	0.30	0.77	0.35	-3.28	2.17	0.08
B1AS087	0.03				-2.23		-2.23	22.55	0.64	0.80	0.26	-1.91	3.54	0.15
B1AS088	0.43			0.55	-3.24		-3.24	22.93	0.74	0.77	0.38	-1.44	4.45	0.15
B1AS093	-0.95				-2.49		-2.49	19.75	0.12	0.80	0.34	-3.83	3.59	0.12
B1AS094	0.38				-2.41		-2.41	23.97	1.26	0.75	0.33	-1.90	1.97	0.12
B1AS096	-0.36				-2.62		-2.62	22.34	0.50	0.77	0.25	-2.87	4.22	0.09
B1AS098	0.06			0.51	-1.62	0.67	-1.62	19.67	0.95	0.98	0.17	-0.63	6.56	0.54
B1AS100	0.09				-2.11		-2.11	22.43	0.47	0.79	0.39	-1.96	5.28	0.16
B1AS102	-0.46				-2.20		-2.20	21.71	0.37	0.79	0.33	-2.78	6.25	0.09
B1AS104	0.11				-3.18		-3.18	17.02	0.54	0.93	0.57	-1.64	0.87	0.12
B1AS106	-1.35				-1.22		-1.22	20.76	0.25	0.80	0.33	-3.75	3.14	0.08
B1AS108	0.27			0.54	-2.99		-2.99	22.38	0.61	0.78	0.41	-1.59	2.81	0.11
B1AS113	-1.15				-1.33		-1.33	20.52	0.17	0.79	0.30	-4.43	2.42	0.09

B E C K — — — 1

WHOLE ROCK ANALYSIS

PROPYLITIZATION

SAMPLE ID	ANDM	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
B1AS123	-0.07				-2.92		-2.92	19.44	0.68	0.86	0.45	-1.86	1.43	0.08
B1AS135	-0.11				-2.26		-2.26	17.62	0.37	0.94	0.38	-2.59	3.84	0.17
B1AS139	-0.94				-1.77		-1.77	28.34	0.30	0.63	0.19	-3.57	5.18	0.13
B1AS179	0.07				-2.93		-2.93	20.38	2.29	0.85	0.30	-2.14	0.71	0.07
B1AS180	0.16				-3.25		-3.25	17.93	0.36	0.91	0.46	-1.89	3.54	0.13
B1AS181	-0.88				-2.72		-2.72	20.46	0.27	0.76	0.37	-4.16	2.00	0.09
B1AS185	0.24			0.52	-1.62		-1.62	20.33	2.85	0.89	0.39	-1.33	0.66	0.06
B1AS187	0.72			0.72	-2.92	0.54	-2.92	13.73	1.30	1.29	0.40	-0.32	4.95	0.42
B1AS189	-0.90		5.61		-2.68		-2.68	19.37	0.25	0.83	0.40	-2.36	5.31	0.05
B1AS191	-0.36				-2.01		-2.01	21.59	0.61	0.84	0.24	-2.01	3.29	0.13
B1AS201	0.66				-1.66	0.65	-1.66	21.34	3.56	0.93	0.04	-0.64	1.48	0.68
B1AS207	0.10	75.30			-3.03		-3.03	17.01	1.16	0.99	0.39	-1.02	1.49	0.05
B1AS210	-0.66				-1.97		-1.97	18.60	0.37	0.92	0.05	-3.70	2.69	0.15
B1AS217	-0.60				-2.11		-2.11	22.14	0.41	0.79	0.36	-2.11	4.58	0.11
B1AS235	-0.39				-1.79		-1.79	18.90	1.29	0.90	0.18	-3.52	0.63	0.09
B1AS238	-0.24				-2.86		-2.86	18.92	1.16	0.84	0.40	-3.17	0.46	0.09
B1AS239	0.04				-1.13		-1.13	17.65	2.28	0.94	0.60	-1.80	0.26	0.06
B1BS005	-1.41				-1.72		-1.72	17.35	0.35	0.88	0.33	-2.49	1.16	0.04
B1BS006	-0.61				-1.13		-1.13	18.36	0.24	0.90	0.29	-3.72	4.19	0.14
B1BS011	-0.42				-1.03		-1.03	23.21	0.36	0.75	0.40	-3.05	5.51	0.12

B E C K - - - - 1

WHOLE ROCK ANALYSIS

SERICITIZATION

SAMPLE ID	ANCH	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
BIAS004	1.50			0.87	-9.65	0.73	-9.65	19.46	1.03	0.75	0.81	10.10	0.63	0.15

B E C K - - - - 1

WHOLE ROCK ANALYSIS

SILICIFICATION

SAMPLE ID	ANOM	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
BIAS054	1.15	75.50		0.74	-3.91	0.82	-3.91	15.10	2.95	1.11	0.56	-0.20	0.69	0.19
BIAS115	1.24	78.70		0.65	-7.36	0.99	-7.36	14.18	2.20	1.06	0.41	0.57	0.59	0.25
BIAS122	0.89	75.90			-5.51		-5.51	15.20	1.14	1.04	0.30	-1.43	0.58	0.30
BIAS176	1.58	75.60		0.85	-4.98	0.59	-4.98	16.18	13.52	1.01	0.70	0.84	0.12	0.11
BIAS178	0.41	77.10			-4.04		-4.04	15.11	1.08	1.11	0.10	-2.09	0.91	0.27
BIAS183	-0.01	77.40			-2.72		-2.72	14.80	1.23	1.08	0.38	-0.79	0.70	0.04
BIAS190	0.99	78.30			-2.40	0.84	-2.40	13.04	2.22	1.41	0.11	-0.78	1.72	0.53
BIAS202	1.04	76.10		0.76	-5.68	0.62	-5.68	14.10	1.06	1.14	0.49	0.25	2.71	0.27
BIAS205	0.97	75.30		0.77	-4.70	0.68	-4.70	15.00	1.43	1.10	0.56	0.20	2.08	0.17
BIAS241	-0.17	77.00			-1.71		-1.71	14.22	0.54	1.10	0.57	0.34	1.03	0.05

B E C K — — — — 1

WHOLE ROCK ANALYSIS

TOTAL DEPLETION

SAMPLE ID	ANOM	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
B1AS049	1.62			0.74	-11.25	0.19	-11.25	16.60	2.14	0.91	0.11	0.06	2.74	1.46
B1AS084	1.85	75.80	5.27	0.97	-14.12	0.10	-14.12	15.97	0.90	0.89	0.13	2.02	5.49	4.00

R E C O R D ----- 1

W H O L E R O C K A N A L Y S I S

U N A L T E R E D R O C K

SAMPLE ID	ANOM	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
B1AS009	-0.28						0.94	22.12	0.81	0.87	0.35	-1.85	6.96	0.10
B1AS040	-1.44						0.91	21.20	0.48	0.82	0.20	-4.67	1.57	0.03
B1AS041	-1.68						0.07	21.19	0.43	0.78	0.28	-4.58	0.97	0.03
B1AS046	-1.75						-0.56	20.06	0.10	0.79	0.21	-5.46	5.05	0.10
B1AS114	-1.50						0.59	18.24	0.30	0.92	0.24	-4.66	1.78	0.06
B1AS120	-0.20						-0.74	22.75	1.84	0.84	0.19	-1.84	0.94	0.08
B1AS124	-1.12						-0.72	19.05	0.17	0.92	0.11	-3.56	5.71	0.22
B1AS130	-1.57						0.78	24.12	0.51	0.74	0.20	-4.50	1.00	0.05
B1AS131	-1.60						-0.99	23.20	0.28	0.71	0.22	-5.23	1.82	0.04
B1AS132	-1.24						-0.30	19.49	0.58	0.85	0.18	-4.83	1.38	0.04
B1AS134	-1.66						3.11	30.30	0.39	0.64	0.14	-4.06	3.12	0.09
B1AS136	-0.60						-0.49	18.43	0.29	0.92	0.40	-3.25	2.99	0.11
B1AS144	1.15			0.72	-5.40		-5.40	17.81	1.70	0.92	0.56	-0.35	0.96	0.16
B1AS145	0.42			0.72			2.70	33.62	1.41	0.61	0.49	-0.98	1.44	0.15
B1AS194	-0.08						-0.99	27.82	0.20	0.65	0.11	-3.56	2.99	0.32
B1AS195	-0.38						0.83	20.02	1.57	0.92	0.44	-2.28	0.41	0.06
B1AS197	0.18			0.62			1.29	31.11	1.18	0.65	0.38	-1.16	1.61	0.14
B1AS199	-0.65						-0.60	22.36	1.25	0.84	0.32	-1.46	1.39	0.03
B1AS206	-0.11						0.87	23.70	3.17	0.83	0.24	-1.79	0.51	0.08
B1AS223	-1.77		6.69				-0.50	18.67	0.15	0.85	0.39	-3.44	2.12	0.04
B1AS237	-0.79	75.10					0.77	16.88	1.11	1.03	0.25	-3.58	0.84	0.04
B1AS240	-1.00						-0.71	18.71	0.61	0.86	0.46	-2.43	0.79	0.03
B1BS001	-0.22						0.36	19.64	0.59	0.92	0.36	-2.87	3.11	0.11
B1BS003	0.06			0.52			0.18	23.39	1.10	0.80	0.45	-1.87	2.74	0.08
B1BS004	-0.61						1.93	25.88	1.18	0.79	0.27	-1.51	3.07	0.09

B E C N - - - - 1

W H O L E R O C K A N A L Y S I S

U N A L T E R E D R O C K

SAMPLE ID	ANOH	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
B1BS007	-2.92		5.58				17.05	32.64	2.92	0.92	0.03	-2.02	0.56	0.02
B1BS008	-0.55						0.30	20.52	0.80	0.87	0.38	-2.80	1.13	0.05
B1BS009	-0.27						0.72	22.03	0.87	0.88	0.34	-1.70	4.14	0.10
B1BS010	-1.80						0.81	21.26	0.44	0.80	0.27	-4.77	1.76	0.03
B1BS012	-0.45						-0.70	22.77	0.32	0.78	0.34	-2.93	4.00	0.14

B L O K - - - - 1
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WHOLE ROCK ANALYSIS
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SERICITIZATION + ALUMINA ALTERATION

SAMPLE ID	ANOH	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
B1AS026A	0.70			0.59	-5.74		-5.74	18.14	0.67	0.36	0.55	0.57	1.29	0.07
B1AS026B	1.01			0.65	-7.27		-7.27	17.16	0.54	0.89	0.51	0.61	1.37	0.16
B1AS069	1.70		5.13	0.82	-10.61	0.64	-10.61	17.94	0.52	0.82	0.53	5.30	1.72	0.24
B1AS078	1.79			0.86	-11.92	0.55	-11.92	18.73	0.16	0.76	0.58	10.27	1.83	1.09
B1AS082	0.78			0.61	-6.22		-6.22	19.79	0.33	0.81	0.61	1.02	2.11	0.09
B1AS105	-0.28			0.65		0.55	0.76	23.89	1.95	0.67	0.22	-0.50	5.47	0.28
B1AS121	0.97	75.10		0.64	-7.44		-7.44	15.53	0.47	0.97	0.50	0.68	1.11	0.29
B1AS147	0.37			0.52	-6.41		-6.41	20.51	0.61	0.74	0.55	0.37	0.60	0.08
B1AS186A	1.29	76.40		0.74	-8.41		-8.41	16.27	1.62	0.51	0.60	3.34	0.44	0.18
B1AS196	-0.36			0.53		0.96	0.07	19.07	1.15	1.04	0.27	-0.84	2.36	0.18

B E C K - - - - 1

WHOLE ROCK ANALYSIS

FE CHLORITIZATION

SAMPLE ID	ANOM	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
B1AS129	-0.65				-3.89		-3.89	21.40	0.23	0.60	0.14	-2.23	4.25	0.28

B E C K - - - - 1

WHOLE ROCK ANALYSIS

ALUMINA ALTERATION (NAFIC)

SAMPLE ID	ANOH	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
B1AS216	1.58	76.10		0.71	-9.08	0.91	-9.08	14.46	0.27	1.00	0.49	3.03	1.23	0.62
B1AS219A	-0.03				-3.88		-3.88	20.92	0.72	0.82	0.20	-2.41	1.54	0.14
B1AS219B	0.05				-5.85		-5.85	22.15	0.86	0.69	0.51	-1.05	0.56	0.06
B1AS220	0.49				-5.13		-5.13	19.63	0.64	0.84	0.30	-1.74	1.82	0.13
B1AS227	-0.83		5.46		-4.33		-4.33	21.51	0.22	0.71	0.46	-1.13	1.77	0.04
B1AS242	1.25			0.73	-6.50	0.54	-6.50	20.82	2.07	0.82	0.28	-0.35	2.34	0.33

B E O N

WHOLE ROCK ANALYSIS

ALBITINA ALTERATION (MAFIC)

SAMPLE ID	ANOM	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
B1AS067	0.21			0.53	-3.47		-3.47	22.33	0.89	0.79	0.35	-1.30	3.18	0.10
B1AS070	0.40				-5.57		-5.57	20.48	0.59	0.82	0.16	-1.69	1.85	0.26
B1AS071	0.65				-6.44		-6.44	22.05	0.45	0.75	0.24	-1.38	2.60	0.27
B1AS072	0.99			0.70	-5.61	0.58	-5.61	21.64	1.47	0.81	0.27	-0.44	3.51	0.34
B1AS076	0.98			0.73	-4.32	0.79	-4.32	20.92	1.67	0.84	0.43	-0.54	2.68	0.20
B1AS077	0.86				-5.69	0.75	-5.69	20.51	1.21	0.86	0.13	-0.69	2.71	0.55
B1AS083	0.58				-5.47		-5.47	21.92	0.60	0.78	0.18	-1.57	2.44	0.32
B1AS085	0.96				-5.64	0.55	-5.64	20.55	2.43	0.88	0.03	-0.54	2.22	0.79
B1AS086	0.58				-3.34	0.43	-3.34	23.21	3.64	0.84	0.01	-0.43	3.17	0.90
B1AS091	0.75			0.83	-5.23	0.40	-5.23	23.80	2.26	0.75	0.36	-0.21	5.31	0.23
B1AS095	0.37				-5.65		-5.65	21.84	0.38	0.76	0.33	-1.53	6.10	0.20
B1AS097	0.14				-3.85		-3.85	22.67	0.54	0.77	0.24	-1.82	4.34	0.17
B1AS107	0.50				-3.71		-3.71	19.64	1.32	0.89	0.28	-1.38	1.65	0.16
B1AS110	1.23			0.75	-8.75	0.71	-8.75	20.02	0.67	0.79	0.40	-0.19	4.04	0.35
B1AS111	1.33			0.71	-10.20	0.68	-10.20	18.80	0.61	0.81	0.31	0.06	4.10	0.41
B1AS112	0.50				-5.39		-5.39	21.81	0.44	0.76	0.31	-1.88	5.06	0.20
B1AS119	0.53			0.56	-3.92		-3.92	18.03	0.93	0.91	0.52	-1.00	1.20	0.08
B1AS125	-0.78				-4.68		-4.68	21.80	0.56	0.70	0.28	-4.26	0.56	0.10
B1AS133	-0.71				-4.54		-4.54	29.05	0.26	0.55	0.39	-4.05	2.54	0.08
B1AS138	0.46				-7.85		-7.85	24.04	0.18	0.64	0.31	-2.43	2.07	0.26
B1AS146	0.29				-3.73		-3.73	18.16	1.14	0.91	0.43	-1.23	1.08	0.07
B1AS175	0.55				-6.18		-6.18	21.45	0.98	0.76	0.24	-2.05	1.02	0.11
B1AS204	0.23				-4.42		-4.42	19.19	1.51	0.84	0.48	-0.72	0.54	0.05
B1AS208	0.48			0.53	-3.93		-3.93	21.73	1.57	0.79	0.40	-1.59	0.97	0.13
B1AS209	-0.34				-3.92		-3.92	20.73	0.60	0.79	0.28	-2.77	1.65	0.08

B E C K — — — — 1

W H O L E R O C K A N A L Y S I S

ALUMINA ALYERATION (MAFIC)

SAMPLE ID	ANOM	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
BIAS006	0.24				-4.53		-4.53	20.29	0.24	0.60	0.26	-2.52	4.07	0.25
BIAS008	0.32			0.51	-3.84		-3.84	22.47	0.63	0.77	0.35	-1.52	3.75	0.14
BIAS012	0.56				-5.71		-5.71	22.00	1.15	0.78	0.18	-1.52		0.22
BIAS013	-1.11				-5.36		-5.36	28.28	0.14	0.55	0.32	-4.03	4.89	0.08
BIAS014	-0.41				-3.92		-3.92	21.59	0.20	0.77	0.28	-2.64	7.51	0.16
BIAS016	-0.49				-4.05		-4.05	19.43	0.13	0.91	0.31	-3.22	5.05	0.15
BIAS017	-0.49				-4.12		-4.12	24.40	0.27	0.70	0.04	-3.17	3.24	0.19
BIAS018	0.66				-6.14		-6.14	22.55	0.73	0.76	0.20	-1.00	3.97	0.32
BIAS020	1.39			0.71	-8.76	0.48	-8.76	16.67	0.96	0.94	0.25	-0.11	2.49	0.65
BIAS023	0.22			0.51	-3.36		-3.36	17.51	0.77	0.93	0.50	-1.22	1.50	0.08
BIAS032	0.49				-6.32		-6.32	23.11	0.38	0.72	0.26	-1.70	3.50	0.22
BIAS036	0.95				-6.81	0.56	-6.81	21.54	1.34	0.61	0.09	-0.52	3.44	0.76
BIAS042	1.47			0.73	-7.77	0.32	-7.77	20.43	5.73	0.84	0.16	-0.19	1.64	0.43
BIAS044	1.35			0.82	-10.71	0.29	-10.71	20.78	1.64	0.76	0.24	0.05	3.98	0.54
BIAS045	0.41				-4.41		-4.41	20.51	0.96	0.83	0.30	-1.76	2.01	0.15
BIAS048	0.51			0.56	-3.70		-3.70	20.84	1.29	0.84	0.34	-1.16	2.60	0.16
BIAS051	0.45				-4.94		-4.94	20.89	0.83	0.81	0.28	-1.77	1.47	0.18
BIAS055	0.27				-4.07		-4.07	21.40	0.81	0.79	0.38	-1.89	1.41	0.12
BIAS057	0.35			0.52	-3.73		-3.73	22.54	0.57	0.77	0.37	-1.57	3.77	0.16
BIAS058	-0.44				-3.66		-3.66	20.67	0.20	0.79	0.18	-3.50	2.44	0.19
BIAS059	0.46				-5.61		-5.61	20.85	0.51	0.80	0.18	-2.08	2.06	0.20
BIAS061	0.22				-5.07		-5.07	20.78	0.39	0.80	0.24	-1.82	3.08	0.18
BIAS062	1.33			0.76	-8.52	0.51	-8.52	19.30	1.11	0.93	0.32	-0.14	2.54	0.42
BIAS063	0.92				-5.75	0.95	-5.75	19.73	1.18	0.88	0.16	-0.84	1.83	0.35
BIAS064	1.37			0.84	-7.39	0.37	-7.39	20.50	2.09	0.81	0.38	0.02	1.55	0.24

B E O N
 北京有色金属研究总院 北京钢铁研究总院

WHOLE ROCK ANALYSIS

SAMPLE ID	SiO2	Al2O3	CaO	MgO	Na2O	K2O	Fe2O3	MnO	TiO2	P2O5	LOI	Sum
B2AS003	53.30	12.10	13.70	2.63	1.66	0.82	7.44	0.22	0.55	0.08	7.47	99.97
B2AS007	58.00	16.90	5.21	3.52	4.12	0.93	7.02	0.17	0.77	0.17	2.31	99.12
B2AS008	70.40	15.00	3.03	0.70	3.28	2.04	2.78	0.07	0.49	0.19	0.93	98.91
B2AS011	71.00	13.60	4.41	0.83	3.40	1.17	2.14	0.02	0.22	0.06	2.23	99.10
B2AS013	56.90	14.40	7.12	5.47	3.93	0.58	8.08	0.12	0.82	0.26	1.16	98.84
B2AS015	57.60	15.30	7.01	4.47	3.44	0.28	8.36	0.18	0.77	0.21	1.31	98.93
B2AS016	60.20	17.50	6.20	2.65	3.96	0.63	5.52	0.13	0.78	0.18	1.23	98.98
B2AS018	69.00	14.00	2.90	1.42	3.67	1.64	4.16	0.12	0.37	0.07	1.54	98.89
B2AS020	68.50	15.40	3.47	1.19	4.24	1.56	2.45	0.02	0.29	0.08	1.39	98.59
B2AS021	54.90	14.80	5.02	4.49	2.62	1.23	13.20	0.28	0.69	0.13	0.70	98.06
B2AS022	69.30	16.80	2.34	0.96	4.36	1.98	1.97	0.02	0.29	0.08	1.31	99.31
B2AS023	66.90	15.70	3.53	1.71	3.63	1.76	4.42	0.05	0.25	0.06	1.23	99.24
B2AS024	58.50	19.70	4.54	2.35	4.60	1.96	4.71	0.07	0.33	0.11	2.16	99.03
B2AS025	70.30	14.30	2.90	1.07	3.48	1.81	3.36	0.11	0.31	0.09	1.31	99.04
B2AS026	68.20	15.80	2.85	0.67	5.42	1.52	2.15	0.05	0.36	0.10	2.08	99.20
B2AS028	68.90	15.50	2.78	0.83	4.55	1.39	2.53	0.01	0.25	0.07	1.54	98.35
B2AS030	56.00	15.10	5.25	3.74	1.28	0.48	14.00	0.21	0.91	0.12	1.70	98.79
B2AS032	59.20	20.30	5.01	2.18	1.97	3.19	5.02	0.07	0.43	0.08	1.31	98.76
B2AS037	69.80	16.00	4.25	1.36	1.62	1.91	2.30	0.05	0.33	0.08	1.54	99.24
B2AS042	65.00	19.00	3.63	1.46	2.87	2.15	2.84	0.04	0.33	0.09	1.54	98.95
B2AS044	67.30	15.90	4.52	1.91	2.12	1.36	3.64	0.03	0.34	0.10	1.08	98.30
B2AS045	67.80	15.30	4.53	2.18	2.04	2.03	3.29	0.04	0.35	0.10	1.62	99.28
B2AS047	53.90	20.10	1.67	2.96	0.91	0.75	17.50	1.13	0.74	0.15	0.39	100.20
B2AS049	68.30	14.10	1.08	0.65	2.90	5.06	6.02	0.08	0.43	0.09	0.54	99.25
B2AS051	71.50	14.50	3.97	1.42	2.30	1.00	3.11	0.04	0.21	0.07	0.93	98.65
B2AS052	68.90	16.90	4.08	1.67	2.16	0.96	2.61	0.02	0.29	0.09	0.54	98.22
B2AS053	70.90	15.40	2.39	0.75	2.89	2.18	2.18	0.04	0.32	0.08	1.16	98.29
B2AS054	67.30	16.30	3.94	2.04	2.57	1.87	3.52	0.04	0.44	0.12	1.00	99.14
B2AS055	70.80	14.30	3.45	1.48	1.84	2.63	2.42	0.02	0.26	0.07	1.00	98.27
B2AS056	67.20	18.60	2.76	2.35	2.77	1.22	2.45	0.01	0.40	0.11	0.62	98.49

B L O C K 2
 B L O C K 2

WHOLE ROCK ANALYSIS

SAMPLE ID	SiO2	AL2O3	CaO	MgO	FeO	K2O	Fe2O3	Na2O	TiO2	P2O5	LOI	SUM
B2AS057	67.10	15.50	4.59	1.50	2.50	1.22	2.90	0.02	0.28	0.07	1.93	97.99
B2AS058	67.00	19.10	3.72	1.77	1.51	1.79	4.34	0.06	0.50	0.10	1.00	99.39
B2AS059	66.40	15.90	4.57	2.70	2.48	1.44	3.51	0.05	0.36	0.11	0.85	98.37
B2AS060	69.70	16.80	1.75	1.16	2.02	1.62	3.26	0.06	0.30	0.08	1.31	98.06
B2AS061	72.80	13.80	3.12	1.65	0.97	2.26	2.74	0.05	0.37	0.09	1.47	99.32
B2AS063	71.90	13.40	1.72	0.44	4.90	1.83	3.08	0.06	0.40	0.08	0.93	98.74
B2AS064	61.60	15.60	4.43	1.25	3.26	2.02	7.58	0.09	0.50	0.12	1.77	98.22
B2AS066	69.80	14.00	0.67	0.49	3.33	4.34	4.06	0.06	0.44	0.10	0.85	98.14
B2AS068	74.90	12.60	2.64	1.58	0.76	1.74	2.28	0.03	0.20	0.04	1.23	98.00
B2AS069	79.10	8.67	1.94	2.03	1.34	0.82	3.33	0.04	0.24	0.07	0.77	98.55
B2AS070	71.70	16.20	2.65	1.47	2.43	0.73	2.66	0.04	0.35	0.09	0.85	99.19
B2AS071	77.00	12.40	1.45	0.98	0.79	2.73	1.53	0.01	0.10	0.02	1.39	98.40
B2AS072	67.70	16.40	5.00	1.50	3.33	0.95	2.20	0.01	0.42	0.11	1.47	99.14
B2AS073	75.20	12.50	2.19	0.96	2.91	1.65	1.82	0.01	0.11	0.03	1.62	98.99
B2AS075	74.10	12.40	2.06	1.12	2.87	2.20	2.29	0.03	0.17	0.03	1.77	99.04
B2AS076	76.00	12.00	1.46	0.39	4.73	0.91	2.26	0.02	0.14	0.03	1.08	99.02
B2AS077	75.50	13.40	2.27	1.60	1.17	2.00	2.34	0.03	0.28	0.05	1.00	99.64
B2AS078	77.40	14.20	0.63	0.41	0.88	3.25	0.72	0.00	0.07	0.03	1.85	99.44
B2AS080	67.70	16.40	1.59	1.07	2.48	1.61	6.89	0.08	0.72	0.19	0.85	99.58
B2AS081	64.80	15.60	4.08	1.49	3.75	1.81	5.32	0.06	0.51	0.14	2.23	99.79
B2AS082	70.30	16.50	1.23	0.37	6.16	1.83	0.92	0.00	0.54	0.10	0.77	98.72
B2AS084	70.00	15.70	3.04	1.20	3.96	1.30	2.38	0.03	0.25	0.07	0.93	98.86
B2AS085	65.00	15.50	2.67	0.86	5.30	1.24	3.17	0.05	0.24	0.07	1.70	99.60
B2AS087	67.90	16.40	2.89	0.66	4.64	1.89	3.42	0.04	0.52	0.14	1.08	99.58
B2AS088	65.60	23.40	0.74	0.51	1.33	0.79	4.84	0.03	0.78	0.19	0.62	99.03
B2AS089	71.00	16.00	3.42	1.80	2.36	1.17	2.74	0.05	0.29	0.08	0.77	99.68
B2AS090	77.30	14.20	1.01	1.18	0.50	1.59	1.97	0.03	0.23	0.04	0.70	98.75
B2AS091	76.20	12.70	1.18	0.34	4.46	1.29	2.36	0.05	0.17	0.03	1.00	99.78
B2AS092	79.30	12.60	1.82	1.29	0.32	1.00	1.87	0.02	0.10	0.02	0.39	99.23
B2AS093	71.70	15.10	2.41	0.80	3.56	1.71	2.39	0.03	0.24	0.07	1.31	97.32

WHOLE PLUM ANALYSIS

SAMPLE ID	SI02	AL2O3	CaC	MGO	NA2O	K2O	FE2O3	MNO	TIO2	P2O5	LOI	SUM
B2AS096	71.60	11.80	0.88	0.82	1.89	3.15	3.32	0.16	0.19	0.04	0.77	99.42
B2AS097	69.30	15.90	2.94	0.74	5.67	0.70	2.34	0.02	0.60	0.14	0.23	98.63
B2AS099	63.60	14.90	4.22	1.80	3.91	1.77	5.84	0.17	0.33	0.07	2.31	98.92
B2AS100	59.00	16.20	5.30	3.70	4.32	0.10	8.87	0.18	0.68	0.15	0.62	99.12
B2AS101	68.90	15.80	3.85	1.07	3.51	1.05	3.78	0.04	0.57	0.14	0.70	99.41
B2AS103	68.30	18.10	2.50	0.70	3.22	2.50	2.75	0.09	0.28	0.08	1.23	99.78
B2AS104	79.00	12.80	0.81	0.52	0.64	2.69	1.17	0.01	0.21	0.04	1.39	99.28
B2AS105	74.00	13.20	2.80	1.61	1.30	1.61	3.37	0.05	0.23	0.05	0.77	99.01
B2AS106	70.00	16.20	2.97	1.84	2.44	0.83	3.34	0.04	0.36	0.10	1.23	99.85
B2AS107	69.60	15.30	1.98	0.91	5.06	1.21	4.01	0.01	0.36	0.10	0.93	99.47
B2AS108	71.70	15.20	3.82	2.22	2.34	0.87	2.01	0.02	0.30	0.10	0.77	99.37
B2AS109	69.10	15.70	4.38	1.90	2.80	1.22	2.49	0.04	0.36	0.10	1.54	99.63
B2AS110	76.70	13.90	1.55	0.58	0.95	3.15	1.25	0.02	0.25	0.05	1.54	99.94
B2AS111	71.60	15.20	3.23	1.38	2.48	1.36	2.37	0.03	0.26	0.07	0.85	98.60
B2AS112	76.40	13.10	3.19	1.34	0.62	0.64	2.71	0.04	0.36	0.08	0.47	98.92
B2AS114	73.40	13.90	1.75	0.68	1.35	3.06	2.76	0.04	0.27	0.03	1.85	99.01
B2AS116	71.60	13.50	0.14	1.64	0.19	2.68	7.82	0.20	0.30	0.04	1.77	99.81
B2AS120	73.10	14.90	2.35	1.72	1.78	0.97	2.82	0.04	0.38	0.12	0.77	98.91
B2AS122	70.80	15.20	3.57	1.51	1.93	1.99	3.35	0.04	0.54	0.09	0.93	99.91
B2AS123A	64.90	14.90	3.73	2.29	3.83	1.06	6.50	0.06	0.39	0.08	0.93	98.61
B2AS123B	75.70	13.00	4.75	0.52	1.63	1.01	1.03	0.02	0.03	0.04	1.77	99.51
B2AS124	77.00	12.50	1.89	1.24	0.98	2.28	1.26	0.01	0.11	0.05	1.31	98.11
B2AS125	72.20	15.30	3.63	1.75	2.42	1.14	2.30	0.03	0.21	0.06	0.47	99.51
B2AS126	73.60	13.20	2.61	1.60	1.73	1.54	3.59	0.04	0.31	0.06	0.77	99.01
B2AS127	68.00	15.60	3.97	2.31	2.35	0.47	4.71	0.06	0.39	0.11	1.47	99.11
B2AS129	68.00	15.70	4.36	1.49	1.64	1.82	4.83	0.06	0.43	0.12	1.08	99.11
B2AS130	68.50	16.00	3.73	1.71	2.21	2.04	3.04	0.04	0.45	0.09	1.16	98.11
B2AS131	69.30	16.00	4.22	2.37	2.95	1.17	1.82	0.02	0.24	0.08	1.00	99.11
B2AS132	68.00	14.50	2.81	2.52	3.37	1.91	4.99	0.05	0.39	0.08	0.77	99.11
B2AS134	76.40	13.90	1.95	0.37	4.33	0.99	0.72	0.00	0.07	0.03	0.70	99.11

WHOLE ROCK ANALYSIS

SAMPLE ID	SiO2	AL2O3	CaO	K2O	Na2O	TiO2	Fe2O3	MnO	TiO2	P2O5	LOI	SUM
B2AS139	72.00	14.30	2.72	1.87	0.24	1.30	2.46	0.03	0.39	0.08	1.23	99.08
B2AS141	66.50	16.80	4.06	1.82	2.99	1.76	3.10	0.04	0.46	0.11	1.54	99.10
B2AS143B	60.70	14.10	8.51	4.06	1.15	1.27	6.67	0.15	0.36	0.08	2.77	99.8-
B2AS144	70.50	15.10	2.78	0.92	4.98	0.91	2.93	0.03	0.30	0.08	0.62	99.15
B2AS145	58.50	17.20	4.69	3.05	3.45	2.13	8.27	0.14	0.49	0.08	1.00	99.00
B2AS146	70.00	15.30	2.98	1.64	2.69	1.71	3.17	0.06	0.31	0.11	1.23	99.2-

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WHOLE ROCK ANALYSIS

SAMPLE ID	SiO2	AL2O3	CaO	FeO	Na2O	K2O	Fe2O3	MnO	TiO2	P2O5	LOI	SUM
B1AS003	69.00	16.50	2.43	0.69	5.26	1.92	2.07	0.02	0.25	0.09	1.31	99.54
B1AS004	70.80	17.40	0.72	0.60	0.73	4.68	1.37	0.00	0.18	0.06	2.16	98.70
B1AS006	67.40	15.40	2.33	2.60	2.72	1.31	5.85	0.05	0.35	0.09	1.39	99.74
B1AS007	65.60	16.20	2.58	1.44	4.81	1.44	4.63	0.03	0.46	0.08	0.62	98.89
B1AS008	66.70	15.90	3.81	1.92	1.77	1.85	4.89	0.06	0.50	0.08	1.31	98.79
B1AS009	68.30	14.40	5.47	2.11	2.00	1.69	4.84	0.10	0.43	0.09	0.70	100.13
B1AS011	66.70	14.30	3.20	2.23	1.32	1.81	5.40	0.07	0.48	0.08	1.62	99.21
B1AS012	67.40	16.40	3.48	2.18	1.35	1.01	2.78	0.05	0.28	0.07	1.47	98.97
B1AS013	60.40	20.10	2.44	1.26	4.72	2.12	5.29	0.04	0.62	0.10	1.08	98.37
B1AS014	65.40	15.70	2.87	2.03	2.89	1.48	6.96	0.10	0.50	0.08	0.93	98.94
B1AS016	69.00	15.70	1.93	1.81	3.77	1.61	5.44	0.06	0.54	0.09	1.08	100.73
B1AS017	63.90	16.70	3.80	2.45	3.19	0.20	6.20	0.08	0.55	0.09	1.93	99.09
B1AS018	66.30	16.00	3.66	2.38	1.12	1.09	6.37	0.10	0.49	0.09	1.62	99.42
B1AS019	66.50	15.90	5.49	2.35	1.10	0.62	4.20	0.10	0.50	0.09	2.16	99.01
B1AS020	71.60	14.00	1.70	1.82	0.48	1.16	5.29	0.11	0.41	0.08	2.16	98.81
B1AS022	67.30	14.40	3.09	1.17	1.68	3.04	3.49	0.12	0.28	0.07	2.39	99.03
B1AS023	73.10	14.40	2.43	0.91	2.31	2.42	1.95	0.03	0.24	0.06	1.31	99.16
B1AS024A	72.30	15.50	1.77	0.63	1.99	2.85	1.90	0.01	0.38	0.06	1.47	98.86
B1AS024B	73.10	15.10	1.40	0.91	1.42	2.58	2.63	0.02	0.33	0.07	1.93	99.49
B1AS027	70.70	15.70	2.74	1.79	3.83	1.18	2.90	0.04	0.38	0.10	1.31	100.67
B1AS028	66.60	15.40	3.70	2.16	3.22	1.74	4.80	0.06	0.54	0.09	0.85	99.36
B1AS029	63.50	18.00	3.95	2.40	3.41	2.19	4.28	0.03	0.58	0.09	0.77	99.26
B1AS030	68.70	15.10	4.32	2.30	0.61	1.39	4.89	0.09	0.46	0.08	0.85	98.79
B1AS031	67.80	17.20	2.40	1.72	1.45	2.40	4.62	0.07	0.50	0.09	1.39	99.64
B1AS032	65.80	16.90	3.10	2.32	1.91	1.49	6.12	0.11	0.61	0.09	1.77	100.21
B1AS034	67.00	15.30	3.36	2.04	0.94	1.66	5.66	0.09	0.45	0.08	1.77	98.30
B1AS035	70.60	14.20	2.00	1.30	1.21	2.60	5.26	0.05	0.38	0.08	1.39	99.07
B1AS036	64.40	19.10	3.71	2.82	0.56	0.44	7.08	0.12	0.52	0.09	2.08	98.94
B1AS039	72.80	12.70	3.64	2.69	1.38	1.20	1.93	0.04	0.20	0.05	2.08	98.31
B1AS040	68.80	15.50	3.68	0.70	5.07	1.03	2.16	0.04	0.49	0.11	1.39	98.97

B I A S I C
 基本数据表

G R A D E P O I N T T O T A L P O I N T S

SAMPLE ID	SI02	AL203	CAO	RSO	NA2O	RSO	PLI35	RSO	TIC2	P205	LOI	SUM
B1AS041	67.80	15.90	2.99	0.70	5.23	1.47	1.65	0.02	0.24	0.05	1.93	98.27
B1AS042	72.00	15.50	3.54	1.78	0.32	0.05	2.75	0.05	3.44	0.07	1.70	99.31
B1AS043	69.30	16.40	3.11	1.56	0.52	1.10	4.95	0.11	0.46	0.07	1.62	99.20
B1AS044	68.50	16.60	2.12	1.85	0.29	1.53	6.35	0.14	0.51	0.08	1.62	99.39
B1AS045	70.60	15.70	3.34	1.82	2.02	1.56	2.46	0.03	0.30	0.08	1.23	99.14
B1AS046	66.50	15.40	2.14	1.48	5.80	1.09	5.07	0.03	0.43	0.08	1.00	99.07
B1AS047	70.50	15.90	3.07	1.65	1.26	2.13	2.47	0.04	0.31	0.08	1.31	99.12
B1AS048	69.80	15.20	3.93	1.99	1.35	1.73	3.16	0.06	0.27	0.08	1.23	98.83
B1AS049	73.40	14.80	1.42	1.51	0.19	0.54	4.98	0.12	0.43	0.07	1.85	99.31
B1AS050	68.30	15.60	3.49	1.67	2.77	1.91	3.90	0.07	0.43	0.08	1.63	99.30
B1AS051	69.70	15.90	3.25	2.01	1.99	1.46	2.80	0.05	0.30	0.08	1.93	99.47
B1AS052	68.90	15.50	2.25	1.02	5.11	1.39	3.47	0.03	0.43	0.07	1.31	99.35
B1AS053	67.70	14.80	3.95	1.66	2.59	1.68	4.68	0.06	0.45	0.08	1.39	99.34
B1AS054	75.50	12.50	2.49	1.52	0.82	2.35	1.47	0.02	0.12	0.03	2.16	98.98
B1AS055	69.30	16.20	3.30	1.77	2.24	2.06	2.59	0.03	0.31	0.08	1.85	99.73
B1AS056	66.70	14.80	3.42	2.27	2.71	1.78	5.42	0.06	0.89	0.09	1.54	99.65
B1AS057	65.90	15.80	3.73	2.23	1.80	1.95	5.19	0.09	0.49	0.08	1.39	98.65
B1AS058	66.40	15.50	2.55	2.20	3.66	0.92	5.01	0.10	0.45	0.08	2.08	98.95
B1AS059	69.30	16.00	3.00	1.90	2.25	0.92	3.73	0.10	0.50	0.08	1.85	99.61
B1AS061	67.80	15.50	3.03	1.78	2.05	1.26	5.42	0.07	0.49	0.09	1.77	99.21
B1AS062	69.00	15.30	2.21	2.02	0.51	1.65	5.57	0.11	0.47	0.08	2.23	99.18
B1AS063	70.20	14.70	3.51	2.11	0.95	0.78	4.47	0.06	0.44	0.08	2.47	99.71
B1AS064	69.80	15.80	3.02	1.68	0.37	1.98	3.77	0.08	0.44	0.08	2.47	99.41
B1AS066	68.00	16.00	2.48	1.13	1.27	2.38	5.43	0.06	0.48	0.08	1.77	98.91
B1AS067	68.30	15.50	4.16	1.45	1.41	1.84	4.13	0.07	0.43	0.07	1.31	99.21
B1AS068	67.00	16.00	3.12	1.33	3.72	1.84	4.00	0.04	0.43	0.08	1.85	99.41
B1AS069	72.30	16.30	0.76	0.64	0.64	2.89	3.28	0.05	0.52	0.09	1.93	99.41
B1AS070	69.00	15.40	3.18	2.19	1.81	0.83	4.22	0.08	0.32	0.08	2.31	99.41
B1AS071	66.00	16.10	3.04	2.35	1.56	1.79	6.15	0.09	0.57	0.09	2.23	99.41
B1AS072	66.90	15.20	3.84	2.55	0.58	1.36	6.42	0.11	0.55	0.09	1.85	99.41

D E L T A
 德 尔 塔 有 限 公 司

W H I T E B L A C K G R A N I T E

SAMPLE ID	SI02	AL2O3	CaO	K2O	Na2O	K2O	FE2O3	MnO	TiO2	P2O5	LOI	SUM
B1AS073	59.40	15.60	2.39	1.48	1.33	1.91	4.68	0.10	0.44	0.07	2.08	99.68
B1AS074	68.20	17.80	1.82	1.14	1.33	3.46	2.29	0.03	0.55	0.09	2.39	99.10
B1AS076	68.70	15.10	3.80	2.31	0.79	2.18	4.11	0.05	0.39	0.07	1.54	99.04
B1AS077	68.10	14.60	3.77	2.83	0.75	0.61	5.94	0.12	0.40	0.08	2.23	99.43
B1AS078	70.10	17.00	0.27	1.13	0.83	3.30	4.36	0.04	0.49	0.09	2.39	99.72
B1AS079	74.10	17.20	0.98	0.29	1.45	2.66	0.78	0.01	0.33	0.09	1.77	99.66
B1AS080	66.90	16.20	2.73	2.11	1.97	2.01	5.22	0.10	0.49	0.08	1.62	99.43
B1AS081	68.60	16.30	2.69	1.62	1.79	2.60	3.83	0.06	0.46	0.08	1.39	99.42
B1AS082	70.60	16.00	1.44	0.73	2.09	3.27	2.94	0.02	0.52	0.09	1.39	99.09
B1AS083	67.00	15.80	3.51	2.92	1.66	0.96	5.04	0.07	0.39	0.07	2.08	99.50
B1AS084	75.80	15.60	0.32	0.96	0.10	0.65	5.06	0.10	0.48	0.09	0.93	100.09
B1AS085	69.80	14.60	4.26	2.33	0.55	0.14	4.55	0.10	0.41	0.08	2.08	98.90
B1AS086	67.90	14.90	5.82	2.56	0.43	0.06	5.31	0.11	0.43	0.07	1.70	99.29
B1AS087	67.00	15.40	4.47	2.33	2.04	1.34	4.89	0.07	0.44	0.08	1.39	99.45
B1AS088	66.40	15.90	4.12	2.29	1.66	2.04	4.79	0.06	0.50	0.08	1.08	98.92
B1AS089	69.20	17.70	0.41	0.87	1.02	3.16	4.31	0.05	0.56	0.09	2.39	99.76
B1AS091	65.30	16.10	4.34	2.39	0.40	1.95	6.86	0.15	0.49	0.08	1.31	99.37
B1AS093	67.10	15.50	1.93	1.41	4.48	1.77	4.96	0.06	0.47	0.08	1.39	99.15
B1AS094	67.40	16.60	4.71	2.16	2.08	1.80	2.57	0.03	0.49	0.09	1.31	99.44
B1AS095	66.30	16.10	2.94	2.14	1.81	1.79	6.09	0.07	0.49	0.09	1.00	98.82
B1AS096	68.90	16.40	3.84	1.60	3.09	1.37	3.56	0.07	0.46	0.08	0.85	100.22
B1AS097	66.70	15.90	3.98	2.15	1.97	1.26	5.30	0.08	0.49	0.08	1.23	99.14
B1AS098	65.30	12.20	4.69	3.46	0.67	0.70	10.50	0.19	0.41	0.08	1.62	99.82
B1AS100	65.40	15.30	3.99	2.69	2.15	2.00	5.67	0.08	0.46	0.08	1.08	98.90
B1AS101	68.10	17.50	3.35	1.28	1.63	2.68	2.45	0.04	0.54	0.09	2.00	99.66
B1AS102	67.60	15.00	3.50	1.51	2.11	1.74	4.40	0.04	0.46	0.08	0.70	98.94
B1AS103	68.80	15.70	2.19	1.43	1.52	3.03	3.59	0.02	0.47	0.08	2.77	99.60
B1AS104	72.40	14.30	1.90	1.27	2.76	2.70	1.81	0.01	0.16	0.05	2.08	99.44
B1AS105	63.50	13.40	6.55	2.83	0.55	1.00	8.73	0.19	0.38	0.09	1.62	98.84
B1AS106	67.60	15.50	2.95	1.36	4.17	1.68	4.12	0.03	0.37	0.07	1.31	99.16

B I O C H E M I S T R Y
 FEDERAL BUREAU OF INVESTIGATION
 LABORATORY

W H O L E R O C K A N A L Y S I S

SAMPLE ID	SI02	AL2O3	CAO	FeO	NA2O	K2O	FE2O3	MRO	TIO2	P2O5	LOI	SUM
B1AS107	71.70	14.60	3.72	1.62	1.59	1.40	2.53	0.03	0.27	0.08	1.34	99.48
B1AS108	67.90	13.00	3.98	1.76	1.91	2.21	3.66	0.05	0.43	0.08	1.31	99.29
B1AS109	71.30	14.70	3.80	1.90	0.59	1.03	3.16	0.07	0.40	0.07	1.59	99.21
B1AS110	68.90	13.10	2.04	2.02	0.71	2.15	6.15	0.11	0.52	0.08	1.54	100.32
B1AS111	70.90	16.00	1.53	1.45	0.68	1.65	5.30	0.11	0.50	0.08	1.31	99.51
B1AS112	68.20	16.50	3.06	2.35	2.12	1.72	4.70	0.06	0.51	0.09	0.93	100.24
B1AS113	67.20	15.70	2.43	1.42	4.88	1.56	4.26	0.04	0.29	0.08	1.77	99.83
B1AS114	70.70	14.20	2.76	1.10	3.04	1.13	2.60	0.03	0.24	0.06	1.47	99.35
B1AS115	78.70	13.40	1.28	0.91	0.99	1.82	0.84	0.02	0.08	0.03	1.46	99.53
B1AS116	64.20	14.30	7.51	4.37	0.36	0.10	4.93	0.15	0.33	0.11	4.47	100.85
B1AS117	68.30	18.20	1.96	1.03	2.40	3.25	1.82	0.01	0.33	0.08	1.93	99.36
B1AS119	73.60	14.90	2.55	0.99	2.03	2.59	1.93	0.02	0.35	0.10	1.62	100.68
B1AS120	70.00	15.40	3.54	1.32	1.98	0.19	2.17	0.02	0.33	0.10	2.31	100.16
B1AS121	75.10	14.30	1.04	1.12	1.37	2.39	2.20	0.04	0.12	0.04	2.00	99.72
B1AS122	75.90	13.40	1.77	1.73	1.87	1.35	1.19	0.02	0.15	0.04	2.08	99.50
B1AS123	71.70	15.30	3.03	1.14	2.53	2.30	2.50	0.05	0.26	0.06	1.77	100.64
B1AS124	66.70	13.40	3.31	3.01	3.61	0.48	7.93	0.07	0.29	0.07	1.39	100.26
B1AS125	69.90	13.30	1.74	1.14	3.11	1.69	0.87	0.00	0.36	0.08	1.54	100.73
B1AS129	64.70	14.80	3.41	2.88	2.30	0.69	9.09	0.09	0.28	0.07	2.16	100.47
B1AS130	66.60	16.60	4.52	1.43	4.67	1.10	2.72	0.05	0.31	0.08	2.77	100.85
B1AS131	67.30	17.50	3.03	0.92	5.69	1.27	2.67	0.03	0.52	0.10	1.47	100.50
B1AS132	71.90	15.50	2.93	0.73	5.26	0.91	1.37	0.02	0.46	0.08	1.00	100.16
B1AS133	61.60	20.60	2.93	1.65	4.60	2.67	3.52	0.03	0.64	0.10	1.39	99.73
B1AS134	59.80	17.10	6.73	2.82	4.10	0.82	5.97	0.09	0.53	0.13	1.93	100.01
B1AS135	71.90	14.00	2.66	2.08	2.91	1.77	3.56	0.05	0.25	0.04	0.93	100.11
B1AS136	70.40	14.10	2.96	1.76	3.61	1.90	4.07	0.11	0.37	0.09	1.39	100.70
B1AS137	68.20	16.60	1.23	2.00	1.62	2.87	4.11	0.05	0.53	0.08	2.93	100.21
B1AS138	64.10	18.30	1.96	2.42	2.83	1.89	5.39	0.06	0.65	0.11	2.62	100.33
B1AS139	61.60	18.10	4.86	2.93	3.65	1.12	6.35	0.07	0.53	0.09	1.23	100.51
B1AS144	73.80	14.80	2.48	1.55	1.06	2.74	1.97	0.04	0.27	0.08	2.08	100.80

WHOLE ROCK ANALYSIS

SAMPLE ID	SI02	AL2O3	CaO	MgO	Na2O	K2O	FE2O3	MNO	TIO2	P2O5	LOI	SUM
B1AS145	54.60	16.40	7.74	4.40	1.06	2.70	7.40	0.12	0.79	0.18	5.23	100.62
B1AS146	74.00	14.90	2.77	0.80	2.20	2.14	1.53	0.02	0.29	0.08	1.47	100.25
B1AS147	70.60	17.60	1.44	0.68	2.95	3.25	1.15	0.01	0.37	0.08	1.93	100.06
B1AS175	70.80	17.10	2.87	1.19	2.45	1.37	1.71	0.03	0.52	0.07	1.70	99.81
B1AS176	75.60	13.80	2.29	0.99	0.59	3.24	0.41	0.03	0.27	0.05	3.54	100.81
B1AS178	77.10	12.80	2.52	1.76	2.18	0.41	1.53	0.02	0.11	0.04	1.70	100.17
B1AS179	72.80	15.80	3.71	1.07	2.54	1.59	0.91	0.03	0.30	0.07	1.31	100.13
B1AS180	71.20	14.40	2.43	1.47	2.51	2.22	3.82	0.04	0.39	0.11	1.08	99.67
B1AS181	69.50	16.90	1.80	1.21	5.12	2.08	1.84	0.02	0.41	0.11	0.92	99.91
B1AS183	77.40	13.20	1.86	0.38	3.12	1.65	0.69	0.02	0.26	0.07	1.00	99.65
B1AS184	61.90	9.25	1.68	3.79	0.22	0.16	18.30	0.25	0.09	0.03	3.00	98.67
B1AS185	72.20	14.90	4.40	0.98	1.78	1.95	1.24	0.05	0.30	0.07	1.93	99.80
B1AS186A	76.40	15.40	0.95	0.73	1.09	3.07	0.77	0.01	0.12	0.03	1.77	100.34
B1AS187	74.30	10.60	2.81	2.30	0.54	1.42	5.72	0.07	0.13	0.03	1.16	99.08
B1AS188	69.70	15.80	3.16	1.10	0.76	3.07	2.84	0.06	0.24	0.06	2.62	99.41
B1AS189	70.80	15.60	2.43	0.67	3.65	2.10	3.76	0.01	0.27	0.11	0.70	100.10
B1AS190	78.30	10.20	3.23	2.07	0.84	0.38	2.47	0.08	0.16	0.07	1.47	99.27
B1AS191	68.70	15.10	4.40	1.94	2.15	1.22	4.82	0.05	0.27	0.06	1.47	100.16
B1AS192	48.50	15.80	3.88	6.69	0.28	0.59	17.70	0.20	1.85	0.15	3.77	99.41
B1AS194	56.50	16.10	4.57	6.05	3.53	0.61	9.12	0.11	0.74	0.16	3.08	100.62
B1AS195	70.40	14.10	1.23	2.66	2.06	1.52	0.03	0.21	0.06	3.77	100.47	
B1AS196	69.00	12.20	5.11	1.84	0.96	1.10	6.62	0.12	0.17	0.08	2.85	100.04
B1AS197	57.30	14.30	7.14	3.28	1.25	2.06	6.89	0.07	0.76	0.21	4.31	99.57
B1AS199	70.10	15.40	5.21	0.60	1.99	1.65	3.00	0.02	0.21	0.08	2.16	100.41
B1AS201	70.10	13.80	5.87	3.26	0.65	0.17	3.62	0.04	0.23	0.05	2.47	100.21
B1AS202	76.10	12.30	1.81	1.27	0.62	2.01	3.92	0.09	0.19	0.05	1.47	99.81
B1AS204	72.60	15.90	2.42	0.58	2.52	2.52	0.91	0.01	0.27	0.07	1.70	99.51
B1AS205	75.30	12.60	2.25	1.18	0.68	2.34	3.30	0.09	0.19	0.05	1.62	99.61
B1AS206	69.20	15.30	6.27	1.60	1.91	1.24	1.48	0.02	0.35	0.08	2.93	100.31
B1AS207	75.30	14.00	2.84	0.53	2.22	1.81	1.57	0.05	0.23	0.15	1.08	99.71

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 北京国家地质研究所地质研究所地质研究所

W H I T E T O O K A N A L Y S I S

SAMPLE ID	SiO2	AL2O3	CaO	NOO	Na2O	K2O	Fe2O3	MgO	TiO2	P2O5	LOI	SUM
B1AS208	69.90	16.30	3.67	1.89	1.90	2.17	1.76	0.04	0.26	0.07	1.85	99.81
B1AS209	71.30	16.50	2.94	1.06	3.26	1.53	2.15	0.03	0.32	0.03	1.31	100.46
B1AS210	71.30	14.30	3.14	1.08	3.74	0.25	3.26	0.07	0.29	0.07	1.23	99.53
B1AS216	76.10	14.00	0.47	1.23	0.91	2.28	2.73	0.02	0.30	0.06	2.23	100.33
B1AS217	66.90	15.50	3.98	1.79	2.37	1.86	5.89	0.16	0.28	0.07	1.31	100.11
B1AS219A	70.60	15.90	3.52	1.77	2.58	1.08	2.69	0.06	0.29	0.07	1.77	100.33
B1AS219B	69.40	18.40	1.81	0.72	3.44	3.12	0.87	0.00	0.37	0.03	1.54	99.75
B1AS220	71.70	15.70	2.81	1.36	2.16	1.59	2.91	0.05	0.46	0.03	1.62	100.44
B1AS223	69.50	15.10	1.96	0.54	5.28	1.95	3.61	0.02	0.24	0.10	1.70	100.00
B1AS227	68.80	17.70	1.76	0.50	4.24	2.74	2.73	0.01	0.34	0.14	1.54	100.50
B1AS235	72.90	14.90	3.22	1.40	3.71	0.87	0.97	0.01	0.30	0.03	1.54	99.85
B1AS237	75.10	13.40	3.27	0.64	4.12	1.12	1.02	0.02	0.36	0.09	1.23	100.37
B1AS238	72.20	15.80	2.16	1.23	3.96	2.11	0.67	0.01	0.31	0.07	1.47	99.99
B1AS239	73.40	14.30	2.74	0.90	2.96	2.85	0.58	0.00	0.27	0.05	2.23	100.28
B1AS240	71.70	15.40	2.24	0.45	4.76	2.35	1.10	0.01	0.33	0.10	1.39	99.83
B1AS241	77.00	12.90	1.50	0.43	3.43	2.43	1.15	0.05	0.25	0.04	1.16	100.34
B1AS242	68.90	15.40	3.46	2.22	0.54	1.43	4.43	0.10	0.47	0.03	1.93	98.96
B1AS243	70.50	15.80	1.38	1.24	1.61	1.96	5.79	0.11	0.51	0.09	1.70	100.69
B1AS244	66.70	15.30	4.07	2.82	0.66	1.23	6.60	0.09	0.51	0.09	1.93	100.00
B1BS001	69.70	14.00	4.00	2.17	3.06	1.67	3.17	0.05	0.41	0.09	1.00	99.30
B1BS003	67.10	15.50	5.14	1.73	2.13	2.35	3.14	0.07	0.53	0.03	1.16	98.93
B1BS004	64.70	15.10	6.92	1.82	1.62	1.36	5.18	0.07	0.42	0.03	1.70	98.97
B1BS005	72.30	15.10	1.40	0.42	5.35	1.68	1.08	0.01	0.13	0.03	0.93	98.40
B1BS006	69.80	14.20	2.65	2.01	3.98	1.33	3.89	0.05	0.38	0.07	0.93	99.30
B1BS007	60.80	12.20	13.90	0.60	2.03	0.11	3.35	0.23	0.28	0.07	6.39	99.90
B1BS008	70.00	14.80	4.09	0.95	3.28	1.85	2.22	0.05	0.42	0.11	2.00	99.70
B1BS009	67.70	14.20	5.41	1.91	1.86	1.62	4.75	0.09	0.40	0.09	1.16	99.10
B1BS010	68.40	15.80	3.32	0.77	5.33	1.42	2.04	0.02	0.25	0.09	1.16	98.60
B1BS011	65.00	16.00	3.84	2.47	3.28	2.15	4.65	0.09	0.45	0.09	0.85	98.80
B1BS012	64.20	15.20	4.02	2.79	3.08	1.73	5.85	0.07	0.46	0.11	1.47	98.90

U.S. GEOLOGICAL SURVEY
 WATER RESOURCES DIVISION
 NATIONAL WATER RESEARCH INSTITUTE

WATER QUALITY ANALYSIS

SAMPLE ID	SiO2	AL2O3	CaO	MgO	Na2O	K2O	Fe2O3	MNO	TiO2	P2O5	LOI	SUN
B1-0081.0	68.60	15.60	2.66	0.83	5.38	1.46	2.00	0.01	0.24	0.06	2.23	99.07
F1-0191.0	45.20	11.50	7.19	4.44	0.80	0.20	27.20	1.10	0.62	0.13	0.00	98.38
1-0208.6	58.80	24.20	1.54	1.11	2.95	3.86	2.65	0.08	0.94	0.08	2.39	98.60
12-0042.0	65.60	15.30	4.62	1.30	5.92	0.80	2.55	0.03	0.26	0.06	2.47	98.91
B2-0283.0	45.90	12.60	7.04	4.53	1.30	0.31	25.70	1.02	0.53	0.12	0.00	99.05
B3-0068.0	74.30	16.60	0.99	0.49	1.21	2.92	0.65	0.01	0.32	0.09	1.54	99.12
B3-0148.0	71.90	15.90	1.79	1.15	1.78	2.02	2.78	0.03	0.28	0.07	1.54	99.24
B3-0157.0	77.00	15.50	0.86	0.36	1.12	1.96	1.04	0.00	0.29	0.08	1.47	99.68
B3-0178.1	51.00	14.70	9.21	6.12	0.79	0.38	13.70	0.25	0.89	0.07	0.93	98.04
B3-0178.6	51.10	16.30	5.28	5.61	0.82	0.98	15.00	0.19	1.01	0.08	2.00	99.33
B3-0179.1	59.20	16.70	1.01	3.26	0.88	2.31	13.10	0.17	1.57	0.07	1.00	99.27
B3-0179.9	58.90	12.10	0.33	3.92	0.06	2.78	17.10	0.17	1.83	0.09	1.39	98.67
B3-0180.11	52.50	13.40	2.00	5.05	1.14	0.18	19.90	0.27	1.71	0.13	3.31	99.59
B3-0181.4	56.70	12.10	1.04	5.24	0.57	0.08	18.90	0.20	1.45	0.12	3.16	99.56
B3-0181.6	59.90	15.60	1.08	3.62	0.67	1.33	13.90	0.17	1.36	0.11	1.39	99.13
B3-0182.0	63.50	15.90	0.43	3.10	0.26	2.08	11.90	0.14	1.13	0.09	0.77	99.30
B3-0182.8	49.90	17.20	3.68	4.76	1.96	1.01	17.40	0.31	1.35	0.12	2.62	100.31
B3-0184.0	50.80	16.20	5.53	5.82	0.75	1.10	15.30	0.21	1.13	0.09	1.62	98.58
B3-0184.6	48.40	14.80	7.95	7.25	0.75	1.21	16.20	0.26	1.02	0.09	0.85	98.78
B4-0127.0	71.50	14.40	2.11	0.61	4.69	1.63	2.33	0.02	0.17	0.06	1.70	99.22
B4-0182.0	64.60	15.40	2.37	1.46	3.28	1.93	7.25	0.13	0.48	0.08	1.70	98.61
B4-0188.0	66.80	14.70	4.10	1.10	3.63	1.29	5.09	0.14	0.43	0.08	1.77	99.12
B4-0203.0	69.00	15.20	1.83	1.47	1.25	2.08	6.19	0.11	0.47	0.08	1.70	99.36
B4-0205.0	69.40	16.40	0.52	1.01	0.60	3.43	4.58	0.07	0.48	0.08	2.39	98.96
B4-0238.2	69.80	13.80	3.56	1.37	2.25	2.16	2.42	0.10	0.40	0.11	3.16	99.13
B4-0238.3	56.70	14.80	8.98	3.36	1.67	2.31	4.96	0.19	0.46	0.11	6.85	100.32

D E C N - - - - 2

WHOLE ROCK ANALYSIS

ALUMINA ALTERATION

SAMPLE ID	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
B2AS032			0.62	-4.17		-4.19	32.51	0.72	0.54	0.47	-1.68	3.86	0.08
B2AS058			0.54	-7.63		-7.63	24.20	0.70	0.68	0.30	-1.20	4.36	0.17
B2AS068			0.70	-4.51	0.76	-4.51	15.47	2.18	1.09	0.41	-0.34	1.86	0.24
B2AS105			0.55	-4.06		-4.06	16.44	0.91	1.03	0.37	-0.94	4.38	0.20

MIDDLE RANGE ANALYSIS
UNITED STATES DEPARTMENT OF THE ARMY
 ARMY CENTER OF CHEMISTRY
 WASHINGTON, D. C. 20315

PROPYLENIZATION

SAMPLE ID	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
B2AS009				-1.66		-1.66	19.48	0.47	0.86	0.41	-2.32	3.03	0.04
B2AS022				-3.00		-3.00	21.00	0.39	0.76	0.35	-3.38	1.51	0.06
B2AS023				-1.16		-1.16	21.86	0.31	0.78	0.34	-3.34	3.60	0.09
B2AS024				-1.45		-1.45	21.51	0.30	0.55	0.30	-4.42	2.20	0.08
B2AS025				-1.12		-1.12	18.61	0.35	0.90	0.38	-2.90	2.63	0.07
B2AS028				-1.22		-1.22	20.13	0.34	0.82	0.27	-3.95	1.64	0.05
B2AS030				-2.71		-2.71	27.63	0.42	0.68	0.10	-1.26	8.31	0.40
B2AS044				-2.49		-2.49	23.07	0.84	0.78	0.26	-1.96	3.37	0.12
B2AS045				-1.26		-1.26	22.24	0.96	0.81	0.40	-1.83	2.04	0.12
B2AS051				-2.94		-2.94	19.22	0.71	0.91	0.21	-2.10	3.35	0.12
B2AS054				-2.64		-2.64	22.97	0.62	0.76	0.34	-2.34	3.52	0.12
B2AS055			0.59	-1.92		-1.92	19.07	1.11	0.91	0.55	-1.32	2.42	0.10
B2AS057				-1.88		-1.88	23.22	0.90	0.78	0.23	-2.32	1.51	0.09
B2AS059				-1.70		-1.70	23.44	0.75	0.77	0.27	-2.36	4.14	0.15
B2AS075				-1.36		-1.36	14.84	0.45	1.10	0.53	-1.92	1.30	0.11
B2AS082				-1.92		-1.92	19.18	0.31	0.78	0.33	-2.14	1.18	0.04
B2AS084				-2.03		-2.03	20.35	0.46	0.82	0.25	-3.60	2.56	0.08
B2AS087		5.18		-1.21		-1.21	21.60	0.26	0.76	0.35	-3.65	3.17	0.03
B2AS093				-2.80		-2.80	18.57	0.40	0.87	0.34	-2.67	1.83	0.06
B2AS101				-1.65		-1.65	21.69	0.41	0.80	0.20	-3.26	5.38	0.06
B2AS107				-1.86		-1.86	18.89	0.14	0.84	0.24	-4.39	4.28	0.07
B2AS108				-3.23		-3.23	20.17	1.15	0.87	0.17	-2.26	2.60	0.16
B2AS109				-1.57		-1.57	22.10	0.90	0.81	0.23	-2.65	1.63	0.11
B2AS122			0.51	-3.16		-3.16	20.16	0.79	0.86	0.39	-1.56	3.61	0.11
B2AS125				-3.28		-3.28	19.94	0.93	0.87	0.22	-2.24	4.85	0.14

WHOLE ROCK ANALYSIS
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PROPYLIZATION

SAMPLE ID	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
B2AS129			0.53	-2.67		-2.87	22.43	0.79	0.80	0.35	-1.36	4.49	0.10
B2AS130				-3.14		-3.14	21.90	0.79	0.79	0.38	-1.89	2.63	0.11
B2AS131				-1.97		-1.97	22.19	1.12	0.60	0.22	-2.83	1.82	0.14
B2AS132				-1.56		-1.56	19.36	0.24	0.86	0.40	-3.10	6.46	0.17
B2AS141				-2.34		-2.34	23.65	0.63	0.73	0.31	-2.75	2.03	0.09

W H I L E R O C K A N A L Y S I S

S E R I C I T I Z A T I O N

SAMPLE ID	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
B2AS049		9.26	0.64	-1.64		-1.64	16.90	0.09	0.89	1.08	4.31	11.09	0.08
B2AS066		8.29	0.57	-2.39		-2.39	15.99	0.07	0.92	0.93	9.89	4.79	0.10
B2AS096		10.15	0.65	-3.65		-3.65	13.47	0.09	1.12	0.80	2.68	10.87	0.19

B E C K - - - - 2

TABLE. ROCK ANALYSIS

SILICATE IRON FORMATION

SAMPLE ID	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
B2AG047		5.91		-14.66	0.91	-14.66	30.71	0.15	0.49	0.11	-0.76	46.58	1.07

PILE SOIL ANALYSIS
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CLASSIFICATION

SAMPLE ID	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
B2AS069	79.10			-1.60		-1.60	10.20	0.54	1.68	0.28	-1.33	4.32	0.44
B2AS071	77.00		0.78	-5.36	0.79	-5.36	13.68	1.71	1.14	0.66	1.13	1.10	0.19
B2AS073	75.20			-1.78		-1.78	14.85	0.59	1.11	0.40	-2.12	1.12	0.10
B2AS077	75.50		0.63	-5.02		-5.02	15.78	1.18	1.04	0.45	-0.62	2.35	0.22
B2AS078	77.40		0.79	-7.96	0.88	-7.96	14.57	1.42	1.00	0.69	11.70	0.39	0.16
B2AS090	77.30		0.76	-9.73	0.50	-9.73	14.96	1.46	1.00	0.34	0.83	2.82	0.56
B2AS091	76.20	6.94		-1.65		-1.65	13.85	0.16	1.10	0.30	-1.24	2.39	0.05
B2AS092	79.30		0.55	-6.75	0.82	-6.75	13.83	1.70	1.15	0.24	-0.39	4.73	0.39
B2AS104	79.00		0.81	-7.24	0.64	-7.24	13.10	1.55	1.13	0.63	5.75	0.84	0.19
B2AS110	76.70		0.77	-5.95	0.95	-5.95	15.32	1.86	1.01	0.68	2.55	0.82	0.09
B2AS112	76.40		0.51	-5.45	0.62	-5.45	16.21	2.71	1.07	0.15	-0.47	5.73	0.33
B2AS124	77.00		0.70	-4.83	0.98	-4.83	14.21	2.19	1.13	0.55	-0.01	0.96	0.20
B2AS134	76.40			-1.97		-1.97	15.78	0.89	1.01	0.21	-2.96	1.01	0.04

B E C K - - - - 2
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WHOLE ROCK ANALYSIS
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UNALTERED ROCK

SAMPLE ID	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
B2AS003						16.95	36.81	1.58	0.81	0.20	-1.64	1.02	0.08
B2AS007						0.65	28.99	0.26	0.63	0.17	-4.07	3.10	0.13
B2AS011						1.36	15.29	0.87	0.96	0.26	-3.07	0.96	0.04
B2AS013						5.98	29.76	0.32	0.73	0.12	-3.92	3.01	0.17
B2AS015						3.73	29.45	0.35	0.69	0.05	-3.43	6.47	0.17
B2AS016						1.23	29.94	0.41	0.63	0.11	-3.92	4.56	0.09
B2AS018						-0.69	18.63	0.27	0.91	0.35	-3.27	2.76	0.09
B2AS020						-0.17	26.95	0.48	0.82	0.36	-3.86	1.76	0.06
B2AS021						0.23	27.45	0.21	0.68	0.25	-2.57	18.99	0.23
B2AS026						0.20	20.80	0.35	0.79	0.29	-4.62	1.05	0.03
B2AS043		7.00				-0.01	15.99	0.16	0.99	0.41	-2.48	3.34	0.04
B2AS064		6.06				0.28	24.73	0.26	0.73	0.39	-2.90	4.31	0.05
B2AS072						-0.45	24.04	0.96	0.76	0.17	-3.25	1.49	0.07
B2AS076	76.00	5.79				-0.40	13.47	0.20	1.16	0.23	-3.13	2.09	0.05
B2AS081						0.22	23.10	0.29	0.76	0.35	-3.45	2.40	0.07
B2AS085						-0.34	20.03	0.23	0.82	0.24	-4.76	1.88	0.05
B2AS097						-0.23	20.67	0.32	0.80	0.13	-5.35	9.83	0.04
B2AS099						1.40	22.86	0.26	0.78	0.36	-3.68	2.59	0.08
B2AS100						0.93	27.71	0.20	0.67	0.02	-4.31	14.37	0.16
B2AS123A						-0.43	21.83	0.21	0.80	0.21	-3.71	6.98	0.13
B2AS1233	75.70					-0.36	17.83	4.04	1.07	0.23	-1.22	0.59	0.04
B2AS1438			0.52			4.99	28.33	1.58	0.79	0.27	-1.11	2.45	0.20
B2AS144						-0.64	19.29	0.27	0.86	0.18	-4.62	4.70	0.06
B2AS145						-0.40	28.46	0.23	0.63	0.37	-3.30	8.33	0.12

B E C K - - - - 2

WHOLE ROCK ANALYSIS

SERICITIZATION + ALUMINA ALTERATION

SAMPLE ID	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
B2AS114			0.69	-5.01		-5.01	16.21	0.67	0.97	0.66	1.22	1.51	0.09
B2AS116			0.93	-9.95	0.19	-9.95	14.49	0.13	0.97	0.60	11.48	4.51	4.08
B2AS139			0.85	-4.47	0.62	-4.47	17.99	2.55	0.93	0.71	0.04	2.01	0.17

WHOLE ROCK ANALYSIS
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ALUMINA ALTERATION (MAFIC)

SAMPLE ID	T1	T2	T3	T4	T5	F.A.	F.B.	F.C.	F.S.	F.K.	F'.K.	F.F.	F.H.
B2AS037			0.54	-3.21		-3.21	22.06	1.63	0.80	0.36	-1.29	1.52	0.09
B2AS042				-5.11		-5.11	24.48	0.64	0.63	0.34	-2.46	1.86	0.08
B2AS052				-4.68		-4.68	22.16	1.03	0.75	0.17	-2.02	4.78	0.13
B2AS053				-3.74		-3.74	19.08	0.54	0.85	0.42	-1.67	4.90	0.06
B2AS056				-7.52		-7.52	24.17	0.58	0.66	0.20	-2.58	3.90	0.21
B2AS060				-8.39		-8.39	20.24	0.38	0.76	0.29	-1.22	2.52	0.18
B2AS061			0.70	-3.89	0.97	-3.89	17.67	1.68	0.97	0.49	-0.53	1.89	0.16
B2AS070				-6.43		-6.43	19.99	0.58	0.81	0.14	-2.24	3.16	0.18
B2AS080		6.44		-7.53		-7.53	20.21	0.13	0.76	0.29	-1.53	8.10	0.16
B2AS088		9.49		-18.60		-18.60	27.98	0.14	0.52	0.10	0.56	7.73	0.30
B2AS089				-4.43		-4.43	20.80	0.76	0.82	0.22	-2.17	3.53	0.15
B2AS103				-5.33		-5.33	22.94	0.40	0.69	0.41	-1.79	2.29	0.05
B2AS106				-5.71		-5.71	20.83	0.45	0.79	0.15	-2.29	3.13	0.19
B2AS111				-3.57		-3.57	19.57	0.79	0.87	0.27	-2.17	2.79	0.11
B2AS120				-6.50		-6.50	17.95	0.67	0.90	0.20	-1.54	3.67	0.27
B2AS126				-3.77		-3.77	16.34	0.60	1.02	0.35	-1.36	4.65	0.19
B2AS127				-3.81		-3.81	21.89	0.51	0.80	0.09	-2.30	3.22	0.21
B2AS146				-3.40		-3.40	19.84	0.50	0.84	0.34	-2.34	2.60	0.13

BECK - 1 & 2

STATISTICAL RESULTS

C O P P E R (< 80 P P M)

SUM OF ALL SAMPLES:	7221.00
SUM OF ALL SQUARES:	243695.50
SUM OF CROSS-PRODUCTS:	350474.25
ARITHMETIC MEAN:	18.85
STANDARD DEVIATION:	16.78
VARIABLE VARIANCE:	281.55

Z I N C

SUM OF ALL SAMPLES:	15945.00
SUM OF ALL SQUARES:	1082291.50
SUM OF CROSS-PRODUCTS:	68816.00
ARITHMETIC MEAN:	41.63
STANDARD DEVIATION:	33.10
VARIABLE VARIANCE:	1095.48

L E A D

SUM OF ALL SAMPLES:	3548.00
SUM OF ALL SQUARES:	76318.00
SUM OF CROSS-PRODUCTS:	199579.50
ARITHMETIC MEAN:	9.26
STANDARD DEVIATION:	10.67
VARIABLE VARIANCE:	113.74

BECK - 1 & 2

CORRELATIONS

COPPER (< 80 FPM)

CU-ZN:	0.23
CU-PB:	0.03
ZN-PB:	0.38

BECK - 1 & 2

COPPER (< 80 PPM)

SAMPLES OF ANOMALIC VALUE

COPPER >= MEAN + 1 STD. DEV.
(35.63 PPM)

SAMPLE ID	ASSAY PPM
ENNDPSS107	65
ENNDPSS104	56
ENNDPSS103	40
ENNDPSS102	41
ENNDPSS101	42
ENNDPSS100	41
ENNDPSS99	58
ENNDPSS98	37

BECK - 1 & 2

COPPER (< 80 PPM)

SAMPLES OF ANOMALIC VALUE

COPPER >= MEAN + 2 STD. DEV.
(52.41 PPM)

SAMPLE ID	ASSAY PPM
B1A50026A	64
B1A50026	7
B1A50093	7
B1A51066	15
B1A51333	1
B1A51488	6
B1A51533	6
B1A51711	7
B1A51877	6
B1A52112	6
B1A52144	9
B1A52188	6
B1A52211	6
B1A52233	6
B1A52246	4
B1A52246	4
B1A52246	4
B2A50004	4
B2A50007	4
B2A50011	4
B2A50013	4
B2A50014	4
B2A50015	4
B2A50016	4
B2A50017	4
B2A50018	4
B2A50019	4
B2A50020	4
B2A50021	4
B2A50022	4
B2A50023	4
B2A50024	4
B2A50025	4
B2A50026	4
B2A50027	4
B2A50028	4
B2A50029	4
B2A50030	4
B2A50031	4
B2A50032	4
B2A50033	4
B2A50034	4
B2A50035	4
B2A50036	4
B2A50037	4
B2A50038	4
B2A50039	4
B2A50040	4
B2A50041	4
B2A50042	4
B2A50043	4
B2A50044	4
B2A50045	4
B2A50046	4
B2A50047	4
B2A50048	4
B2A50049	4
B2A50050	4
B2A50051	4
B2A50052	4
B2A50053	4
B2A50054	4
B2A50055	4
B2A50056	4
B2A50057	4
B2A50058	4
B2A50059	4
B2A50060	4
B2A50061	4
B2A50062	4
B2A50063	4
B2A50064	4
B2A50065	4
B2A50066	4
B2A50067	4
B2A50068	4
B2A50069	4
B2A50070	4
B2A50071	4
B2A50072	4
B2A50073	4
B2A50074	4
B2A50075	4
B2A50076	4
B2A50077	4
B2A50078	4
B2A50079	4
B2A50080	4
B2A50081	4
B2A50082	4
B2A50083	4
B2A50084	4
B2A50085	4
B2A50086	4
B2A50087	4
B2A50088	4
B2A50089	4
B2A50090	4
B2A50091	4
B2A50092	4
B2A50093	4
B2A50094	4
B2A50095	4
B2A50096	4
B2A50097	4
B2A50098	4
B2A50099	4
B2A50100	4
B2A50101	4
B2A50102	4
B2A50103	4
B2A50104	4
B2A50105	4
B2A50106	4
B2A50107	4
B2A50108	4
B2A50109	4
B2A50110	4
B2A50111	4
B2A50112	4
B2A50113	4
B2A50114	4
B2A50115	4
B2A50116	4
B2A50117	4
B2A50118	4
B2A50119	4
B2A50120	4
B2A50121	4
B2A50122	4
B2A50123	4
B2A50124	4
B2A50125	4
B2A50126	4
B2A50127	4
B2A50128	4
B2A50129	4
B2A50130	4
B2A50131	4
B2A50132	4
B2A50133	4
B2A50134	4
B2A50135	4
B2A50136	4
B2A50137	4
B2A50138	4
B2A50139	4
B2A50140	4
B2A50141	4
B2A50142	4
B2A50143	4
B2A50144	4
B2A50145	4
B2A50146	4
B2A50147	4
B2A50148	4
B2A50149	4
B2A50150	4
B2A50151	4
B2A50152	4
B2A50153	4
B2A50154	4
B2A50155	4
B2A50156	4
B2A50157	4
B2A50158	4
B2A50159	4
B2A50160	4
B2A50161	4
B2A50162	4
B2A50163	4
B2A50164	4
B2A50165	4
B2A50166	4
B2A50167	4
B2A50168	4
B2A50169	4
B2A50170	4
B2A50171	4
B2A50172	4
B2A50173	4
B2A50174	4
B2A50175	4
B2A50176	4
B2A50177	4
B2A50178	4
B2A50179	4
B2A50180	4
B2A50181	4
B2A50182	4
B2A50183	4
B2A50184	4
B2A50185	4
B2A50186	4
B2A50187	4
B2A50188	4
B2A50189	4
B2A50190	4
B2A50191	4
B2A50192	4
B2A50193	4
B2A50194	4
B2A50195	4
B2A50196	4
B2A50197	4
B2A50198	4
B2A50199	4
B2A50200	4

BECK - 1 & 2

COPPER (< 80 PPM)

SAMPLES OF ANOMALIC VALUE

COPPER >= MEAN + 3 STD. DEV.
(69.19 PPM)

SAMPLE ID	ASSAY PPM
B1A509	72
B1A510	71
B1A511	73
B1A512	74
B1A513	75

BECK - 1 3 2

COPPER (< 80 PPM)

SAMPLES OF ANOMALIC VALUE

(EXTERNAL TO STUDIED POP.)

COPPER >= MEAN + 1 STD. DEV.
(35.63 PPM)

SAMPLE ID	ASSAY PPM
BE1A50017	1200
BE1A50018	3000
BE1A50019	1600
BE1A50020	1200
BE1A50021	1100
BE1A50022	3700
BE1A50023	5000
BE1A50024	1900
BE1A50025	2700
BE1A50026	1600
BE1A50027	91
BE1A50028	1100
BE1A50029	89
BE1A50030	1300
BE1A50031	1600
BE1A50032	1600
BE1A50033	86
BE1A50034	33
BE1A50035	1800
BE1A50036	4200
BE1A50037	1600
BE1A50038	1200
BE1A50039	1400
BE1A50040	1100
BE1A50041	1800
BE1A50042	2200
BE1A50043	1100
BE1A50044	400

BECK - 1 & 2

COPPER (< 80 PPM)

SAMPLES OF ANOMALIC VALUE

(EXTERNAL TO STUDIED POP.)

COPPER >= MEAN + 2 STD. DEV.
(52.41 PPM)

SAMPLE ID	ASSAY PPM
BE1ASS017	120
BE1ASS006	3000
BE1ASS007	1600
BE1ASS009	1200
BE1ASS105	1100
BE1ASS126	3700
BE1ASS145	5000
BE1ASS155	1900
BE1ASS181	2700
BE1ASS188	1600
BE1ASS199	91
BE1ASS202	1100
BE1ASS203	800
BE1ASS204	1500
BE1ASS205	2300
BE1ASS206	1300
BE1ASS207	1300
BE1ASS208	3
BE1ASS209	1300
BE1ASS210	1800
BE1ASS211	4200
BE1ASS212	1600
BE1ASS213	1200
BE1ASS214	1400
BE1ASS215	1300
BE1ASS216	1800
BE1ASS217	2300
BE1ASS218	1100
BE1ASS219	1100
BE1ASS220	1400

HECK - 1 & 2

COPPER (< 80 PPM)

SAMPLES OF ANOMALIC VALUE

(EXTERNAL TO STUDIED POP.)

COPPER >= MEAN + 3 STD. DEV.
(69.19 PPM)

SAMPLE ID	ASSAY PPM
B1A5501	1200
B1A5502	3000
B1A5503	1600
B1A5504	1200
B1A5505	1100
B1A5506	3700
B1A5507	5000
B1A5508	1900
B1A5509	2700
B1A5510	1600
B1A5511	91
B1A5512	1100
B1A5513	1000
B1A5514	1200
B1A5515	1300
B1A5516	1300
B1A5517	3000
B1A5518	1300
B1A5519	1800
B1A5520	4200
B1A5521	1600
B1A5522	1200
B1A5523	1400
B1A5524	1300
B1A5525	1800
B1A5526	2300
B1A5527	1100
B1A5528	1200
B1A5529	1400

B E C K - 1 & 2

STATISTICAL RESULTS

Z I N C (< 150 PPM)

SUM OF ALL SAMPLES:	15894.00
SUM OF ALL SQUARES:	891116.50
SUM OF CROSS-PRODUCTS:	113352.00
ARITHMETIC MEAN:	39.24
STANDARD DEVIATION:	25.73
VARIABLE VARIANCE:	661.80

C O P P E R

SUM OF ALL SAMPLES:	12260.00
SUM OF ALL SQUARES:	1495686.50
SUM OF CROSS-PRODUCTS:	527036.25
ARITHMETIC MEAN:	30.27
STANDARD DEVIATION:	52.76
VARIABLE VARIANCE:	2783.56

L E A D

SUM OF ALL SAMPLES:	3676.00
SUM OF ALL SQUARES:	68958.00
SUM OF CROSS-PRODUCTS:	172245.50
ARITHMETIC MEAN:	9.08
STANDARD DEVIATION:	9.39
VARIABLE VARIANCE:	88.10

BECK - 1 & 2

CORRELATIONS

ZINC (< 150 PPM)

ZN-CU: 0.08

ZN-PB: 0.29

CU-PB: 0.01

BECK - 1 & 2

Z I N C (< 150 PPM)

SAMPLES OF ANOMALIC VALUE

Z I N C >= MEAN + 1 STD. DEV.
(64.97 PPM)

SAMPLE ID	ASSAY PPM
WNNDS0062	75
WNNDS0064	700
WNNDS0065	99
WNNDS0067	77
WNNDS0081	68
WNNDS0098	74
WNNDS0099	74
WNNDS111	91
WNNDS145	100
WNNDS147	91
WNNDS205	70
WNNDS11	65
WNNDS12	84

BECK - 1 & 2

Z I N C (< 150 PPM)

SAMPLES OF ANOMALIC VALUE

Z I N C >= MEAN + 2 STD. DEV.
 (90.70 PPM)

SAMPLE ID	ASSAY PPM
BE1A5052	1100
BE1A5114	1100
BE1A5113	1100
BE1A5129	1100
BE1A5148	1100
BE1A5152	1100
BE1A5157	1100
BE1A5162	1100
BE1A5177	1100
BE1A5184	1100
BE1A5189	1100
BE1A5192	1100
BE1A5211	1100
BE1A5217	1100
BE1A5223	1100
BE1A5244	1100
BE1A5242	1100
BE1A5249	1100
BE1A5255	1100
BE1A5259	1100
BE1A5266	1100
BE1A5277	1100
BE1A5285	1100
BE1A5297	1100
BE1A5314	1100
BE1A5347	1100

BECK - 1 & 2

Z I N C (< 150 PPM)

SAMPLES OF ANOMALIC VALUE

Z I N C >= MEAN + 3 STD. DEV.
(116.42 PPM)

SAMPLE ID	ASSAY PPM
B1AS124	140
B1AS129	130
B1AS177	120
B1AS184	130
B1AS189	120
B1AS223	120
B1AS224	120

BECK - 1 & 2

Z I N C (< 150 PPM)

SAMPLES OF ANOMALIC VALUE

(EXTERNAL TO STUDIED POP.)

Z I N C >= MEAN + 1 STD. DEV.
(64.97 PPM)

SAMPLE ID	ASSAY PPM
B1AS011	320
B1AS127	190
B1AS149	150
B1AS200	200
B1AS231	180
B1AS233	150
B2AS023	150
B2AS041	330

BECK - 1 & 2

Z I N C (< 150 PPM)

SAMPLES OF ANOMALIC VALUE

(EXTERNAL TO STUDIED POP.)

Z I N C >= MEAN + 2 STD. DEV.
(90.70 PPM)

SAMPLE ID	ASSAY PPM
B1AS011	320
B1AS127	190
B1AS149	150
B1AS200	200
B1AS231	180
B1AS253	150
B2AS023	150
B2AS041	330

B E C K - 1 & 2

Z I N C (< 150 PPM)

SAMPLES OF ANOMALIC VALUE

(EXTERNAL TO STUDIED POP.)

Z I N C >= MEAN + 3 STD. DEV.
(116.42 PPM)

SAMPLE ID	ASSAY PPM
B1ASS011	320
B1ASS127	190
B1ASS149	150
B1ASS200	200
B1ASS231	180
B1ASS253	150
B1ASS263	150
B1ASS041	330

B E C K - 1 & 2

STATISTICAL RESULTS

L E A D (< 16 FPM)

SUM OF ALL SAMPLES:	2706.00
SUM OF ALL SQUARES:	23562.00
SUM OF CROSS-PRODUCTS:	116791.50
ARITHMETIC MEAN:	7.14
STANDARD DEVIATION:	3.35
VARIABLE VARIANCE:	11.22

C O P P E R

SUM OF ALL SAMPLES:	11598.50
SUM OF ALL SQUARES:	1444548.25
SUM OF CROSS-PRODUCTS:	497597.25
ARITHMETIC MEAN:	30.60
STANDARD DEVIATION:	53.69
VARIABLE VARIANCE:	2882.54

Z I N C

SUM OF ALL SAMPLES:	14940.00
SUM OF ALL SQUARES:	909494.50
SUM OF CROSS-PRODUCTS:	93944.00
ARITHMETIC MEAN:	39.42
STANDARD DEVIATION:	29.12
VARIABLE VARIANCE:	848.06

BECK - 1 & 2

CORRELATIONS

LEAD (< 16 PPM)

FB-CU: 0.16

FB-ZN: 0.27

CU-ZN: 0.07

B E C K - 1 & 2

L E A D (< 16 PPM)

SAMPLES OF ANOMALIC VALUE

L E A D >= MEAN + 1 STD. DEV.
(10.49 PPM)

SAMPLE ID	ASSAY PPM
B1A5001	14
B1A50017	14
B1A50018	12
B1A50019	14
B1A50036	12
B1A50066	12
B1A50064	12
B1A50075	14
B1A50077	14
B1A50085	14
B1A50099	14
B1A50100	14
B1A50103	14
B1A50144	14
B1A50149	12
B1A50150	12
B1A50155	14
B1A50171	14
B1A50180	12
B1A50187	12
B1A50190	12
B1A50198	14
B1A50199	14
B1A50201	12
B1A50211	14
B1A50214	14
B1A50218	14
B1A50234	12
B1A50242	12
B2A50006	12
B2A50010	12
B2A50014	14
B2A50016	12
B2A50017	12
B2A50030	12
B2A50032	14
B2A50044	12
B2A50045	12
B2A50044	12
B2A50050	12
B2A50052	12
B2A50064	12
B2A50088	14
B2A50099	12
B2A50120	14
B2A50127	14
B2A50129	14

BECK - 1 & 2

LEAD (< 16 PPM)

SAMPLES OF ANOMALIC VALUE

LEAD >= MEAN + 1 STD. DEV.
(10.49 PPM)

SAMPLE ID	ASSAY PPM
B2AS211	14
B2AS212	14

BECK - 1 8 2

LEAD (< 16 PPM)

SAMPLES OF ANOMALIC VALUE

LEAD >= MEAN + 2 STD. DEV.
(13.84 PPM)

SAMPLE ID	ASSAY PPM
B1ASS001	14
B1ASS017	14
B1ASS019	14
B1ASS075	14
B1ASS076	14
B1ASS085	14
B1ASS109	14
B1ASS129	14
B1ASS148	14
B1ASS171	14
B1ASS175	14
B1ASS191	14
B1ASS198	14
B1ASS201	14
B1ASS214	14
B1ASS218	14
B2ASS014	14
B2ASS032	14
B2ASS108	14
B2ASS147	14
B2ASS207	14
B2ASS209	14
B2ASS211	14
B2ASS212	14

LEAD (: 16 PPM)

SAMPLES OF ANOMALIC VALUE

(EXTERNAL TO STUDIED POP.)

LEAD >= MEAN + 1 STD. DEV.
(10.49 PPM)

SAMPLE ID	ASSAY PPM
R1A5010	20
R1A5011	100
R1A5012	16
R1A5013	16
R1A5014	18
R1A5015	16
R1A5016	16
R1A5017	16
R1A5018	64
R1A5019	34
R1A5020	34
R1A5021	16
R1A5022	16
R1A5023	50
R1A5024	84
R1A5025	60
R1A5026	78
R1A5027	74
R1A5028	66
R1A5029	60
R1A5030	44
R1A5031	44
R1A5032	46
R1A5033	20
R1A5034	20
R1A5035	16
R1A5036	16
R1A5037	20
R1A5038	20
R1A5039	1
R1A5040	20
R1A5041	18
R1A5042	20
R1A5043	20
R1A5044	46
R1A5045	4

B E C K - 1 & 2

L E A D (< 16 PPM)

SAMPLES OF ANOMALIC VALUE

(EXTERNAL TO STUDIED POP.)

L E A D >= MEAN + 2 STD. DEV.
(13.84 PPM)

SAMPLE ID	ASSAY PPM
B1ASS010	20
B1ASS011	100
B1ASS029	16
B1ASS030	16
B1ASS072	18
B1ASS086	16
B1ASS091	16
B1ASS114	64
B1ASS115	34
B1ASS116	34
B1ASS118	16
B1ASS120	16
B1ASS130	50
B1ASS164	84
B1ASS165	60
B1ASS166	78
B1ASS167	74
B1ASS168	36
B1ASS169	30
B1ASS170	44
B1ASS176	22
B1ASS177	46
B1ASS188	20
B1ASS189	20
B1ASS192	16
B1ASS197	16
B1ASS212	20
B1ASS221	20
B1ASS236	20
B2ASS004	1
B2ASS041	18
B2ASS048	20
B2ASS067	22
B2ASS074	46
B2ASS168	4

B E C K - 1 8 2

L E A D (< 16 PPM)

SAMPLES OF ANOMALIC VALUE

L E A D >= MEAN + 3 STD. DEV.
(17.19 PPM)

SAMPLE ID ASSAY PPM

BECK - 1 & 2

LEAD (< 16 PPM)

SAMPLES OF ANOMALIC VALUE

(EXTERNAL TO STUDIED POP.)

LEAD >= MEAN + 3 STD. DEV.
(17 - 19 PPM)

SAMPLE ID	ASSAY PPM
B1AS010	2
B1AS011	100
B1AS072	18
B1AS114	64
B1AS115	4
B1AS116	4
B1AS130	0
B1AS164	0
B1AS165	0
B1AS166	0
B1AS167	7
B1AS168	6
B1AS169	0
B1AS170	4
B1AS176	2
B1AS177	2
B1AS188	4
B1AS189	0
B1AS212	0
B1AS221	0
B1AS233	0
B2AS041	1
B2AS048	1
B2AS067	0
B2AS074	4
B2AS138	4

0.00*

850.25+
 1,067.50+
 30.00+
 2,898.00+
 2,544.00+
 1,000.00+
 1,644.75+
 235.40+
 340.00+
~~84.50+~~
 1,005.00+
 178.30+
 40.00+
~~12,517.70*~~
 11,685.60

1077.15

160.00

0

~~14,280.55~~

22

0.00*

850.25+
 1,067.50+
 5,472.00+
~~5,472.00+~~
~~5,472.00-~~
 3,244.75+
 235.40+
 424.50+
 1,223.30+
 12,517.70*

0.00*

0.00*

0.00*

0.00*

RECEIVED

MAY 20 1953

MINING LANDS SECTION

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755

TELEX 05-986947

INVOICE 15558

REF. FILE 11208-L3

19-AUG-82

TO: UMAX CORPORATION LIMITED
ATTN: DR. T. VERBEEK, VICE PRESIDENT
1935 LESLIE STREET
DON MILLS, ONTARIO M3B 2M3

CUSTOMER NO. 571

DATE SUBMITTED
29-JUL-82

126 ROCKS

WERE ANALYSED.

METHOD	CODE	UNIT COST	AMOUNT
126	WHOLE ROCK <301	6, 0	20.50
126	PREP. ROCK	1, 0	2.50
			2583.00
			315.00

			\$ 2898.00

Beek 7708
Roy Plai

J. Pattern

TERMS NET 30 DAYS

1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755

TELEX 06-986947

INVOICE 15559

REF. FILE 11229-L3

19-AUG-82

TO: UMAX CORPORATION LIMITED
 ATTN: DR. T. VERBEEK, VICE PRESIDENT
 1935 LESLIE STREET
 DON MILLS, ONTARIO M3B 2M3

CUSTOMER NO. 571

DATE SUBMITTED
 30-JUL-82

96 ROCKS

WERE ANALYSED.

METHOD	CODE	UNIT COST	AMOUNT
96 WHOLE ROCK <101	6.0	24.00	2304.00
96 PREP. ROCK	1.0	2.50	240.00
			<u>\$ 2544.00</u>

Beek 7708
Page 102

J.P. Patterson

TERMS NET 30 DAYS

1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755

TELEX C6-986547

INVOICE 15468

REF. FILE 11264-M3

11-AUG-82

TO: LMEX CORPORATION LIMITED

ATTN: J.J. LEFEBVRE

1903 LESLIE STREET

DON MILLS, ONTARIO M3B 2M3

CUSTOMER NO. 571

DATE SUBMITTED

5-AUG-82

2 PLLPS CN HAND

RE: W.C.#11123-RPT.#15411

WERE ANALYSED.

	METHOD	CODE	UNIT COST	AMOUNT
2	CU %	XRF	5.00	12.00
2	ZN %	XRF	5.00	14.00
MINIMUM CHARGE				30.00

INVOICE

PLEASE PAY THIS AMOUNT

Please

Stattman

Beek 7708

Page Place

XRAL

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755

OFFICE TO:

COPY TO:

UNEX CORPORATION LIMITED
ATTN: R. OWEN
1985 LESLIE STREET
DON MILLS, ONTARIO
M3B 2M3

SAME

SHIPPED TO:

UNEX CORPORATION LIMITED
ATTN: R. OWEN
1985 LESLIE STREET
DON MILLS, ONTARIO
M3B 2M3

18157 18157	15-SEP-82	11787 11787	12-SEP-82 22-SEP-82
TERMS			
TERMS NET 30 DAYS TERMS NET 30 DAYS			
1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS			

UNEX P.O. NO.	CLIENT PROJECT NO.	TYPE OF SAMPLE SUBMITTED	NOTE
---------------	--------------------	--------------------------	------

NO. PKGS	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
1 BAG	SELF		

QTY	DESCRIPTION	METHOD	UNIT PRICE	TOTAL
1	WHOLE ROCK	whole rock < 1000	6.00	297.50
2	PREPARATION ROCK	PREPARATION Rock	1.00	42.50
				\$ 340.00
				-180.00
				160.00
				340.00+
				84.50+
				424.50*
less 9 samples from B4				
7708				

SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES
OTHER			SMURCHARGE - RUSH SERVICE

RECEIVED IN FUNDS \$ 160.00

TRIPPLICATE COPY

XRAL

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755
COPY TO:

ORDER TO:
UREX CORPORATION LIMITED
ATTN: R. CAVEN
1935 LESLIE STREET
DON MILLS, ONTARIO
M3B 2M3

SHIPPED TO:
UREX CORPORATION LIMITED
ATTN: R. CAVEN
1935 LESLIE STREET
DON MILLS, ONTARIO
M3B 2M3

18815	20-OCT-82	11804	12-19-82
TERMS			
TERMS NET 30 DAYS 1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS			

CUSTOMER P.O. NO.	CLIENT PROJECT NO.	TYPE OF SAMPLES SUBMITTED
		FRCP

PKGS.	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
	W. MAIL 10611421		

13	RB	FRCP	10, 7, 0, 0, 0	6.50	64.50 <hr/> \$ 64.50
<i>B4</i>		<i>7708</i>		<i>Roy J. Hunt</i>	
<i>J. Patten</i>					

SHIPPING CHARGES	CUSTOMER BROKERAGE	TELEX	MINIMUM CHARGES
OTHER			SURCHARGE - RUSH SERVICE

TOTAL \$ 64.50

DUPLICATE COPY

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755

TELEX 06-986947

INVOICE 15960

REF. FILE 11616-83

24-SEP-82

TO: UMCX CORPORATION LIMITED
ATTN: R. CAVEN
1935 LESLIE STREET
DON MILLS, ONTARIO M3B 2M3

CUSTOMER NO. 571

DATE SUBMITTED
3-SEP-82

80 ROCKS

WERE ANALYSED.

	METHOD	CODE	UNIT COST	AMOUNT
80	WHOLE ROCK	<1000	6.0	1400.00
80	PREP. ROCK		1.0	200.00
				<u>1600.00</u>

Beck

7708

John Patterson
Ray Jones

TERMS NET 30 DAYS 1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755

TELEX C6-986947

INVOICE 15961

REF. FILE 11621-A4

24-SEP-82

TO: URFX CORPORATION LIMITED
 ATTN: R. CAVEN
 1935 LESLIE STREET
 DON MILLS, ONTARIO M3B 2M3

CLIENT NO. 571

DATE SUBMITTED
 3-SEP-82

255 ROCKS
 WERE ANALYSED.

METHOD	CODE	UNIT COST	AMOUNT
255 CU PPM	DCP 7, C	0.90	229.50 - 79.20
255 ZN PPM	DCP 7, C	0.90	229.50 - 79.20
255 PB PPM	DCP 7, C	0.90	229.50 - 79.20
255 DIGESTION	7, C	1.25	318.75 - 112.00
255 PREP. ROCK	1, C	2.50	637.50 - 220.00

~~\$ 1644.75 567.60~~

Beck.

Total 1077.15

*less 28
 sample of 34*

7708

J. J. Atkinson

Roger J. Lane

TERMS NET 30 DAYS 1.5% PER MONTH INTEREST ON ACCOULT OVER 30 DAYS

X-RAL

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755

COPY TO:

TO:
 UNEX CORPORATION LIMITED
 ATTN: R. CAVEN
 1935 LESLIE STREET
 DON MILLS, ONTARIO
 M3B 2H3


ATTACHED TO:
 UNEX CORPORATION LIMITED
 ATTN: R. CAVEN
 1935 LESLIE STREET
 DON MILLS, ONTARIO
 M3B 2H3

CUSTOMER NO. 571

16457	12-NOV-82	12196	2-NOV-82
TERMS			
TERMS NET 30 DAYS 1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS			

S.P.O. NO.	CLIENT PROJECT NO.	TYPE OF SAMPLES SUBMITTED	
		ROCK	COARSE PULP PULP

PKGS BAG	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
-------------	-------------	--------------	--------------

9	WHOLE ROCK <1000	6, 0, 0, 0, 0	17.50	157.50
10	DIGESTION	7, 0, 0, 0, 0	1.25	12.50
9	CO PPM DCP	7, 0, 0, 0, 0	0.90	8.10
10	NI PPM DCP	7, 0, 0, 0, 0	0.90	9.00
8	CU PPM DCP	7, 0, 0, 0, 0	0.90	7.20
9	ZN PPM DCP	7, 0, 0, 0, 0	0.90	8.10
10	PB PPM ICP	7, 0, 0, 0, 0	0.90	9.00
9	PREPARATION ROCK	1, 0, 0, 0, 0	2.50	22.50
1	PREPARATION COARSE PULPS	1, 0, 0, 0, 0	1.50	1.50
7708				
			SUB-TOTAL	\$ 235.40

Signature

SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES
OTHER			SURCHARGE - RUSH SERVICE

\$ 235.40

ORIGINAL INVOICE

AMENDED COPY

FROM ALICE KWONG, UMEX INC., 1885 LESLIE ST. DON MILLS, ONTARIO M3B 2M2

DEPARTMENT

X-RAY ASSAY LABORATORIES LTD
1885 LESLIE STREET
DON MILLS, ONTARIO M3B 3J4

DATE

NOV. 8, 1982

SUBJECT

STATEMENT OF YOUR
ACCOUNT

ATTENTION = GRACE TAN

MESSAGE

BALANCE DUE FROM YOU AS OF NOVEMBER 8, 1982 :

UMEX INVOICES :

82-326	\$	25.00
82-333		40.00
82-353		<u>1197.00</u>
		<u>\$1262.00</u>

Alice Kwong

LESS :

X-RAY INVOICES :

1615.7	\$	340.00
16215		<u>84.50</u>
		<u>424.50</u>

NET TOTAL DUE FROM X-RAY \$ 837.50

USE LOWER PORTION FOR REPLY.

REPLY FROM

DATE

XRAL

X-RAY ASSAY LABORATORIES LIMITED

1805 LESLIE STREET • DON MILLS ONTARIO M3D 3J4 • (416) 445-5755

ATTN: DMEK

COPY TO:

UNEX CORPORATION LIMITED
ATTN: J. J. LEFEBVRE LEFEBVRE
1903 LESLIE STREET
DON MILLS, ONTARIO
M3B 2H3

CUSTOMER NO. 571

ATTN TO:

UNEX CORPORATION LIMITED
ATTN: J. J. LEFEBVRE
1903 LESLIE STREET
DON MILLS, ONTARIO
M3B 2H3

1677Y	23-DEC-82	12344	20-DEC-82
TERMS			
TERMS NET 30 DAYS			
1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS			

P.O. NO.	CLIENT PROJECT NO.	TYPE OF SAMPLES SUBMITTED			
		ROCK	WHOLE CORE	SPLIT CORE	PULP

PKGS.	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
	SELF		

QTY	DESCRIPTION	UNIT PRICE	AMOUNT	AMOUNT
1.	9 RARE EARTH GROUP NA	20,14, 0, 0, 0	90.00	810.00
2.	9 GB NA	20,14, 0, 0, 0	20.00	180.00
3.	2 PREPARATION ROCK	1, 0, 0, 0, 0	2.50	5.00
4.	3 PREP. WHOLE CORE	1, 0, 0, 0, 0	2.50	7.50
5.	1 PREP. SPLIT CORE	1, 0, 0, 0, 0	2.50	2.50
			SUB-TOTAL	\$ 1005.00

7708
Rose J. Lavi

J. J. Lefebvre

J. J. Lefebvre

SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES
OTHER	SURCHARGE - RUSH SERVICE		

RETURN THIS COPY WITH YOUR PAYMENT

\$ 1005.00

XRAL

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755

COPY TO:

3.
NETO:

UNEX CORPORATION LIMITED
ATTN: DR. T. VERBECK, VICE PRESIDENT
1935 LESLIE STREET
DON MILLS, ONTARIO
M3B 2H3

ATTN TO:

UNEX CORPORATION LIMITED
ATTN: DR. T. VERBECK, VICE PRESIDENT
1935 LESLIE STREET
DON MILLS, ONTARIO
M3B 2H3

CUSTOMER NO. 571

1979	19-JUN-83	12571	21-60-82
TERMS			
TERMS NET 30 DAYS			
1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS			

P.O. NO.	CUSTOMER PROJECT NO.	TYPE OF SAMPLES SUBMITTED	
		SPLIT CORE	

PKGS	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
445	SELF		DON MILLS

QTY	DESCRIPTION	UNIT PRICE	TOTAL
5	WHOLE ROCK <1000	17.50	87.50
1	CU % XRF	6.00	6.00
1	ZN % XRF	7.00	7.00
1	PB % XRF	7.00	7.00
10	DIGESTION	1.25	12.50
9	CU PPM ICP	0.90	8.10
9	ZN PPM ICP	0.90	8.10
10	AG PPM ICP	0.90	9.00
9	PB PPM ICP	0.90	8.10
10	PREPARATION SPLIT CORE	2.50	25.00
SUB-TOTAL			\$ 178.30

7708

Boyer

L. Patton

SHIPPING CHARGES	CUSTOMER BROKERAGE	TELEX	MINIMUM CHARGES
OTHER			SURCHARGE - RUSH SERVICE

TURN THIS COPY WITH YOUR PAYMENT

\$ 178.30

INVOICE

X-RAY ASSAY LABORATORIES

LIMITED

1885 LESLIE STREET

DON MILLS, ONTARIO M3B 3J4

445-5755

Umex Corporation Limited
 Attn: JJ Lafeyvre
 1903 Leslie Street
 Don Mills, Ontario
 M3B 2M3

DATE Jan 31, 1983

INVOICE # 000886

Customer# 571

ASSAY REPORT NO.

ITEM		PRICE	AMOUNT
2	<p>Re: Report & invoice# 16779 Dec23²ml983</p> <p>Chondite Plot</p> <p style="text-align: right;">7703 <i>Page Janc</i></p> <p style="text-align: center;"><i>J. J. Lafeyvre</i></p>	\$ 20.00	\$ 40.00 =====

TERMS. NET 30 DAYS

UMEX INC.

0292

1935 LESLIE STREET, DON MILLS, ONTARIO, CANADA M3B 2M3

September 8, 1982

CANADIAN IMPERIAL BANK OF COMMERCE
1065 LESLIE STREET (NEAR YORK MILLS)
DON MILLS, ONTARIO

1874 DOLLARS 60 CTS

\$ 1874.60

UMEX INC.

PAY
PAYEZ
TO THE
ORDER OF
L'ORDRE
DE

X-Ray Assay Laboratories Ltd.
1815 Leslie St.
Don Mills, Ontario
M3B 3J4

PER

PER

NOT NEGOTIABLE



UMEX INC.

PLEASE DETACH BEFORE DEPOSITING
S.V.P. DÉTACHEZ AVANT D'ENCAISSER

DESCRIPTION	SUPPLIER FOURNISSEUR	YOUR INVOICE NO. NO. DE FACTURE	AMOUNT MONTANT	ACCOUNT NO. NO. DE COMPTE
As per attached statement of account date: September 1, 1982			5472.00 (3597.40)	7708 1120-4
		TOTAL	1874.60	

1874

0292

UMEX INC.

1935 LESLIE STREET, DON MILLS, ONTARIO, CANADA M3B 2M3

1980

0538

CANADIAN IMPERIAL BANK OF COMMERCE
1065 LESLIE STREET (NEAR YORK MILLS)
DON MILLS, ONTARIO

October 18, 1982

Account No. 2007 303 75 013

\$ 2007.75

PAY
PAYEZ
TO THE
ORDER OF
A L'ORDRE
DE

K-Ray Assay Laboratories Ltd.
1035 Leslie St.
Don Mills, Ont. M3B 3J4

UMEX INC.

PER

PER

NOT NEGOTIABLE

UMEX INC.

PLEASE DETACH BEFORE DEPOSITING
S.V.P. DÉTACHEZ AVANT D'ENCAISSER

DESCRIPTION	SUPPLIER FOURNISSEUR	YOUR INVOICE NO. NO. DE FACTURE	AMOUNT MONTANT	ACCOUNT NO. NO. DE COMPTE
See attached statement of account dated October 14, 1982			3244.75 (1237.00)	7703 1120-4
		TOTAL	2007.75	

1980

0538

XRAL

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755

CHECK TO:
 XRAL ASSAY LABORATORIES LIMITED
 ATTN: SALES DEPARTMENT
 1885 LESLIE STREET
 DON MILLS ONTARIO
 M3B 3J4

COPY TO:

SHIPPED TO:
 XRAL ASSAY LABORATORIES LIMITED
 ATTN: SALES DEPARTMENT
 1885 LESLIE STREET
 DON MILLS ONTARIO
 M3B 3J4

CUSTOMER NO. 571

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBMITTED
17347	21-MAY-83	12794	04-10-83

TERMS

TERMS NET 30 DAYS
 1% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

ITE. NO.	CLIENT PROJECT NO.	TYPE OF SAMPLES SUBMITTED
		ROCK PULP

QTY	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
1 DSO	SELF		

QTY	DESCRIPTION	UNIT PRICE	UNIT COST	TOTAL
1	10 RARE EARTH GROUP NA	14.20	0.00	90.00
2	10 LI AA	8.00	0.00	50.00
3	10 B DEP	7.00	0.00	55.00
4	9 PREPARATION ROCK	1.00	0.00	22.50
5	2 CHONDRITE PLOTS	15.00	0.00	40.00
			SUB-TOTAL	\$ 1067.50

7708

T. K. ...

SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES
OTHER			SURCHARGE - RUSH SERVICE

11000 CANADIAN FUNDS

\$ 1067.50

DUPLICATE COPY

FROM ALICE KWONG, UMAX INC., 1935 LESLIE ST., DON MILLS, ONTARIO M3B 5J4	DEPARTMENT PERSONAL
X-RAY ASSAY LABORATORIES LTD. 1285 LESLIE ST. DON MILLS, ONTARIO M3B 5J4 ATTENTION: GRACE PUN	DATE FEBRUARY 7, 1982 SUBJECT STATEMENT OF YOUR ACCOUNT

MESSAGE

BALANCE DUE YOU AS OF FEBRUARY 7, 1982 =

UMAX INVOICE : 83-032 \$1,197.00

LESS:

X-RAY INVOICE:	16779	\$1,005.00
	16919	178.30
	M000886	<u>40.00</u>
		\$ 1,223.30

TOTAL DUE X-RAY (\$ 26.30)

Alice Kwong

USE LOWER PORTION FOR REPLY

REPLY FROM

DATE

UMEX INC.

1935 LESLIE STREET, DON MILLS, ONTARIO, CANADA M3B 2M3

CANADIAN IMPERIAL BANK OF COMMERCE
1865 LESLIE STREET (NEAR YORK MILLS)
DON MILLS, ONTARIO

1983 1017

February 11, 1983

Feb 11 26 30 013

\$ 26.33

PAY
PAYEZ
TO THE
ORDER OF
L'ORDRE
DE

X-Ray Agency Laboratories
1865 Leslie St.
Don Mills, Ont. M3B 3J4

UMEX INC.

PER _____

PER _____

NOT NEGOTIABLE

UMEX INC.

PLEASE DETACH BEFORE DEPOSITING
S.V.P. DÉTACHEZ AVANT D'ENCAISSER

DESCRIPTION	SUPPLIER FOURNISSEUR	YOUR INVOICE NO. NO. DE FACTURE	AMOUNT MONTANT	ACCOUNT NO. NO. DE COMPTE
See attached statement of your account, as of Feb. 7, 1983			(1197.00)	1120-4 3945
			1223.30	
		TOTAL	26.33	

1983

1017

XRAL

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755

COPIES TO:

COPY TO:

UNEX CORPORATION LIMITED
ATTN: DR. T. VERDEEK, VICE PRESIDENT
1935 LESLIE STREET
DON MILLS, ONTARIO
M3B 2N3

SHIPPED TO:

UNEX CORPORATION LIMITED
ATTN: DR. T. VERDEEK, VICE PRESIDENT
1935 LESLIE STREET
DON MILLS, ONTARIO
M3B 2N3

INVOICE NO. 17188

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBMITTED
17188	25-FEB-83	12903	19-FEB-83
TERMS			
TERMS NET 30 DAYS			
1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS			

UNITS P.O. NO.	CLIENT PROJECT NO.	TYPE OF SAMPLES SUBMITTED
		SPLIT CORE PULP

NO. OF PKGS.	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
3 BAGS	SELF & COMPANY WD. 12571		

QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
1. 34	AU FADCP	10. 7. 0. 0. 0	6.50 221.00
2. 28	WHOLE ROCK <1000	6. 0. 0. 0. 0	17.50 490.00
3. 7	1ST ELEMENT CHARGE DCP	7. 0. 0. 0. 0	1.25 8.75
4. 1	NI PPM DCP	7. 0. 0. 0. 0	0.90 0.90
5. 7	CU PPM DCP	7. 0. 0. 0. 0	0.90 6.30
6. 6	ZN PPM DCP	7. 0. 0. 0. 0	0.90 5.40
7. 6	PB PPM DCP	7. 0. 0. 0. 0	0.90 5.40
8. 45	PREPARATION SPLIT CORE	1. 0. 0. 0. 0	2.50 112.50
SUB-TOTAL			\$ 850.25

613 - 495 - 4189
613 - 495 - 4089

7708
Boyer

[Signature]

SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES	850.25
OTHER			SURCHARGE - RUSH SERVICE	

\$ 850.25	850.25
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REPLICATE COPY

APPENDIX 3

Diamond Drill holes location and description.
Analyses on drill holes samples.

RECEIVED

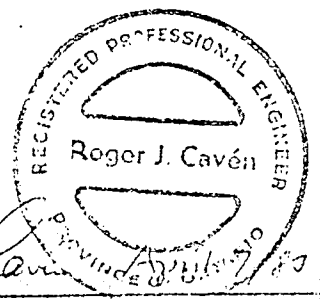
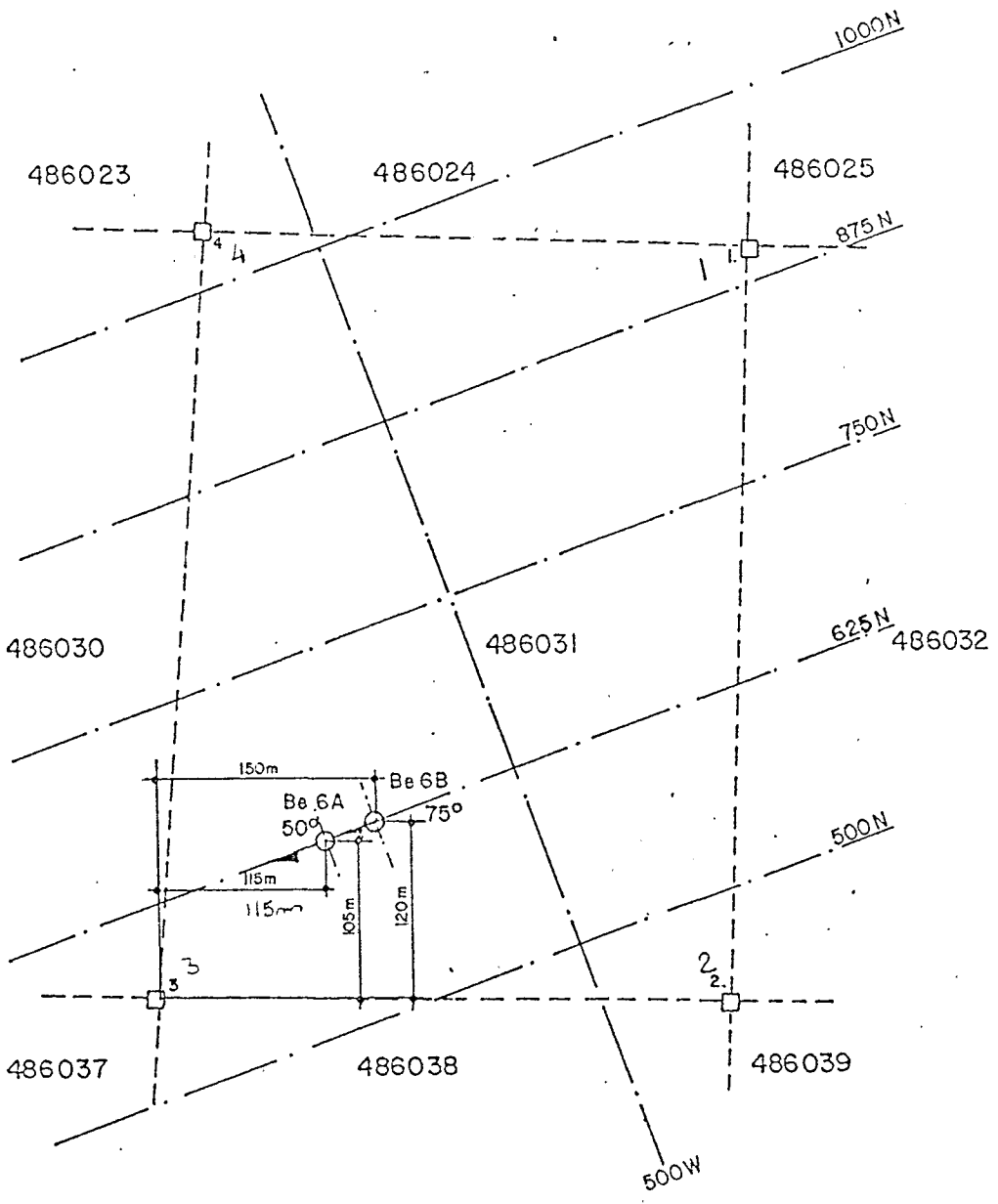
MAY 20 1983

MINING LANDS SECTION

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED
DRILL RECORD.

AREA BECK Hole No. B-6A Depth: 145' (44.2 m) Drilled By: Armstrong Described By:
 ANOMALY: Beck 1 West Bearing and Dip: 250°/-50° Started: Nov. 22/82 Machine:
 CLAIM: Pa 486031 (B-1) Local Coord. X= 625NY= 600W Z= 427 m Completed: Dec. 5/82 Diam Drill: AQ J.-J. Lefebvre

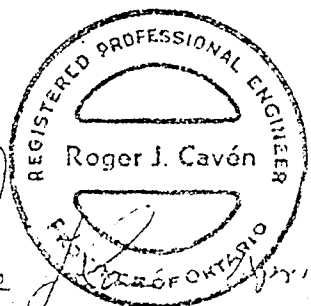
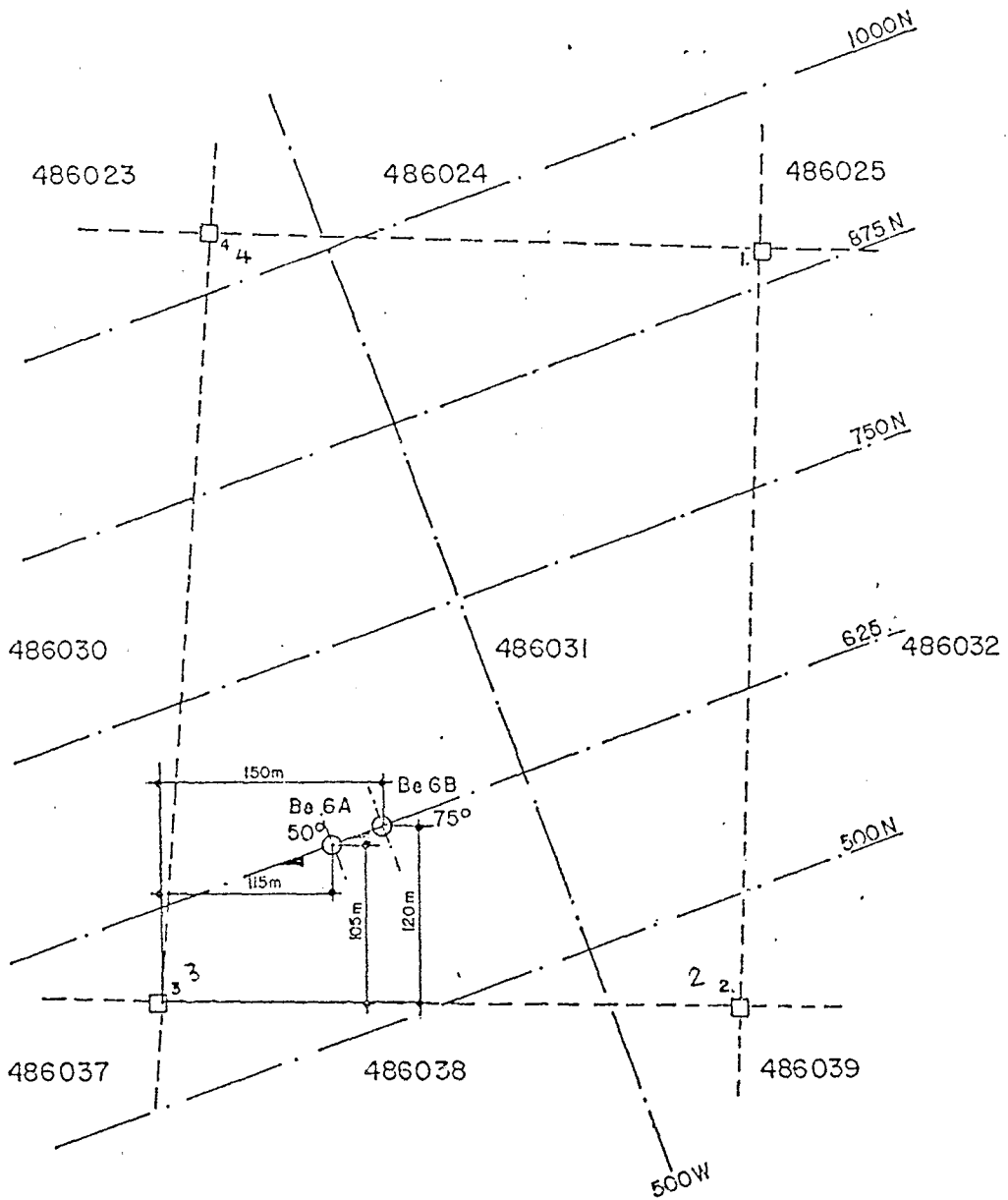
Depth		%	Description & Lithology	Mineralization	Dip	No. of Sample
From	To	Core				
0	145.0		Overburden Drill hole stopped in overburden because of broken drill rods.			



Roger J. Cavén

Roger J. Cavén, P.Eng. Chief Geophysicist.	Location D.D.H. Be 6A & 6B Scale: 1:5000 <u>UMEX Inc.</u>
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Depth(ft.)		% of Core	Description & Lithology	Mineralization	Dip to C.A.	No of Samp
From	To					
23.0	299.0		Sericitized andesitic zone			
29.0	346.5		Dacitic tuff or tuffaceous material - well sericitized, strongly foliated fine dacitic tuff containing small blue quartz phenocrysts - quartz vein between 319 and 321.0'		318.0 57°	
46.5	380.0		Dacitic tuff, weakly foliated, containing minor garnet and local staurolite crystallizations (plus tourmaline, pyrite and pyrrhotite) 349.0-355.0'			
80.0	411.0		Amphibole porphyry mafic intrusive - massive, actinolite-chlorite-plagioclase rock with minor magnetite and very rare garnets. - some calcite-quartz veins contain rare tiny grains of pyrite and chalcopyrite - the rock may be composed of minor cummingtonite	trace py-cp		
111.0	449.0		Crystal dacitic tuff - rare garnet dissemination - local accumulations of staurolite		440.0 53°	
149.0	493.0		Fine dacitic tuff - grey in colour, fine grained and poorly foliated - containing rare small garnets - well foliated garnet, amphibole-rich andesitic lapilli tuff between 473 and 481' (abundant pyrrhotite) - abundant patches of pyrrhotite mineralizations	abundant po (loc. up to 15%)		
193.0	502.5		Weakly foliated actinolite-chlorite rock - numerous quartz-carbonate veins, some associated with minor chalcopyrite and pyrrhotite mineralizations	trace py-cp		
502.5	507.0		Well foliated, light grey, rhyodacitic lapilli tuff.			
	507.0		END OF HOLE			



Roger J. Cavón
 April 7/83

Roger J. Cavón, P.Eng.
 Chief Geophysicist.

Location D.D.H. Be 6A & 6B
 Scale: 1:5000
 UMEX Inc.

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED
DRILL RECORD.

AREA Beck Hole No. B-7 Depth: 500' (152.4 m) Drilled By: Armstrong
 ANOMALY: Beck 1 Bearing and Dip: 250°/-50° Started: Oct. 20/82 Machine:
 CLAIM: Pa 486065 creek north Local Coord. X= 284E Y= 125S Z= 421 m Completed: Oct. 29/82 Diam Drill: AQ Described By: J.-J. Lefebvre

Depth		%	Description & Lithology	Mineralization	Dip	No. of Sample
From	To	Core				
0.0	34.0		Casing			
34.0	38.0		Altered felsic lapilli tuff - silicified and sericitized, well foliated tuff locally containing some chlorite - abundant tourmaline and minor andalusite - very rare pyrite dissemination.			
38.0	44.0		Altered fine mafic tuff - moderately foliated, dark green, chlorite-actinolite garnet rock - garnets are rather abundant - finely disseminated magnetite, rare tiny crystals of pyrite - thin quartz veins are frequent			
44.0	80.0		Altered felsic (?) lapilli-tuff - andalusite, silica, sericite rich rock with abundant tourmaline - locally well marked foliation - fine pyrite-pyrrhotite dissemination			
80.0	87.5	80-87% 50% recovery	Fracture zone - greenish white clay-rich fragments chlorite-sericite schist - fragments of garnet-rich amphibolite			
87.5	88.5		Andesitic tuff - dark, massive, fine grained amphibole, biotite rock with abundant fine garnets - very abundant extremely fine disseminations of pyrrhotite			
88.5	107.0		Felsic volcanic breccia - heterolithic breccia predominantly composed of felsic fragments	Po loc. up to 10%		

B-7

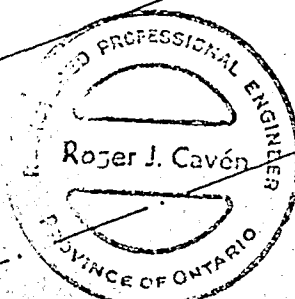
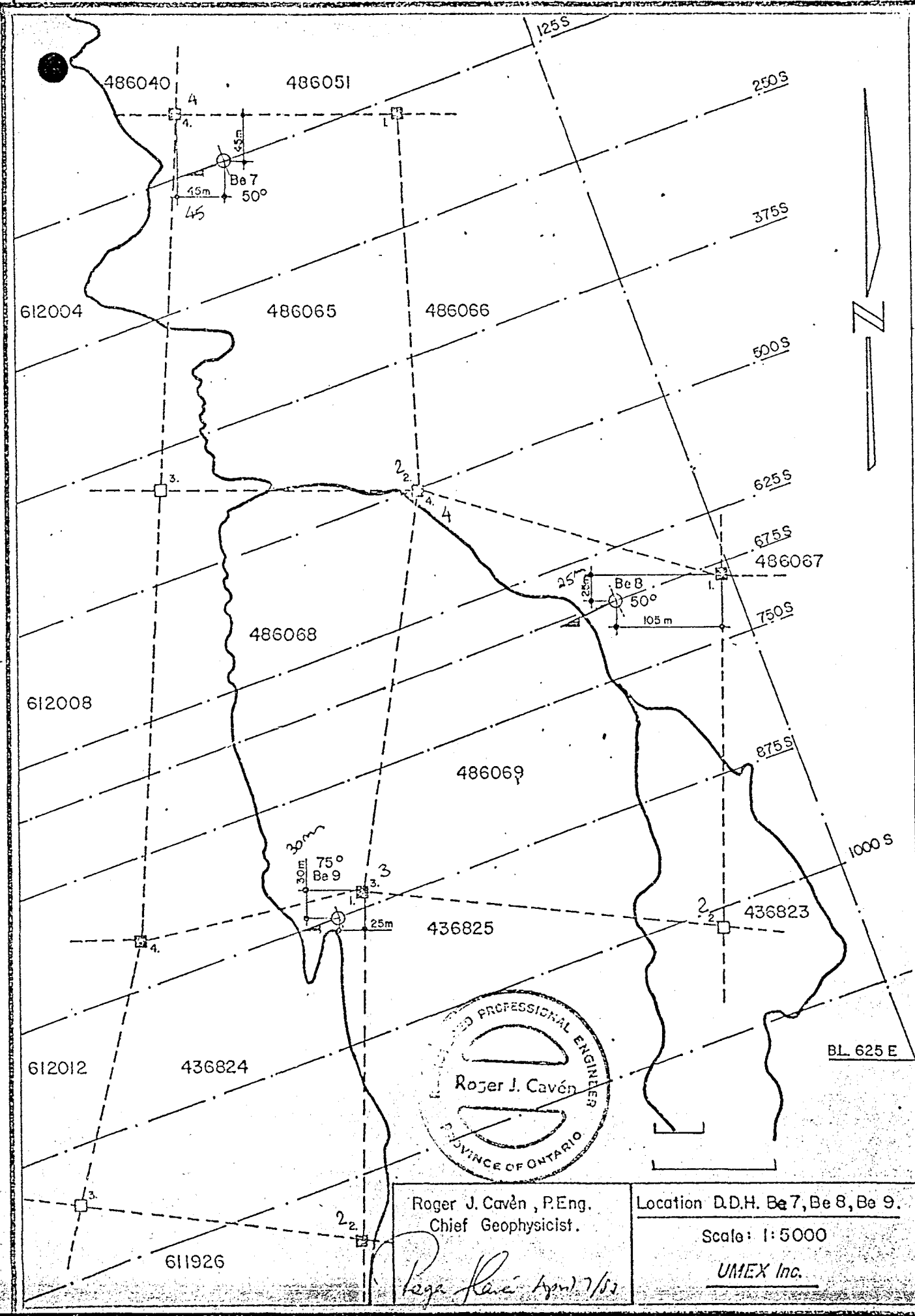
Depth		% of Core	Description & Lithology	Mineralization	Dip	No of Samp
From	To					
211.0	217.5		Sericitized andesitic tuff - well foliated, silicified mafic tuff - rich in sericite and chlorite, rare garnets - minor pyrite in the more mafic bands, tourmaline			
217.5	225.0		Sericite schist - schistosed sericite quartz (chlorite) rock - quartz vein between 222-297			
225.0	261.5		Altered mafic to intermediate volc. rock - poorly foliated amph. chlorite garnet rock - very abundant quartz phenocrysts, local patchy silicification - rare and diffuse crystallizations of fine pyrrhotite - local tuff or lapilli tuff texture - between 253' and 255' bleaching and quartz-muscovite veins	less 1% Po		
261.5	262.0		Zone with siliceous nodules and very thin graphitic layers		262'	
262.0	279.0		Biotite rich mafic rock - fine, rather massive, dark green - frequent thin quartz and carbonate veins - extremely fine pyrrhotite-chalcopyrite dissemination	tr. Po Cp	22° to	CA
279.0	283.0		Progressive change to			
283.0	304.0		Grey, felsic tuff - possibly epiclastic (?) - weakly sericitized - small fragments (1-3 cm) - between 293 and 300' lapilli tuff to breccia - more intense sericitization + andalusite between 283 and 285 - locally the rock contains rather abundant chlorite and traces of chalcopyrite		302'	21° to CA

B-7

Depth		% of Core	Description & Lithology	Mineralization	Dip	No. of Sampl
From	To					
304.0	329.0		Biotite rich mafic rock (ref. 262-279)			
329.0	382.0		White rock, almost massive, very fine sericitic foliation <ul style="list-style-type: none"> - granular and rich in silica - loc. chlorite rich + abundant andalusite - locally fine sulphide rich lenses (pyrite + chalcopyrite). - more basic between 337.5 and 345.5 - amph. and garnets between 344.5 and 345.5 	tr. Cp-Py	371' 12° to	CA
382.0	388.5		Chlorite-sericite schists <ul style="list-style-type: none"> - zones of more mafic material (chlorite) with fine fractures coated with pyrite - local andalusite concentrations 	loc. up to 1% Py		
388.5	394.5		Felsic lapilli tuff? altered <ul style="list-style-type: none"> - numerous quartz patches and veins - rare Py concentrations in thin mafic lenses. - loc. andalusite rich' at 393' qtz tourmaline rich vein (1") 			
394.5	420.0		Sericite schist <ul style="list-style-type: none"> - very finely foliated - a few qtz veins with pyrite disseminations - richer in chlorite between 403 and 420.0' 	tr. Py	408' 5° to	CA
420.0	444.0		Chlorite-sericite schist <ul style="list-style-type: none"> - similar rock, richer in chlorite - more mafic zones with loc. concentrations of pyrite and pyrrhotite - zones of very fine, contorted foliation - locally more sericite-rich with andalusite 		442' 15° to	CA
444.0	451.0		Basalt flow? intrusive? <ul style="list-style-type: none"> - poorly foliated, non or weakly altered mafic, fine and massive rock with rare dispersed garnets. 			

B-7

Depth		% of Core	Description & Lithology	Mineralization	Dip	No. of Samp
From	To					
451.0	477.5		Chlorite-sericite schist - loc. andalusite and qtz veins - abundant pyrite and pyrrhotite as disseminated min. or as stringers parallel to foliation - at about 460' staurolite crystallizations - lenses of mafic to intermediate material relatively enriched in pyrrhotite and pyrite	Po + Py up to 5% loc.	453' 25° to	CA
477.5	500.0		Strongly but irregularly sericitized mafic to intermediate volc.? material remarkably rich in large, pinkish, quartz phenocrysts. - Rare disseminated pyrite		496' 21° to	CA
	500.0		END OF HOLE			



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Roger J. Cavén April 7/03

Location D.D.H. Be 7, Be 8, Be 9.

Scale: 1:5000

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BL. 625 E

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED
DRILL RECORD.

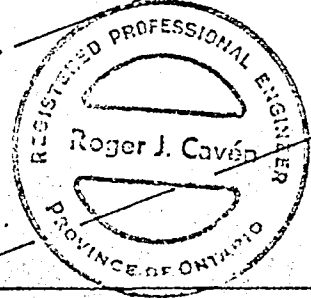
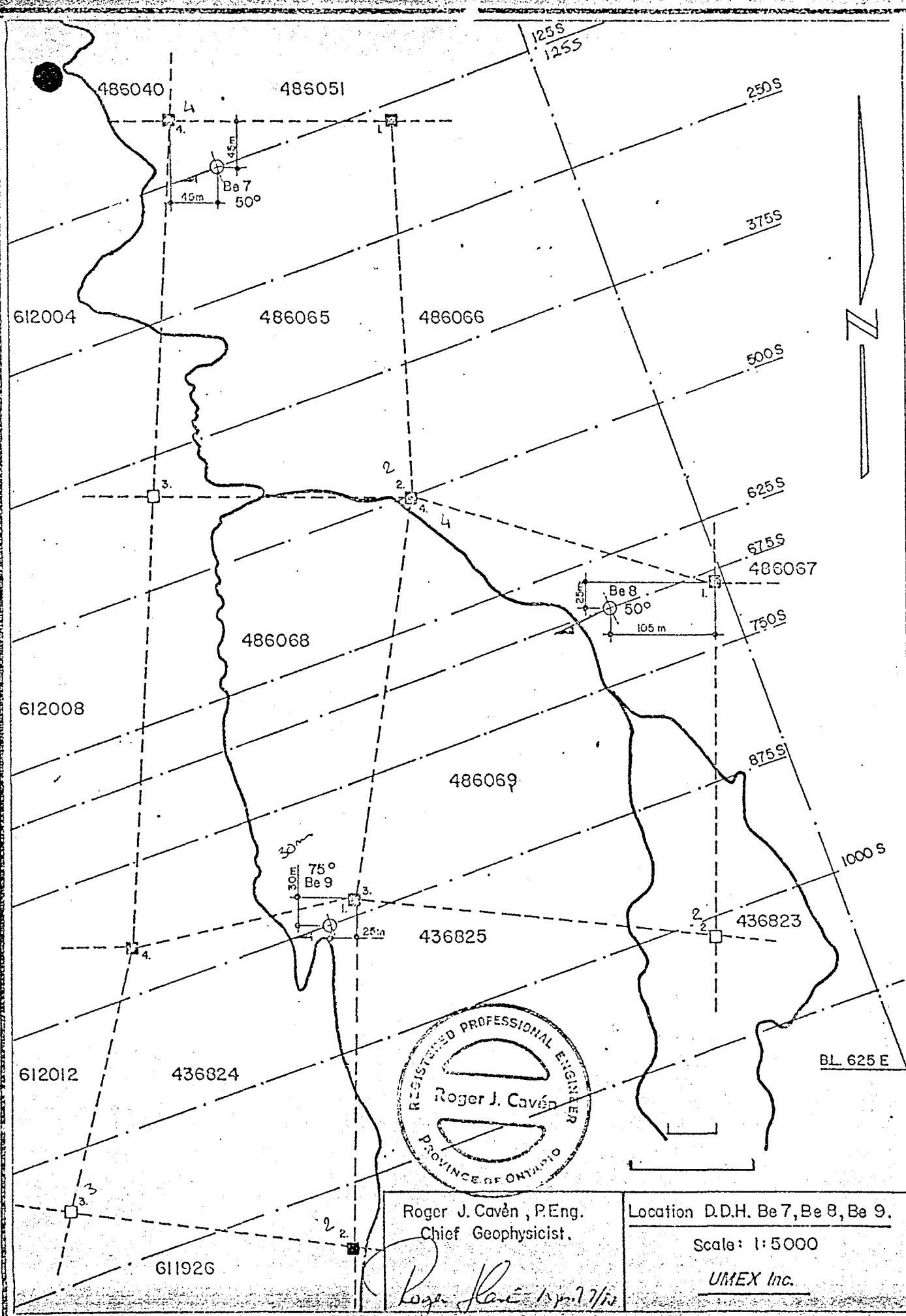
AREA BECK Hole No. B-8 Depth: 400' (121.9 m) Drilled By: Armstrong
 ANOMALY: Beck 1 Bearing and Dip: 255°/-50° Started: Nov. 7/82 Machine: Described By:
 CLAIM: Pa 486069 Local Coord. X= 506E Y=675S Z= Completed: Nov. 17/82 Diam Drill: AQ J.-J. Lefebvre

Depth		% Core	Description & Lithology	Mineralization	Dip to CA	No. of Sample
From	To					
0.0	10.0		Casing			
10.0	17.5		Intermediate tuff lapilli - grey in color, poor foliation - numerous mafic lenses (cummingtonite possible) - locally bleached (incipient sericitization) 17.5 abnormal contact (fault, fracture?)		33° (fracture)	
17.5	25.5		Andesitic tuff - dark blue, moderate foliation - numerous mafic lenses between 22' and 25.5' dacitic to andesitic tuff with small cherty lenses		19'-29° 22'-38°	
25.5	41.0		Altered intermediate tuff (?) - finely foliated, white rock, progressively massive - some amphibolitic lenses - rock remarkably rich in silica, sericite and andalusite - at the end, some fragment lapilli sized - very rare pyrite	trace py		
41.0	72.0		Volcanic breccia - white, massive rhyolitic breccia with fragments up to 2' - poor matrix, rich in silica and sericite - frequent pods and stringers of pyrite - between 59.5 and 72' weathered fractured zone	Pyrite locally up to 5%	65'-18°	
72.0	85.3		Deeply altered rock - rich in quartz and sericite, white rock - possibly a felsic lapilli tuff with some quartz veins no sulphides		82'-21°	

Depth		% of Core	Description & Lithology	Mineralization	Dip	No. of Samples
From	To					
85.3	93.0		Similar rock as above, but a little coarser - tuff lapilli? white in colour - breccia possible between 87 and 89'			
93.0	127.5		Altered andesitic (?) tuff - foliated, light grey rock with dots, patches and lenses of biotite - rich in tourmaline - tuff lapilli at 100', 120' - chloritized mafic zone between 103 and 106' and 107.5-109.0 with oxydized magnetite - at 123', one foot of garnet rich amphibolite (+magnetite) - at 125.6, half a foot of amphibolite		119'- 122'-	26° 22°
127.5	143.0		Felsic lapilli tuff well sericitized			
143.0	146.5		Very altered andesitic tuff			
146.5	181.0		Deeply altered lapilli tuff - very siliceous, heterogeneous rock with abundant sericite and siderite veins - patches and veins rich in quartz - fracturations at 179' (very siliceous zone)		148' 155'	-28° -21°
181.0	205.0		Deeply altered tuff - locally quartz-sericite schist with contorted foliation - rare biotitic lenses - originally the rock could have been dacitic or andesitic in composition			
205.0	244.0		Fine felsic tuff (?) - light grey in color - apparently deeply altered, massive, medium grained - possibly a relatively coarse sediment or undefined alteration - andesitic intrusive intersected between 216 and 217' 224 and 231.5 232.5 and 244.0' - thick siderite vein at 237'		214'	-22°

B-8

Depth		% of Core	Description & Lithology	Mineralization	Dip	No. of Sampl
From	To					
244.0	267.5		Sericite schist, very siliceous, contorted foliation			
267.5	296.0		Altered andesitic tuff with garnet rich mafic lenses and fine sediments	section of silica iron formation		
296.0	325.5		Contorted sericite-chlorite schist chloritic zone between 316 and 317 318 and 319 with sphalerite mineralization numerous quartz veins between 319 and 324'	Sp. 2-3%		
325.5	341.0		Andesitic intrusive associated with quartz and carbonate veins			
341.0	352.0		Deeply altered, massive, coarse material - massive sericite-chlorite rock (?) with patches of pyrite and pyrrhotite	3% Py Po		
352.0	360.5		Andesite spotted with cummingtonite and carbonate - fine dissemination of pyrite, pyrrhotite and possibly chalcopyrite	minor Py Po		
360.5	373.5		Deeply altered tuff with local cummingtonized mafic lenses - intense sericitization and abundant quartz phenocrysts - disseminated pyrite - contorted foliation	trace py		
373.5	400.0		Altered mafic rock with numerous carbonate veins (siderite ?)			
	400.0		END OF HOLE			



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 Chief Geophysicist.

Roger J. Cavén 1/27/82

Location D.D.H. Be 7, Be 8, Be 9.

Scale: 1:5000

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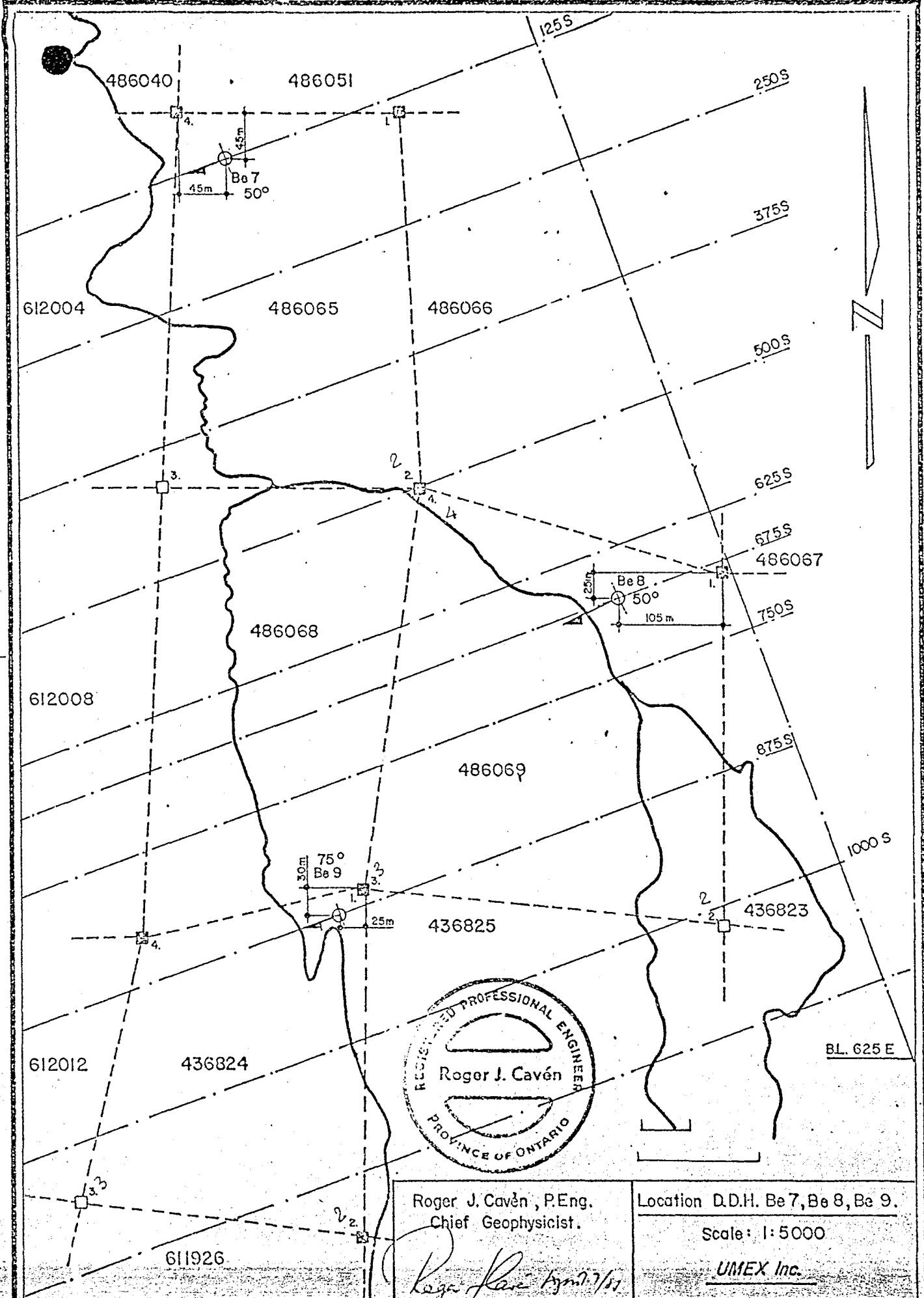
UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED
DRILL RECORD.

AREA BECK Hole No. B-9 Depth: 780' (237.7 m) Drilled By: Armstrong
 ANOMALY: Beck 1 South Bearing and Dip: 250°/-75° Started: Jan. 18/83 Machine: Described By:
 CLAIM: (B-1) Local Coord. X= 125E Y= 875S Z= Completed: Feb. 4/83 Diam Drill: AQ J.-J. Lefebvre
 Pa 436824

Depth		%	Description & Lithology	Mineralization	Dip to CA	No. of Sample.
From	To	Core				
0.0	84.0		Casing			
84.0	179.5		Coarse mafic (gabbro) intrusive - Massive green rock, locally slightly foliated - 84' to 125', rather massive amphibole porphyry metagabbro minor thin qtz-carbonate (epidote) veins - 125' to 179.5' massive and much coarser (amph. crystals up to 1.5 cm) locally weak interstitial Cp Py Po mineralization	3-4% sulfides as stringers between 171.5 and 173.0		
179.5	188.0		Finely foliated metasediments - lilac grey sericite-biotite rich, fine grained rock - greenish massive to poorly foliated chlorite-sericite rock - fine dissemination of pyrrhotite and minor chalcopyrite	tr. Po Cp	180' 37.5°	
188.0	448.0		Deeply altered rock (tuffaceous sediments ? or felsic tuffs) - highly silicified, locally sericitized light grey, massive to poorly foliated rock, loc. quite abundant andalusite (alteration of more mafic zones may contain some staurolite) - numerous diffuse stringers of pyrite and pyrrhotite - between 227.5 and 230'; 234.0 and 328' finely foliated garnet amphibolite - between 241.0 and 260.0' intercalation of finely foliated chlorite-sericite schists (altered meta-andesites?) - from about 280': quartz-sericite-andalusite schist - concentration of pyrite stringers between 399.0 to 406.0 410.0 to 430.0	(Po) Py loc. up to 5% tr. py up to 15% Py	277' 31.5° 360' 42.5° 434' 33.5°	

Depth		% of Core	Description & Lithology	Mineralization	Dip	No. of Sample
From	To					
448.0	460.0		Deeply altered rock (andesitic tuff?) abundant stringers of pyrite	loc. up to 20% Py		
460.0	518.0		Deeply altered rock (mafic flow or tuff?) - well foliated, medium grey, quartz, sericite, andalusite (?) staurolite, amphibole rock - disseminated, fine grained pyrite and pyrrhotite (concentrated in more mafic bands and lenses) rare garnets	up to 10% Py Po between 465.0 and 468 trace cp	468' 28.5°	
518.0	540.0		Less altered, massive mafic rock - massive, dark green, rich in chlorite and magnetite - locally, abundance of garnet			
540.0	562.0		Massive, mafic rock, metabasalt? - massive, dark green, amphibolite rich rock - medium grained, partly recrystallized			
562.0	602.5		Altered intermediate tuff (metaandesite) - banded, silicified rock, rich in quartz phenocrysts - locally abundant crystallizations of garnet, staurolite, alumino-silicates - stringers of pyrite and pyrrhotite between 562.0 and 569.0	Po and Py up to 10%	563' 28.5°	
602.5	729.0		Quartz porphyry, sericite-chlorite schist - weakly foliated, grey green rock - composed mainly of sericite, chlorite and minor andalusite - very fine dissemination of pyrite and pyrrhotite - possibly an altered mafic to intermediate rock	tr. Py Po	605' 31.5°	

Depth		% of Core	Description & Lithology	Mineralization	Dip	No. of Sample
From	To					
729.0	780.0		<ul style="list-style-type: none"> - Foliated to banded light grey and green rock - mainly composed of chlorite-sericite-quartz and patches of actinolite - tiny garnets less locally associated with amph. patches - rare thin quartz veins - few blue quartz 			
	780.0		END OF HOLE		670' 21°	
				very variable from 65° to 10°		



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Roger J. Cavén
1977/7/11

Location D.D.H. Be 7, Be 8, Be 9.

Scale: 1:5000

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DIAMOND DRILL HOLES

RESULTS OF ANALYSES

<u>Sample No.</u>			<u>Cu %</u>	<u>Cu ppm</u>	<u>Ni %</u>	<u>Ni ppm</u>	<u>Zn %</u>	<u>Zn ppm</u>	<u>Ag ppm</u>	<u>Pb ppm</u>	<u>Au oz/t</u>
<u>BECK 1</u>											
29407	(134.0-138.5)	4.5	-	42	-	-	-	35	-	-	<.001
29408	(163.0-167.0)	4.0	tr.	-	.01	-	-	-	-	-	<.001
29409	(167.0-172.0)	5.0	.01	-	.01	-	-	-	-	-	<.001
29410	(172.0-177.0)	5.0	.01	-	.02	-	-	-	-	-	<.001
29411	(178.5-182.5)	4.0	-	92	-	64	-	-	-	-	<.001
29412	(184.5-187.0)	2.5	-	55	-	54	-	-	-	-	<.001
<u>BECK 2</u>											
29405	(135.5-136.5)	1.0	-	76	-	-	-	62	-	20	<.001
29406	(148.5-152.0)	3.5	-	28	-	-	-	15	-	10	<.001
<u>BECK 3</u>											
29401	(227.5-231.0)	3.5	-	100	-	-	-	71	1	20	-
29402	(254.0-255.5)	1.5	-	3560	-	-	-	75	2	16	-
29403	(255.5-256.0)	0.5	-	13600	-	-	-	200	4	12	.003
29404	(256.0-257.0)	1.0	-	270	-	-	-	29	<1	12	-
<u>BECK 4</u>											
29413	(117.0-122.4)	5.4	-	13	-	-	-	28	-	-	-
29486	(181.5-183.25)	1.75	-	760	-	-	-	270	2	-	.001
29487	(191.5-192.5)	1.0	-	470	-	-	-	170	1	-	<.001
29414	(217.0-224.5)	7.5	-	26	-	-	-	140	<1	-	-
29415	(305.0-310.0)	5.0	-	28	-	-	-	58	<1	-	-
<u>BECK 5</u>											
29488	(409.0-411.0)	2.0	-	120	-	-	-	200	2	32	.004
29489	(416.5-418.0)	1.5	-	58	-	-	-	62	1	24	<.001

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED
DRILL RECORD.

AREA BECK Hole No. Be # 1 Depth: 401' Drilled By: Dominik Described By:
 ANOMALY: B2 Bearing and Dip: 250°/-50° Started: Oct. 19/80 Machine: Inspiration
 CLAIM: Local Coord. X= Y= Z= Completed: Oct. 23/80 Diam Drill: AQ P. Burchell
 L1250N; 562.5E

Depth		%	Description & Lithology	Mineralization	Dip to, C.A.	No. of Sampl
From	To	Core				
0	23.5		Casing			
23.5	45.0	95% recovery	<p>Lapilli Tuff (intermediate to mafic)</p> <ul style="list-style-type: none"> - dark gray in colour - approximately andesitic in composition - fine to medium grained - about 90% crystals, 10% glass <ul style="list-style-type: none"> - crystals average 8 to 10 mm in size - mostly amphiboles randomly arranged - glassy matrix composed of combination of quartz and calcite - trace py and cp as small blebs - weakly foliated at 45° to C.A. 	trace py, cp	45°	
45.0	51.5	100% recovery	<p>Amphibole schist</p> <ul style="list-style-type: none"> - dark gray in colour - fine grained - strongly foliated at 45° to C.A. - thin quartz banding parallel to foliation - weakly magnetic - stringers of py and po - about 10% sulphides - unknown peacock blue mineral along fracture cleavage 	py, po (10%)	45°	
51.5	67.0		<p>Lapilli Tuff</p> <ul style="list-style-type: none"> - as previously described (from 23.5' to 45.0') - locally biotite rich 	trace py, cp		

Be # 1

Depth		% of Core	Description & Lithology	Mineralization	Dip C.A.	No. of Sample
From	To					
67.0	102.0	100%	<p>Intermediate to Mafic Tuff</p> <ul style="list-style-type: none"> - very fine grained - almost a glass - medium gray in colour - locally biotite rich along fracture cleavages - dacitic to andesitic in composition - increasingly quartz rich down the hole - weakly foliated at 60° to C.A. at 90' - slightly coarser grained at the end of the section - barren of visible sulphides <p>- contact at 102' is distinct</p> <ul style="list-style-type: none"> - intermediate tuff (above contact) is brecciated - matrix composed of small calcite stringers 	barren	60°	
102.0	104.0	100%	<p>Mafic Tuff</p> <ul style="list-style-type: none"> - very fine grained - dark gray to black in colour - locally biotite rich - basaltic in composition - weak foliation at 60° to C.A. - barren of visible sulphides 	barren	60°	
104.0	119.5	100%	<p>Intermediate to Mafic Tuff</p> <ul style="list-style-type: none"> - as previously described (67.0' to 102.0') - locally epidote rich along fracture cleavages 	barren		
119.5	206.5	95%	<p>Mafic Tuff</p> <ul style="list-style-type: none"> - as previously described (from 102.0' to 104.0') - gradational contact with above unit <p>124.0 to 130.0 - strongly foliated at 45° to C.A.</p> <ul style="list-style-type: none"> - locally amphibole rich - thin biotite bands parallel to foliation <p>130.0 to 131.0 - mottled appearance due to quartz enrichment</p> <p>131.0 to 134.0 - as previously described 124' to 130'</p>			

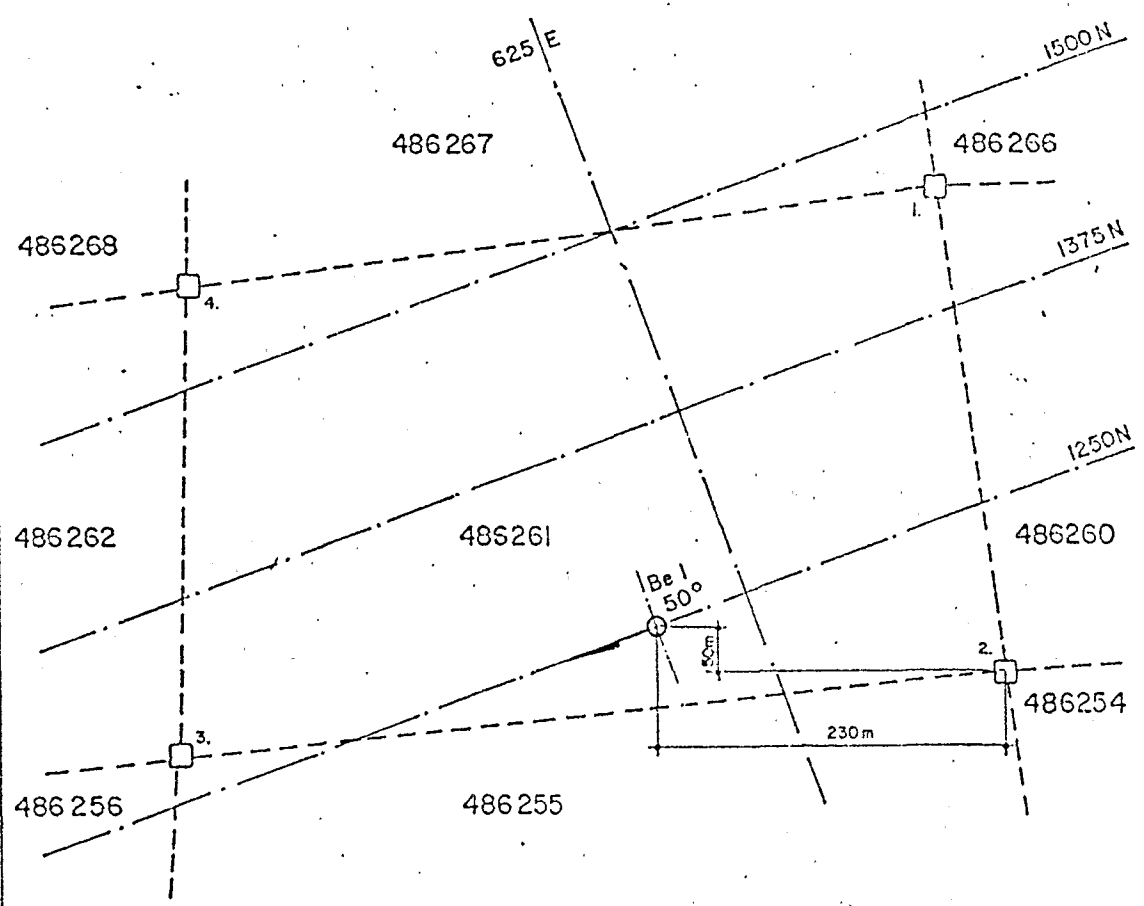
Be # 1

Depth		% of Core	Description & Lithology	Mineralization	Chip	No of Samp
From	To					
119.5	206.5		(Cont'd.)			
			134.0 to 138.5 - mottled appearance - locally epidote rich - slightly vuggy - subhedral quartz crystals in open vugs - fracture fill py, po and cp - about 10% sulphides - weakly magnetic - 1" massive py, po at 137'	py, po, cp (10% sulphides)		
			138.5 to 140.0 - mottled appearance from sphalerite (?) or garnet clusters - about 10 to 15% - locally biotite and epidote rich - about 1% to 2% sulphides - py and po	py, po sph (?)		
			140.0 to 142.5 - as previously described 134 to 138.5' - about 2% sulphides	py, po, cp (2% sulphides)		
			142.5 to 143.5 - as previously described 138.5 to 140'	py, po, sph (?)		
			143.5 to 144.5 - as previously described 131 to 134' - minor py, po, cp	py, po, cp		
			144.5 to 146.5 - as previously described 138.5 to 140'	py, po, sph(?)		
			146.5 to 148.0 - as previously described 131 to 134'	py, po		
			148.0 to 150.0 - as previously described 138.5 to 140'	py, po, sph(?)		
			150.0 to 154.0 - as previously described 131 to 134' - 1" massive py zone at 152'	py, po		
			154.0 to 159.0 - as previously described 138.5 to 140'	py, po, sph(?)		
			159.0 to 162.0 - as previously described 131 to 134'	py, po		
			162.0 to 165.0 - as previously described 138.5 to 140'	py, po, sph(?)		

Be # 1

52 J/02 NE 0051 #2

Depth		% of Core	Description & Lithology	Mineralization	No. of Samples
From	To				
214.0	281.0		<p>Mafic Tuff</p> <ul style="list-style-type: none"> - as previously described 131 to 134' - some small mottled zones (as previously described 138.5-140') - quartz rich locally - fracture fill py and po - about 3% sulphides - locally calcite rich (up to 1" veins) - some small brecciated zones - around 280', becoming more quartz rich <ul style="list-style-type: none"> - composition intermediate to mafic - gradational change 	py, po (3% sulphides)	
281.0	326.5		<p>Intermediate to Mafic Tuff</p> <ul style="list-style-type: none"> - as previously described 200.5 to 214.0' - small zones of mottled garnetiferous mafic tuff - thinly banded py and po - about 5% sulphides 	py, po	
326.5	401.0		<p>Intermediate Tuff - dacitic in composition</p> <ul style="list-style-type: none"> - fine grained - gray in colour - small lapilli tuff zones - quartz rich zones - thinly banded biotite and po, py - about 2% sulphides - common calcite enrichment 	py, po	
	401.0		<p>END OF HOLE</p> <p><u>Acid Tests</u></p> <ul style="list-style-type: none"> -45° @ 200' -43° @ 400' 		



REG. PROFESSIONAL E.
 Roger J. Cavan, P. Eng.
 Chief Geophysicist
Roger Cavan
 17/8

Location DDH, Be 1
 Scale: 1:5000
 UMEX Inc.

Beck 1 and 2
lain block

52 S/2 NE-005 #4

surface sample numbering

Beck 2

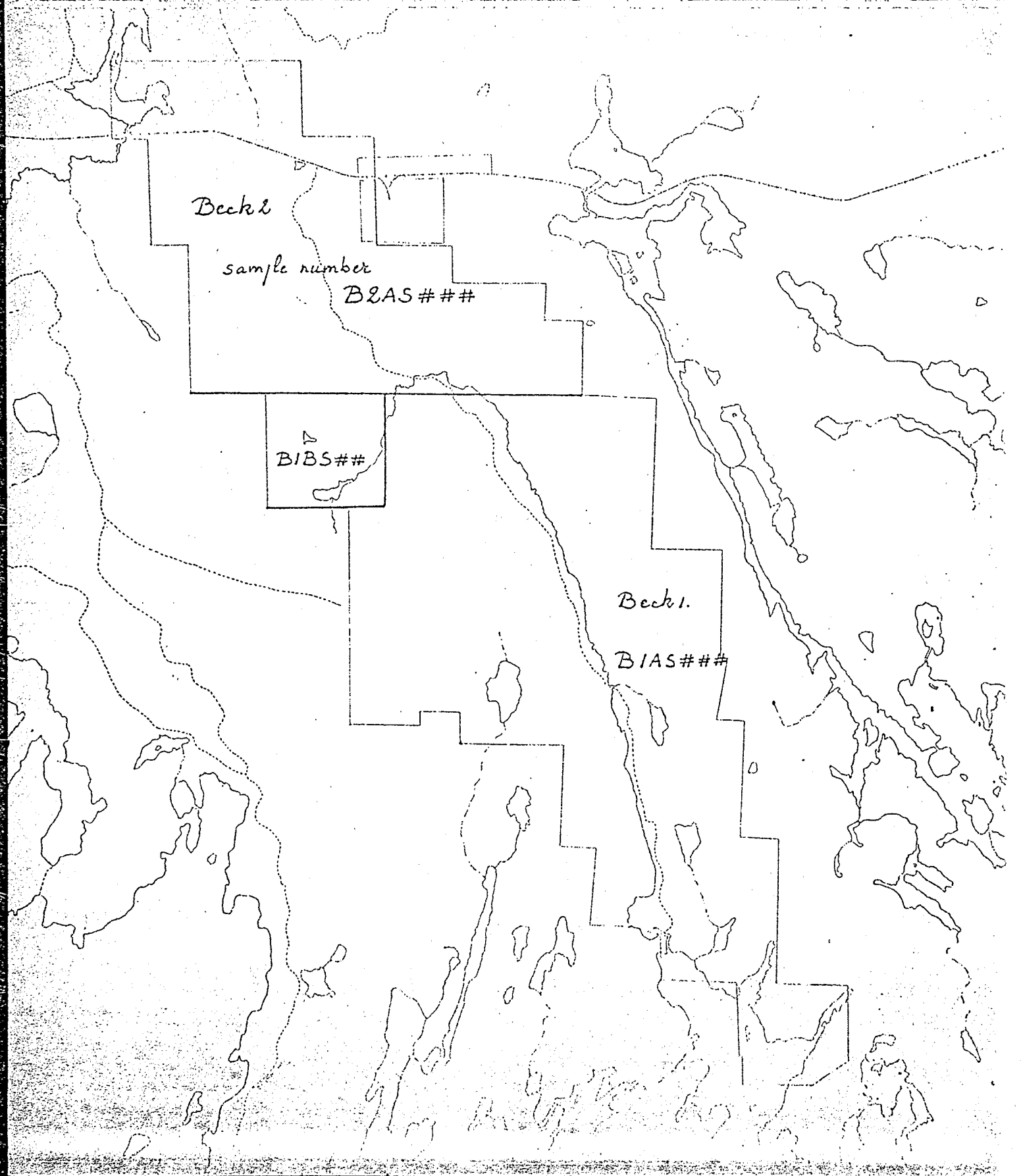
sample number

B2AS###

BIBS##

Beck 1.

B1AS###



Geol Geol

83-42

Geol

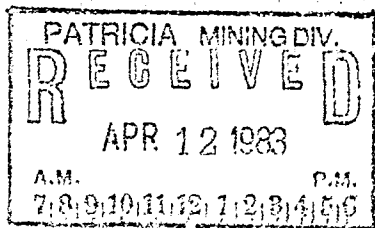
2.5564

52 J/02 NE-0051 # 6

Pa 486	✓		Pa 486022	✓		96	✓
72	✓		✓ 72	✓		97	✓
✓ 73	✓		74	✓		✓ 486102	✓
74	✓		75	✓		03	✓
75	3/11		76	✓		74	✓
76	✓		270	✓		79	✓
77	✓		310	✓		10	✓
78	✓		320	✓		71	✓
79	✓		330	✓		72	✓
80	✓		34	✓		60	✓
Pa 136823	✓		350	✓		77	✓
24	✓		400	✓		78	✓
25	✓		440	✓		79	✓
26	✓		490	✓		20	✓
28	✓		50	✓		71	✓
29	✓		520	✓		75	✓
30	✓		590	✓		76	✓
31	✓		600	✓		77	✓
32	✓		620	✓		78	✓
33	✓		630	✓		79	✓
34	✓		650	✓		20	✓
35	1/2		660	✓		31	✓
38	✓		680	✓		32	✓
			690	✓		34	✓
Pa 137423	✓		700	✓		35	✓
24	✓		880	✓		36	✓
25	✓		890	✓		✓ 486259	✓
26	1/4		90	✗		50	✓
✓ 27	✓		970	✓		51	✓
28	✓		930	✓		57	✓
29	✓		940	✓		58	✓
30	✓		950	✓		60	✓

	Geol	Geoch		Geol	Geoch	.. 52J/02NE-0051	#7
48620	✓	∅	Pa 487 533	1/2			
55 ✓	✓	∅	55	∅			
56	✓	∅	56	1/2		* claims not coloured	
57	✓	∅	57	1/4		in yellow were not	
58	✓		58	∅		indicated on the	
59	✓		39	∅		maps provided	
60	✓		40	∅		for Geological Survey	
61	✓		Pa 611926	✓			
62	✓		612002	∅			
			63	✓			
Pa 486 507	1/2		507	✓			
✓ 51	1/2		06	∅			
52	✓		52	✓			
487063	✓		53	✓			
54	✓		54	✓			
55	✓		55	✓			
56	✓						
69	✓						

APPENDIX "A"
GEOLOGICAL SURVEY

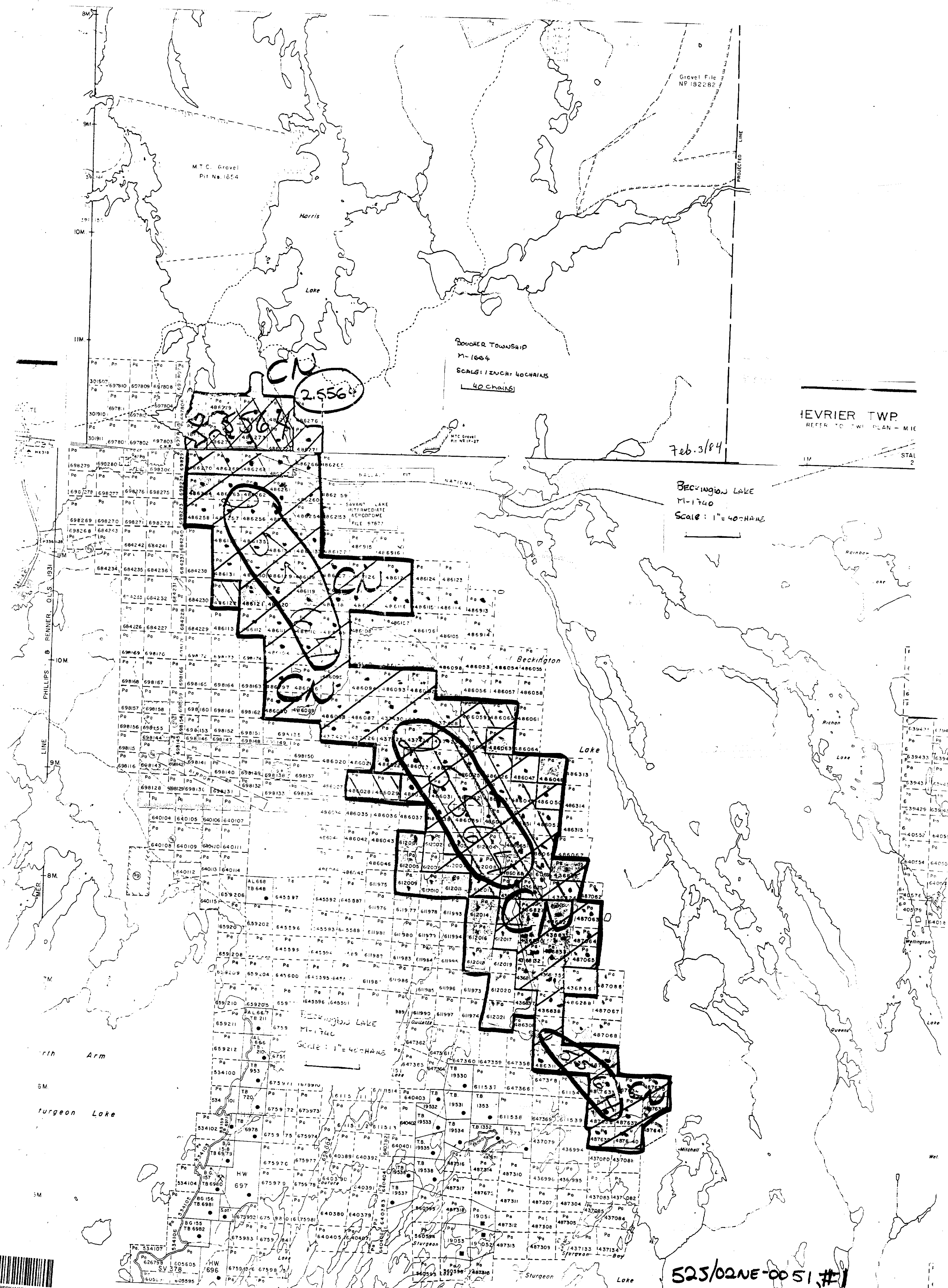


BOUCHER TWP. - M.1664

Pa 486271	Pa 486274	Pa 486278
486272	486275	486279
486273	486277	486280

BECKINGTON LAKE - M.1740

Pa 436823	Pa 486047	Pa 486120
436824	486049	486121
436825	486050	486125
436826	486051	486126
436828	486052	486127
436829	486059	486128
436830	486060	486129
436831	486062	486130
436832	486063	486131
436833	486065	486133
436834	486066	486134
436835	486068	486135
436838	486069	486136
	486087	
Pa 437423	486088	Pa 486254
437424	486089	486255
437425	486090	486256
437426	486092	486257
437427	486093	486258
437428	486094	486260
437429	486095	486261
437430	486096	486262
	486097	486263
		486264
Pa 486022		486266
486023	Pa 486102	486267
486024	486103	486268
486025	486104	486269
486026	486109	486270
486030	486110	
486031	486111	Pa 486309
486032	486112	486311
486033	486116	486312
486038	486117	
486039	486118	
486040	486119	



Feb. 3/84

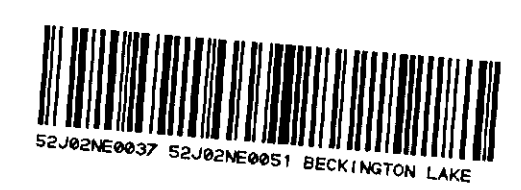
BEVRIER TWP.
REFER TO TWP PLAN - MIE

BECKINGTON LAKE
M-1740
Scale: 1" = 40 CHAINS

2.5564

BOUCHER TOWNSHIP
M-1664
Scale: 1" = 40 CHAINS

525/02NE-0051, #1



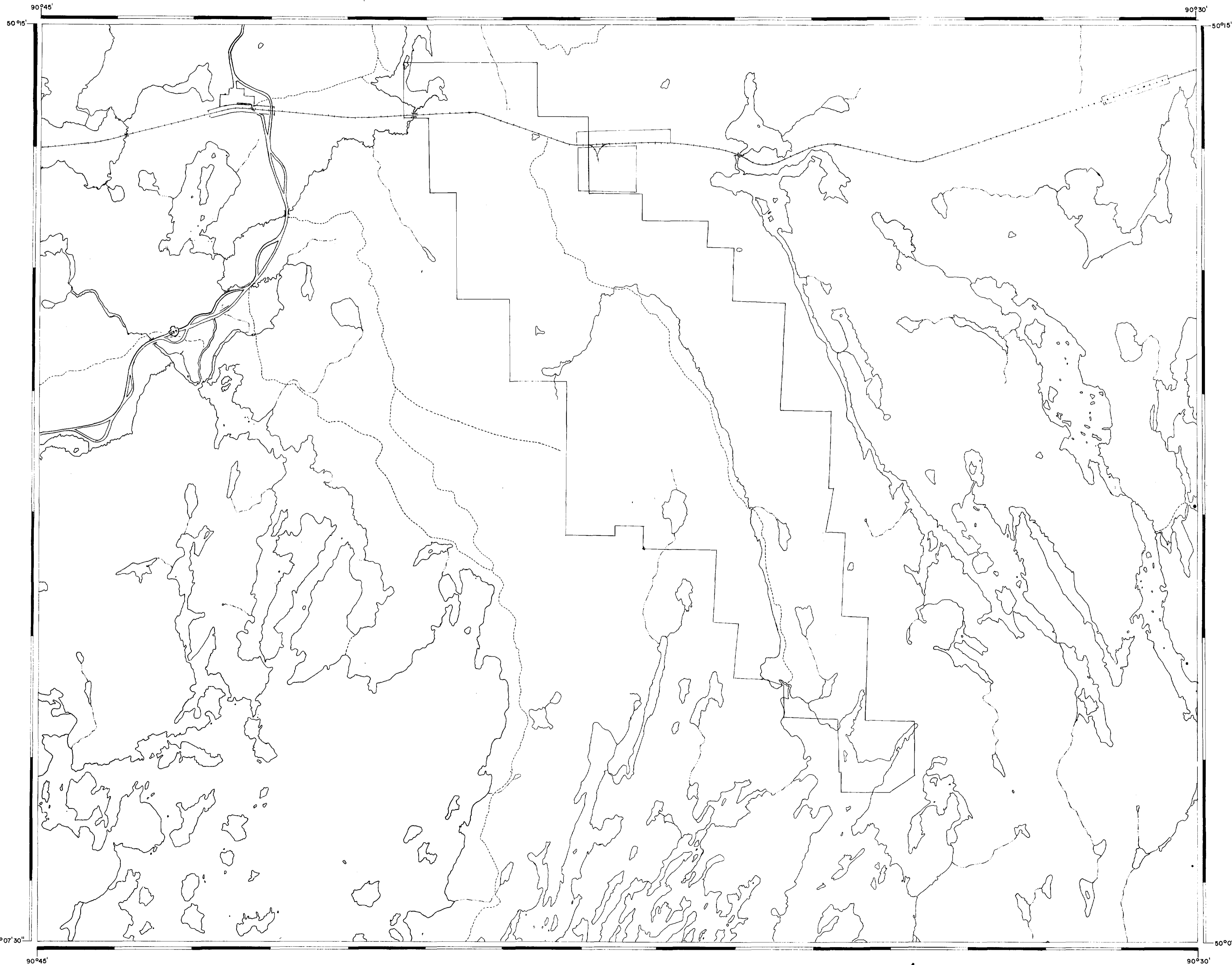


Figure No. 1

BECK 1 & 2 AREA

LOCATION MAP

Scale: 2" = 1 Mile

UMEX CORPORATION LTD.

DRAWN BY:
DATE:
SURVEYED BY:

DWG. No. 25564

525/02 NE-0051, #2



210

52J82NE0051 BECKINGTON LAKE

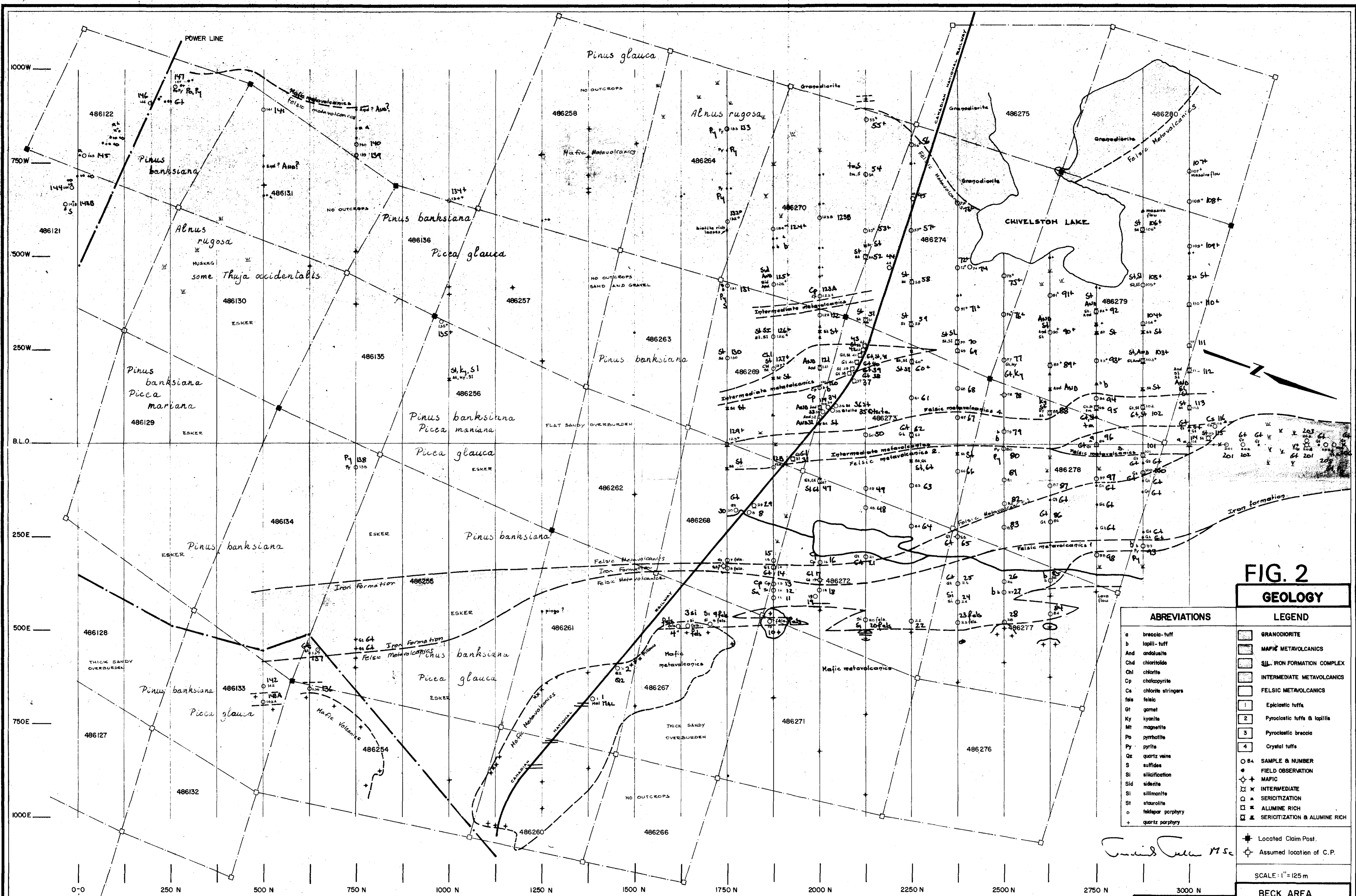


FIG. 2

GEOLOGY

ABBREVIATIONS		LEGEND	
a	breccia- tuff	[Symbol]	GRANODIORITE
b	lapilli- tuff	[Symbol]	MAFIC METAVOLCANICS
And	andalusite	[Symbol]	SIL. IRON FORMATION COMPLEX
Chd	chloritoid	[Symbol]	INTERMEDIATE METAVOLCANICS
Chl	chlorite	[Symbol]	FELSIC METAVOLCANICS
Cp	chalcopyrite	[Symbol]	Epilastic tuffs
Cs	chlorite stringers	[Symbol]	Pyroclastic tuffs & lapillia
fels	felsic	[Symbol]	Pyroclastic breccia
Gt	garnet	[Symbol]	Crystal tuffs
Ky	kyanite	[Symbol]	○ 84 SAMPLE & NUMBER
Mt	magnetite	[Symbol]	● FIELD OBSERVATION
Po	pyrrhotite	[Symbol]	◇ MAFIC
Py	pyrite	[Symbol]	⊗ INTERMEDIATE
Qz	quartz veins	[Symbol]	⊠ SERICITIZATION
S	sulfides	[Symbol]	⊡ ALUMINE RICH
Si	silicification	[Symbol]	⊞ SERICITIZATION & ALUMINE RICH
Sid	siderite	[Symbol]	
Sl	sillimanite	[Symbol]	
St	staurolite	[Symbol]	
o	feldspar porphyry	[Symbol]	
+	quartz porphyry	[Symbol]	

[Symbol] Located Claim Post.
 [Symbol] Assumed location of C.P.

SCALE: 1" = 125 m

BECK AREA
GRID B2

J.J. LEFEBVRE, PH. D.
Research Geologist

UMEX Inc.

DWG. No 1.

525/02 NE-0051, #3



525/02 NE-0051 BECKINGTON LAKE

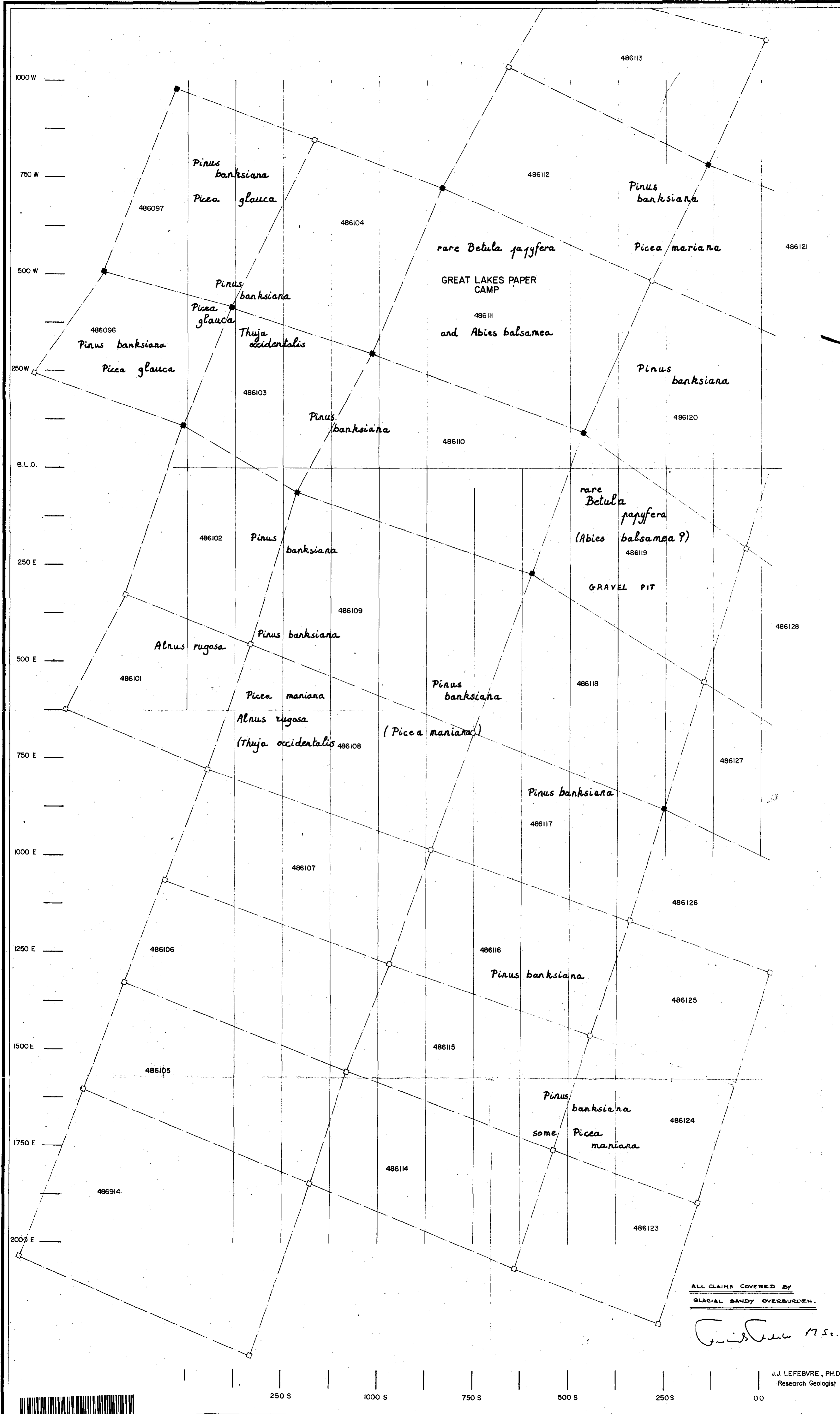


FIG. 3
UMEX Inc.

GEOLOGY

ABBREVIATIONS

a	breccia - tuff
b	lapilli - tuff
And	andolinite
Chd	chloritoid
Chl	chlorite
Cp	chalcopyrite
Cs	chlorite stringers
fels	felsic
Gt	garnet
Ky	kyanite
Mt	magnetite
Po	pyrrhotite
Py	pyrite
Qz	quartz veins
S	sulfides
Si	silicification
Sid	siderite
Sl	illimite
St	staurolite
o	feldspar porphyry
+	quartz porphyry

LEGEND

[Symbol]	GRANODIORITE
[Symbol]	MAFIC METAVOLCANICS
[Symbol]	SIL. IRON FORMATION COMPLEX
[Symbol]	INTERMEDIATE METAVOLCANICS
[Symbol]	FELSIC METAVOLCANICS
[1]	Epiclastic tuffs
[2]	Pyroclastic tuffs & lapilli
[3]	Pyroclastic breccia
[4]	Crystal tuffs
○	SAMPLE & NUMBER
•	FIELD OBSERVATION
◇	MAFIC
⊗	INTERMEDIATE
⊠	SERICITIZATION
⊡	ALUMINE RICH
⊢	SERICITIZATION & ALUMINE RICH
⊣	Located Claim Post.
⊤	Assumed location of C.P.

ALL CLAIMS COVERED BY
GLACIAL SANDY OVERBURDEN.

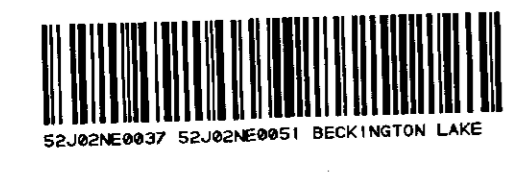
G. J. Lefebvre M.Sc.

SCALE: 1" = 125 m

BECK AREA
GRID B2

DWG. No. 2

J.J. LEFEBVRE, PH.D.
Research Geologist



ABBREVIATIONS

- a breccia-tuff
- b lapilli-tuff
- And andalusite
- Chl chlorite
- Cp chalcopyrite
- Ca chlorite stringers
- fels felsic
- Gt garnet
- Ky kyanite
- Mt magnetite
- Po pyrrhotite
- Py pyrite
- Qz quartz veins
- S sulfides
- Si silicification
- Sid siderite
- Sl sillimanite
- St staurolite
- o feldspar porphyry
- + quartz porphyry

525/02NE-0051, #5

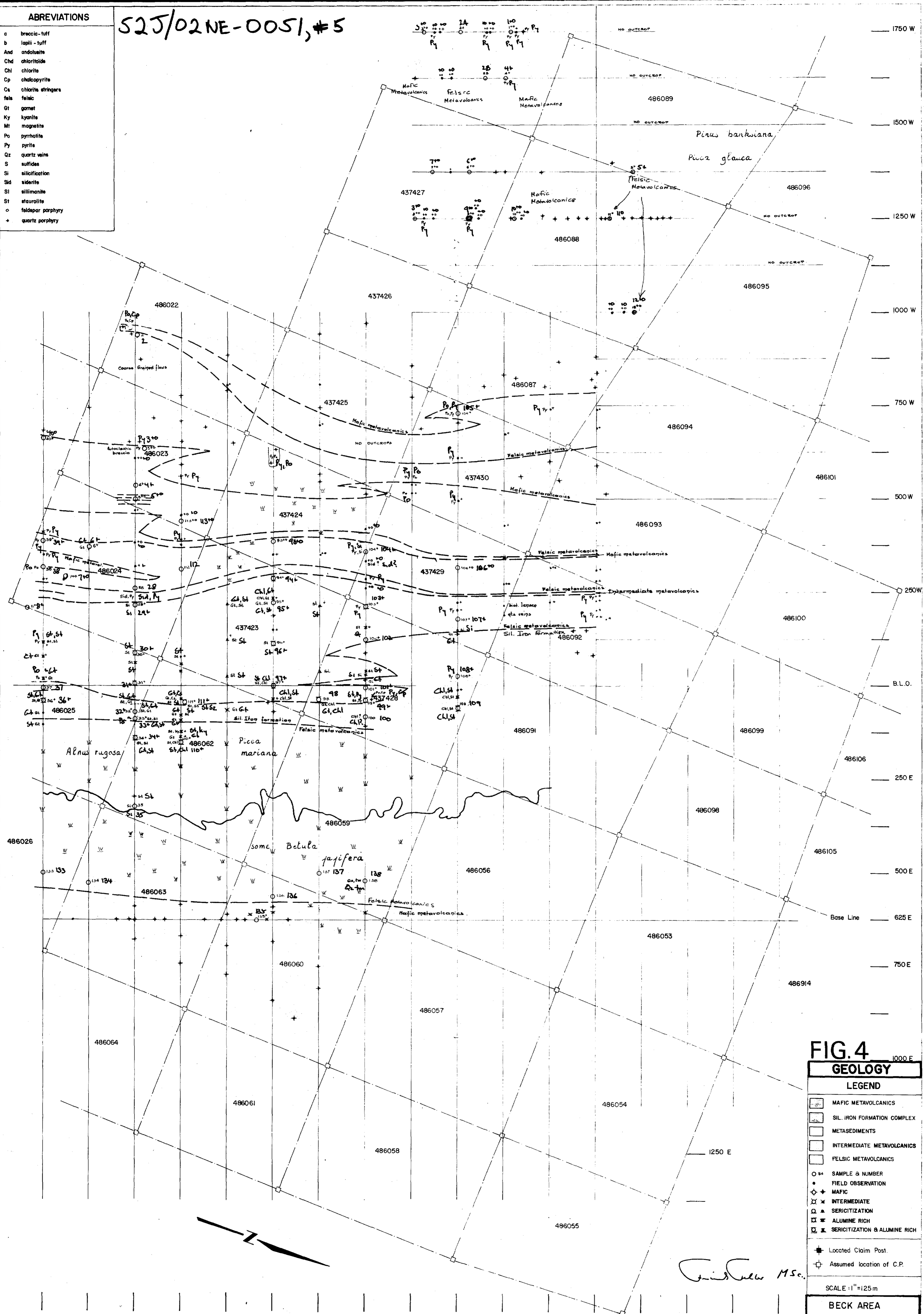


FIG. 4
GEOLOGY

- LEGEND
- MAFIC METAVOLCANICS
 - SIL. IRON FORMATION COMPLEX
 - METASEDIMENTS
 - INTERMEDIATE METAVOLCANICS
 - FELSIC METAVOLCANICS
 - SAMPLE & NUMBER
 - FIELD OBSERVATION
 - ◇ MAFIC
 - ◇ INTERMEDIATE
 - ◇ SERICITIZATION
 - ◇ ALUMINE RICH
 - ◇ SERICITIZATION & ALUMINE RICH
 - ⊕ Located Claim Post.
 - ⊕ Assumed location of C.P.

SCALE: 1"=125m

BECK AREA
GRID B1

UMEX Inc

J.J. LEFEBVRE, PH.D.
Research Geologist

DWG. N° 3.

525/02NE-0051, #5



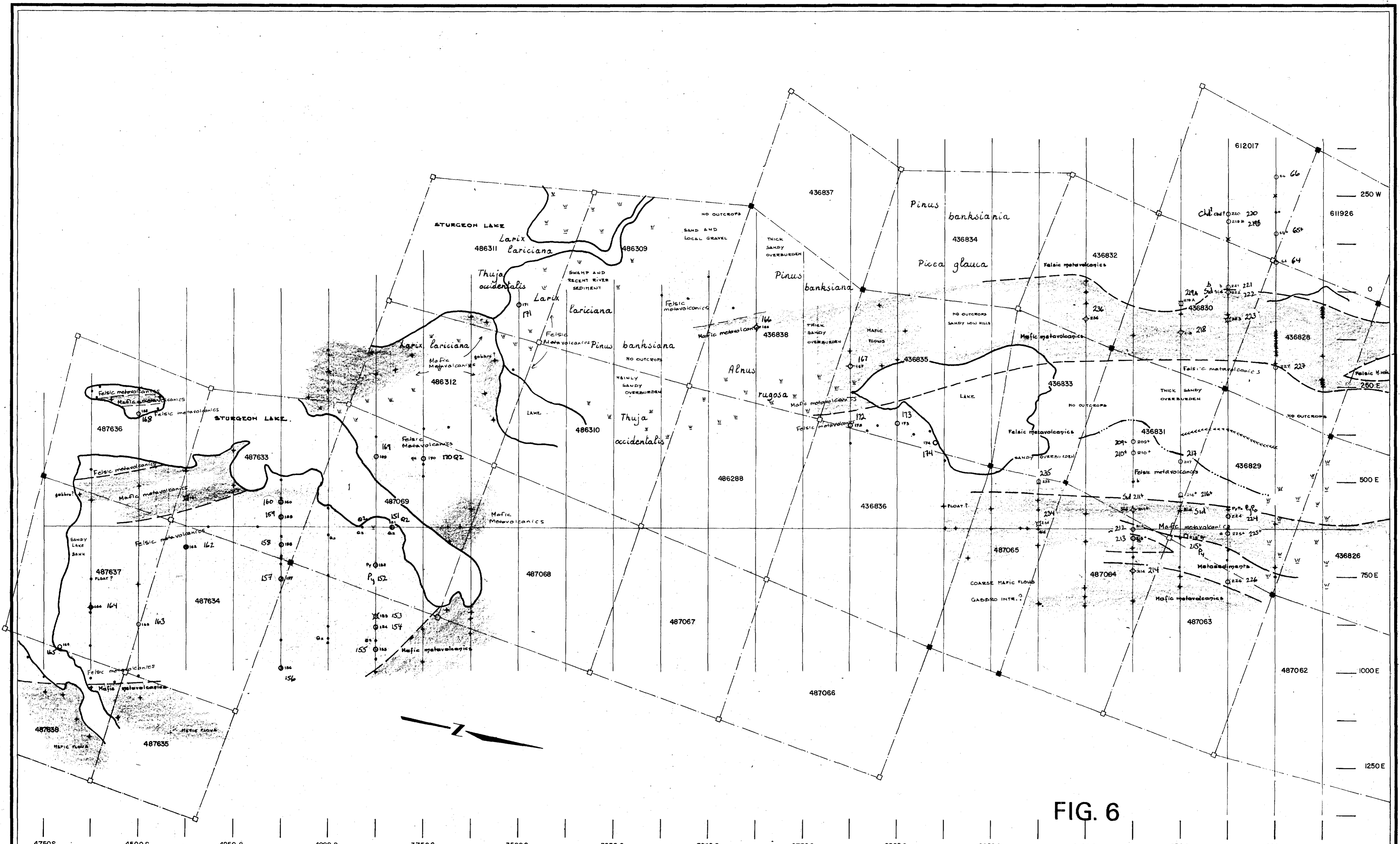
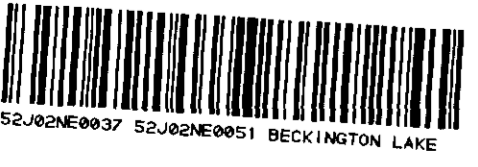


FIG. 6

4750S 4500S 4250S 4000S 3750S 3500S 3250S 3000S 2750S 2500S 2250S 2000S 1750S 1500S

250 W 500 E 750 E 1000 E 1250 E



260

52J/02NE-0051, #7

David Jones M.Sc.

ABBREVIATIONS			SAMPLE & NUMBER FIELD OBSERVATION MAFIC INTERMEDIATE SERICITIZATION ALUMINE RICH SERICITIZATION & ALUMINE RICH	GEOLOGY LEGEND		Located Claim Post. Assumed location of C.P. SCALE: 1" = 125m BECK AREA GRID BI DWG. N° 5.
Symbol	Abbreviation	Description		Symbol	Description	
○	feldspar porphyry	Mt magnetite	○ 145	MAFIC METAVOLCANICS	J.J. LEFEBVRE, PH.D. Research Geologist	
+	quartz porphyry	Po pyrrhotite	○ 146	SIL. IRON FORMATION COMPLEX		
		Py pyrite	○ 147	METASEDIMENTS		
		Qz quartz veins	○ 148	INTERMEDIATE METAVOLCANICS		
		S sulfides	○ 149	FELSIC METAVOLCANICS		
		Si silicification	○ 150			
		Sid siderite	○ 151			
		Sl sillimanite	○ 152			
		St staurolite	○ 153			
		a breccia-tuff	○ 154			
		b lapilli-tuff	○ 155			
		And andalusite	○ 156			
		Chd chloritoid	○ 157			
		Chl chlorite	○ 158			
		Cp chalcocopyrite	○ 159			
		Cs chlorite stringers	○ 160			
		fels felsic	○ 161			
		Gt garnet	○ 162			
		Ky kyanite	○ 163			

UMEX Inc.

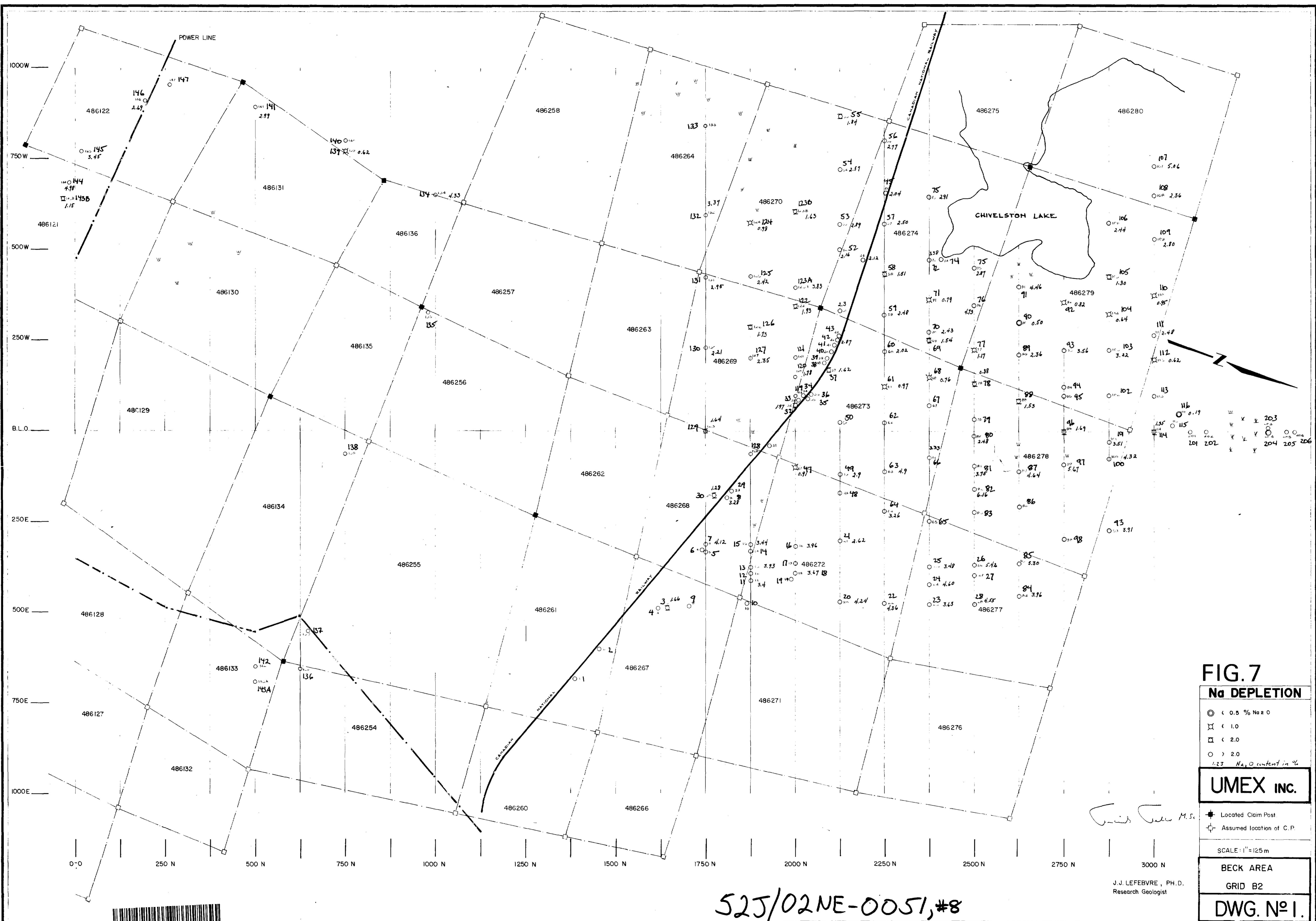


FIG. 7
Na DEPLETION

○ < 0.5 % Na₂O
 ⊠ < 1.0
 □ < 2.0
 ○ > 2.0
0.25 Na₂O content in %

UMEX INC.

* Located Claim Post
 + Assumed location of C.P.

SCALE: 1" = 125 m

BECK AREA
GRID B2
DWG. N° 1.

Geoffrey M.S.

J.J. LEFEBVRE, PH.D.
 Research Geologist

52J/02NE-0051, #8



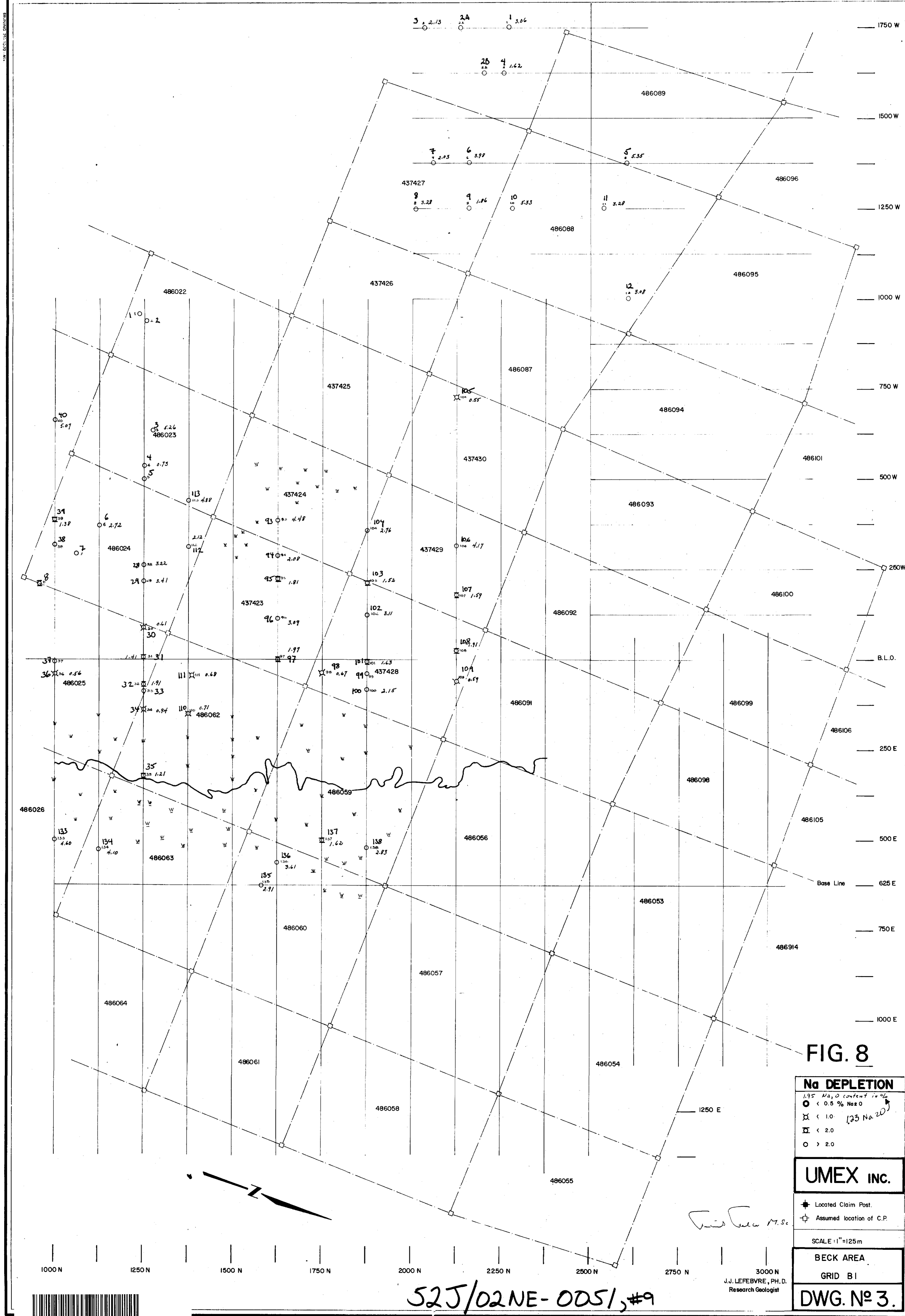


FIG. 8

Na DEPLETION
 1.95 Na₂O content is %
 ● < 0.5 % Na₂O
 ✕ < 1.0
 □ < 2.0
 ○ > 2.0

UMEX INC.

★ Located Claim Post.
 ⊕ Assumed location of C.P.

SCALE: 1"=125m

BECK AREA
GRID B1

DWG. N° 3.

J.J. Lefebvre M.Sc.

J.J. LEFEBVRE, PH.D.
 Research Geologist

52J/02NE-0051, #9



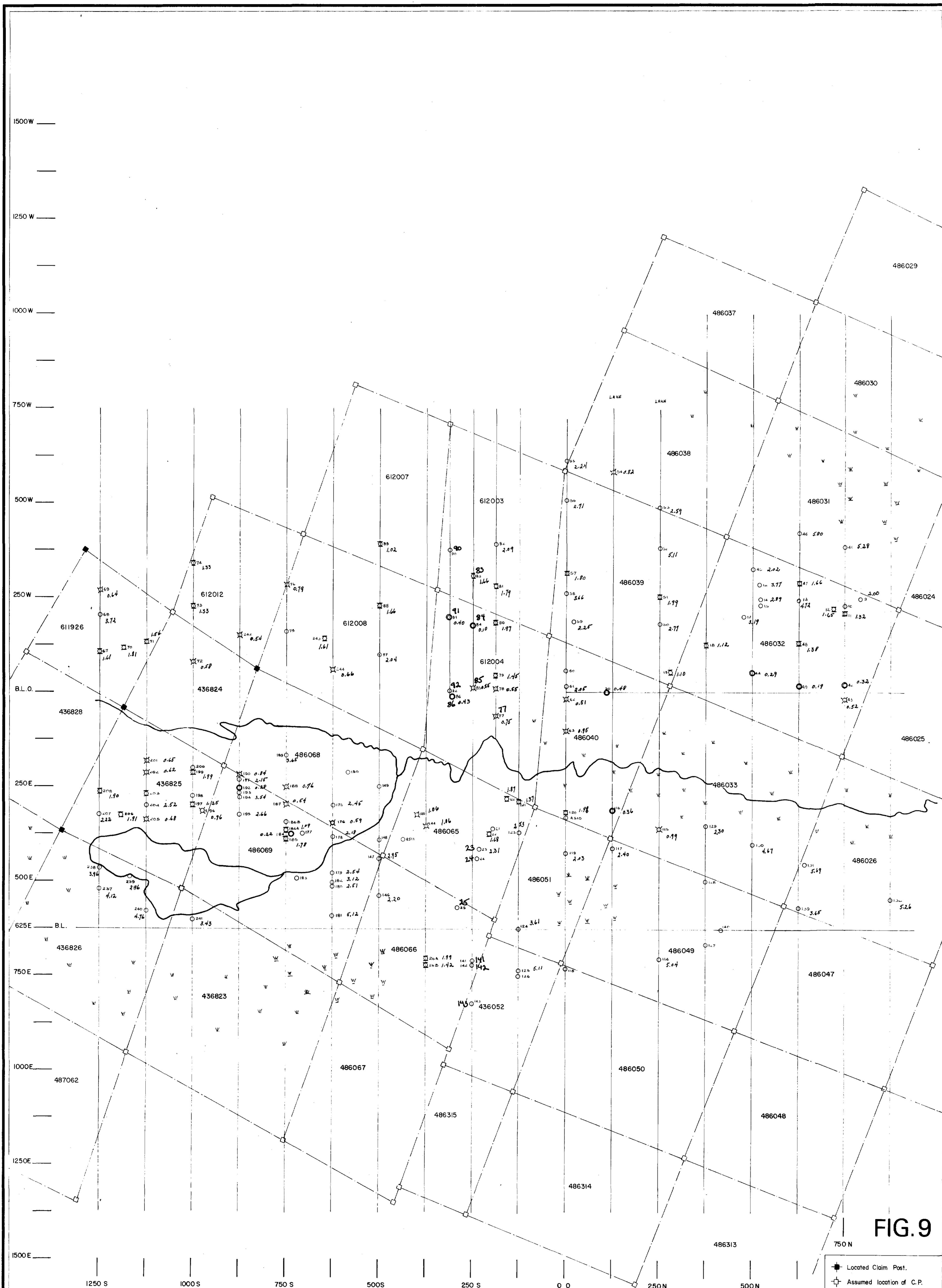


FIG. 9

+ Located Claim Post.
 □ Assumed location of C.P.

SCALE: 1" = 125m

BECK AREA

GRID B I

DWG. N° 4.

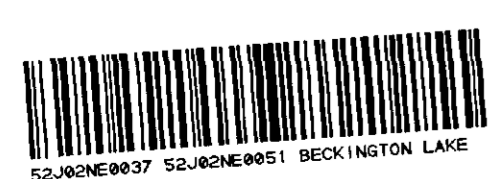
Na DEPLETION

- 1.63 Na₂O content in %
- < 0.5 % Na₂O
- ⊗ < 1.0 147 Na₂O
- ⊠ < 2.0
- > 2.0

J.J. LEFEBVRE, PH.D.
Research Geologist

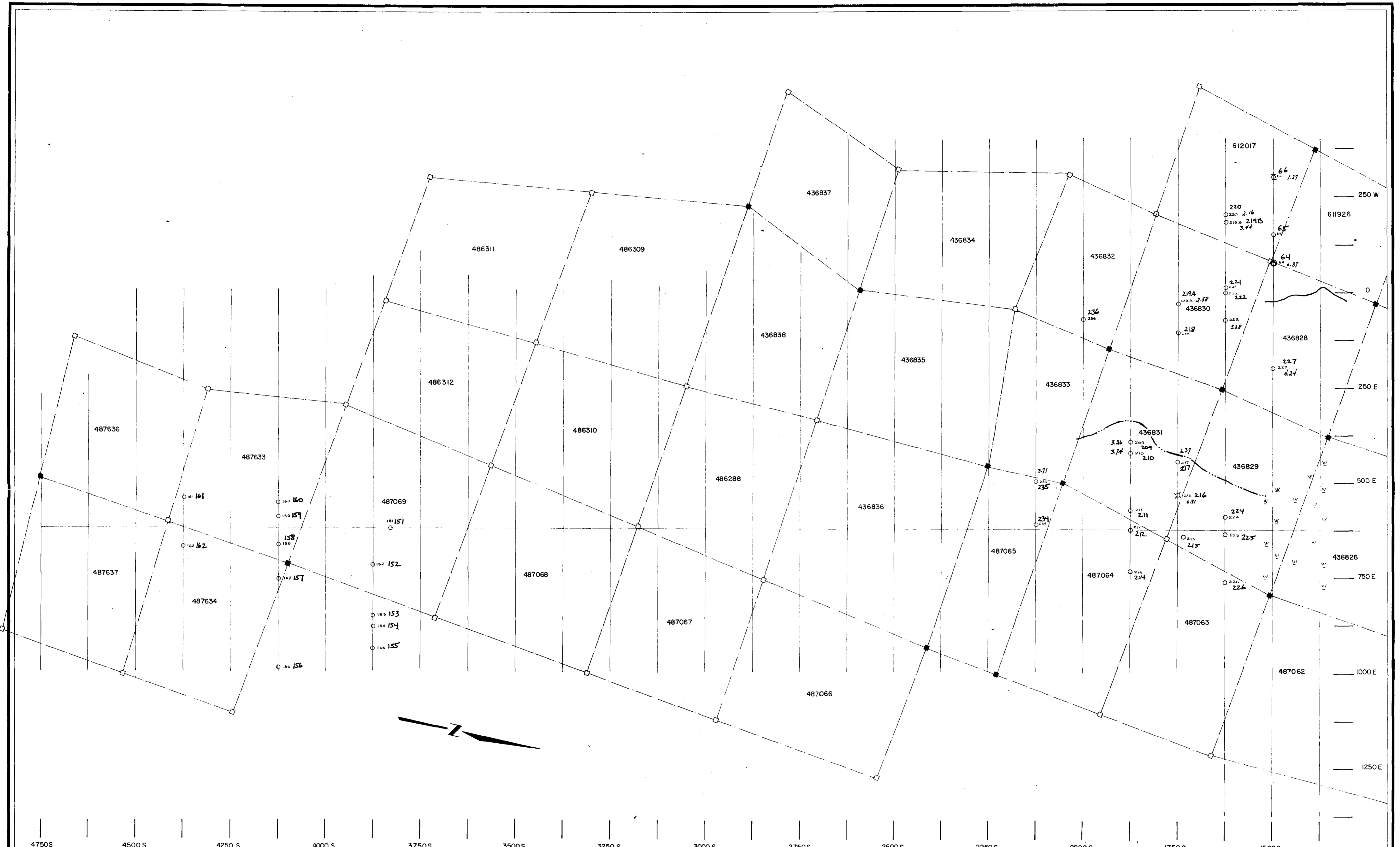
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UMEX INC.



290

52J/02NE-0051, #10



4750S 4500S 4250S 4000S 3750S 3500S 3250S 3000S 2750S 2500S 2250S 2000S 1750S 1500S

250W 250E 500E 750E 1000E 1250E



FIG. 10

* Located Claim Post.
 □ Assumed location of C.P.

SCALE: 1" = 125m

BECK AREA
GRID B1

DWG. No 5.

Na DEPLETION	
○	Na ₂ O content in %
○	< 0.5 % Na ₂ O
⊗	< 1.0
⊠	< 2.0
○	> 2.0

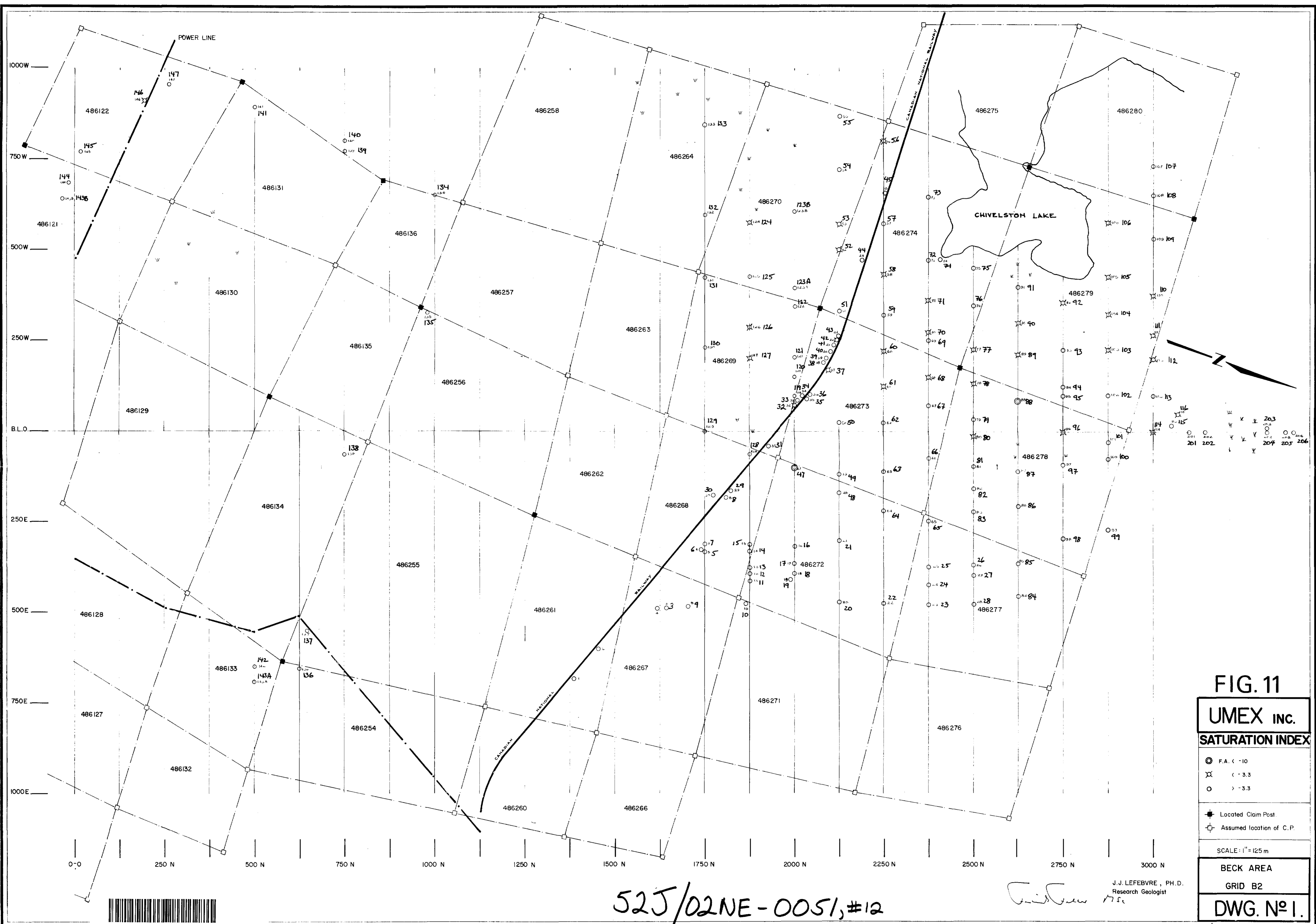
J.J. LEFEBVRE, PH.D.
Research Geologist

James J. Lefebvre

UMEX INC.

52J/02NE-0051, #11





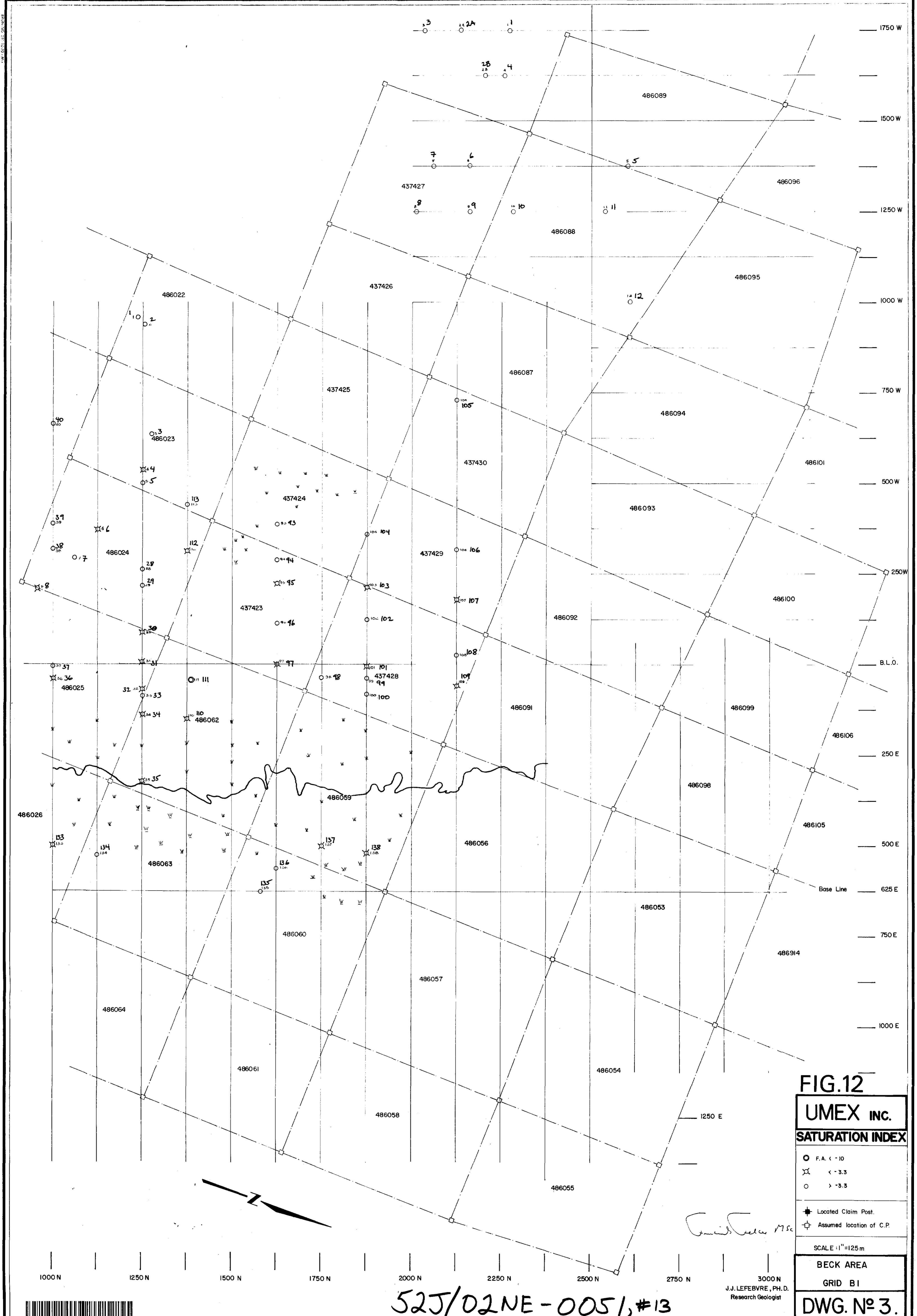


FIG.12
UMEX INC.
SATURATION INDEX

- F.A. < -10
- ⊗ < -3.3
- > -3.3

- ⊕ Located Claim Post.
- ⊙ Assumed location of C.P.

SCALE: 1"=125m

BECK AREA
GRID B1
DWG. N° 3.

Smith, M.Sc.

52J/02NE-0051, #13

J.J. LEFEBVRE, PH.D.
 Research Geologist



2.5564 elup

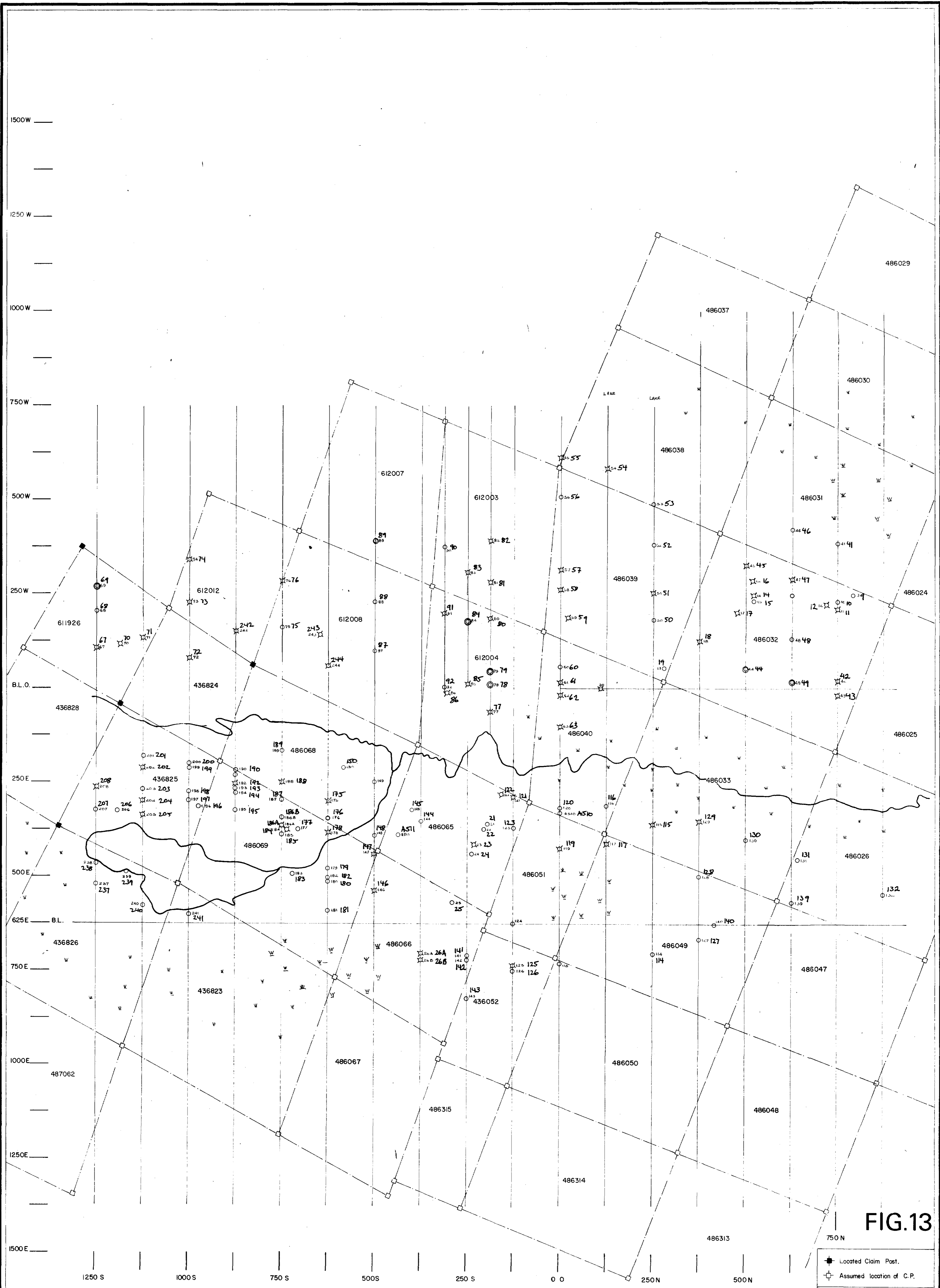


FIG. 13

* Located Claim Post.
 □ Assumed location of C.P.

SCALE: 1" = 125m

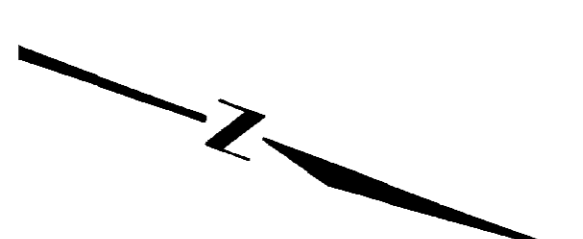
BECK AREA
GRID B I

DWG. N° 4.



330

52J/02NE-0051, #14



J.J. Lefebvre
3554 yd
UMEX INC.

SATURATION INDEX	
○	F.A. < -10
✕	< -3.3
○	> -3.3

J.J. LEFEBVRE, PH.D.
 Research Geologist

BECKINGTON LAKE

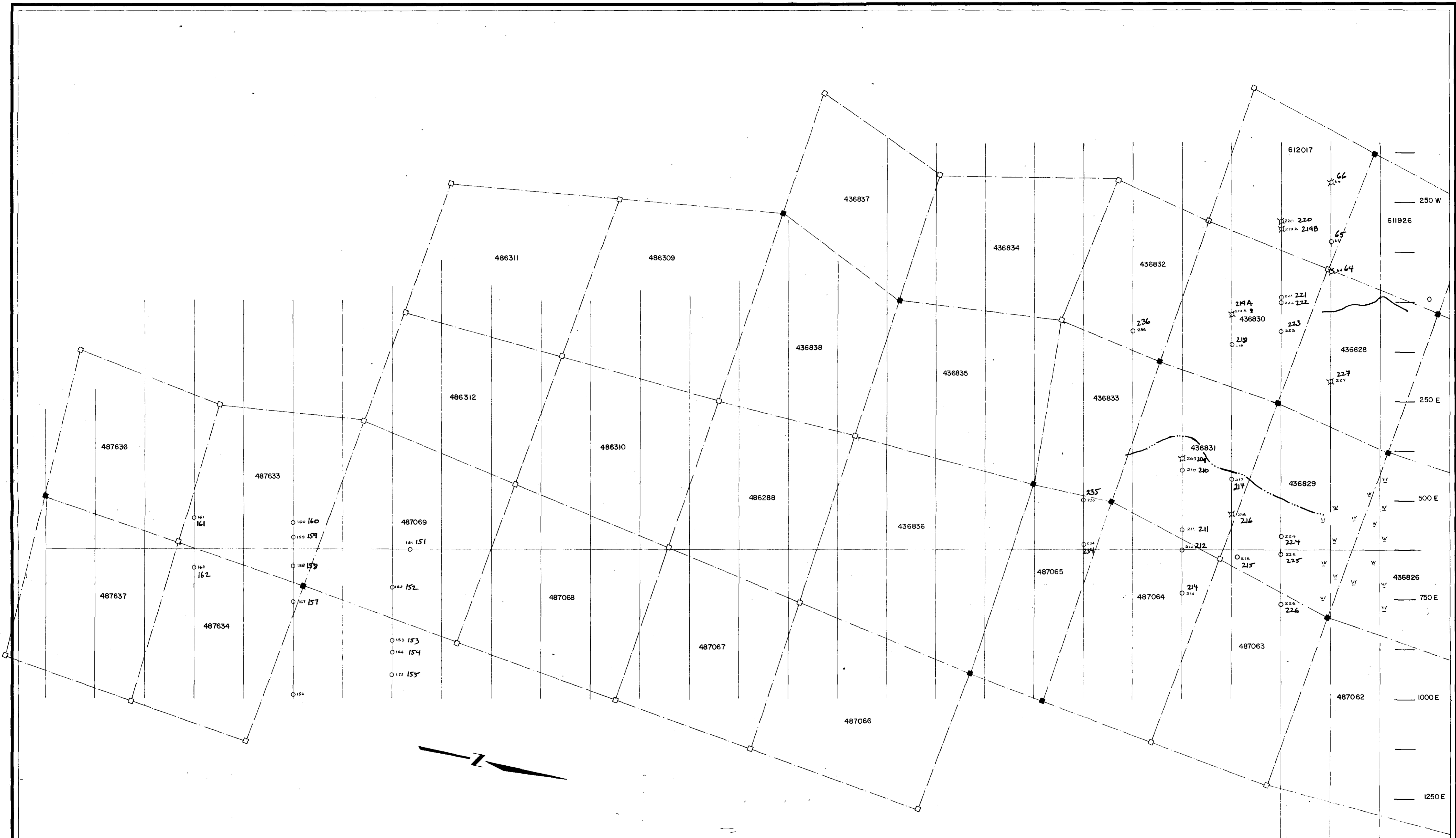


FIG.14

4750S 4500S 4250S 4000S 3750S 3500S 3250S 3000S 2750S 2500S 2250S 2000S 1750S 1500S

UMEX INC. SATURATION INDEX	J.J. LEFEBVRE, PH.D. Research Geologist	◆ Located Claim Post.
		⊕ Assumed location of C.P.
● F.A. < -10		SCALE: 1" = 125m
⊗ < -3.3		BECK AREA
○ > -3.3		GRID BI
		DWG. N° 5.

525/02NE-0051, #15

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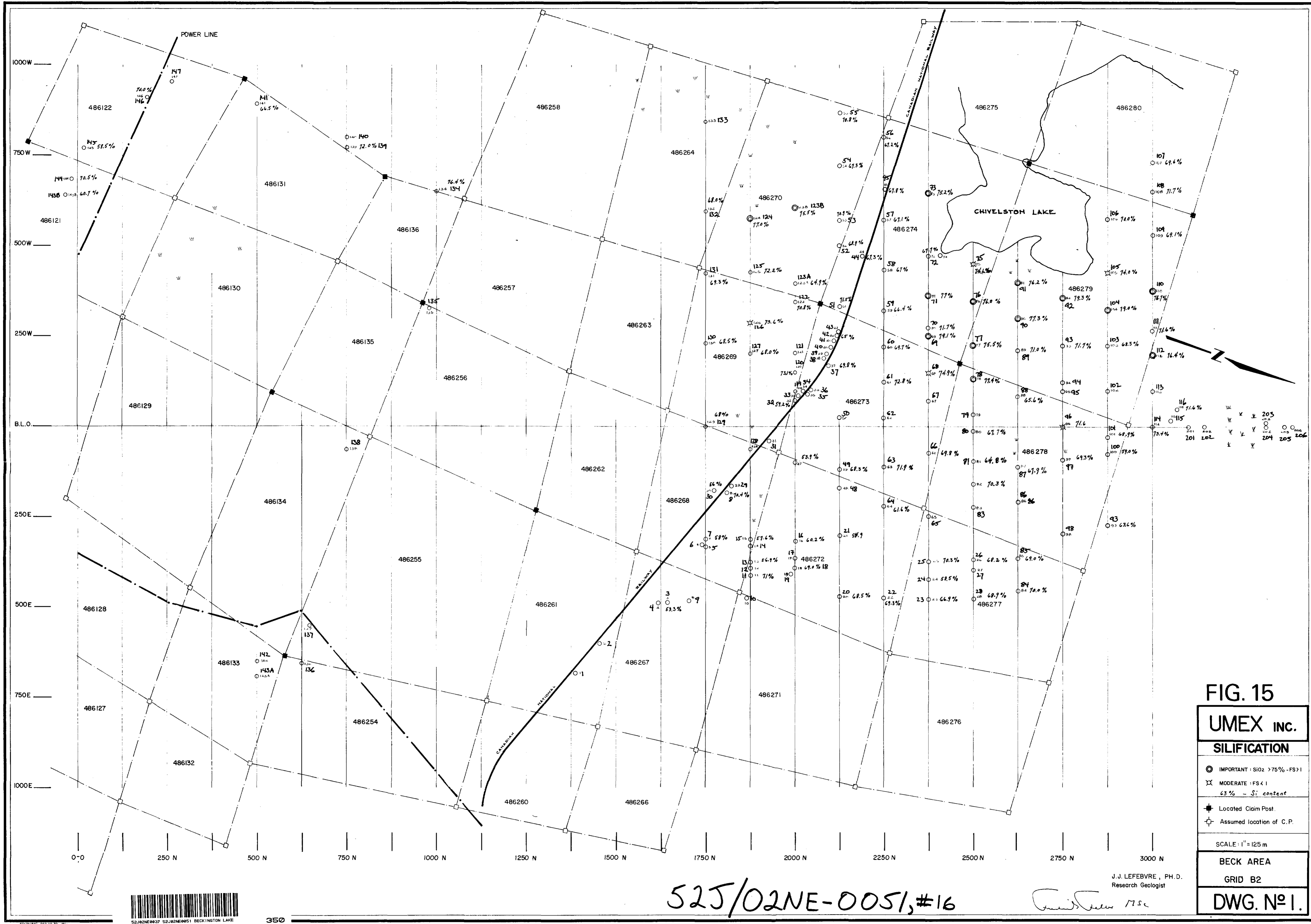


FIG. 15
UMEX INC.
SILIFICATION

● IMPORTANT : SiO₂ > 75% - FS > 1
 ✕ MODERATE : FS < 1
 63% - Si content
 * Located Claim Post.
 + Assumed location of C.P.

SCALE: 1" = 125 m

BECK AREA
 GRID B2
 DWG. No 1.

525/02NE-0051, #16

J.J. LEFEBVRE, PH.D.
 Research Geologist

Handwritten signature

2.556 V clay



1500 W
1250 W
1000 W
750 W
500 W
250 W
B.L.O.
250 E
500 E
625 E B.L.
750 E
1000 E
1250 E
1500 E

1250 S 1000 S 750 S 500 S 250 S 0 0 250 N 500 N

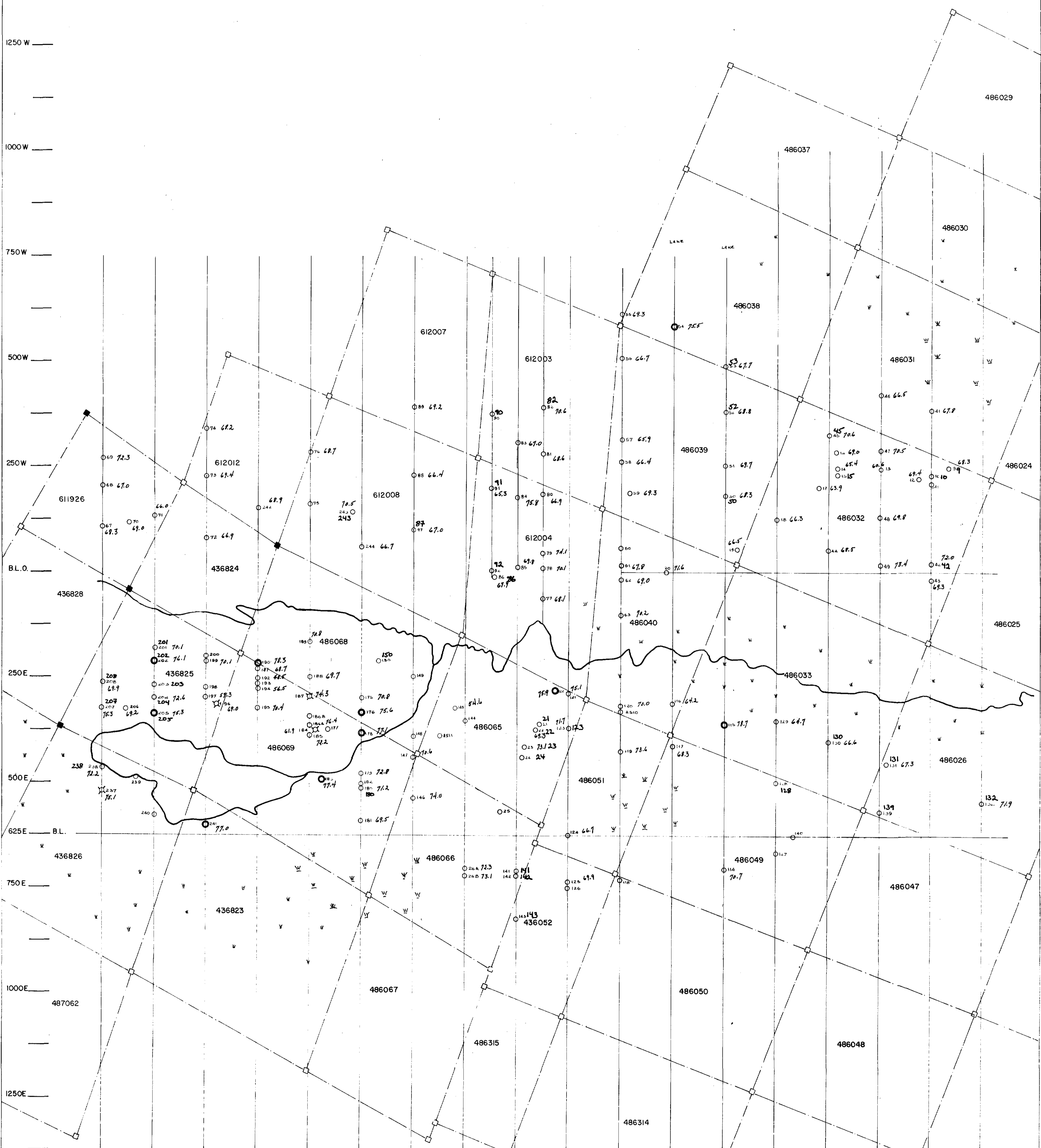


FIG. 16

* Located Claim Post.
 □ Assumed location of C.P.

SCALE: 1" = 125m

BECK AREA
GRID B I

DWG. N° 4.

UMEX INC.
SILIFICATION

(49.0) % - SiO₂
 ○ IMPORTANT: SiO₂ > 75% - FS > 1
 ✕ MODERATE: FS < 1

J.J. LEFEBVRE, PH.D.
Research Geologist



360

525/02NE-0051, #17

Handwritten signature

D. S. S. Y. 1980

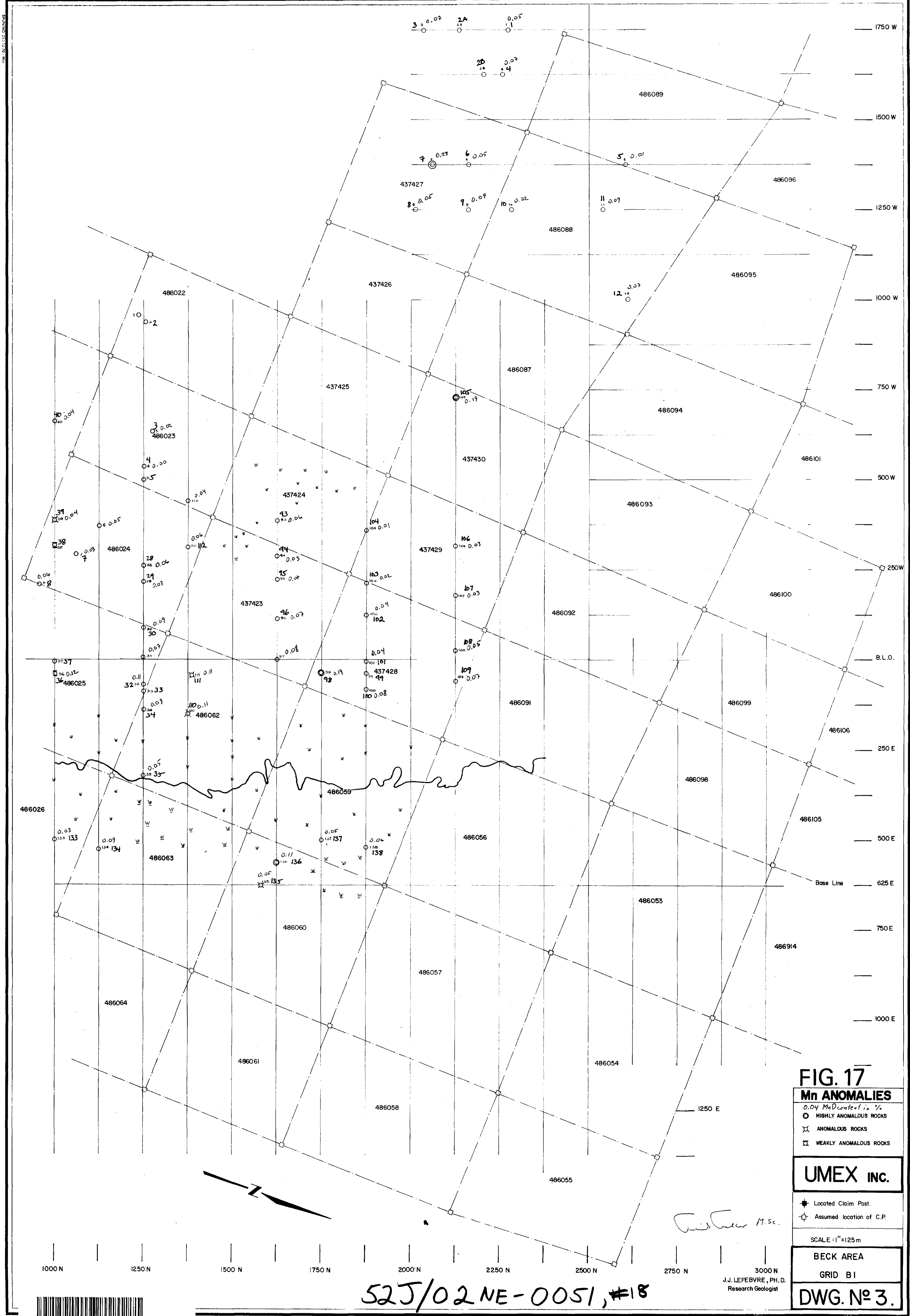


FIG. 17
Mn ANOMALIES
 0.04 Mn content in %
 ○ HIGHLY ANOMALOUS ROCKS
 ⊗ ANOMALOUS ROCKS
 □ WEAKLY ANOMALOUS ROCKS

UMEX INC.

◆ Located Claim Post.
 ⊕ Assumed location of C.P.

SCALE: 1"=125 m

BECK AREA
GRID B1

DWG. Nº 3.

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 Research Geologist



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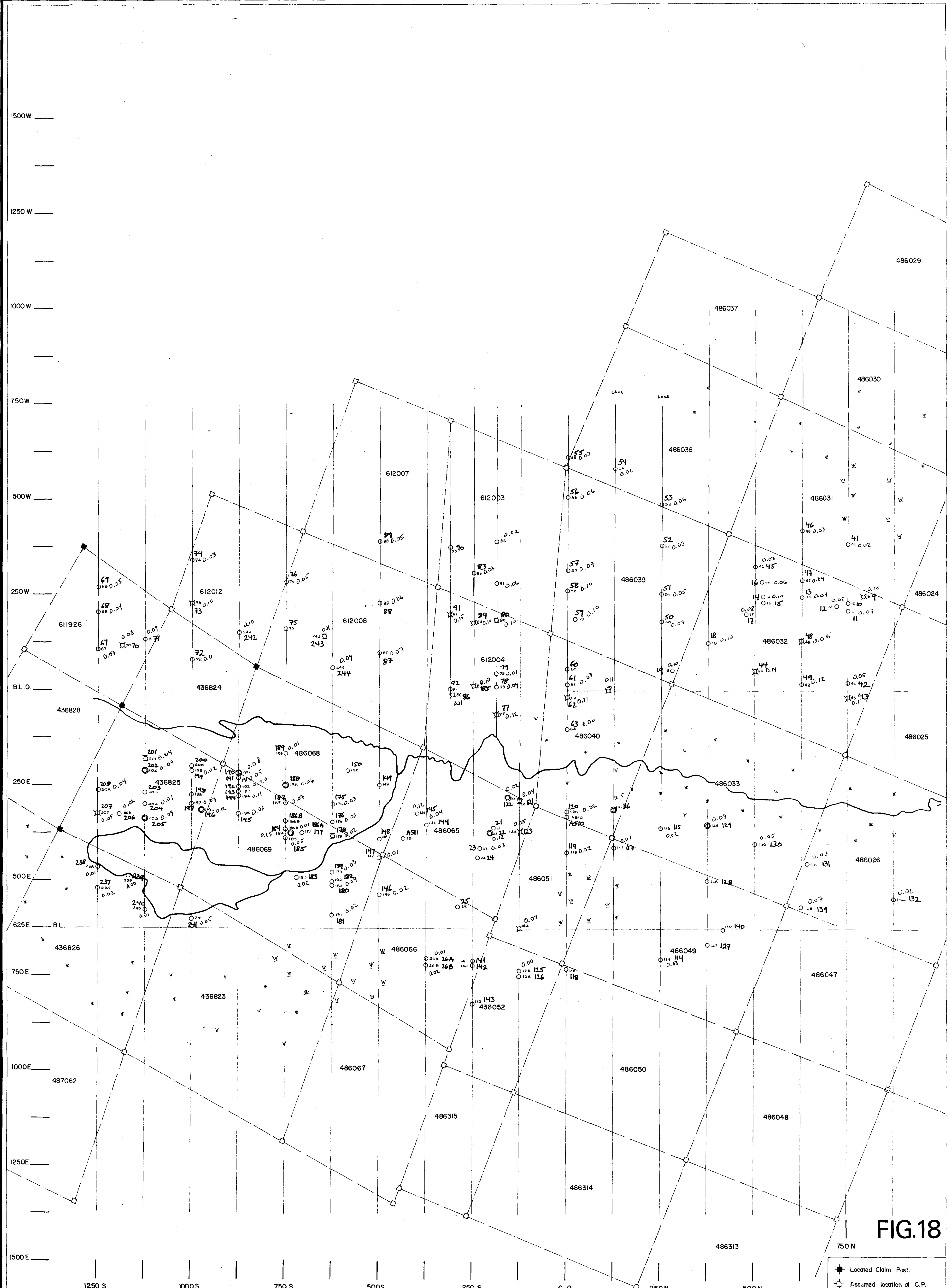


FIG.18

* Located Claim Post.
 □ Assumed location of C.P.

SCALE: 1" = 125m

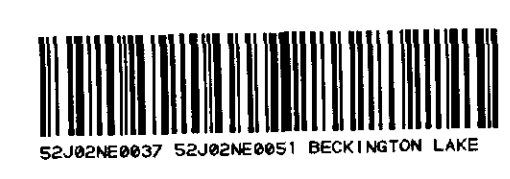
BECK AREA
GRID B1

DWG. N° 4.

Mn ANOMALIES
 0.03 Mn content in %
 ○ HIGHLY ANOMALOUS ROCKS
 ✕ ANOMALOUS ROCKS
 □ WEAKLY ANOMALOUS ROCKS

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Research Geologist

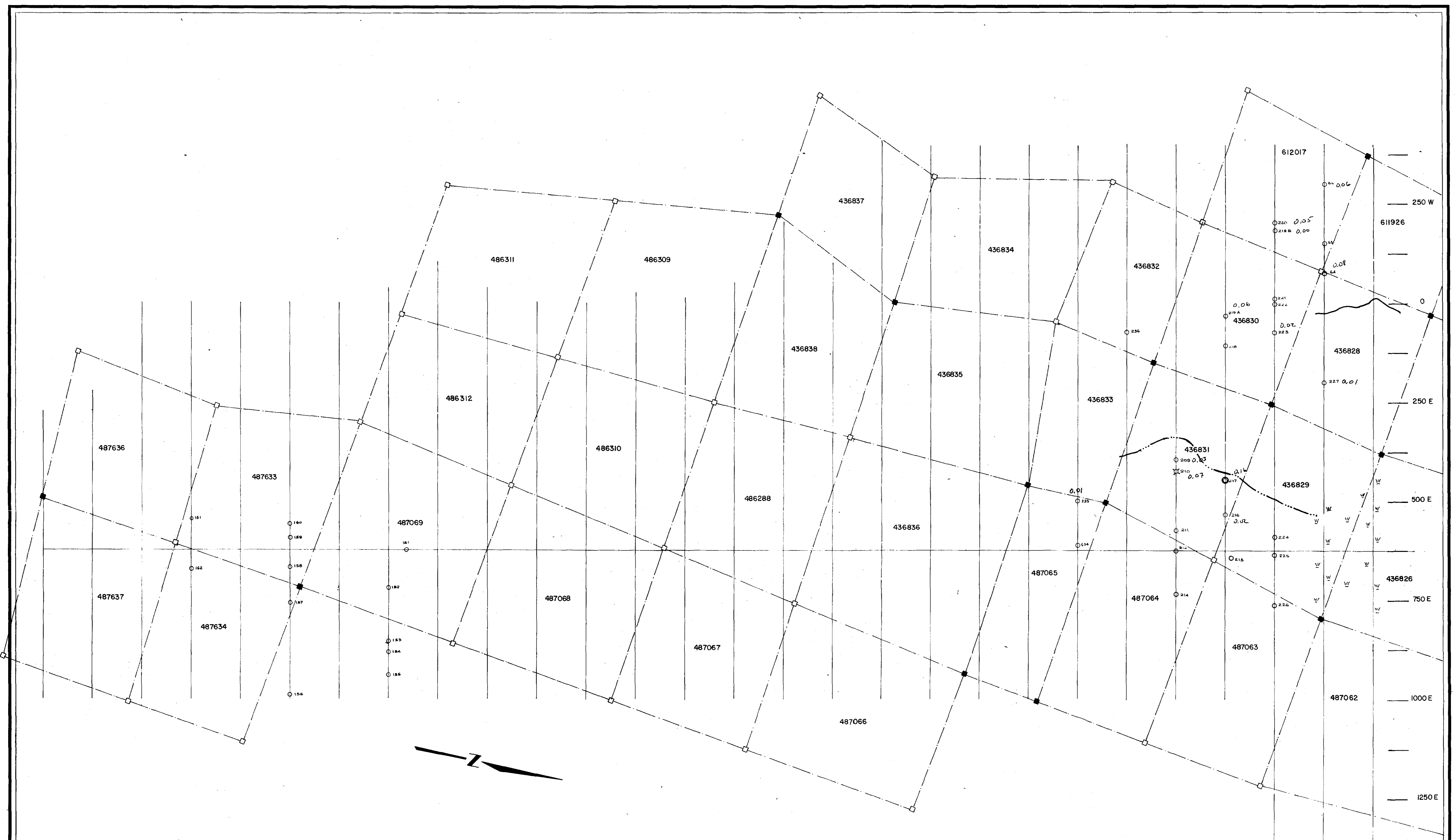
UMEX INC.



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52J/02NE-0051, #19

P.556 Y relup



4750S 4500S 4250S 4000S 3750S 3500S 3250S 3000S 2750S 2500S 2250S 2000S 1750S 1500S

250 W 250 E 500 E 750 E 1000 E 1250 E

FIG. 19

* Located Claim Post.
 □ Assumed location of C.P.

SCALE: 1" = 125m

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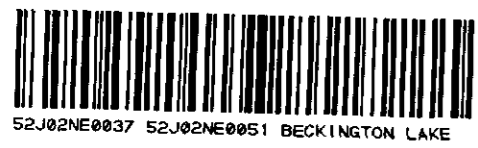
Mn ANOMALIES
 0.03 MnO content in %
 ● HIGHLY ANOMALOUS ROCKS
 □ ANOMALOUS ROCKS
 □ WEAKLY ANOMALOUS ROCKS

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BECK AREA
 GRID B1
 DWG. N° 5.

UMEX INC.

525/02NE-0051, #20



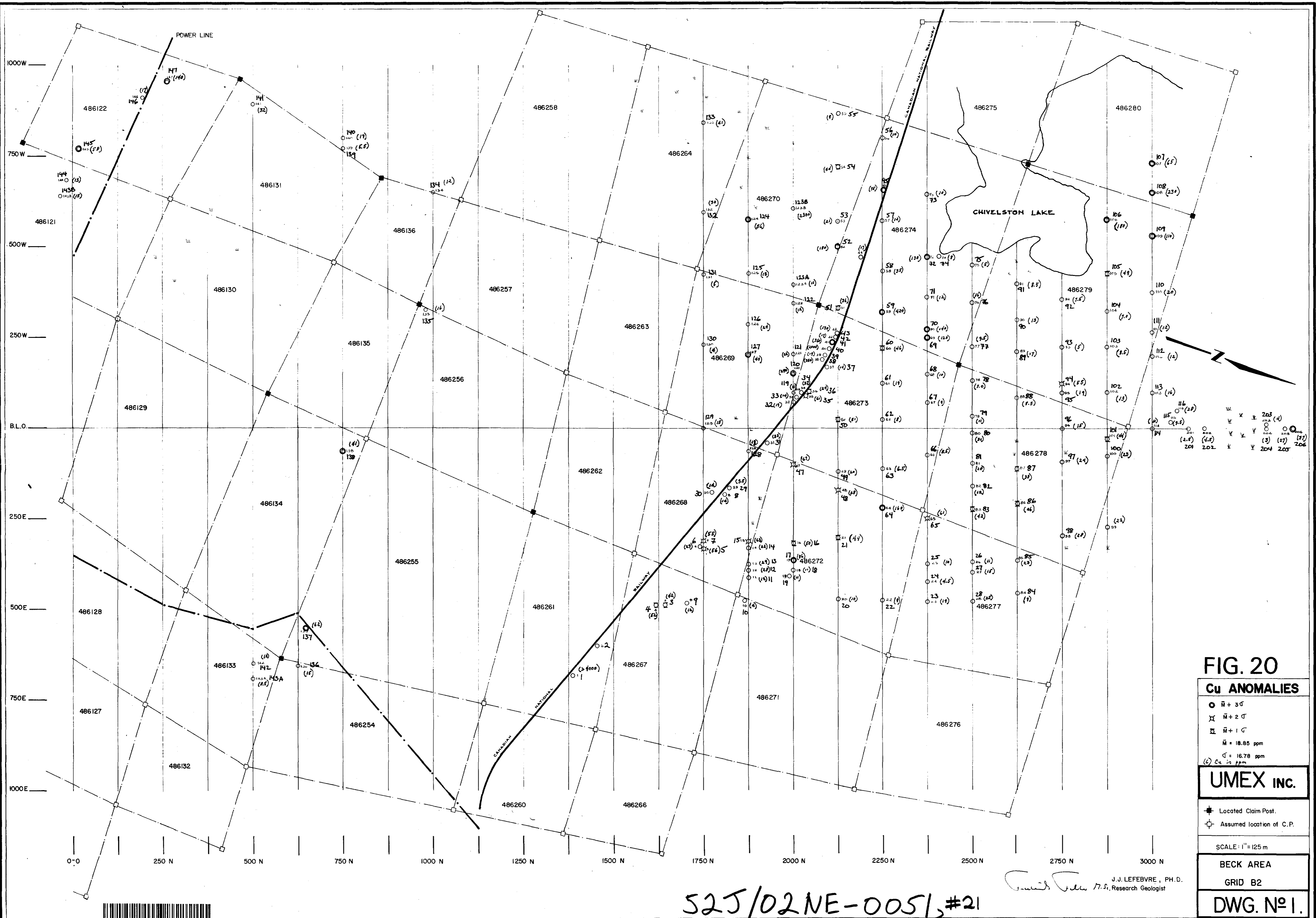


FIG. 20

Cu ANOMALIES

- $\bar{M} + 3\sigma$
- × $\bar{M} + 2\sigma$
- $\bar{M} + 1\sigma$
- $\bar{M} = 18.85$ ppm
- $\sigma = 16.78$ ppm
- (C) Cu in ppm

UMEX INC.

- ★ Located Claim Post.
- ⊕ Assumed location of C.P.

SCALE: 1" = 125 m

BECK AREA

GRID B2

DWG. N° 1.

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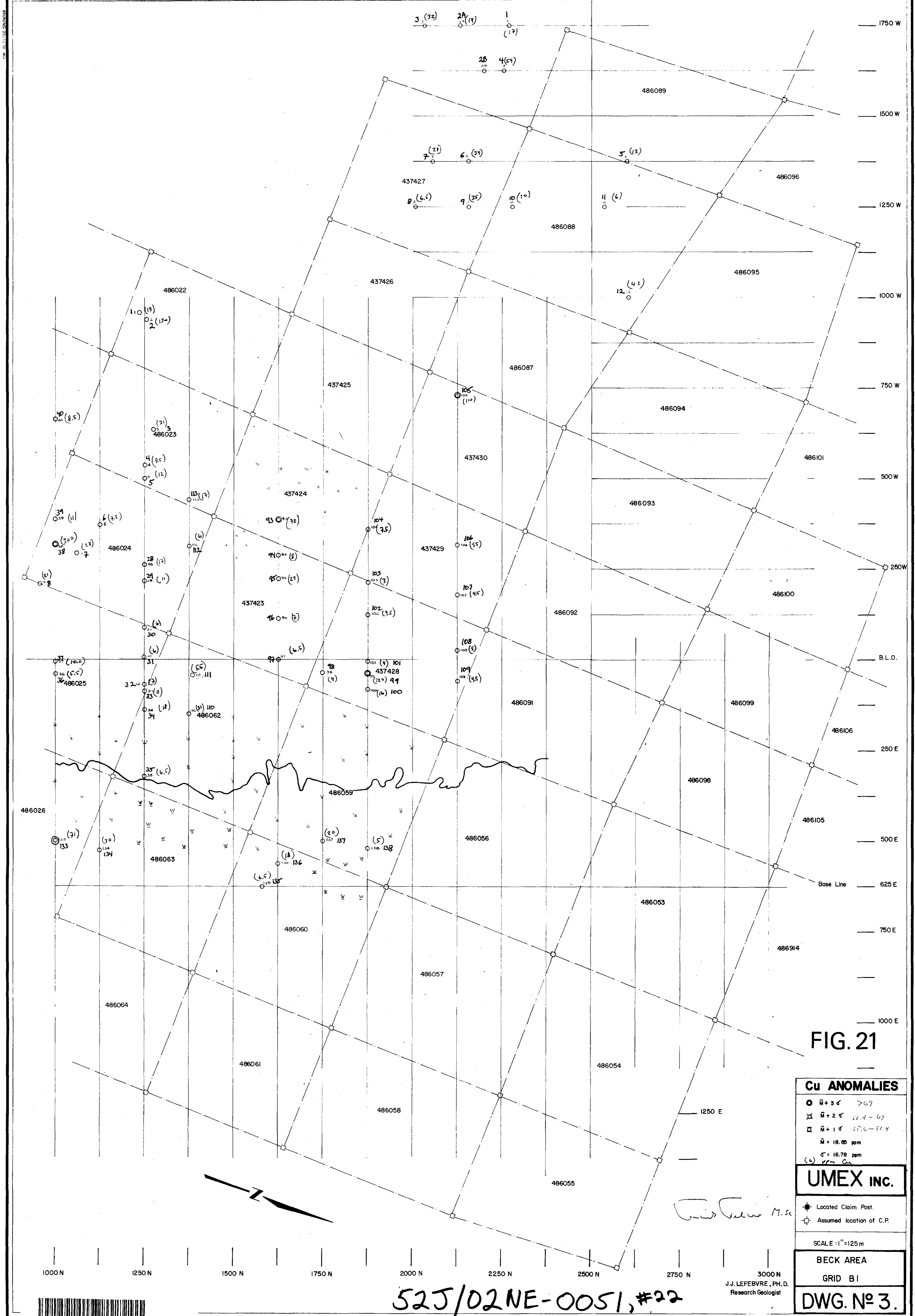


FIG. 21

Cu ANOMALIES
 ○ $\bar{m} + 3\sigma$ > 69
 X $\bar{m} + 2\sigma$ 52.4 - 69
 □ $\bar{m} + 1\sigma$ 37.6 - 52.4
 $\bar{m} = 18.85$ ppm
 $\sigma = 16.78$ ppm
 (6) ppm Cu

UMEX INC.

★ Located Claim Post.
 ⊕ Assumed location of C.P.

SCALE: 1" = 125m

BECK AREA
 GRID B1

DWG. No 3.

W. J. Lefebvre M.Sc.

525/02NE-0051, #22

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2-556-4-100

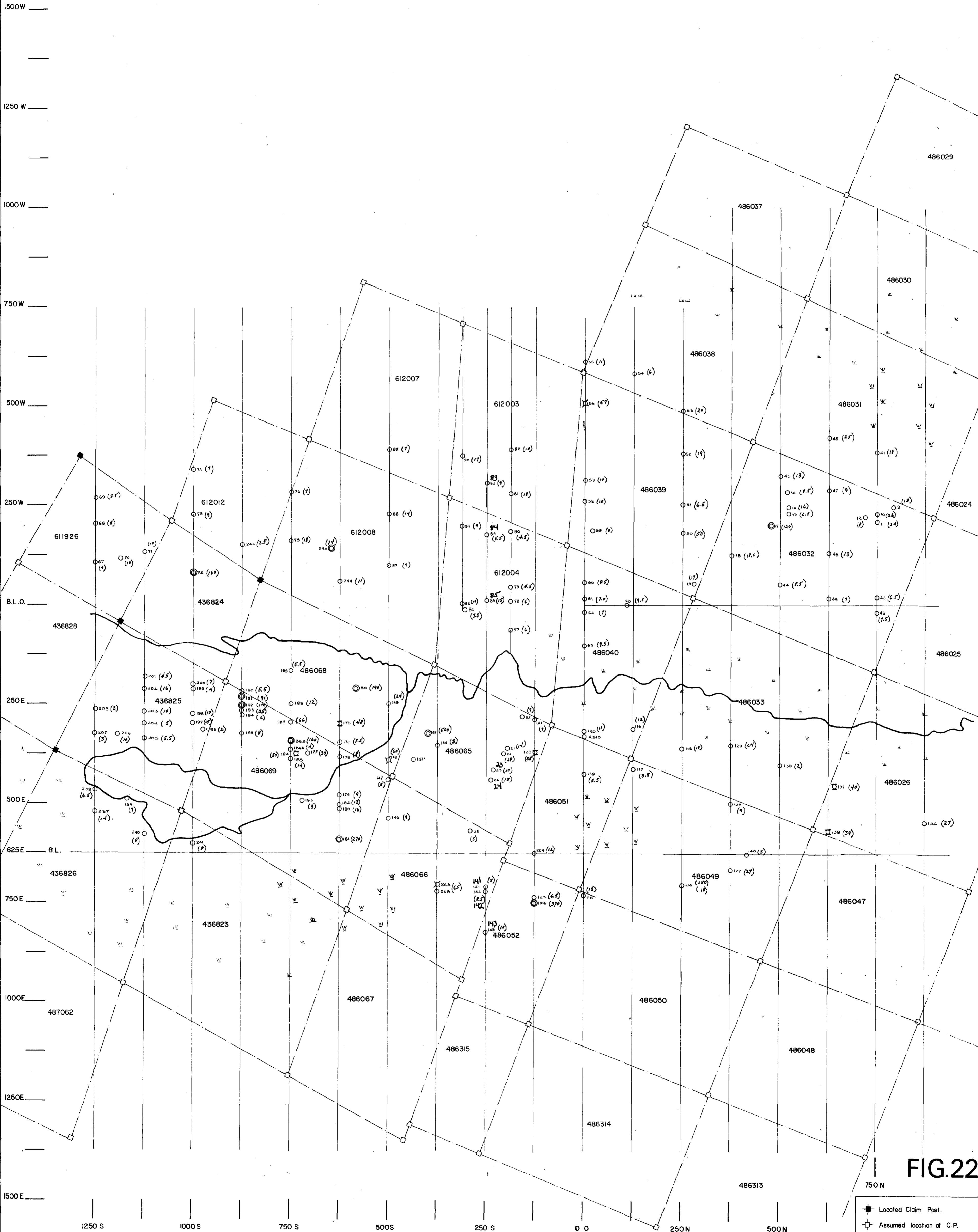
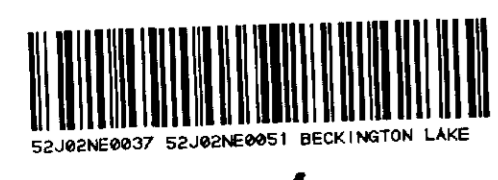


FIG.22



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52J/02NE-0051, #23

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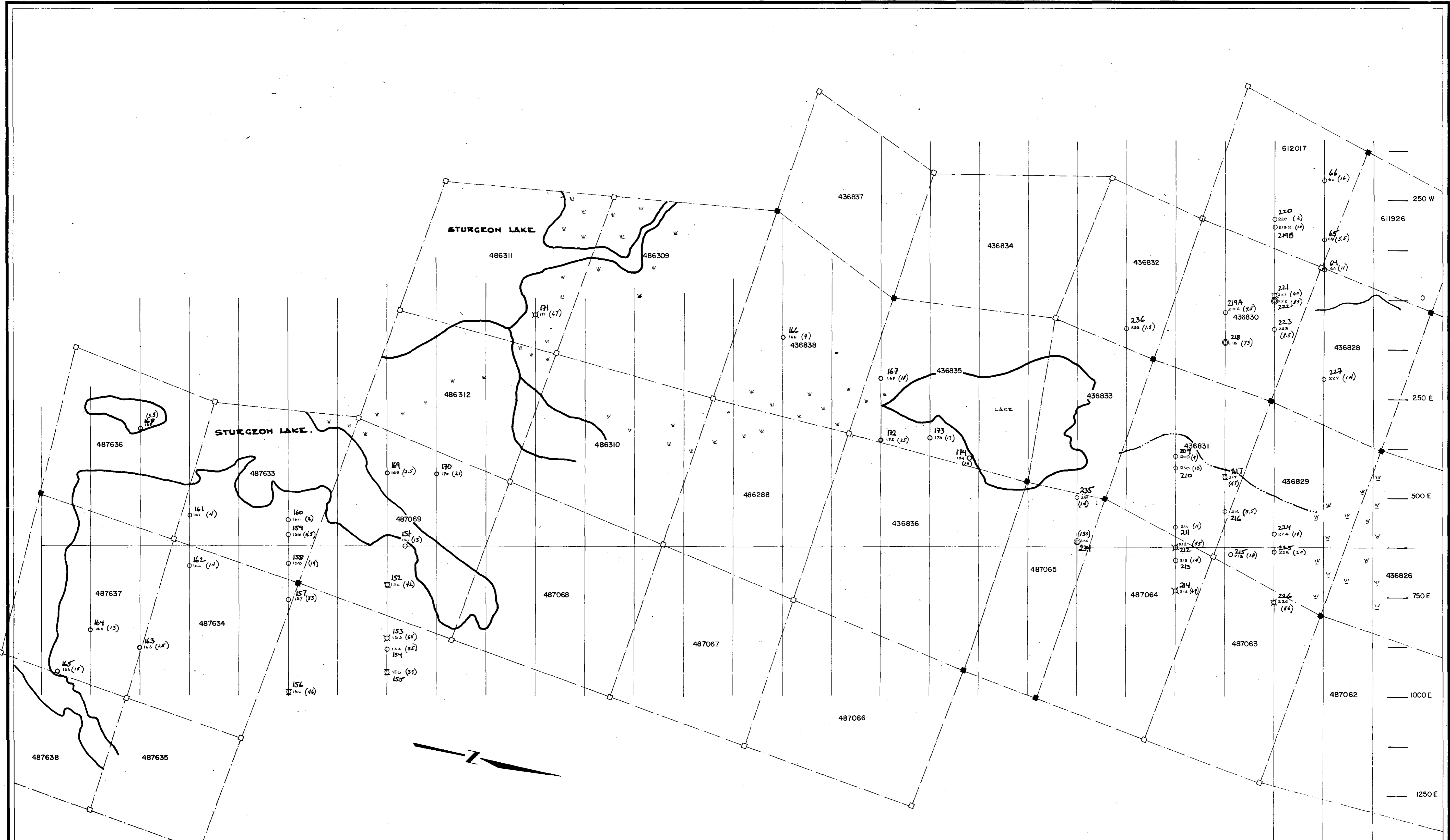
UMEX INC.

Cu ANOMALIES	
●	≥ + 3 σ (1) ppm Cu
⊠	≥ + 2 σ
□	≥ + 1 σ
	μ = 18.85 ppm
	σ = 16.78 ppm

J.J. LEFEBVRE, PH.D.
Research Geologist

<ul style="list-style-type: none"> ◆ Located Claim Post. ⊠ Assumed location of C.P.
SCALE: 1" = 125m
BECK AREA
GRID B1
DWG. N° 4.

D.S. 6/4/89



4750S 4500S 4250S 4000S 3750S 3500S 3250S 3000S 2750S 2500S 2250S 2000S 1750S 1500S

FIG. 23

Cu ANOMALIES		<ul style="list-style-type: none"> ⊕ Located Claim Post. ⊕ Assumed location of C.P.
○ $\bar{m} + 3\sigma$ (42) Cu in ppm		
⊗ $\bar{m} + 2\sigma$		SCALE: 1" = 125m
⊠ $\bar{m} + 1\sigma$		J.J. LEFEBVRE, PH.D. Research Geologist
$\bar{m} = 18.85$ ppm		BECK AREA
$\sigma = 16.78$ ppm		GRID BI
		DWG. N° 5.

525/02NE-0051, #24



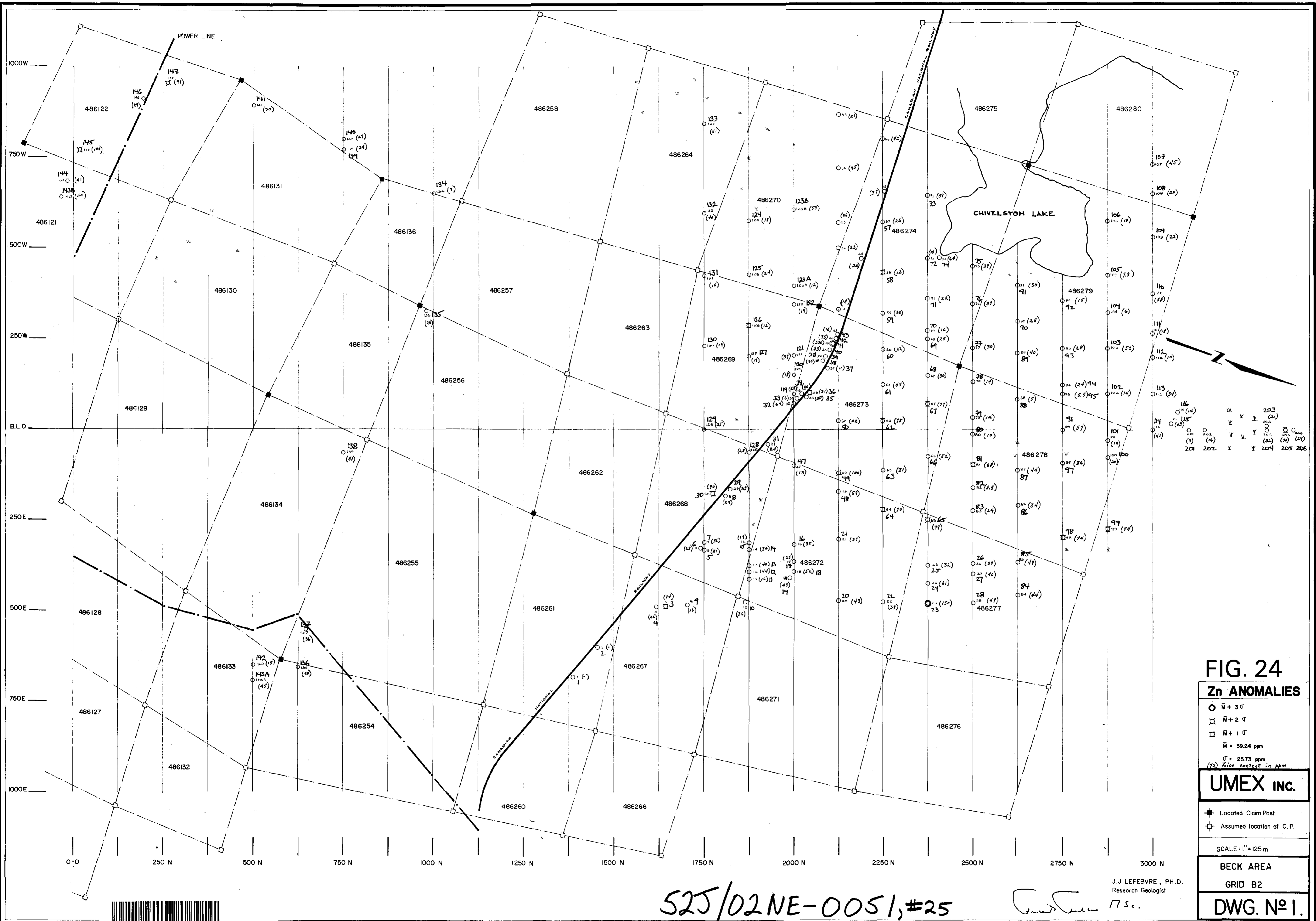


FIG. 24

Zn ANOMALIES

- $\bar{x} + 3\sigma$
- $\bar{x} + 2\sigma$
- $\bar{x} + 1\sigma$
- $\bar{x} = 39.24 \text{ ppm}$
- $\sigma = 25.73 \text{ ppm}$
- (72) Zinc content in ppm

UMEX INC.

- ◆ Located Claim Post.
- Assumed location of C.P.

SCALE: 1" = 125 m

BECK AREA

GRID B2

DWG. N° 1.

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525/02NE-0051, #25

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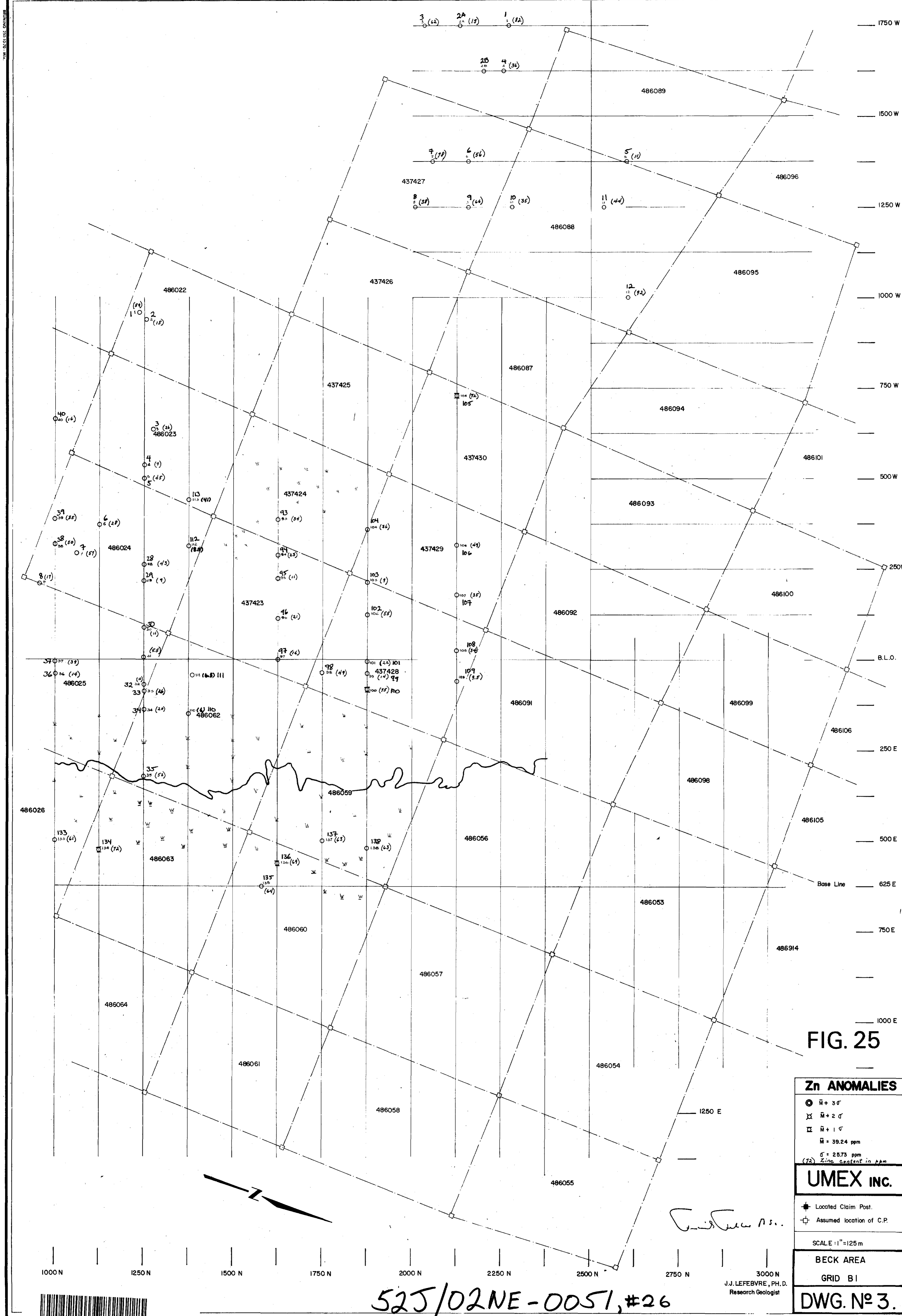


FIG. 25

Zn ANOMALIES
 ● $\bar{M} + 3\sigma$
 ✕ $\bar{M} + 2\sigma$
 □ $\bar{M} + 1\sigma$
 $\bar{M} = 39.24$ ppm
 $\sigma = 26.75$ ppm
 (72) Zinc content in ppm

UMEX INC.
 + Located Claim Post.
 □ Assumed location of C.P.
 SCALE: 1" = 125 m
BECK AREA
 GRID B1
DWG. N° 3.

525/02NE-0051, #26

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 Research Geologist

1000 N 1250 N 1500 N 1750 N 2000 N 2250 N 2500 N 2750 N 3000 N



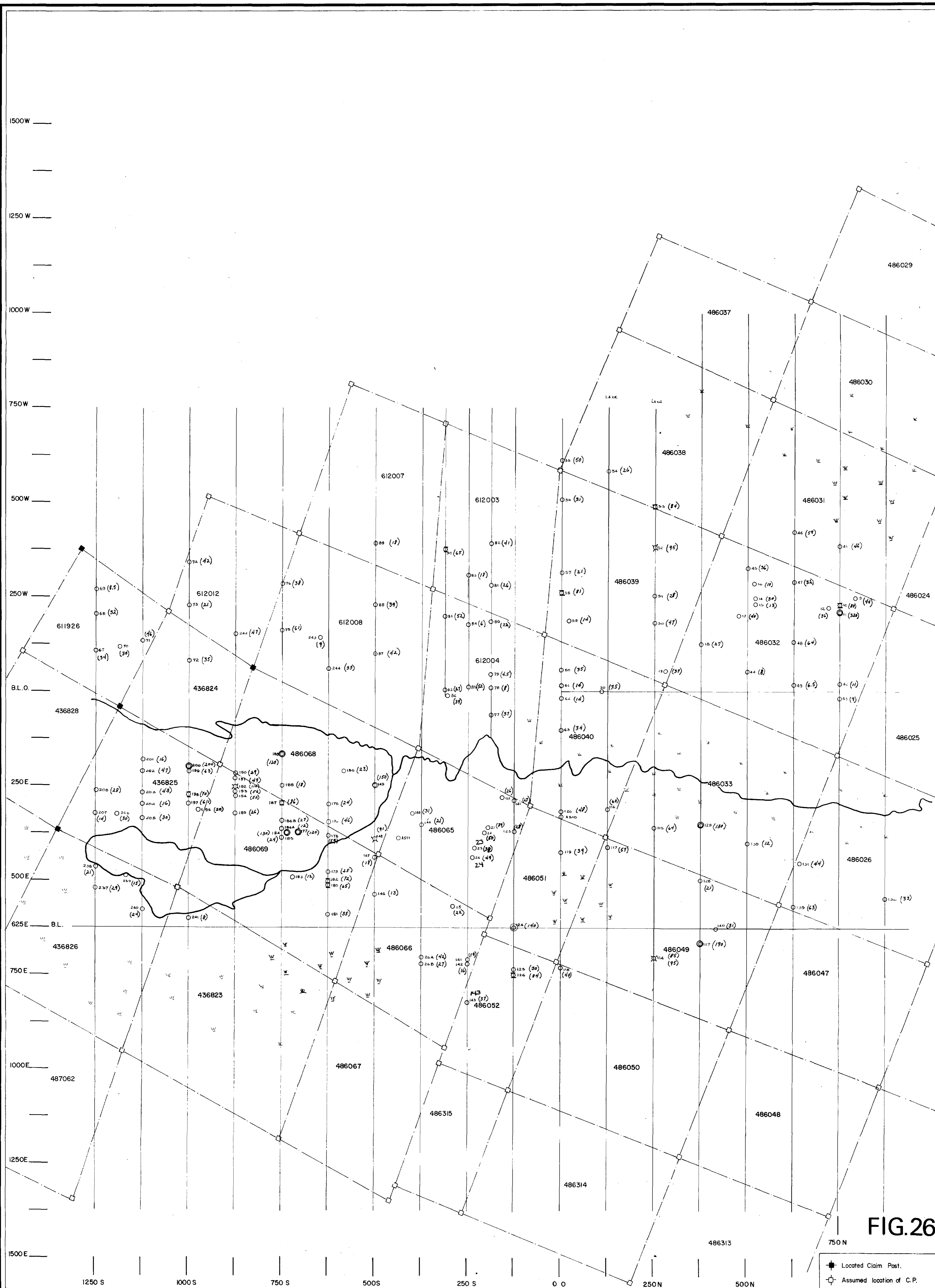


FIG.26

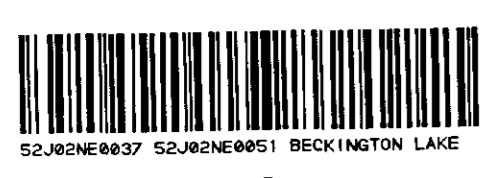
* Located Claim Post.
 □ Assumed location of C.P.

Zn ANOMALIES

- $\bar{M} + 3 \sigma$
- ⊠ $\bar{M} + 2 \sigma$
- ⊞ $\bar{M} + 1 \sigma$
- $\bar{M} = 39.24 \text{ ppm}$
- $\sigma = 25.73 \text{ ppm}$
- (72) Zinc content in ppm

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SCALE: 1" = 125m
 BECK AREA
 GRID B1
 DWG. N° 4.



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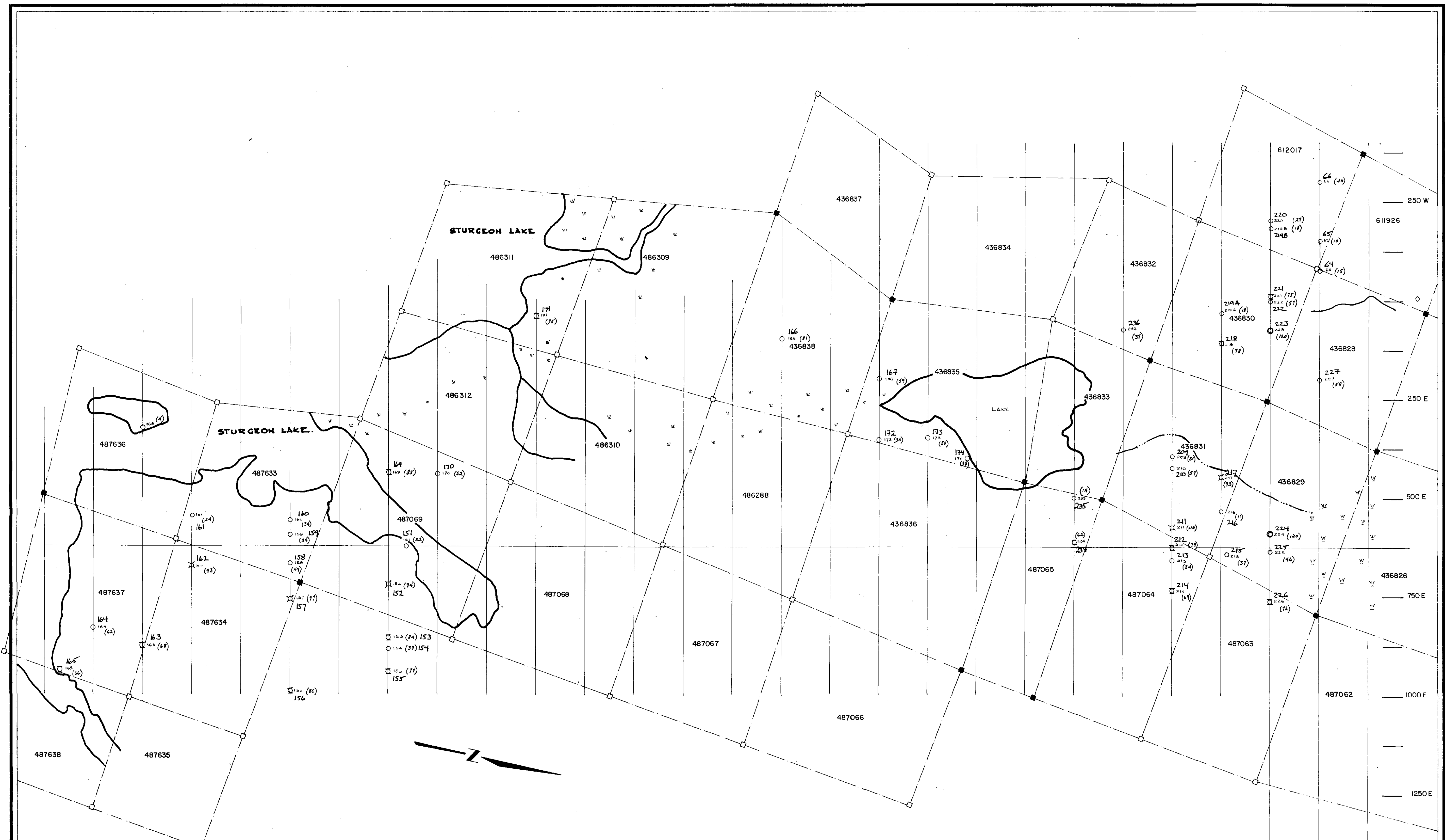


FIG. 27

4750S 4500S 4250S 4000S 3750S 3500S 3250S 3000S 2750S 2500S 2250S 2000S 1750S 1500S

<p>Zn ANOMALIES</p> <p>● $\bar{m} + 3\sigma$</p> <p>⊠ $\bar{m} + 2\sigma$</p> <p>□ $\bar{m} + 1\sigma$</p> <p>$\bar{m} = 39.24$ ppm</p> <p>$\sigma = 25.73$ ppm</p> <p>(78) Zinc content in ppm</p>		<p>★ Located Claim Post.</p> <p>⊠ Assumed location of C.P.</p> <p>SCALE: 1" = 125m</p> <p>J.J. LEFEBVRE, PH.D. Research Geologist</p>
<p>UMEX INC.</p>		<p>BECK AREA</p> <p>GRID BI</p> <p>DWG. N° 5.</p>

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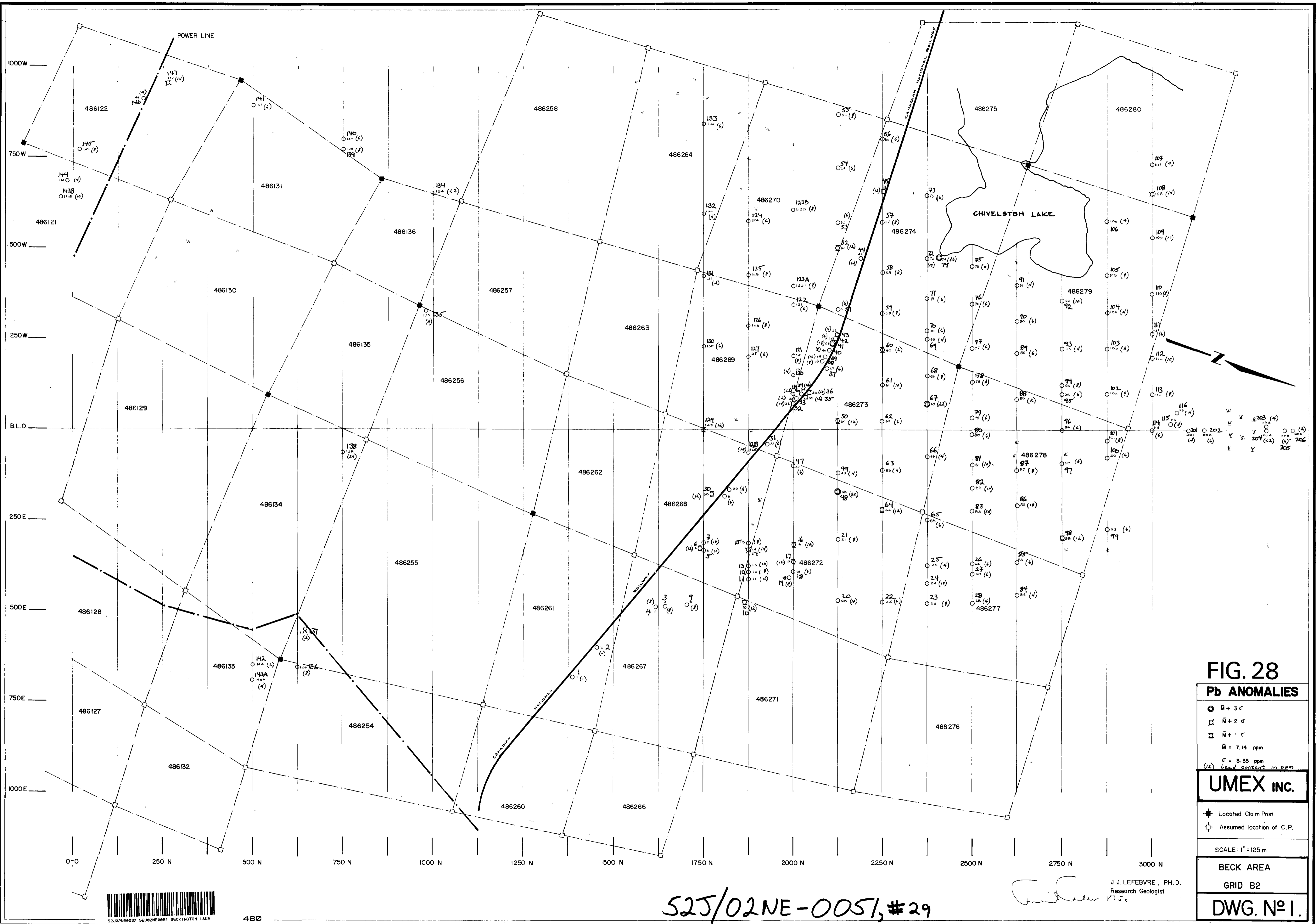


FIG. 28

Pb ANOMALIES

- $\bar{x} + 3\sigma$
- ⊗ $\bar{x} + 2\sigma$
- $\bar{x} + 1\sigma$
- $\bar{x} = 7.14$ ppm
- $\sigma = 3.35$ ppm
- (12) Lead content in ppm

UMEX INC.

- ⊕ Located Claim Post.
- ⊕ Assumed location of C.P.

SCALE: 1" = 125 m

BECK AREA
GRID B2

DWG. N° 1.

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Research Geologist

J. J. Lefebvre

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525/02NE-0051 BECKINGTON LAKE

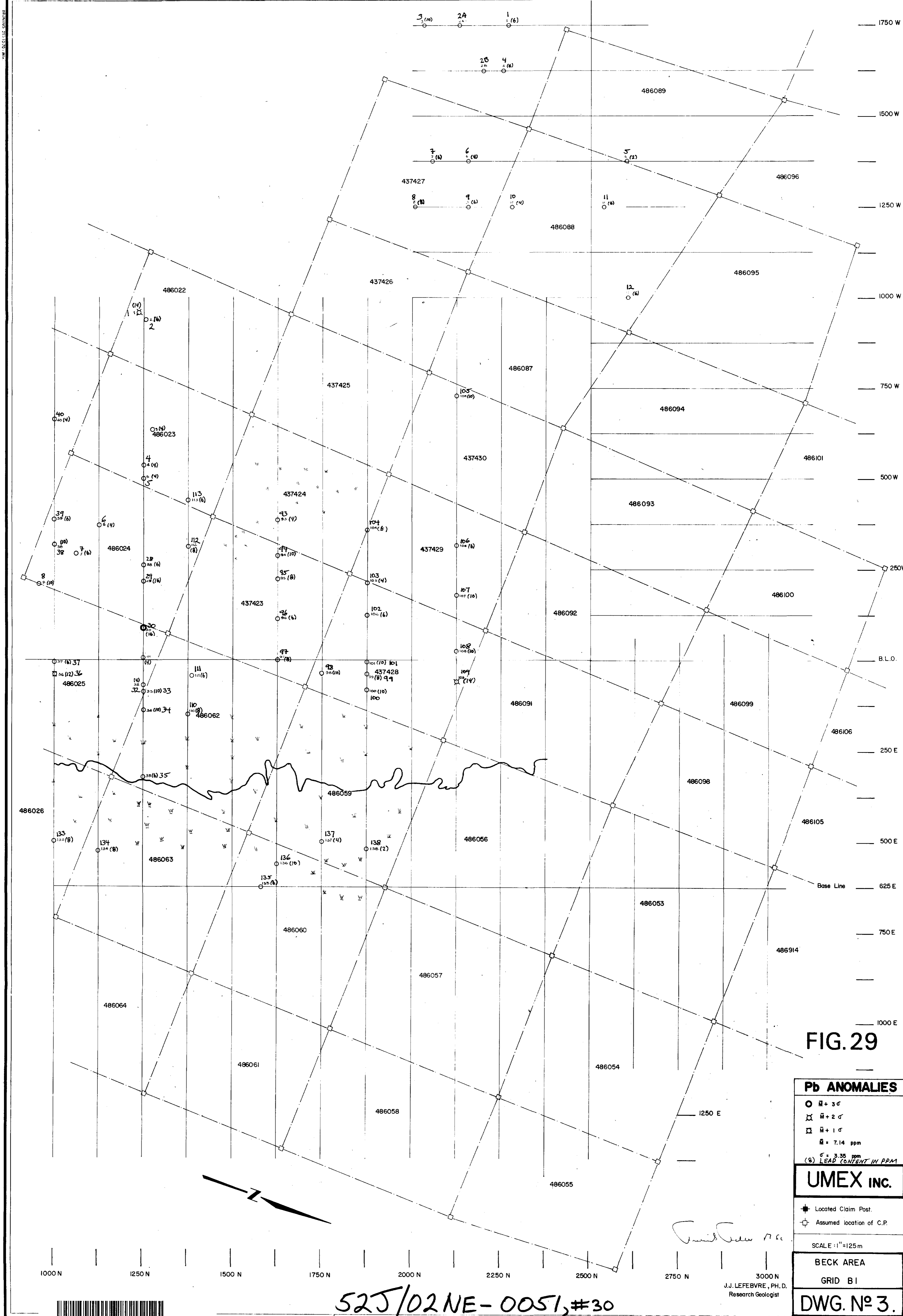


FIG. 29

Pb ANOMALIES

- $\bar{x} + 3\sigma$
- ⊗ $\bar{x} + 2\sigma$
- $\bar{x} + 1\sigma$
- $\bar{x} = 7.14$ ppm
- $\sigma = 3.35$ ppm
- (6) LEAD CONTENT IN PPM

UMEX INC.

- ⊕ Located Claim Post.
- ⊗ Assumed location of C.P.

SCALE: 1" = 125m

BECK AREA
GRID B I

DWG. N° 3.

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525/02NE-0051, #30



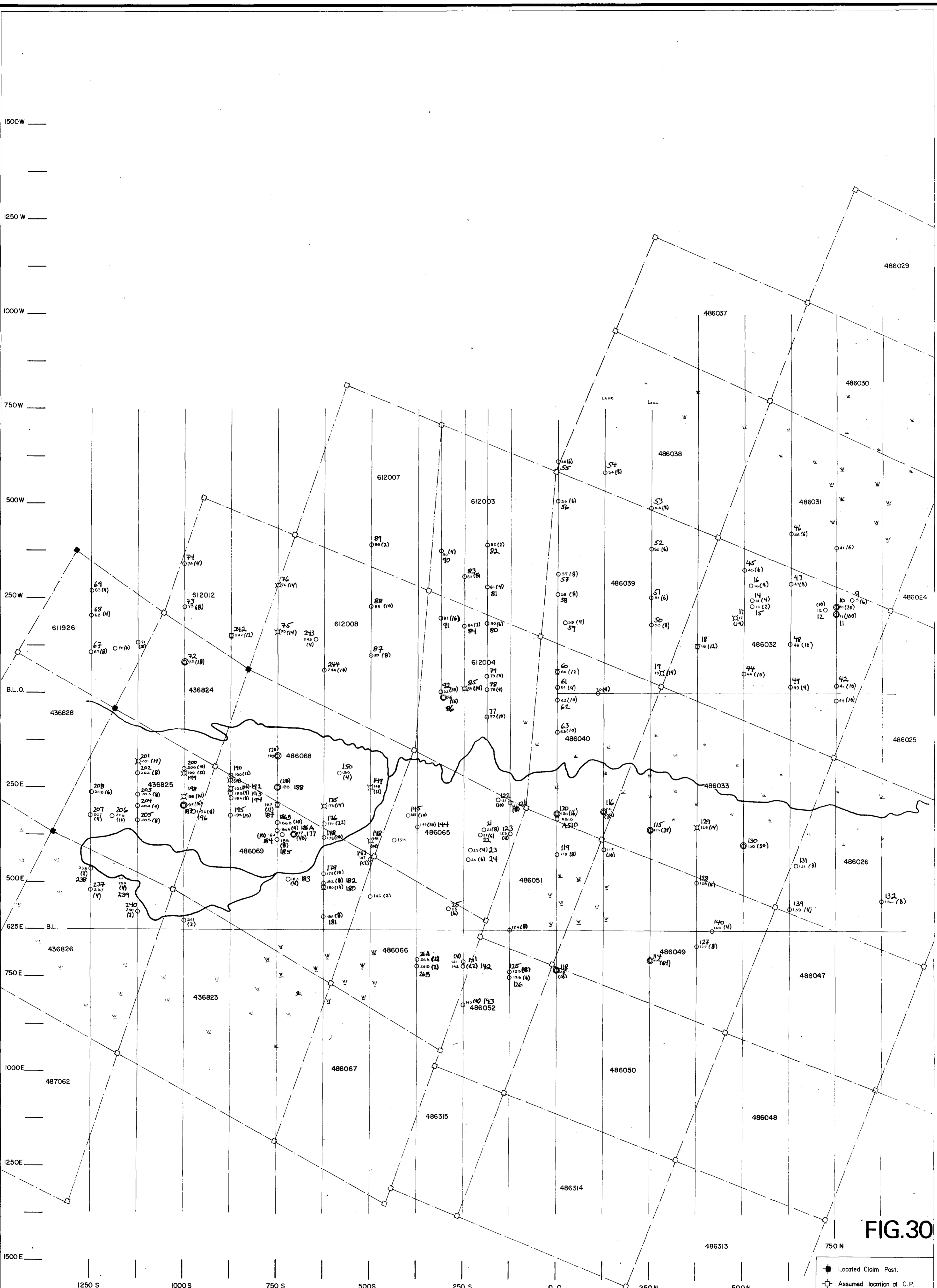


FIG.30

* Located Claim Post.
 □ Assumed location of C.P.

Pb ANOMALIES

○	$\bar{m} + 3\sigma$
×	$\bar{m} + 2\sigma$
□	$\bar{m} + 1\sigma$
$\bar{m} = 7.14$ ppm	
$\sigma = 3.38$ ppm	
(4) LEAD CONTENT IN PPM	

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Research Geologist

SCALE: 1" = 125m
 BECK AREA
 GRID B1
 DWG. N° 4.

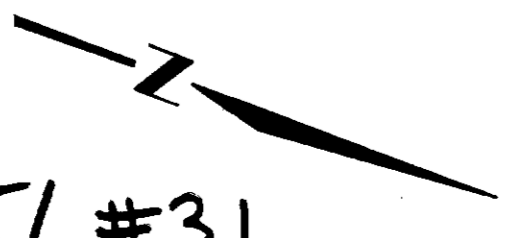
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UMEX INC.

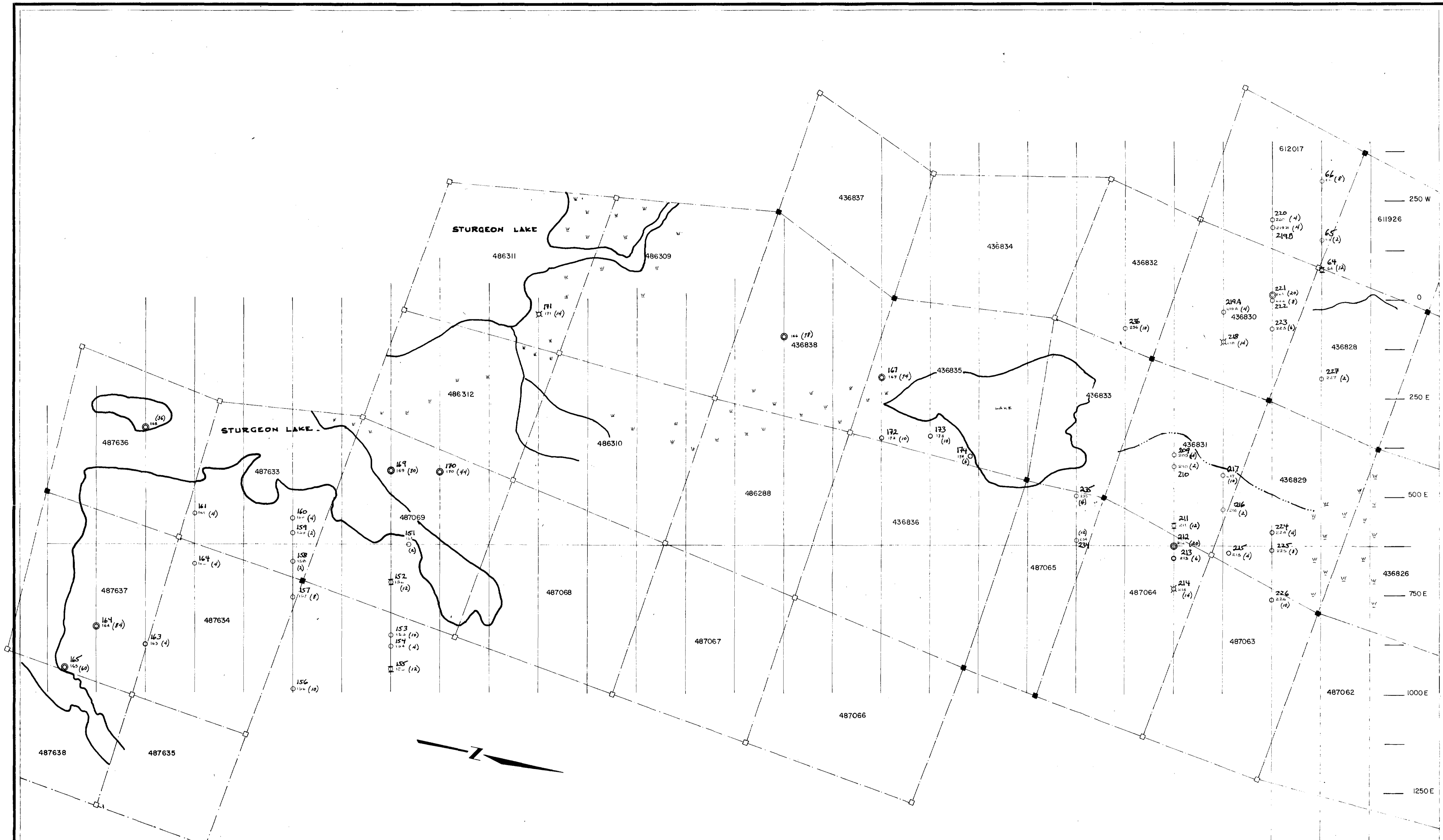


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500

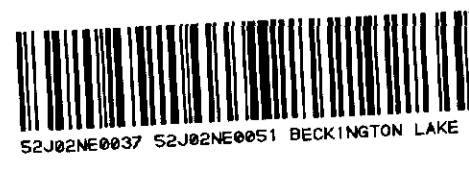


BECKINGTON LAKE



4750S 4500S 4250S 4000S 3750S 3500S 3250S 3000S 2750S 2500S 2250S 2000S 612017 611926 250 W 611926 250 E 500 E 750 E 1000 E 1250 E

FIG. 31



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John M. Sc.

Pb ANOMALIES ● $\bar{m} + 3\sigma$ ○ $\bar{m} + 2\sigma$ ◻ $\bar{m} + 1\sigma$ $\bar{m} = 7.14 \text{ ppm}$ $\sigma = 3.35 \text{ ppm}$ (2) Lead content in ppm		* Located Claim Post. □ Assumed location of C.P. SCALE: 1" = 125m BECK AREA GRID B1 DWG. N^o 5.
J.J. LEFEBVRE, PH.D. Research Geologist		UMEX INC.