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Battle Mountain (Canada) Inc.

KIRKLAND LAKE PROJECT

**REPORT ON 1992 DIAMOND DRILLING PROGRAMMES
PHASE I - JANUARY TO MARCH
PHASE II - JUNE TO AUGUST**

**"102/103/104" GOLD ZONES
AMALGAMATED KIRKLAND PROPERTY
TECK TOWNSHIP, LARDER LAKE MINING DIVISION
ONTARIO, CANADA**

**Toronto, Ontario
November, 1992**

**W. Benham
T. J. Bottrill**

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VOLUME I

TEXT & APPENDICES

**Kirkland Lake, Ontario
October, 1992**

**W. Benham
T. J. Bottrill**



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1.0 SUMMARY

During 1992, Battle Mountain (Canada) Inc. completed two diamond drilling programmes on the Amalgamated Kirkland Property located in Teck Township, Ontario. Phase I, which consisted of four holes for a total of 2,325.25 metres, was carried out from January 22nd to March 15th, 1992. Phase II, which consisted of a total of 2,476.1 metres in five holes, was completed during the period June 16th to August 15th, 1992. A combined total of 4,801.35 metres was drilled during 1992 to further test the economic potential of the "102/103" gold zone. This zone was discovered in 1989 during an overburden stripping programme and drill tested at shallow depths in 1990, as well as to vertical depths up to 525 metres in 1991.

The Phase I drilling programme was planned to test the "102/103" structure at the 500-600 metre level in three holes at widely-spaced intervals of 200 to 400 metres along strike. The first hole was abandoned at a shallow depth due to a broken core barrel and, as a result, a total of four holes were drilled (AK92-39, -39A, -40 and -41).

Two of the three completed holes intersected significant gold mineralization. Hole AK92-39A returned 6.74 g/t Au over 25.7 metres, at a vertical depth of 435 metres, including three separate intersections of (1) 69.20 g/t Au over 1.50 metres, (2) 6.75 g/t Au over 4.50 metres, and (3) 5.95 g/t Au over 3.90 metres. Hole AK92-40 intersected 9.47 g/t Au over 0.90 metres at a vertical depth of 585 metres within a wider 14.9 metre interval of sericite + chlorite alteration. Hole AK92-41 intersected the "102/103" structure over a core length of 36.8 metres at a vertical depth of 760 metres, but no anomalous assays were returned.

The 1992 Phase II drill programme was planned to further test the "102/103" gold zone around the higher grade and wider intersections from holes AK91-31, -38 and AK92-39A. Four holes were drilled (AK92-42 to -45), as well as a 55.6 metre extension of hole AK90-25.

Hole AK92-45 intersected significant gold mineralization, as 6.35 g/t Au over 8.50 metres, at a vertical depth of 235 metres, including 23.48 g/t Au over 1.70 metres. In addition, two narrow zones were intersected in the hanging wall of this section, which assayed

5.11 g/t Au over 0.5 metres and 14.55 g/t Au over 0.5 metres respectively. The only other significant gold mineralization from the 1992 Phase II drilling was intersected in hole AK92-42, where a 0.6 metre wide interval within the parallel "104" zone assayed 16.67 g/t Au. Holes AK92-42, -43 and -25 Ext intersected weakly mineralized intervals within the "102" and "103" zones. Hole AK92-44 intersected the target zones deeper than planned, as three weakly altered intervals which are interpreted to be the "102", "103" and "104" zones respectively, but did not return any significant assays.

Drilling to date has shown that the "103" zone has the greatest potential for the development of economic mineralization above 600 metre level over a strike length of 1,500 metres. Within this area thirteen holes have intersected the "103" zone, of which two (or 15%) are well mineralized (AK92-39A, AK92-45), six (or 46%) are significantly mineralized, while the remaining seven are weakly to non-mineralized. The percentage of significant intersections for the Amalgamated Kirkland "103" zone compares very favourably with the historical experience from drilling on the nearby Kirkland Lake Main Break in the Macassa Mine, as well as within other economic, vein-hosted gold deposits in the Canadian shield.

Whilst the diamond drilling completed to date has intersected significant gold mineralization over appreciable widths, considerably closer space drilling would be required to determine if underground exploration of the "102/103/104" gold zones is warranted; such underground exploration would be required in order to establish whether the mineralization is of economic grade and dimensions. Therefore, further surface exploration drilling of the Amalgamated Kirkland property is recommended as the next stage of exploration.

Specifically, it is recommended that the "102/103/104" gold zones be further tested by a staggered 50 metre horizontal by 100 metre vertical drill pattern from section 79+00E to 84+00E between the 150 metre and 600 metre levels. Additional drilling is recommended to test the "102/103/104" zones in the interval from 79+00E to 74+00E, as well as in the interval from 84+00E to 87+00E, at a staggered 100 metre horizontal by 200 metre vertical drill pattern between the 100 metre and 500 metre levels.

2.0 INTRODUCTION

This report describes the results of the two 1992 diamond drilling programmes which were carried out by Battle Mountain (Canada) Inc. ("BMCI") on the Amalgamated Kirkland property located in the Kirkland Lake gold district in northeastern Ontario, Canada. Surface channel sampling in 1989, as well as diamond drilling during 1990 and 1991, had encountered significant gold mineralization within the newly discovered "102/103" structure, over widths up to 8 metres, along a strike length of 1,550 metres and to a vertical depth of 525 metres.

The 1992 Phase I drill programme was planned to further test the "102/103" structure at the 500-600 metre level in three holes (AK92-39 to -41), at widely-spaced intervals of 200 to 400 metres along strike, in an attempt to further demonstrate the overall size potential of the mineralization. A total of 2,325.25 metres was drilled from January 22nd to March 15th, 1992. Three holes were planned. The initial hole, AK 92-39, was abandoned due to a broken core barrel and extreme hole deviation; hole AK92-39A was drilled to test the same target.

The Phase II 1992 drill programme was planned to further test the "102/103" gold zone around the higher grade and wider intersections in holes AK91-31, -38 and AK92-39A. Four holes (AK92-42 to -45), as well as a 55.6 metre extension of hole AK90-25, were drilled from June 16th to August 15th, 1992, for a total of 2,476.1 metres.

The 1992 total of 4,801.35 metres was drilled by Heath & Sherwood Drilling (1986) Inc. of Kirkland Lake and 1,488 core samples were assayed by Swastika Laboratories Ltd. in Swastika. The core was logged by Mark Masson, B.Sc., who was assisted by a technician, B. Madill; the programme was supervised by W. Benham, B. Sc., the BMCI Kirkland Lake Project Geologist. The drill hole collars were surveyed by Northland Technical Services. Downhole directional surveys were completed by M. Masson and B. Madill utilizing single-shot Sperry-Sun equipment. The drill plans and sections accompanying this report were drafted by B. Madill. The logs were typed by C. Anderson, and the final logs processed by MDC Geological Consultants using WordPerfect 5.1. Head office supervision and technical advice was provided by T. J. Bottrill, BMCI Senior Geologist, Canada.

2.1 Location and Access

The property is located in the Larder Lake Mining Division in the southeast quarter of Teck Township, immediately south and southwest of the Town of Kirkland Lake (NTS 42 A/1; UTM 538800 E, 568600, N; Figures 1 & 2).

Access to the northeastern part of the property is provided by Main, Queen and Earl streets in the Town of Kirkland Lake and the Hunton Shaft bush road. Access to the northwest is along various trails leading from Government Road West in Chaput-Hughes, and from the Industrial Plaza on Highway 66. A gravel road, which joins the Highway at a point approximately midway between the GMC City dealership and the Industrial Plaza, was used to provide access for heavy equipment such as diamond drills and backhoes. This private road crosses patented claims held by Mr. Joe Morgan of Swastika, who kindly gave his permission for its use.

Parallel and adjacent right-of-ways for hydro and natural gas lines cross the northern part of the property, leading to the co-generation plant which is located on claim L447912, south of the Town.

2.2 Claims

The Amalgamated Kirkland property consists of twenty-seven claims (Figure 2) optioned by Queenston Mining Inc. (formerly HSK Minerals Ltd.) from Premier Explorations Inc., Michael Leahy, Ron Chrichton and James Forbes. The property is currently held by BMCI as part of an option agreement with Queenston Mining Inc. dated June 15, 1989.

An application for lease, mining rights only, was submitted November 12, 1987. The survey was subsequently approved in early 1992, and a revised application for lease was submitted by Premier Explorations, et al. on November 3rd, 1992. The surface rights are held by the Corporation of the Town of Kirkland Lake.

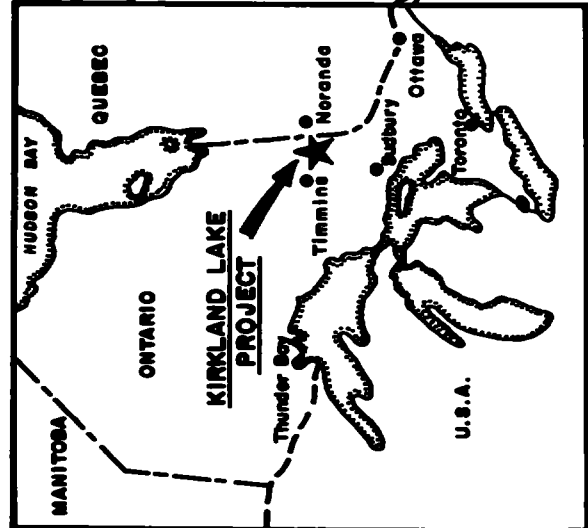
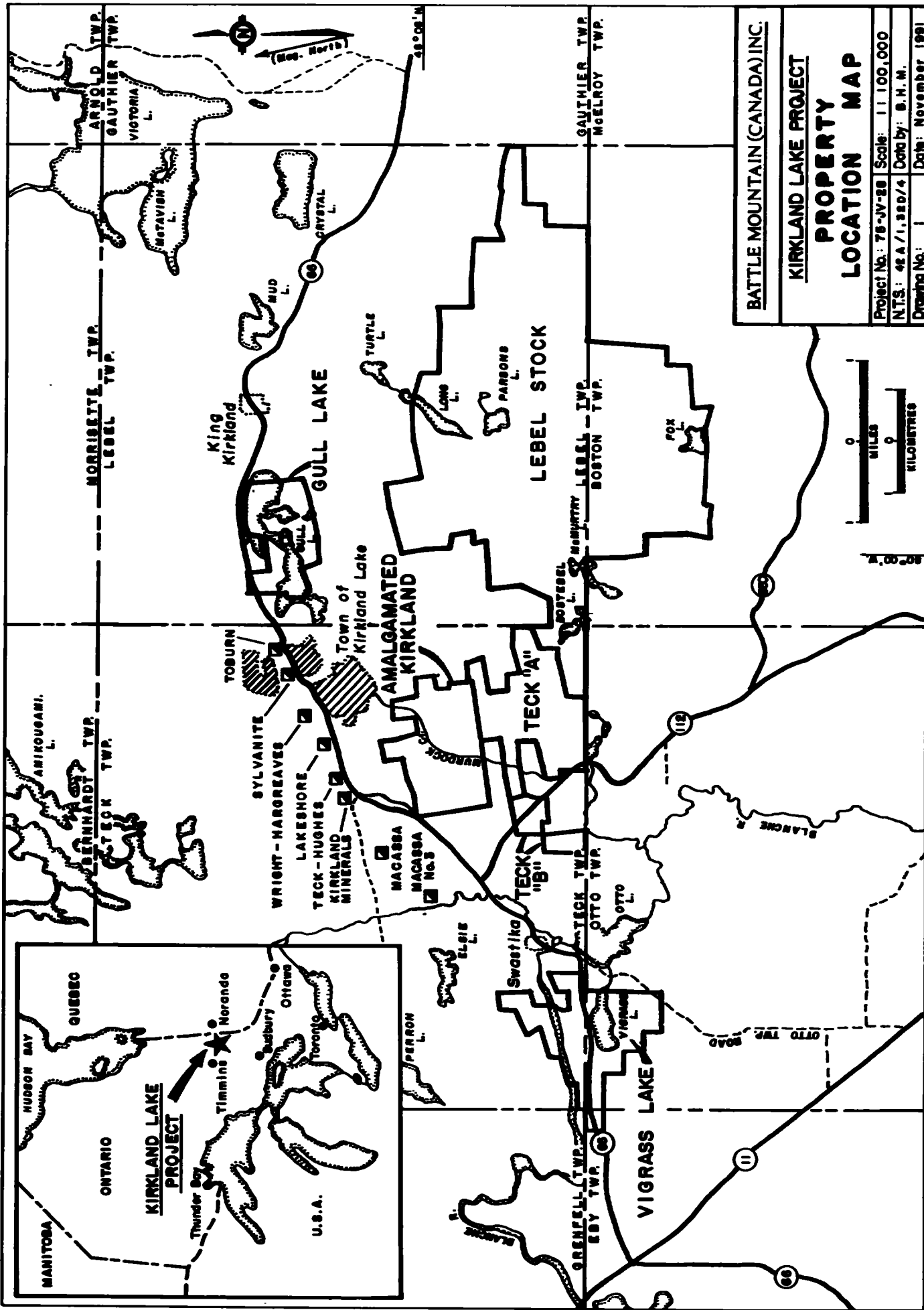
2.3 Topography and Vegetation

Seventy percent of the property consists of low rounded knolls and ridges, whilst the remaining thirty percent is tag alder and black spruce swamps. Elevations are from 305 to 345 metres ASL. Thirty percent is outcrop and shallow soil, whilst overburden, consisting of glacial till one to twenty metres thick, covers the remainder of the claims. The southwesterly flowing Murdock Creek divides the property approximately in half.

Most of the property that is not occupied by the alder and spruce swamps is covered by second growth poplar bush with local, small stands of birch, spruce, balsam and pine.

2.4 Site Rehabilitation

Previous attempts to fence potentially hazardous water-filled trenches and sumps used as a source for drilling water were unsuccessful because the fences were either knocked down or stolen by intruders. Four days were spent rehabilitating these water hazards and steep-sided slopes in the previously overburdened stripped areas. This work was done by Alex MacIntyre & Associates Ltd. from September 15th to 18th, 1992 under the supervision of W. Benham.

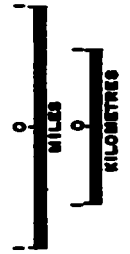


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KIRKLAND LAKE PROJECT

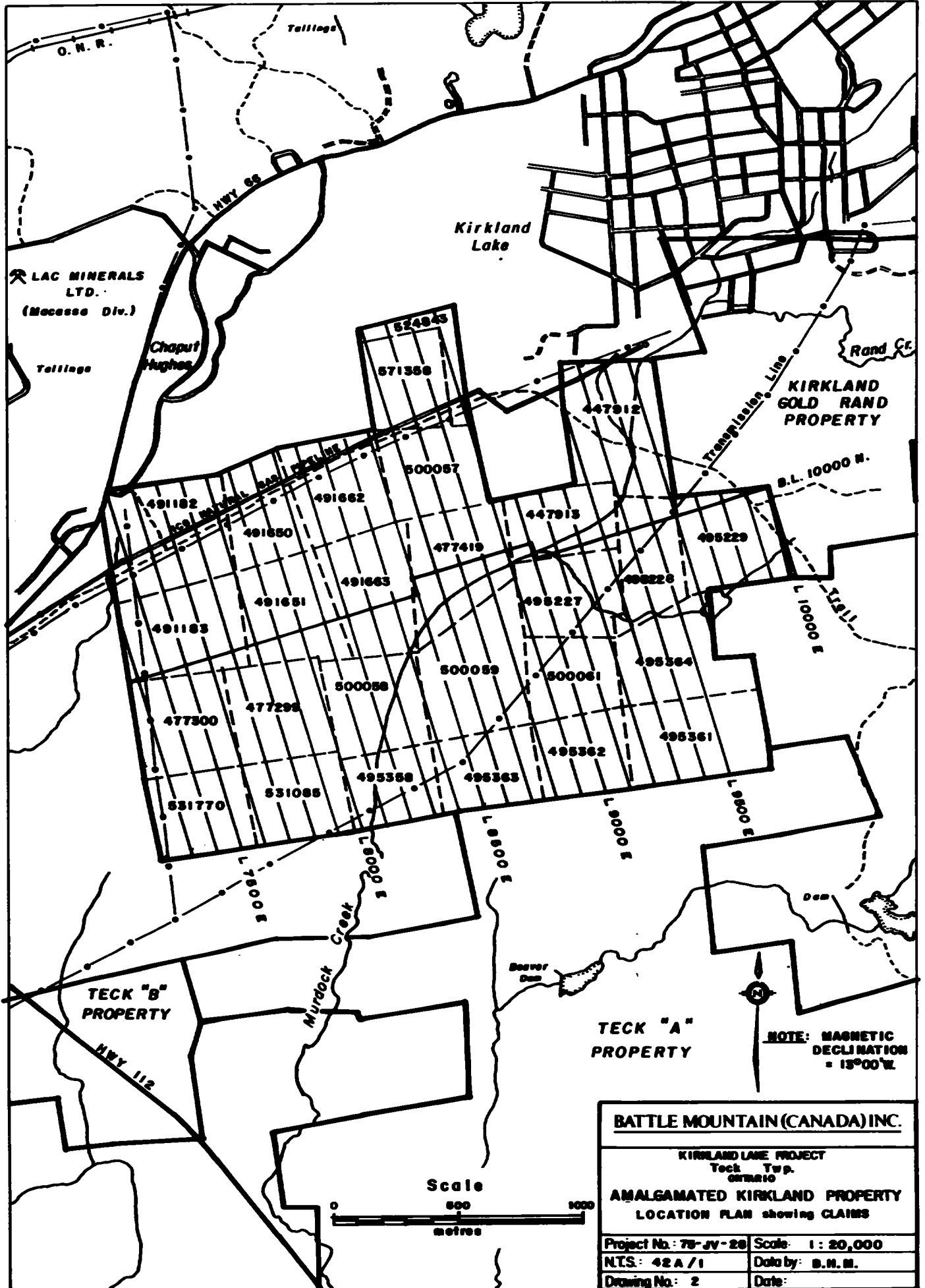
PROPERTY LOCATION MAP

Project No.: 79-JV-88 Scale: 1:100,000
 N.T.S.: 42 A / 1, 329 / 4 Date by: B. H. M.
 Drawing No.: 1 Date: November 1991



48° 00' N

1:50,000



LAC MINERALS LTD.
(Necesse Div.)

Kirkland Lake

KIRKLAND GOLD RAND PROPERTY

TECK "B" PROPERTY

TECK "A" PROPERTY

NOTE: MAGNETIC DECLINATION = 15°00' W.

BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Teck Twp.
Ontario

AMALGAMATED KIRKLAND PROPERTY
LOCATION PLAN showing CLAIMS

Project No: 78-JV-28	Scale: 1 : 20,000
NTS: 42A/1	Date by: B.M.M.
Drawing No: 2	Date:










3.0 REGIONAL GEOLOGY AND MINERALIZATION

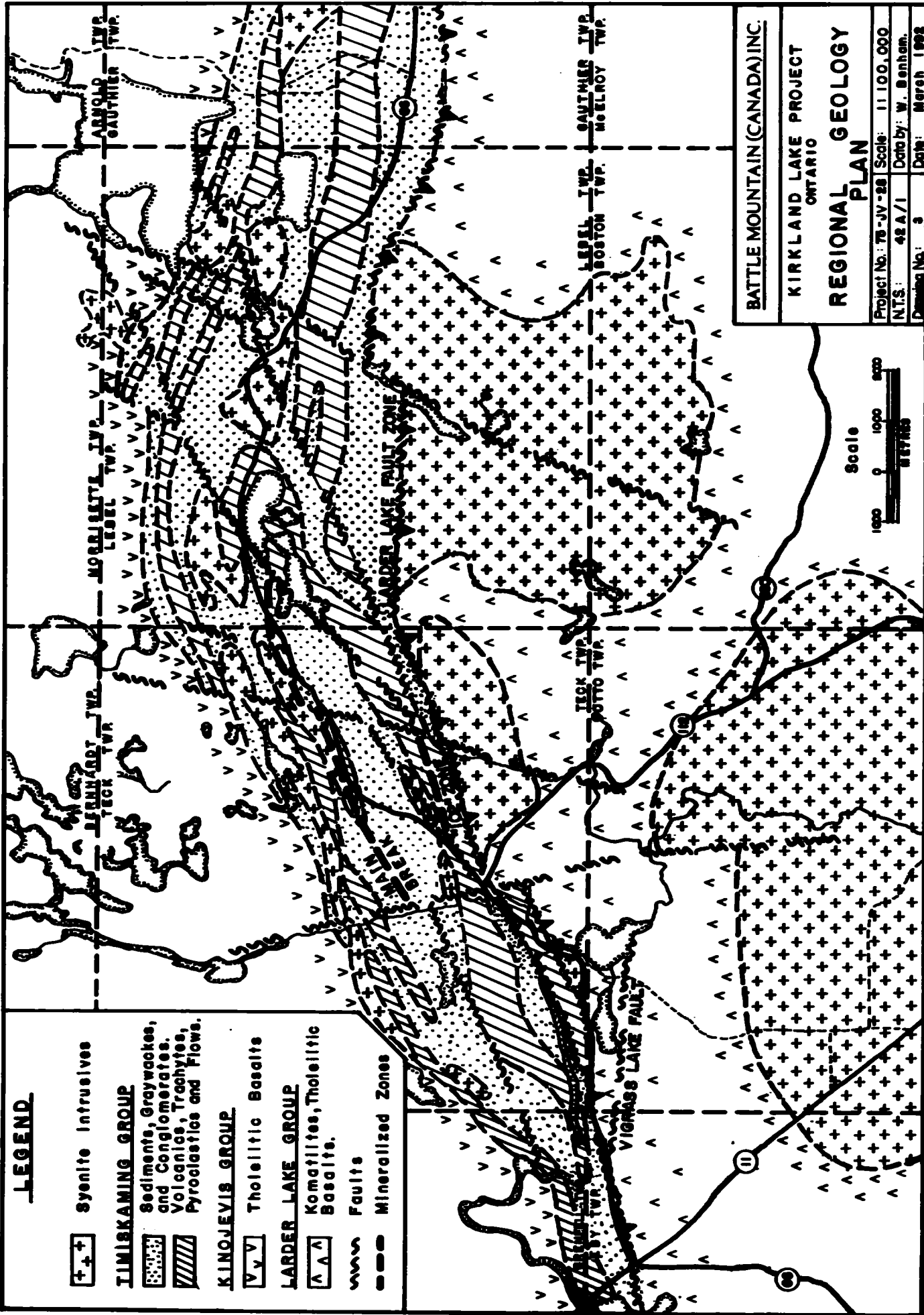
The Kirkland Lake district is in the Abitibi Greenstone belt of the Archean Superior Province of the Canadian Shield. It lies to the south of the major east-west trending Blake River synclinorium, the northern and southern limbs of which are defined by the Destor-Porcupine and Larder Lake-Cadillac Fault Zones or "Breaks". Most of the historical gold production in the Abitibi Belt is spatially associated with these two regional structural zones. The southern limb of the Blake River synclinorium in the Kirkland Lake area consists of tholeiitic volcanics of the Kinojevis Group. These are unconformably overlain by the trachytic volcanic and clastic sedimentary rocks of the Timiskaming Group, and their associated syenitic intrusives (Figure 3). The southern boundary of the Timiskaming Group is marked by the regionally south-dipping Larder Lake Fault Zone or thrust. The assemblage to the south of this fault consists of the Larder Lake Group, consisting of komatiitic and tholeiitic volcanic rocks with thin interflow graywacke, argillite and iron formation sedimentary rocks. The Larder Lake Group is intruded by plutons of pyroxenite, gabbro and syenite, including the Lebel, Murdock Creek and Otto syenite stocks.

The Kirkland Lake gold camp has produced in excess of 23 million ounces of gold from quartz-veined shoots in a deposit known historically as the Kirkland Lake Break or Mile of Gold. There were six producing mines along the deposit, of which the one remaining active producer is the Macassa Mine of Lac Minerals Ltd, at the west end of the deposit. The deposit strikes 067°, with a dip to the south of 75°-80°. It lies mostly within augite-syenites which intrude interbedded coarse tuffaceous and clastic sedimentary units of the Timiskaming Group. The augite-syenites and the country rocks are intruded in the area of the deposit by hypabyssal felsic syenite plugs and by syenite porphyry dykes. All of the intrusive phases are comagmatic with the enclosing trachytic volcanic rocks. Some of these plugs and dykes are locally mineralised or form one of the walls of the shoots. The entire deposit has been dismembered by a complex series of younger, steeply dipping reverse faults, of which the largest is known as the "Kirkland Lake Main Break". Many of the larger shoots lie against, or are terminated by, one or more of the branches of this fault system.

The Kerr Addison Mine, which is located 36 km to the east in the Larder Lake district, has produced in excess of ten million ounces, and is still in production. This ore deposit is hosted by altered and strongly sheared mafic to ultramafic volcanics of the Larder Lake Group immediately to the south of the Larder Lake Fault Zone, and is associated with altered plugs and dykes, known locally as "albitite", of unknown original composition. It contains two distinct ore-types: "green-carbonate ore", as quartz veins in altered ultramafic volcanic rocks; and "flow-ore", as pyritic, altered and deformed variolitic, pillowed basalts, with only minor quartz veining. Both ore types are spatially associated with the "albitite" plugs and dykes, but they have different distribution and plunges on the longitudinal section.

LEGEND

-  Syenite intrusives
- TIMISKAMING GROUP**
 -  Sediments, Graywackes, and Conglomerates.
 -  Volcanics, Trachytes, Pyroclastics and Flows.
- KINOJEVIS GROUP**
 -  Tholeiitic Basalts
- LARDER LAKE GROUP**
 -  Komatiites, Tholeiitic Basalts.
 -  Faults
 -  Mineralized Zones



BATTLE MOUNTAIN(CANADA) INC.
 KIRKLAND LAKE PROJECT
 ONTARIO
REGIONAL GEOLOGY PLAN
 Project No: 78-JV-88 Scale: 1:100,000
 N.T.S.: 48 A/1 Data by: W. Benham.
 Drawing No: 3 Date: March 1992



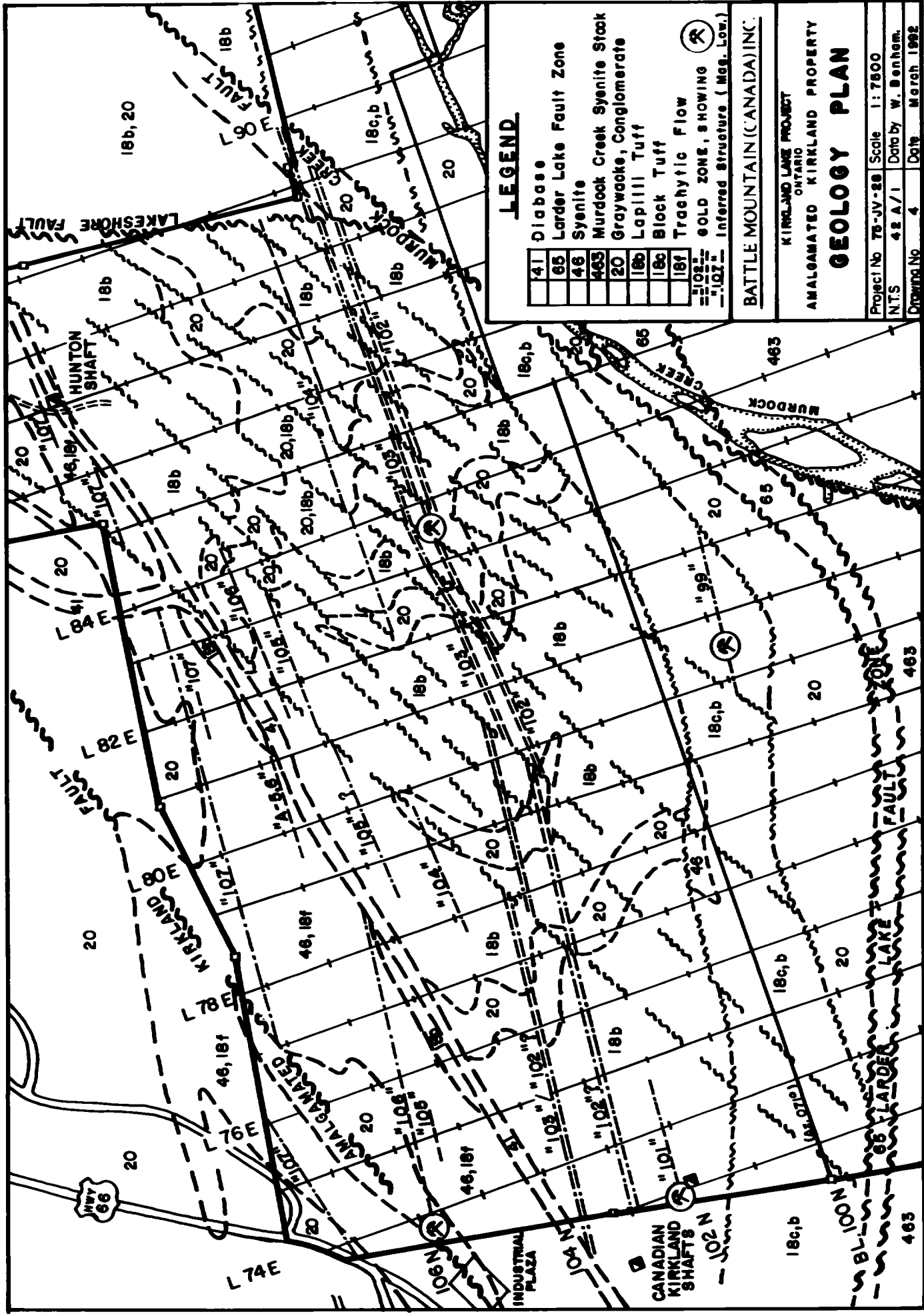
4.0 PROPERTY GEOLOGY

The Amalgamated Kirkland property is underlain by Timiskaming Group volcanic sedimentary and related intrusive rocks in the north half, and by the Murdock Creek syenite stock intruding Larder Lake Group volcanic rocks to the south. These are separated by a broad zone of shearing and carbonate alteration along the Larder Lake Fault Zone (Figure 4).

4.1 Stratigraphy

The Timiskaming Group is a series of interbedded clastic sedimentary rocks and coarse pyroclastic and epiclastic volcanic rocks, together with minor flows, intruded by semi-concordant bodies of multi-phase syenite. The majority of the rocks on the property are pyroclastic or epiclastic with dominantly locally derived volcanic or equivalent hypabyssal clasts, interbedded with relatively thin, sedimentary layers. To the north of the property, and on the northernmost claims around the Hunton Shaft the sequence is dominated by finer grained sedimentary rocks. A similar dominantly volcanic sequence to that on the Amalgamated Kirkland property encloses the majority of the host syenite complex which forms the wall rocks to the Kirkland Lake gold-quartz deposit immediately to the north. It is not known whether these volcanic units are the same horizon, exposed on either side of a major fold (the "Kirkland Lake Syncline") or separate units in a south-facing, homoclinal sequence. No consistent and reliable facing indicators have been established in the units on the property.

The individual stratigraphic units are difficult to distinguish due to rapid along-strike and down-dip gradations and interfingering between pyroclastic volcanic rocks, epiclastic volcanic rocks and clastic sediments. These sedimentary and volcanic rocks are diagnostic of a dynamic palaeo-environment, with extreme topographic relief and multiple volcanic pulses. This type of environment is also characterised by syn-deformational growth-faults, which further complicate stratigraphic correlation. This complex stratigraphic and syn-depositional structural situation is indicative of deposition close to the original volcanic source. Stratigraphic interpretation is further hampered by later structures, consisting of isoclinal folds as well as numerous, closely spaced faults which dismember the individual layers in the stratigraphic assemblage, as well as the fold limbs, into isolated segments.



LEGEND

41	Diabase
66	Larder Lake Fault Zone
46	Syenite
463	Murdoch Creek Syenite Stock
20	Graywacke, Conglomerate
18b	Lapilli Tuff
18c	Block Tuff
18f	Trachytic Flow
102	GOLD ZONE, SHOWING
107	Inferred Structure (Mgs. Low.)

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 KIRKLAND LAKE PROJECT
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY

GEOLOGY PLAN

Project No 76-JV-28 Scale 1:7500
 N.T.S. 42 A/1 Databy W. Benham.
 Drawing No 4 Date March 1992

The unit historically interpreted as an augite syenite within the "Amalgamated Kirkland Syenite" (described below) is more probably a series of mafic trachyte flows. No other units which can be more clearly defined as flows have been mapped on the property.

The coarsest pyroclastic rock is a block to lapilli tuff with variously sized, angular, polymictic fragments in an ash matrix of similar composition. Most of the fragments are different coloured phases of porphyritic trachyte¹ with different phenocryst sizes and densities. This rock is typically strongly magnetic and forms a distinct mappable unit north of the Larder Lake Fault Zone, and just south of the base line. Other, lapilli-tuff units grade progressively into rocks with fewer and finer clasts, and to rocks with a finer matrix.

The distinction between the volcanic and the sedimentary rocks is based on the presence of quartz grains and/or jasper grains or clasts in the rocks described as sediments. It is, however, often difficult to distinguish between the lapilli-tuffs and the conglomerates, in core or outcrop, or between their finer equivalents as ash-tuffs and graywackes, particularly where the original rocks are pervasively altered by chlorite and carbonate, as on most of the property.

Whilst the sedimentary units typically include conglomerates, graywackes and mudstones, it is possible to distinguish horizons which are characterised as containing a higher proportion of conglomerate from others which are dominantly graywacke and mudstone. One unit is a distinctive, thinly bedded, inter-layered black mudstone and light grey siltstone. This distinctive banded unit was seen to grade rapidly into a lapilli-tuff.

The Larder Lake Group rocks to the south of the Larder Lake Fault Zone are found as large xenoliths or roof-pendants within the Murdock Creek Stock, or as highly strained units within the broad area underlain by the Larder Lake Fault Zone. These rocks were originally mafic and ultramafic volcanic rocks, with minor interbedded clastic sediments and iron formations. They are now amphibolites or various talc + chlorite + carbonate schists.

¹ "Trachyte" is a local field term used to describe volcanic rocks with a trachytic texture, locally including phenocrysts which have been called pseudo-leucites; the actual chemical composition of these rocks, whether as flows or pyroclastic units, is difficult to establish due to the pervasive regional alteration, but they may be phonolites or basaltic-andesites. There are no preserved feldspathoidal mineral which would definitely indicate an "alkalic" petrological association.

4.2 Intrusive Rocks

The Murdock Creek syenite is a multi-phase, zoned body covering most of the property south of the Larder Lake Fault Zone. The area east of Murdock Creek is mostly a fine- to medium-grained leuco-syenite phase, whereas that to the west is mostly a medium- to coarse-grained meso-syenite. There is a distinct area of carbonate alteration within the stock, orientated 015° and just to the east of Murdock Creek, which was previously described as "felsite". This alteration zone may mark the extension of the Lakeshore Fault to the south of the Larder Lake Fault Zone.

The northernmost part of the property is mostly underlain by a complex body referred to historically as the "Amalgamated Kirkland Syenite". Most of the outcrop exposures are of a leuco-syenite and are feldspar-phyric. The area to the west, which is poorly exposed beneath the swampy area south of the Industrial Plaza, has been shown on previous maps (e.g. Thomson, 1950) as mafic syenite, presumably based on the historical drilling of the Amalgamated Kirkland mineralization. However, drilling by BMCI in 1991 has shown that both the eastern (hole AK91-34) and the western (AK91-37) areas are mostly underlain by mafic trachyte (previously described as augite syenite), intruded by numerous feldspar porphyry dykes. The latter are clearly more resistive to weathering, giving the false impression in the outcrop mapping of the proportions of the felsic syenite relative to the host mafic trachyte.

Smaller bodies mapped as syenite intrude the Timiskaming volcanic and sedimentary rocks south of the Amalgamated Kirkland syenite. Most of these are orientated close to 070° , the principal mineralized direction. However, some units mapped previously as syenite are probably a phase of hematitic alteration, possibly related to the mineralization.

4.3 Structure

Dips and strikes within the Timiskaming volcanic and sedimentary units are highly variable. Between the baseline and the "Amalgamated Kirkland Syenite", a series of 25 to 50 metre thick sedimentary units strike 225° to 315° and display a complex pattern of tight, isoclinal anticlinal and synclinal folds. The central limb of these drag-folds is often missing, being represented by a zone of shearing, leaving mostly east closing, and few west closing fold

patterns, mostly defined by the interbedded sedimentary units. Local dip and strike measurements as mapped are often conflicting, possibly because they represent original high angle of rest sedimentary structures within the original high energy palaeo-environment.

The main mineralized zones which have been discovered on the property are parallel to the axial planes of these folds, and may represent replacement bodies along the axial planes. Alternatively, they may occupy syn-depositional structures reactivated during subsequent structural events. There are distinct facies differences in the units to the north and south of the "102/103" mineralized zone, as well as between the units to the north and south of the base line. These facies boundaries are marked by the diabase dyke which is located along the south margin of the "Amalgamated Kirkland Syenite" and by the "100" structure, which is defined by a series of narrow syenite dykes and faulting trending 060° to 070°. These boundaries probably represent growth faults within the interbedded volcanic and sedimentary sequence. The faults along the northern and southern boundaries of the distinctive, highly magnetic coarse block tuff, which is located south of the baseline, are interpreted to be the western continuation of the North and Middle Harvey Faults on the Kirkland Gold Rand property to the east (Thomson, 1950).

The principal structural feature on the property is the Larder Lake Fault Zone, which lies between the Timiskaming Group and the Murdock Creek Stock. Geological mapping and diamond drilling by BMCI on the Kirkland Gold Rand property, to the immediate east of the Amalgamated Kirkland, has demonstrated that the fault zone dips south at 45° - 50°, and is a complex of splay faults enclosing variably deformed and altered volcanic rocks of the Larder Lake Group (Masson, 1991; Benham, 1991).

The Amalgamated Kirkland Fault strikes 050° and passes through the northwest corner of the property. The dip of this fault is about 80° to the southeast as indicated by mud-filled faults and shear zones intersected by the two underground holes which were drilled by Macassa Mines Ltd. from the 3,000 foot level near the northwest corner of the property.

The Murdock Creek Fault strikes at 040° (035° to 045°) through the centre of the property and appears to off-set or deflect the trace of the Larder Lake Fault Zone. Based on the underground development in the Glenora shaft to the northeast of the property this fault dips to the northwest at 75°-80°. A series of closely-spaced, northwest dipping faults, sub-parallel to the Murdock Creek Fault dissect the Timiskaming volcanic and sedimentary

assemblage throughout the property, with a dominantly sinistral sense of motion. These are referred to as the "Murdock Creek Fault set". They are seen in the field and core as chlorite + carbonate ± sericite ± pyrite alteration zones with closely spaced pressure-solution cleavage, and locally with minor fault gouge. These faults post-date and off-set the major mineralized zones on the property.

The Lakeshore Fault strikes 020° (015° to 025°) and dips to the west at 75°-80°. It passes along the eastern side of claim L.500057, and possibly extends to the south of the Larder Lake Fault Zone within the Murdock Creek Syenite. It appears to be the youngest of the faults on the property. There are many small fault off-sets at outcrop scale across the property with similar orientation and dextral motion which form the "Lakeshore Fault set".

5.0 ALTERATION AND MINERALIZATION

The principal mineralization on the property is the "102/103" zone, as discussed below. This gold mineralization is associated with pyritic, sericitic, and carbonate alteration. The highest grade gold mineralization is found in silicified, blue-grey quartz-breccia zones containing up to 30% fine grained pyrite, as well as local and minor galena, sphalerite and molybdenite.

Distinctive alteration zones have been mapped around the quartz + pyrite + gold mineralization. The outermost alteration consists of intense development of chlorite and carbonate. The alteration progresses towards the mineralized zone into an outer envelope of sericite replacing the chlorite, and of hematite replacing the primary magnetite in the sedimentary and volcanic rocks. Closer to the mineralization there is a distinctive zone of alteration with the development of euhedral chlorite spots within the sericite and carbonate groundmass. These chlorite spots may be replacing an earlier unknown phyllosilicate or peraluminous mineral. One phase of the hematitic alteration is represented by a strong red colouration in a strongly albitized quartz + carbonate + sericite rock which is difficult to distinguish from the syenite dykes. However, it is not usually porphyritic, except where it replaces originally porphyritic trachyte clasts. In the main zone of alteration and mineralization which host the quartz veins and breccia zones, the hematite is replaced by pyrite and the remaining chlorite by sericite.

Whilst the mineralization in the "102/103" zone is clearly related to sericite alteration, there is little accompanying foliation or "sericite-schist". The structural controls on the mineralization are not fully understood, but the zone appears to be related to either syn-depositional growth-faults, and/or to the axes of one or more tight folds within a complex of drag-folded and faulted, interbedded, coarse pyroclastic and epiclastic units. The mineralized zones strike approximately 070° and dip south at approximately 80-82°; they are offset by northeast striking and northwest dipping cross faults, probably as part of the Murdock Creek Fault set.

Other parallel zones of similar character have been identified to the north and south of the "102/103" zone, but have been less intensely explored and, as a result their character is less well defined. These include the "99", "101", "104" and "105" zones.

Other mineralized zones on the property are located within and around the Amalgamated Kirkland Syenite. Mineralization to the east was explored historically from the Hunton shaft (see below), and is mostly a series of quartz veins within Timiskaming Group sedimentary rocks and the syenite. The mineralization to the west overlaps the boundary of the property, immediately beneath and to the east of the Industrial Plaza; it is known as the Amalgamated Kirkland Zone. Historical drilling as well as BNCI holes AK91-34 and AK91-37 have demonstrated the existence of a number of altered and gold-anomalous zones within the Amalgamated Kirkland Syenite between these two mineralized areas, i.e. the "105", "106", "A-5, -6" and "107" zones.

6.0 PREVIOUS WORK

6.1 Work Done Prior to BMCI/Queenston Agreement

The Amalgamated Kirkland property has a long history of exploration activity dating from the initial discovery of mineralization in the Kirkland area on the Hunton shaft claim in 1911. Since that time, various prospecting, mapping, trenching, geophysical surveys and diamond drilling programmes have been carried out on specific targets such as quartz veins at the east (Hunton Shaft, or "107" zone) and west (Amalgamated Kirkland, or "106" zone) ends of the historically mapped "Amalgamated Kirkland Syenite" along the northern part of the property; carbonate alteration zones in close proximity to the Larder Lake Fault Zone which crosses the central portion of the claim block; carbonate alteration zones within the Murdock Creek Stock which occupies most of the southern half of the property.

The area which is mostly underlain by Timiskaming volcanic and sedimentary rocks between the Larder Lake Fault and the "Amalgamated Kirkland Syenite" had not been intensely explored prior to 1989, except for numerous shallow prospector's trenches which probably date back to the period from 1911 to 1924.

Limited exploration, about which very little is recorded, was carried out around 1919 on a property known as the Canadian Kirkland, which may be equivalent to the old trenches now referred to as the "101" zone. Alternatively it may be equivalent to the Amalgamated Kirkland zone ("106") as no clear location is recorded on subsequent maps. The Canadian Kirkland No. 1. vein is described in the Northern Miner of March 15th, 1919 as about 700 feet long, consisting of blue-black altered porphyry with quartz veins and considerable pyrite, and minor chalcopyrite and molybdenite. A 540 foot length "carried from \$1.20 to \$17.40" (at \$20.00 gold in 1919), but no widths are given. Their No. 2 vein is 350 feet north and described as a blue quartz vein, 12 feet wide, with molybdenite and fine iron sulphides.

6.2 BMCI/Queenston Agreement Programmes, 1989-91

During the 1989 field season, a line cutting, geological mapping and overburden stripping programme was carried out by BMCI to explore all of the property, but with the specific objective of exploring the Timiskaming volcanic and sedimentary rocks which had been relatively neglected in the past. This programme was specifically designed to search for mineralization based on a model of the stratigraphic and structural controls of the mineralization within the Kirkland Lake gold-quartz deposit (the "Kirkland Lake Main Break") as well as within the Upper Canada Mine deposit, 16 kilometres to the east in Gauthier Township.

The initial grid was cut with a survey controlled base line orientated at 071°, with cross lines every 100 metres. Intermediate lines were cut 50 metres apart as far south as 96+00N in the winter of 1990 (i.e. across the Timiskaming Group and the Larder Lake Fault Zone).

This 1989 programme resulted in the discovery of two anomalous gold-bearing alteration zones (Bottrill, 1990; Benham, 1990) within the Timiskaming sedimentary and volcanic rocks. The "101" zone was located in the re-exposure of a historical trench at 72+90E (the "101-7290" showing; possibly part of the Canadian Kirkland workings, close to the southern of their two shafts) where it averaged 2.48 g/t Au over a width of 6 metres. The "102" zone was discovered in one of a series of long overburden-removal "trenches", cut normal to the apparent stratigraphy and regional strike of the mineralization at 070°. Initial channel samples cut in the early winter of 1989-90 assayed up to 2.22 g/t Au across 6 metres including 5.0 g/t Au over 1.5 metres. Other anomalous samples were located along strike and a small section of the zone was stripped of overburden to the east of the original discovery at 102+40N, 83+50E. Both showings were associated with sericitic, pyritic, silica-breccia and vein zones striking 070°, parallel to the other major mineral deposits in the district.

A total field magnetometer and vertical gradiometer survey were completed during the winter and spring of 1990 over the entire grid (Roth, 1990). A detailed IP survey (Roth, 1990a) was completed over the Timiskaming sequence north of the Larder Lake Fault Zone and south of the power-line which runs close to the northern boundary of the property. Linear zones of low magnetic amplitude, related to the pyritic replacement of magnetite, with corresponding, but intermitted, weak chargeability and high resistivity anomalies from the IP survey, were found to be associated with the newly discovered mineralized structures. Similar

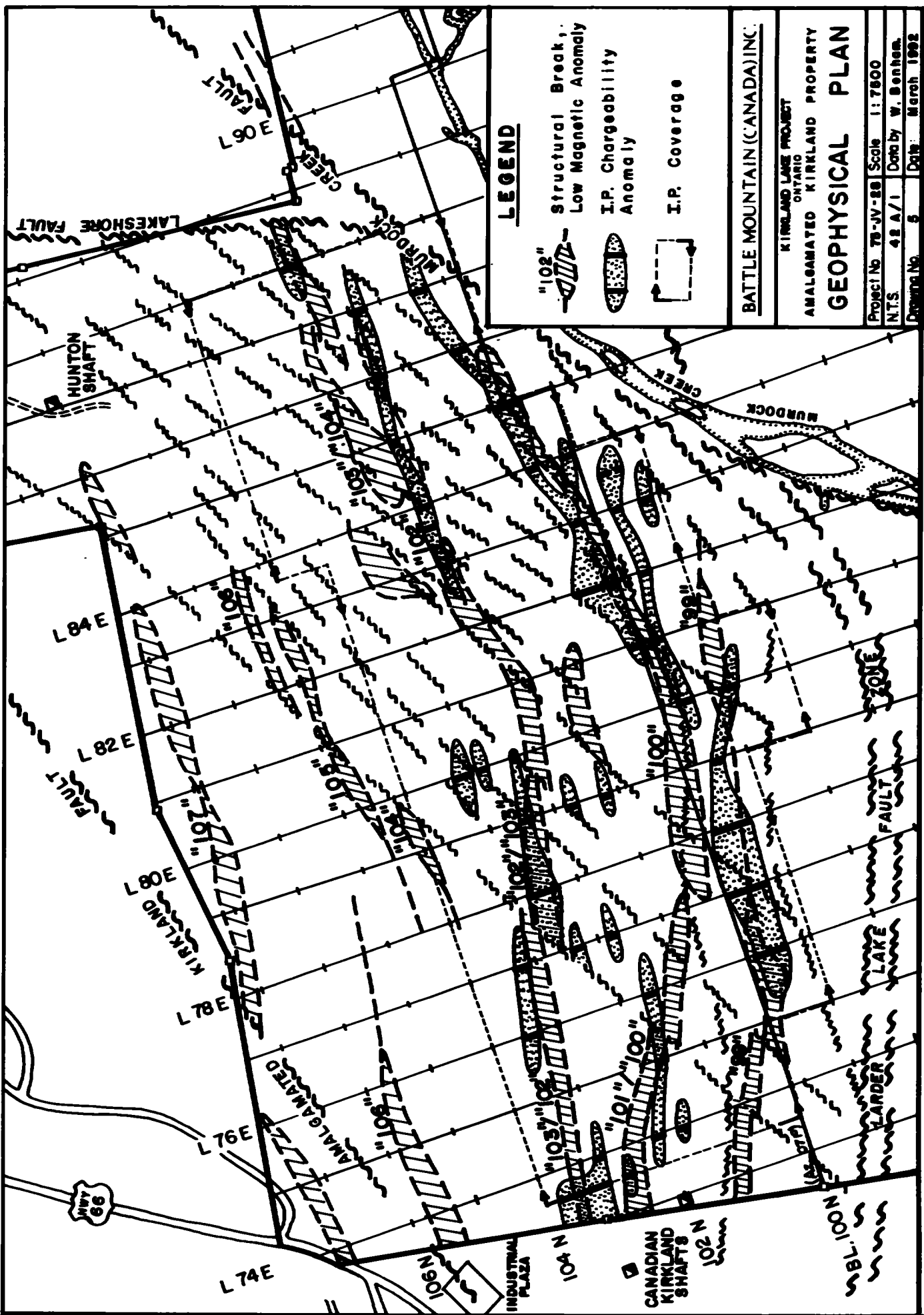
magnetic anomalies along strike of both the "101" and "102" zones, as well as others located to the north and south and parallel to the known mineralization (the "99", "100", "101", "102", "104", "105", "106", and "107" zones), provided an indication of the overall style and distribution of the major stratigraphic units as well as the alteration and structural system on the property, and more specifically indicated exploration targets for diamond drilling and/or further trenching (Figure 5).

During the summer of 1990, additional overburden stripping, detailed mapping and channel sampling were completed (Benham, 1990a). The interpreted "102" structure was traced intermittently as a gold-bearing, pyritic, sericitic, silicic alteration zone for a strike length of 540 metres from 79+10E to 84+50E. The exposed mineralization, which was channel-sampled at close spacings, averaged 3.40 g/t Au over 4.18 metres for a strike length of 55 metres in the "102-8350" zone; and 2.98 g/t Au over 5.03 metres for a strike length of 38 metres in the "102-8170" zone (Figure 6). Selected grab samples returned assays up to 36.55 g/t Au and individual channel samples across the zone were up to 8.36 g/t Au over a width of 3.80 metres. A new showing of native gold, which was named the "99-8030" zone, returned a channel sample assay of 797.5 g/t Au across 0.45 metres.




During October 15, 1990 to December 13, 1990, a diamond drilling programme was carried out (Benham, 1990b). Twenty-eight holes for a total of 3,318.67 metres were drilled to test the gold zones discovered by BMCI, as well as some of the geophysical anomalies outlined by the BMCI magnetometer and IP surveys.

Most of this drilling was concentrated along strike for 300 metres to the west and 250 metres to the east of the original "102" discovery showing at 83+50E, and to a vertical depth of 115 metres. Quartz + pyrite breccia zones, 0.5 to 6.2 metres wide, within a broader zone of hematized, sericitized and silicified altered tuffs, graywackes and mudstones were found in most of the holes.

Mineralized intersections varied considerably in width and grade in the nineteen holes completed in this area. Some were relatively narrow quartz vein structures (such as 11.25 g/t Au over 0.60 metres in hole AK90-09) whereas others were multiple vein and breccia zones



LEGEND

-  Structural Break, Low Magnetic Anomaly
-  I.P. Chargeability Anomaly
-  I.P. Coverage

BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
ONTARIO

AMALGAMATED KIRKLAND PROPERTY

GEOPHYSICAL PLAN

Project No. 78-JV-88 Scale 1:7500
 N.T.S. 48 A/1 Data by W. Benham.
 Drawing No. 5 Date: March 1992

102-8170 ZONE

2.98 g./t. Au./5.03 m. / 38 m.

(6.31/3.17)
(3.50/7.40)
(12.71/1.00)

102-8275 ZONE

1.45 g./t. Au./2.40 m. / 32 m.

(1.99/1.50)

102-8350 ZONE

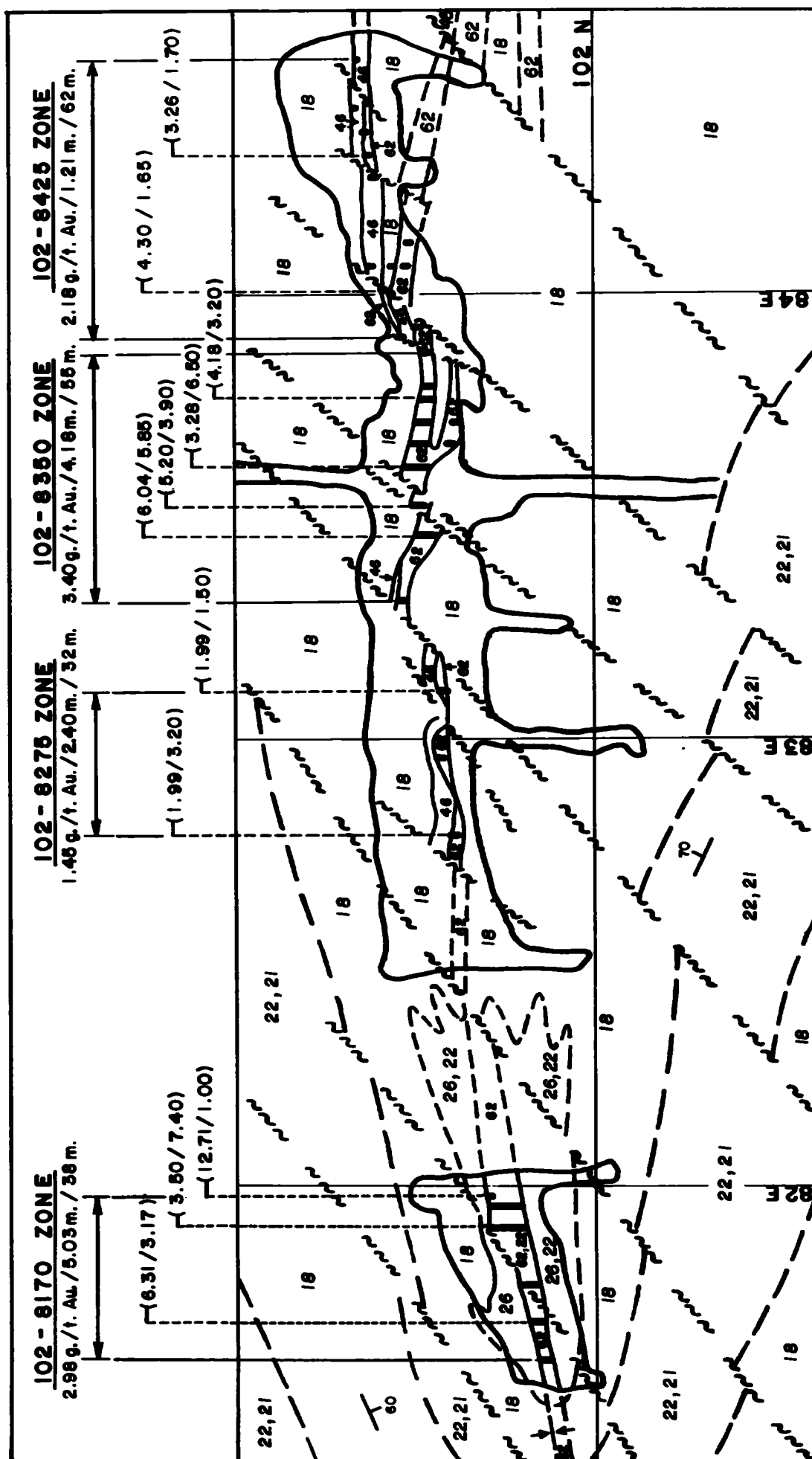
3.40 g./t. Au./4.18 m. / 55 m.

(6.04/5.85)
(5.20/3.90)
(3.28/6.50)
(4.18/3.20)




102-8425 ZONE

2.18 g./t. Au./1.21 m. / 62 m.

(4.30/1.65)
(3.26/1.70)



LEGEND

- 62 Sericite ± Pyrite ± Quartz Zone
 - 46 Syenite + Hematite Alteration(?)
 - 26 Mudstones
 - 22 Graywackes
 - 21 Conglomerates
 - 18 Lapilli / Ash Tufts
- Mineralized Channel Sampling  (6.31 / 3.17) g./t. Au./ metres
- Bedding 
- Synclinal Axis 

BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
ONTARIO
AMALGAMATED KIRKLAND PROPERTY
"102" ZONE
CHANNEL SAMPLING

Project No. 78-JV-28 Scale 1:1250
N.T.S. 42 A / 1 Date by: W. Benham.
Drawing No. 6 Date: March 1992

within broader alteration envelopes (e.g. 7.64 g/t Au over 4.00 metres in hole AK90-06). Other significant intersections included 3.58 g/t Au over 2.55 metres in hole AK90-08; 3.14 g/t Au over 2.80 metres in hole AK90-18; 2.25 g/t Au over 8.45 metres in hole AK90-21; and 2.74 g/t Au over 3.75 metres in hole AK90-24.

Holes AK90-22 and AK90-11, drilled 200 metres further east and west respectively along strike from the 550 metre long mineralized section of the "102" zone, failed to return any significant mineralization. Hole AK90-11, intersected over 20 metres of altered sericitic tuffs, graywackes and mudstones, but without any mineralized pyrite + quartz breccia zones. Subsequent re-interpretation of the data indicates that hole AK90-22, which was drilled from north to south, was not drilled far enough to intersect the "102/103" zone; however, it crossed a broad silicified, pyritic alteration zone which was barren, but which may be related to either the parallel "104" zone, or the cross-cutting Lakeshore Fault.

Hole AK90-28, drilled just to the east of the "101-7290" trench (and possibly the southern Canadian Kirkland Shaft) returned 1.89 g/t over 2.0 metres. This mineralization may be either the western extension of the "102" zone, or the separate sub-parallel "101" zone as initially identified in the sampled trench.

The shallow holes (AK90-12 to -14) were drilled at 50 metre spacings beneath the surface showing of the "99" zone. Whilst no anomalous assays were returned, all three holes intersected a broad zone of alteration, and given the subsequent intersection ratio on the other zones, the "99" zone remains a target worthy of further drilling.

Testing of the "100" structure in three holes (AK90-15, -16, and -27) did not return any anomalous assays. The magnetic lows and IP anomalies, which were the targets of these holes, are due to zones of sericite + carbonate + hematite alteration zones with quartz veining and pyrite, but no significant gold mineralization.

As a result of the 1990 drill programme, significant shallow gold mineralization was identified along the "102" structure, over a strike length of 1250 metres, from 73+50E to 86+00E, and at vertical depths of 20 to 119 metres. However, the extreme variation in the assay results between the closely spaced holes beneath the original showing did not indicate the presence of immediately obvious economic mineralization.

A follow-up drill programme was completed from July 29 to October 3, 1991, with the objective of testing the identified strike potential from the shallow drilling, but at greater depths, in the search for a body of more continuous higher grades over a wider interval. The program consisted of ten holes for a total of 3,718.35 metres, with most of the holes targeted at about the 300 metre (1000 foot) depth, or at shallower depths in the wider gaps between the existing holes.

Hole AK91-29, tested the "102" zone 100 metres to the east of hole AK90-26, i.e. in the section not reached by hole AK90-22, 120 metres further east. It intersected weak mineralization over a core length of 12.00 metres.

Holes AK91-30, 31, 32 and 33 tested the "102" structure on very wide step-outs at 200 metre intervals, and with planned pierce points at approximately the 300 metre level in the section from 80+00E to 86+00E, i.e. below the original showing and down a presumed plunge to the west. Of these holes, AK91-31, beneath part of the original showing, returned a significant intersection of 9.70 g/t Au over 5.15 metres at a vertical depth of 315 metres. The remaining three holes intersected 20 to 40 metre wide zones of sericite alteration which are associated with the "102" structure.

Hole AK91-38 was targeted at a vertical depth of 525 metres, to follow up the intersection in hole AK91-31, but some 210 metres deeper. It encountered 38 metres of sericite alteration, pyrite mineralization and quartz + albite veining from which the highest assayed interval was 1.97 g/t Au over 5.10 metres.

Of these deeper holes, AK91-30, -31, -33 and -38, were drilled from north to south to avoid hole inclination problems due to the northwest dipping Murdock Creek fault set. Each of these intersected a mineralized zone, lying 55 to 75 metres horizontally to the north of the "102" zone, which is now referred to as the "103" zone. The highest grade intersection from this zone was 3.63 g/t Au over a core length of 3.10 metres in hole AK91-31, whilst the other holes returned lower grade but anomalous intervals. A reinterpretation of the drill results following completion of the 1992 program indicates that the 1991 intersections in the "103" zone are probably the strike extensions of the northern intersections in 1990 drill holes AK90-02, -25 and -29, as well as possibly in hole AK90-03. The remainder of the short 1990 holes

(including AK90-21 and -26), as well as 1991 hole AK91-32, were not drilled far enough to the north to intersect the trace of the "103" zone as presently interpreted.

Given the wide spacing of the mineralized intersections, and the uncertainties in the dip and/or correlation of the zones, or of the plunge of the mineralized bodies, the overall section which contains a number of anomalous to significantly mineralized intervals, mostly bounded by the individual "102" and "103" zones as identified at present, is referred to collectively as the "102/103" zone.

In addition, the first of the 1991 holes drilled from the north, AK90-30, intersected what is probably the same alteration zone as in AK90-22, lying yet further to the north, and now referred to as the "104" zone, co-incident at surface with the geophysically inferred "104" structure. (When first intersected in AK91-30 this was referred to as the "103" zone.) This new zone in hole AK90-30 returned 2.88 g/t Au over a core length of 4.50 metres. This same zone may have been intersected in holes AK91-31 and -33, where it was weakly anomalous to barren.

Holes AK91-35 and 36 were drilled as a cross-section along 76+00E to test a series of geologically and geophysically interpreted structures, any one of which could represent the projected extension of the "102/103" structures, in the large undrilled gap between the "101-7290" (Canadian Kirkland shaft) zone tested by AK90-28 on 73+50E and the "102-7912" zone, of which the closest hole was AK90-11 on 79+00E.

Hole AK91-35 intersected the "102" zone where it averaged 0.13 g/t Au over 3.00 metres. Another zone, which assayed 3.11 g/t Au over 3.45 metres, including 18.88 g/t Au over 0.55 metres, was encountered 90 metres to the north of the interpreted "102" zone intersection. This northern zone could be the western extension of the "103" zone or the "104" zone, and represents a significant intersection within a 500 metre long strike interval of the "102/103" zone where there is no other drilling.

There were no anomalous assays in the short hole AK91-36 which tested a linear low magnetic anomaly and feldspar porphyritic syenite dykes associated with the interpreted "100" structure.

Two holes were drilled into the area of the "Amalgamated Kirkland Syenite" and the immediately adjacent sedimentary and volcanic rocks in order to test various linear zones of low magnetic amplitude sub-parallel to the "102/103 zone, close to areas of historical drilling with indications of mineralization, and between the Hunton shaft mineralization to the east and the historically defined Amalgamated Kirkland zone to the west.

Hole AK91-34, along section 81+90E, tested part of the "Amalgamated Kirkland Syenite", where mineralized intersections had been reported from holes A5 and A6 drilled in 1939. An altered zone within the sedimentary rocks, south of the contact with the "Amalgamated Kirkland Syenite", interpreted as the "105" structure, returned 0.28 g/t Au over 3.4 metres. Three hematitic, brecciated feldspar porphyritic syenite dykes, intruding mafic trachytic flows (historically referred to as mafic or augite syenite), assayed 0.27 g/t Au over 5.0 metres, 1.15 g/t Au over 0.70 metres and 0.28 g/t Au over 8.6 metres.

Hole AK91-37 was drilled in the northwest corner of the property, below and to the east of shallow mineralization known historically as the Amalgamated Kirkland zone. Shallow drilling in 1939 intersected up to 10.6 g/t Au over 3.6 metres in a series of holes (Drawing DL-009). Two zones of weakly anomalous gold mineralization were intersected. These are related to brick-red hematitic, feldspar-porphyritic syenite dykes which contain trace pyrite and minor quartz + albite veining, and which intrude mafic hornblende and feldspar porphyritic trachyte flows ("mafic syenites") and interbedded polymictic pebble conglomerates. Two weakly mineralized sections averaged 0.44 g/t Au over 10.20 metres, including 2.39 g/t Au over 1.00 metres and 0.18 g/t Au over 25.00 metres, including 1.46 g/t Au over 0.50 metres. The first intersection is considered to be the westward extension of the "105" zone while the second intersection is interpreted to be the down-dip extension of the Amalgamated Kirkland or "106" zone.

Overall, the deeper drilling on the "102/103" structure in 1991 indicated that:

- the mineralized system extends to a depth of at least 525 metres (AK91-38);
- near ore grades are present over estimated true widths of 3.00 metres (AK91-31, 9.70 g/t Au over 5.15 metres) on the "102" zone;

- a series of sub-parallel zones exist within the overall "102/103" zone, with discovery of the "103" and "104" zones immediately north of the mineralization on the "102" zone, each with significant intersections in widely spaced holes; and
- Significant mineralization exists in the 500 metre gap between 73+50E and 79+00E, possibly on the "103" or "104" structures.

Further deep drilling along the combined "102/103" zone at the 500 metre level was recommended to evaluate the overall potential of the "102/103" structure.

Additional potential exists within the "106", "107", etc. zones closer to the north boundary of the property, as lower priority targets for later follow-up.

7.0 1992 DRILL PROGRAMME

The 1992 diamond drilling on the Amalgamated Kirkland property was completed in two stages, Phase I, consisting of 2,325.25 metres during the winter, and Phase II consisting of 2,476.1 metres during the summer, for a total of 4,801.25 metres.

Down hole Sperry Sun directional surveys were completed for previously drilled holes AK91-30, -31, -32, -33, -35 and -38 during the Phase II programme. Revised summary pages for these holes with the survey results are located in Appendix I.

7.1 Phase I Drilling Programme

The 1992 Phase I diamond drilling was started on January 22, and completed on March 15, 1992 by Heath & Sherwood Drilling (1986) Inc. of Kirkland Lake. Four, NQ diameter holes, AK92-39, -39A, -40 and -41, were drilled for a total of 2,325.25 metres. A total of 681 sawn core samples were assayed for gold by Swastika Laboratories using one assay ton fusions.

Three drill holes were planned to further test the "102/103" structure at the 500 to 600 metre level, 200 metres and 600 metres to the west, as well as 200 metres to the east, of hole AK91-38. Four holes were drilled because the first hole had to be abandoned at a depth of 92.9 metres due to a broken core barrel which was stuck in the hole. Holes AK92-39, -39A and 40 were drilled from north to south, and AK92-41 from south to north.

Phase I Drill Results

The results of the Phase I 1992 drilling are described in drill logs AK92-39, -39A, -40 and -41 (Appendix I) and shown on drill sections DC-006-2, -3; DC-017-1, -2, -3; DC-036-1, -2; DC-038; DC-039-1 to -4; and DC-065, all at a scale of 1:500. Drill hole locations are shown on drill plan DP-003 and simplified geology plan GL-030 at a scale of 1:2,500. A

summary listing of diamond drill holes including significant gold intersections is presented in Table I. Assay certificates are located in Appendix II and all sampled intervals and assay results are recorded in the drill logs. The Phase I drill intersections are shown on vertical longitudinal sections of the "102", "103" and "104" zones, at a scale of 1:2,500, on Drawings DL-006, DL-007 and DL-010 respectively, and a combined vertical longitudinal section of all three zones on DL-008.

Hole AK92-39A, intersected the "103" zone where it averaged 4.75 g/t Au over a core length of 38.0 metres, from 453.0-491.0 metres, at a vertical depth of 435 metres. Within this interval there was a shorter section which averaged 6.74 g/t Au over 25.7 metres and which included three individual intervals of:

69.20 g/t Au over 1.50 metres

6.75 g/t Au over 4.50 metres, and

5.95 g/t Au over 3.90 metres.

The high grade section over 1.50 metres is a quartz + pyrite + native gold silicified zone, whilst the other two significant sections are quartz + albite + pyrite + galena ± sphalerite zones. These are within pyritic, sericitic, massive to well bedded graywackes with interbedded sericitic mudstones and mudstone rip-up clasts, within which the mudstone clasts are frequently replaced partially or almost totally by very fine grained pyrite. There are minor quartz veins throughout the entire mineralized interval.

A 0.30 metre wide section of silicified, sericitic sheared mudstones with 1% fine grained pyrite, which was intersected from 536.25 to 536.55 metres at a vertical depth of 490 metres, is interpreted to be the "102" zone, but no anomalous assays were returned.

In Hole AK92-40, a 14.9 metre wide interval of weakly mineralized, silicified mudstones, siltstones and graywackes, which was intersected from 357.10 to 372.0 metres at a vertical depth of 360 metres and assayed trace gold, is considered to be the western continuation of the "104" structure which was encountered in hole AK91-30.

TABLE I
SUMMARY LISTING OF DIAMOND DRILL HOLES - 1992 (PHASE I)

Hole No.	Collar				Total Length	Dates (1992)		Intersections							
	Easting	Northing	Elevation	Dip		Azimuth	Started	Completed	Zone	From	To	Au g/t	Length (metres)		
AK92-39	8,000.0	10,380.0		-75.0	161	82.90	22-Jan	26-Jan	--	Hole abandoned					
AK92-39A	7,999.0	10,378.7	344.4	-77.5	158	609.95	26-Jan	08-Feb	103	453.00	491.00	4.75	38.00		
												including			
												457.40	488.00	5.83	30.60
												and			
												457.40	483.10	6.74	25.70
												including			
												457.40	458.90	69.20	1.50
												and			
												469.50	474.00	6.75	4.50
												and			
												479.20	483.10	5.95	3.90
									102	No significant assays					
AK92-40	8,395.0	10,433.4	327.4	-75	161	716.40	09-Feb	25-Feb	102	607.80	608.70	9.47	0.90		
									103	No significant assays					
									104	No significant assays					
AK92-41	7,599.7	10,007.4	337.3	-75	341	916.00	26-Feb	15-Mar	102	No significant assays					
									103	No significant assays					
TOTAL						2,325.25									

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10-Nov-92

An altered zone was intersected in hole AK92-40 from 607.80 to 641.90 metres (core length of 34.1 metres). A narrow quartz + pyrite + chlorite zone from 607.80 to 608.70 metres at a vertical depth of 585 metres along the sheared contact between weakly sericitic conglomerates and lapilli tuffs, assayed 9.47 g/t Au over a core length of 0.90 metres. This is considered to be the "103" zone; although it is somewhat further north than projected based on the intersections further to the west, it is at least 180 metres from any other hole, and possibly off-set on one or more faults. No anomalous assays were returned from the remainder of this altered zone.

Barren quartz and quartz breccia veins with traces of pyrite and chalcopyrite were intersected from 691.90 to 692.35 (0.40 m). The upper contact of this zone is marked by a blue grey mud-gouge. These veins possibly could be the "102" zone.

Hole AK92-41 was drilled to test the "102/103" structure at the 625 metre level, 400 metres to the west of hole AK92-39A. It was targeted to intersect the "102/103" zone where it was projected to lie within the "Amalgamated Kirkland Syenite", based on a shallower southerly dip for this contact than for the mineralized zone. This hole did not flatten as expected, and, as a result, the targets were intersected deeper than planned. The Amalgamated Kirkland Syenite was never intersected. A strongly foliated and silicified zone, with 1% quartz veins and trace pyrite, was intersected from 754.80 to 757.00 metres at a vertical depth of 700 metres. This section is interpreted to be the "102" zone but it returned only trace gold. The "103" zone was intersected from 791.00 to 827.80 metres (36.8 metres). It consists of an 18.0 metre wide sericitic, chloritic stockwork zone with chloritic slips, quartz veinlets and silicified pods with trace to 1% pyrite from 791.00 to 809.00 metres and a 1.70 metre wide sericitic foliated zone with 2-3% quartz veins and 1-2% pyrite from 822.20 to 823.90 metres which is followed by a weakly foliated section to 827.80 metres at a vertical depth of 760 metres. These zones only assayed trace gold with the best assay being 0.19 g/t Au over 1.00 metre.

7.2 Phase II Drilling Programme

The 1992 Phase II drilling programme was started on June 16, and completed on August 15, 1992 by Heath & Sherwood Drilling (1986) Inc. of Kirkland Lake. Four NQ diameter holes, AK92-42, 43, 44 and 45, were drilled, and hole AK90-25 was deepened 55.6 metres, for a total of 2,476.1 metres. A total of 797 sawn core samples were assayed for gold by Swastika Laboratories using one assay ton fusions. Hole AK92-42 was drilled from north to south, whilst the remaining holes were drilled from south to north.

The purpose of this four hole programme was to test the "102/103" gold zones at distances of about 100-150 metres around the previous better intersections in holes 31, 38 and 39A.

Phase II Drill Results

The results of the 1992 Phase II drilling are described in drill logs AK92-42, -43, -44, -45 and AK90-25/92-25 Ext. (Appendix I) and are shown on drill sections DC-006-1, -2, -3, -4; DC-007; DC-008-1, -2, -3; DC-010-1, -2, -3; DC-036-3; and DC-066-1, -2, at a scale of 1:500. Drill hole locations are shown on drill plan DP-003 and simplified geology plan GL-030 at a scale of 1:2,500. A summary listing of the drill holes including significant gold intersections is presented in Table II. Assay certificates are located in Appendix II and all sampled intervals and assay results are recorded in the drill logs. The phase II intersections are shown on vertical longitudinal sections of the "102", "103" and "104" zones, at a scale of 1:2,500 on Drawings DL-006, DL-007 and DL-010 respectively, and a combined vertical longitudinal section of all three zones on DL-008.

Hole AK92-42 was planned to intersect the "102/103" gold zones, midway between holes AK91-31 and -38 on section 82+00 E. From 300.6 to 312.0 metres, it intersected a zone of weakly to moderately sheared, sericitic graywacke with 1-5% quartz veins and trace to 1% pyrite over widths of 0.1 to 1.6 metres. A 0.6 metre wide sample from 311.0 to 311.60 metres assayed 16.67 g/t Au, while the rest of the zone did not return any anomalous assays. This zone is interpreted to be the "104" zone rather than the "103", because it appears to be further north than the projection of the "103" zone based on adjacent holes.

TABLE II
SUMMARY LISTING OF DIAMOND DRILL HOLES - 1992 (PHASE II)

Hole No.	Collar					Length Total	Dates (1992)		Intersections					
	Easting	Northing	Elevation	Dip	Azimuth		Started	Completed	Zone	From	To	Au g/t	Length (metres)	
AK92-42	8,188.8	10,374.9	332.3	-71	161	507.50	16-Jun	26-Jun	104	311.00	311.60	16.67	0.60	
									103	432.00	432.70	1.15	0.70	
									102	468.00	474.00	0.23	6.00	
AK92-42E						49.30	13-Aug	15-Aug	102?	505.50	510.00	0.38	4.50	
AK92-43	8,095.5	9,985.0	333.3	-73	341	648.10	26-Jun	07-Jul	102	No significant assays				
									103	549.00	552.10	0.82	3.10	
										and	563.30	563.80	2.31	0.50
									104	591.00	596.00	0.15	5.00	
AK92-44	8,148.2	9,931.5	324.7	-75	341	814.10	20-Jul	05-Aug	102	642.2	647.0	0.10	4.80	
									103	No significant assays				
									104	No significant assays				
AK92-45	8,124.5	10,105.0	340.6	-70	341	401.50	07-Aug	12-Aug	102	No significant assays				
									103	305.0	331.5	2.53	26.50	
										including	305.7	306.2	5.11	0.50
										and including	315.2	329.5	4.44	14.30
										including	315.2	315.7	14.55	0.50
										and	321.0	329.5	6.35	8.50
										including	323.3	325.0	23.48	1.70
											with 49.1 g/t Ag, 0.34% Cu and 4.70% pb			
									104	No significant assays				
AK92-25E	8,124.2	10,150.8	339.3	-55	341	55.60	12-Aug	13-Aug	103	No significant assays				
									104	No significant assays				
TOTAL						2,476.10								
1992 TOTAL						4,801.35								

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10-Nov-92

A strong sericitic shear zone with 20-30% white to pink quartz veins and trace pyrite was intersected from 432.0 to 432.7 metres, and assayed 1.15 g/t Au over 0.70 metres. A chlorite \pm quartz \pm pyrite "crack and seal" fracture zone in bleached lapilli tuffs was intersected from 442.0 to 450.1 metres but returned no anomalous assays. This section is similar in appearance to the "102" zones which were intersected in holes AK90-7 and AK90-24, but it does not contain appreciable amounts of quartz and pyrite. The interval of bleached lapilli tuffs from 399.0 to 450.1 metres is thought to be the "103" zone.

Sericitic and chloritic graywackes with irregular chloritic fractures and sporadic narrow quartz \pm pyrite \pm albite veins were intersected from 461.3 to 468.0 metres. This interval is followed by moderately well foliated sericitic conglomerates with no appreciable quartz veining or pyrite mineralization from 468.0 to 478.9 metres. A 6.0 wide interval from 468.0 to 474.0 metres averaged 0.23 g/t Au, but the section with the pyritic quartz veins assayed nil to trace gold. The samples may have been mixed up for this section, but the assays are too low to warrant quartering the core. The interval from 461.3 to 474.0 metres was interpreted initially as the "102" zone. However, holes AK92-43 and 45, which were drilled later above and below hole AK92-39A respectively, indicated the apparent dip of the gold zones to be 80° south versus the earlier interpretation of 87° south, indicating that the initial hole had not been long enough to cross the projected position of the "102" zone. In addition there was weak alteration and geochemically anomalous assays at the very bottom of the hole.

Therefore the hole was re-entered on August 13th and extended 49.3 metres from 507.5 to 556.8 metres to intersect the "102" zone, about 150 metres down dip from the significant intersection in hole AK91-31. Moderately to well foliated sericitic conglomerates, graywackes and tuffs, with 1-3% narrow irregular quartz veins and trace disseminated pyrite were intersected from 505.5 to 517.0 metres. Unfortunately, no well mineralized quartz + pyrite breccia veins were intersected. The interval from 505.5 to 510.0 metres averaged 0.38 g/t Au over 4.5 metres.

A 9.5 metre interval, from 539.5 to 549.0 metres, has 6-8%, 4 to 45 cm wide, off-white to green grey, dense, quartz + carbonate \pm barite (?) \pm celestite (?) veins (which contain trace to 3% galena and trace to 0.5% chalcopyrite) within hematitic, magnetic ash to lapilli tuffs. This apparent fault-related late vein set assayed trace to nil Au.

Hole AK92-43 was planned to test the "102/103" zones at the 550 metre level, 125 metres to the west of hole AK91-38 and 125 metres below and 50 metres to the east of hole AK92-39A. However, it deviated considerably to the west and intersected the "103" zone 75 metres below and 25 metres to the west of the "103" intersection in hole AK92-39A.

A 22.1 metre wide interval, from 448.4 to 470.5 metres, of moderately deformed and sericitic graywackes with weakly pyritic chlorite + albite + quartz veins is interpreted as the "102" zone. There were no anomalous assays from this interval.

From 543.5 to 569.8 metres, the graywackes are dark grey-blue, weakly silicified and contain trace to 2% fine grained pyrite. This interval is interpreted as the "103" zone, but it did not contain any gold + pyrite + quartz breccia veins, similar to those in hole AK92-39A. The interval from 549.0 to 553.0 metres averaged 0.67 g/t Au over 4.00 metres.

A 5.0 metre wide section of moderately well foliated conglomerates from 591.0 to 596.0 metres returned geochemically anomalous gold assays which averaged 0.15 g/t Au. This interval is interpreted to the "104" zone.

The interpreted "103" zones which were intersected in holes AK92-39A and 43 indicate an apparent dip of 80°-82° to the south versus a dip of 87-90° to the south as interpreted from the earlier shallow drill holes on section 81+90E. This apparent change in dip at depth could be due to a "roll" in the structure, flattening with depth as happened along parts of the Kirkland Lake gold-quartz deposit ("Main Break"), or cross faulting. A number of the earlier assignments of mineralization to the various zones have been changed as a result of this revised interpretation of the dip, particularly in those earlier holes with multiple intersections.

Hole AK92-44 was drilled to test the "103" zone at the 600 metre level on section 80+00E. This hole, which deviated considerably to the west and did not flatten as much as AK92-43, intersected the target zone 40 metres further to the west and 80 metres deeper than planned.

The "102" zone was intersected from 640.5 to 648.0 metres where it consists of 1-2% narrow, irregular quartz + chlorite veins with trace pyrite and chalcopyrite in weakly sericitic

graywackes. Geochemically anomalous assays averaging 100 ppb Au over 4.8 metres were returned for the interval from 642.2 to 647.0 metres, at a vertical depth of 605 metres.

Weakly to moderately foliated, sericitic ash tuffs, graywackes and conglomerates with 1-3% narrow quartz + albite veins and trace pyrite were intersected from 730.00 to 737.85 metres. This 7.85 metre wide interval, which is interpreted to be the "103" zone, did not return any anomalous assays.

There are weakly to moderately sericitic graywackes down hole from an apparent 80° southerly dipping shear zone at 774.65 to 775.25 metres to 800.0 metres. These contain 1-3% white quartz veins and 1% blue green chlorite + quartz veins with trace pyrite. This 25.35 metre wide interval is interpreted to be the "104" structure, but no anomalous assays were returned.

Hole AK92-45 tested the "103" zone at the 285 metre level on section 81+00E. This hole intersected a broad zone of alteration and mineralization over a core length of 24 metres from 305.7 to 329.7 metres. This intersection is approximately 140 metres up dip and 40 metres to the east and in the same plane as the significant intersection in the hole AK92-39A. Within this interval, there was a significant mineralized section from 321.0 to 329.5 metres, which averaged 6.35 g/t Au over 8.50 metres, including 23.48 g/t Au and 49.1 g/t Ag over 1.70 metres from 323.3 to 325.0 metres. This 1.70 metre interval consists of a quartz + sulphide breccia vein with 10-15% pyrite, 3-10% galena (average 4.7% Pb) and 0.5-1% chalcopyrite (average 0.34% Cu).

Two additional, narrow mineralized sections were intersected in the hanging wall and assayed 5.11 g/t Au over 0.5 metres from 305.7 to 306.2 metres. The interval from 315.2 to 329.50 metres averaged 4.44 g/t Au over a core length of 14.30 metres.

A 5.05 metre wide interval of moderately sericitic and bleached lapilli tuff from 393.10 to 398.15 metres is interpreted to be the "104" zone. No anomalous assays were returned for this alteration.

Assuming an 80° south dip which is indicated by the "103" zone intersections in holes AK92-39A, 43 and 45, the "102" zone in hole AK92-45 was expected to be encountered at about 230 to 240 metres, where instead there were massive, chloritic, undeformed ash to

lapilli to block tuffs. It is assumed that the "102" structure possibly narrows to a thin, unrecognizable "crack" in hole AK92-45.

Hole AK90-25 was deepened 55.6 metres, from 142.9 metres to 198.5 metres, to test the "103" zone about 160 metres up dip from Hole AK92-45, based on the revised interpretation of the dip of the zones, and the resulting indication that the original hole had not been long enough to intersect the "103" zone, the existence of which was unknown at the time the hole was drilled. Moderately well foliated and sericitic ash to lapilli tuffs and graywackes, with quartz + chlorite "crack and seal" textures and trace pyrite were intersected from 135.5 to 149.55 metres. This interval is thought to be the "103" zone, but the highest assay was only 0.17 g/t Au over 0.60 metres from 144.50 to 145.10 metres.

From 183.30 to 190.00, a 6.70 metre wide interval of chloritic to weakly sericitic graywacke was intersected, containing a weak to moderate "crack and seal" texture, which is associated with hairline to 3 mm wide quartz + chlorite veinlets. This barren interval is interpreted to be the "104" zone in hole AK92-25 Ext.

7.3 Geochemical Analysis

A limited number of trace element analysis of selected samples from the intersections in holes AK92-39A and -40 returned up to 26 g/t Ag, 0.91% Pb and 3.02% Zn. The mineral described as leucoxene in the AK92-39A drill log is probably a white sphalerite. Only traces of arsenic and tellurium were detected in holes AK92-39A and -40. Fifteen samples from the "103" sericitic alteration zone in hole AK92-41 were assayed for lead and zinc to see if the structure is anomalous in these elements when no anomalous gold assays are present. All of these samples returned background contents of 1-8 ppm Pb and 45-68 ppm Zn.

Trace element analysis for the well mineralized vein, which was intersected in hole AK92-45, returned weakly anomalous 40-90 ppm antimony, 140-510 ppm arsenic and 17-54 ppm tellurium.

The dense late veins with up to 3% galena, which were intersected in hole AK92-42 at 547.5 to 548.0 metres, assayed 210 ppm barium, 350 ppm strontium, 5,800 ppm lead and

530 ppm copper. The high density of these veins is possibly a combination of their sulphide, barite and celestite content.

7.4 Discussion of Drill Results

The results of the 1992 drill programmes are significant because the wide and high grade gold intersections in holes AK92-39A and -45 indicate that potentially economic gold mineralization is present in the "103" zone over substantial mineable widths (6.74 g/t Au over 25.70 metres, estimated horizontal width 9.15 metres and 6.35 g/t Au over 8.50 metres, estimated horizontal width 5.10 metres respectively). Together with the somewhat lower grade and narrower intersections in holes AK91-31, -38 and AK92-40, the combined 1991 and 1992 deeper drilling programmes have demonstrated that there is a zone with considerable continuity, especially given the exploration experience from drilling in the district, and the less encouraging results from adjacent holes in the drilling of the original "102" zone discovery. The "103" zone extends from a depth of 200 metres to 600 metres and over a strike extent from 80+50E to 84+00, and is open to the east and west with depth. It is now apparent that the "103" zone is the more immediately obvious zone with potential for developing a body of economic mineralization once sufficient drilling is completed.

There are additional, although weaker, intersections in holes AK-92-42 and -43 which lie just outside this area of the contiguous higher grade mineralization. The distribution of these higher grade intersections is consistent with a shallow plunge of the mineralized zone to the east, especially if the significant intersection in hole AK91-35 is considered to be part of the "103" zone. The narrow intersection in hole AK92-40 (9.47 g/t Au over 0.90 metres) indicates that the overall system is mineralized at depth on section 84+00E and below the initially interpreted barren intersection in hole AK91-32. This earlier hole was probably not drilled far enough to the north to intersect either of the "103" or "104" zones.

The percentage of drill holes which have intersected significant or anomalous mineralization along the "103" zone above the 600 metre level are quite comparable to those experienced historically along the Kirkland Lake gold-quartz deposit, and reported from the Macassa mine (mine geologist, pers. comm.). Of the thirteen holes which have clearly intersected the "103" zone, two holes, or 15%, are strongly mineralized (AK92-39A and -45),

four additional holes (AK91-31, -35, -38 and AK92-40), are significantly mineralized, for a total of 46%, and the remaining seven holes are weakly to non-mineralized (AK90-02, -25, AK91-29, -30, -33, AK92-42 and -43).

Considering the widely-spaced drill intercepts of 75 to 400 metres (average 187 metres or 150 metres if holes 29, 30 and 35 are excluded), the above percentages compare very favourably with the Macassa Mine and other economic vein-hosted gold deposits where "hit" ratios for closer, 15 by 30 metre, drill hole patterns are similar.

Although holes AK92-41 and -44 did not cut any significant mineralization, the weakly pyritic altered zones which were intersected below the 600 metre level, over substantial estimated true widths of up to 18 metres, indicate that the "102/103/104" system extends to a depth of at least 760 metres.

The widely-spaced drilling to date has intersected significant mineralization in three zones, the "102", "103" and "104", within an approximately 100 metre wide variably mineralized, veined, altered and deformed zone which has been traced across the property for a strike length of 1,500 metres. The significant gold intersections in the "102", "103" and "104" zones are shown on a composite section, DC-073, at a scale of 1:2,500.

Although most of the drilling below the 100 metre level is too widely spaced to permit an accurate interpretation, correlation of the "102", "103" and "104" gold zones and/or alteration zones from hole to hole is possible as shown on drill sections DC-045 to 064 at a scale of 1:2,500. Composite drill sections, DC-067, 068 and 069, of the "102", "103" and "104" gold zones indicate that the mineralized zones can be traced to depth from section to section. The drill results indicate an apparent dip of the zone of 80° south (versus a previously interpreted 87° south dip) with possible local "rolls", en echelon lenses, and/or fault offsets of, on average, probably less than 5 metres, but up to 20 metres.

Of the three principal zones, the "102" zone contains the highest grade and widest mineralization above the 200 metre level, although most of the shallow 1990 drill holes were not drilled far enough to the north to intersect the "103" and "104" zones, which were discovered during the later 1991 drilling programme.

Drilling to date has shown the "103" zone to have the most potential between the 200 and 600 metre levels, and the "99", "104" and "101" zones have insufficient drilling to indicate the potential distribution of any mineralization. However, given that the better intersections in the "104" zone are at the east end, and the "101" zone at the west end, it is possible that the mineralization is distributed *en echelon* across the entire "101/102/103/104" zone from the northeast to the southwest.

The local concentrations of sphalerite (hole AK92-39A) and galena (hole AK92-45) together with the absence of a major syenite intrusive association indicate the "102/103/104" mineralized zones may be more comparable to the Upper Canada deposits rather than the Kirkland Lake ore bodies. The "106" and "107" zones, which were intersected in holes AK91-34 and 37, are associated with altered hematitic feldspar porphyritic syenite dykes and may be more comparable to the geological setting of the Kirkland Lake gold-quartz deposits.

8.0 CONCLUSIONS AND RECOMMENDATIONS

Widely spaced drilling below the 200 metre level and to vertical depths of 525 to 760 metres has shown the "102/103/104" structure to have the potential to host an economic gold deposit. However, considerably closer-spaced drilling would be required to determine the average grade, shape, plunge, size and economic potential of the mineralization along the overall "102/103/104" gold zone.

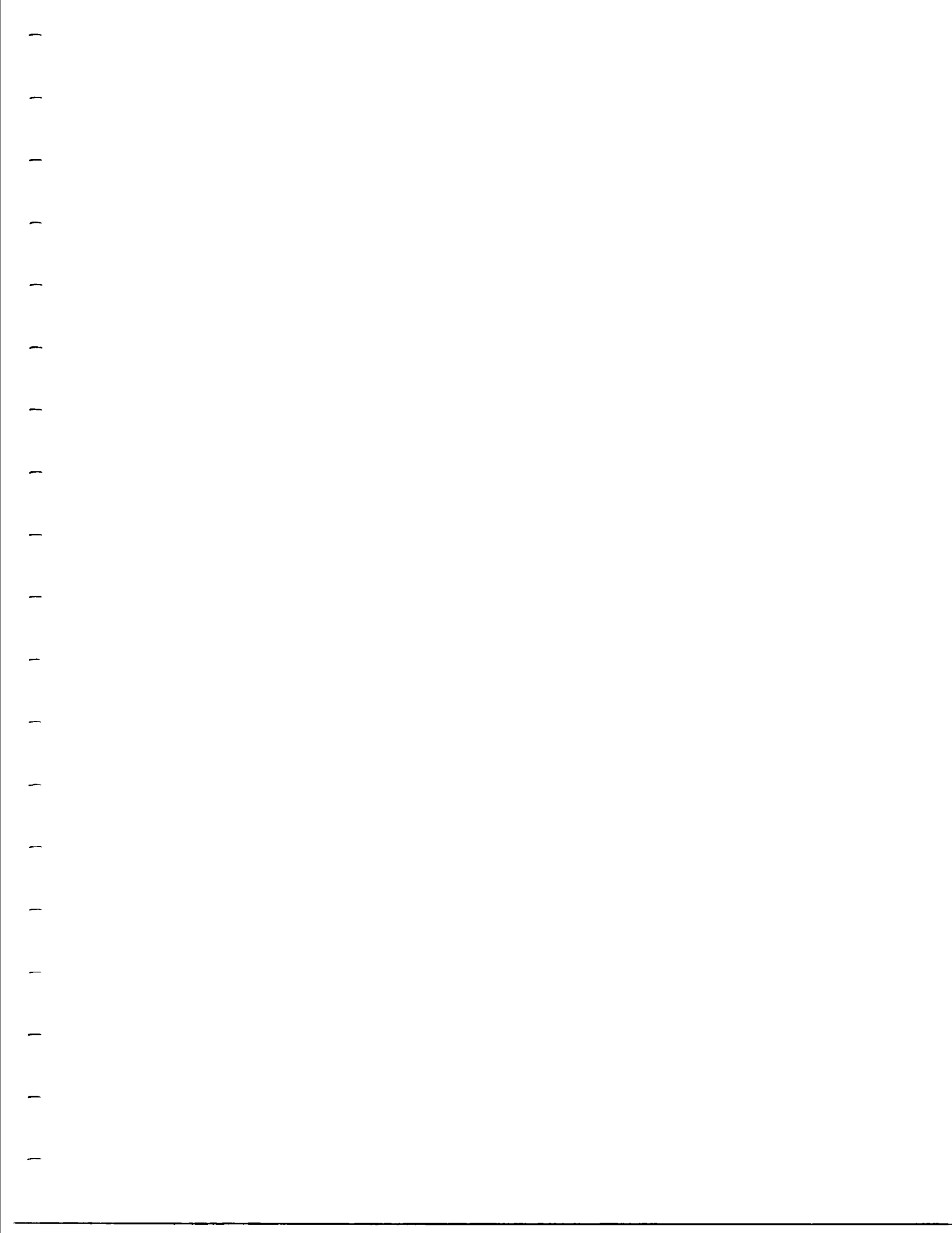
It is recommended that the area from section 79+00E to 84+00E, between the 150 metre and 600 metre levels, be drill tested on a staggered 50 metre horizontal by 100 metre vertical pattern. Further drilling is recommended east and west of this area at a staggered 100 metre horizontal by 200 metre vertical pattern between the 100 metre and 500 metre levels to test the "102/103/104" structure, i.e. from the west of section 79+00E, to the property boundary near 74+00 E, and to the east of section 84+00E, as far as 87+00E, close to the area of influence of the Murdock Creek Fault.

Deeper drilling at the 600-800 metre level is recommended to test the "106" and "107" zones where potentially more favourable and brittle syenite host rocks are present. Further drilling is also warranted along the "99" structure where high grade mineralization was discovered in outcrop in 1990, and which was only followed up by three close-spaced shallow holes, all of which intersected a 5 to 25 metre wide sericitic alteration zone.

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November 18, 1992

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Kirkland Lake Project

Amalgamated Kirkland Drilling, 1992

APPENDIX I
DIAMOND DRILL LOGS

Battle Mountain (Canada) Inc.

November, 1992

BATTLE MOUNTAIN (CANADA) INC. DIAMOND DRILL LOG

HOLE: AK-92-39

PAGE: 1 of 4

PROPERTY Amalgamated Kirkland	DATE LOGGED January 28, 1992	EASTING 8000.0	
TOWNSHIP Teck	LOGGED BY Mark Masson	NORTHING 10380.0	
CLAIM No. L 491650	DRILLED BY Heath & Sherwood	ELEVATION	
STARTED January 22, 1992	CORE LOCATION Kirkland Lake Warehouse	COLLAR SURVEY	
COMPLETED January 26, 1992	DOWNHOLE SURVEYOR B.M.C.I.	LENGTH 82.9	
	SURVEY INSTRUMENT Sperry Sun	UNITS metres	
		CORE SIZE NQ	

PURPOSE To test "102" zone at 500 m. level.

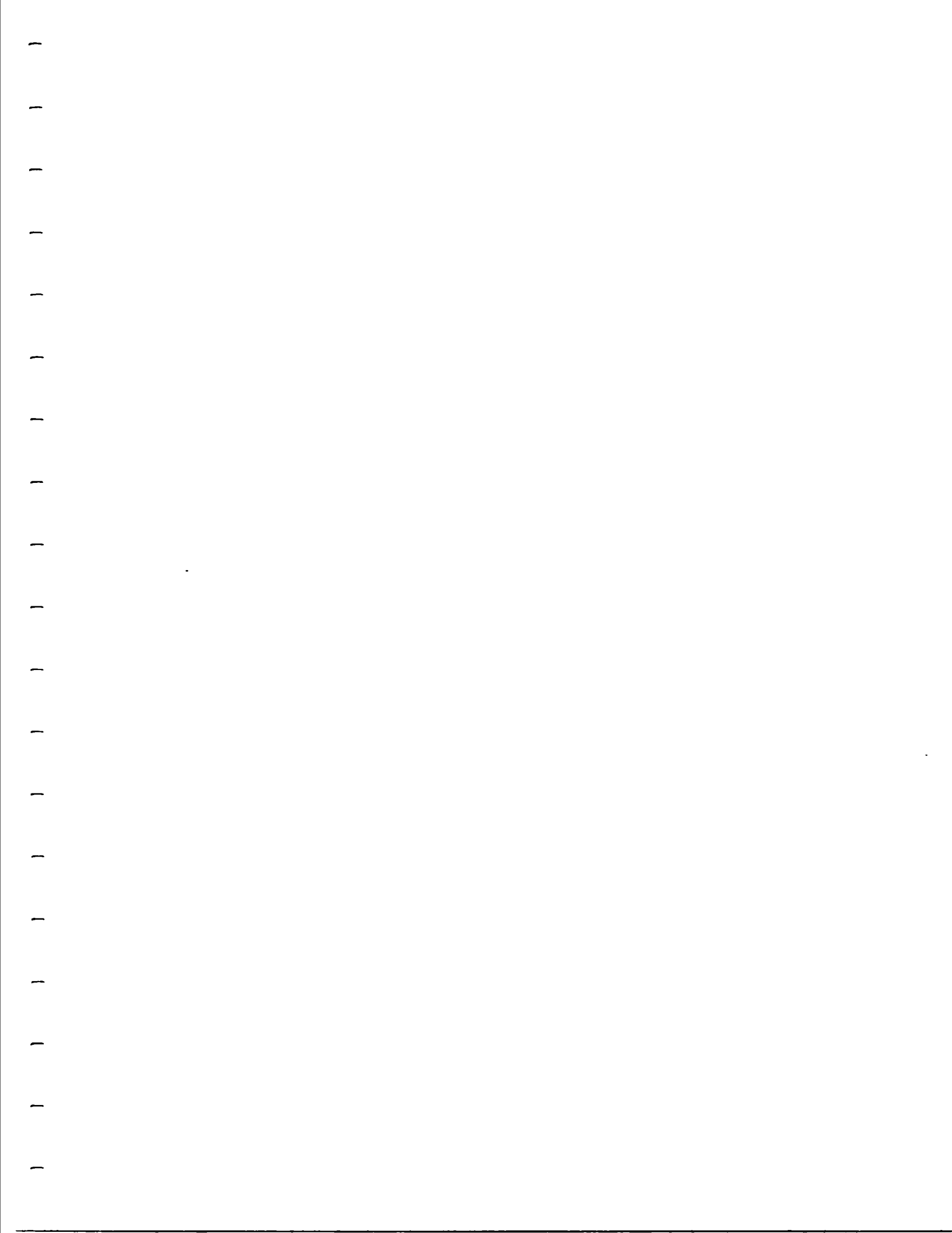
COMMENTS Hole lost @ 82.9 m. due to broken core barrel

SIGNED BY


(W. Benham)

Depth	Method	Azimuth	Dip
Collar	Compass	161	75
23.0			75
61.0	Acid		72
61.0	Sperry Sun	164	72

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	LENGTH in metres	AVERAGE Au g/t	
0.00 3.00	OVERBURDEN					
3.00 20.90	ASH/LAPILLI TUFF					
20.90 23.10	SILTSTONE/MUDSTONE					
23.10 51.00	LAPILLI TUFF					
	31.05 - 31.15 Fault at 60' tca.					
51.00 57.40	SILTSTONE/MUDSTONE					
57.40 62.80	GRAYWACKE					
62.80 78.00	LAPILLI TUFF					
78.00 82.90	SILTSTONE/MUDSTONE/LAPILLI TUFF					
82.90	E. O. H.					
		Note: No		samples were taken.		



BATTLE MOUNTAIN (CANADA) INC. DIAMOND DRILL LOG

HOLE: AK-92-39A

PAGE: 1 of 20

PROPERTY Amalgamated Kirtland
TOWNSHIP Teck
CLAIM No. L 491650, L 491651
STARTED January 25, 1992
COMPLETED February 7, 1992

January 26, 1992 - February 8, 1992
Mark Masson
Heath & Sherwood
Kirtland Lake Warehouse
B.M.C.I.
Sperry Sun

EASTING 7999.0
NORTHING 10378.7
ELEVATION 344.4
COLLAR SURVEY Northland
Technical
609.95
metres
NQ

LENGTH
UNITS
CORE SIZE

PURPOSE To test "102" / "103" structure at 500 m. level.

COMMENTS "103" structure @ 457.40 - 488.00, 30.6 m.
"102" structure @ 536.25 - 536.55, 0.3 m.


(W. Benham)

SIGNED BY

Depth	Method	Azimuth	Dip
Note: See table at end of summary log for downhole surveys			

SUMMARY LOG

INTERVAL		DESCRIPTION	INTERVAL		DESCRIPTION	INTERVAL		AVERAGE Au g/t
From	To		From	To		From	To	
0.00	2.70	OVERBURDEN	242.40	246.00	LAPILLI TUFF	357.00	359.00	0.17
2.70	20.50	ASH TUFF	246.00	348.90	GRAYWACKE	440.00	440.50	0.39
20.50	22.40	20.10 - 20.50	348.90	353.10	329.05 - 329.10	453.00	457.40	0.27
22.40	31.70	SILTSTONE	353.10	372.30	SILTSTONE/MUDSTONE/LAPILLI TUFF	457.40	488.00	5.83
31.70	36.00	LAPILLI TUFF	372.30	424.20	GRAYWACKE	457.40	483.10	6.74
36.00	38.00	ASH TUFF	424.20	426.40	359.30 - 359.50	457.40	483.10	69.20
38.00	44.00	SILTSTONE/LAPILLI TUFF	426.40	439.40	372.15 - 372.30	457.40	483.10	0.61
44.00	49.00	LAPILLI TUFF	439.40	444.40	LAPILLI TUFF	467.00	469.50	1.34
49.00	57.80	GRAYWACKE	444.40	530.00	406.00	469.50	474.00	6.75
57.80	74.20	SILTSTONE/MUDSTONE/GRAYWACKE	530.00		MUDSTONE/SILTSTONE	474.00	479.20	1.35
74.20	78.20	LAPILLI TUFF			Fault @ 70° tca.	479.20	483.10	5.95
78.20	105.80	SILTSTONE/MUDSTONE/GRAYWACKE			Fault @ 70° tca.	483.10	488.00	1.05
105.80	159.30	LAPILLI TUFF			Shear zone @ 65-70° tca.	488.00	491.00	0.23
159.30	167.20	SILTSTONE/GRAYWACKE/LAPILLI TUFF			440.00 - 440.45			
167.20	216.00	163.75 - 164.00			GRAYWACKE			
216.00	220.25	LAPILLI TUFF			457.45 - 458.30			
220.25	225.30	189.25			469.55 - 473.10			
225.30	237.65	SILTSTONE			479.20 - 483.10			
237.65	242.40	LAPILLI TUFF			483.10			
		SILTSTONE/LAPILLI TUFF			488.00			
		GRAYWACKE						
		242.00 - 242.40						
		Fault @ 50° tca.						

ASSAY SUMMARY

BATTLE MOUNTAIN (CANADA) INC. DIAMOND DRILL LOG

HOLE: AK-92-39A

PAGE: 2 of 20

PROPERTY	Amalgamated Kirkland	DATE LOGGED	January 26, 1992 - February 8, 1992	EASTING	7999.0
TOWNSHIP	Teck	LOGGED BY	Mark Mason	NORTHING	10378.7
CLAIM No.	L 491650, L 491651	DRILLED BY	Heath & Sherwood	ELEVATION	344.4
STARTED	January 25, 1992	CORE LOCATION	Kirkland Lake Warehouse	COLLAR SURVEY	Northland
COMPLETED	February 7, 1992	DOWNHOLE SURVEYOR	B.M.C.I.	TECHNICAL	609.95
		SURVEY INSTRUMENT	Sperry Sun	UNITS	metres
				CORE SIZE	NQ

PURPOSE To test "102" / "103" structure at 500 m. level.

COMMENTS "103" structure @ 457.40 - 488.00, 30.6 m.
"102" structure @ 536.25 - 536.55, 0.3 m.

SIGNED BY _____
(W. Benham)

Depth	Method	Admeth	Dip
Note:	See table at end of summary log for downhole surveys		

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
530.00 535.10 539.75	CONGLOMERATE MUDSTONE/SILTSTONE 535.45 - 535.60 Fault @ 55° tca. 536.25 - 536.55 Sheared quartz + pyrite vein @ 80° tca.					
539.75 543.85 550.60 609.95	CONGLOMERATE MUDSTONE GRAYWACKE/CONGLOMERATE 602.60 - 603.10 Fault @ 30° tca.					
609.95	E. O. H.					

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-39A

PAGE: 4 of 20

INTERVAL		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
0.00	2.70	OVERBURDEN										
2.70	20.50	ASH TUFF Chloritic, massive to poorly bedded, dark to light grey-green pristine, undeformed ash tuff comprised of 10-15% fine angular sub-rounded lithic clasts, up to 1-2 mm, in a very fine grained ash groundmass. Unit contains 1-2% scattered angular lapilli clasts, up to 2-3 cm, which are light grey or dark green (mafic) and very fine grained. Patchy strong magnetite. 8.00 - 9.00 Unit displays weak bedding @ 10° tca marked by very fine irregular anastomosing bands 1-2 mm wide. 9.20 Fault @ 20° tca. Chlorite + ankerite. Open vuggy chloritic slip with strong ankeritic staining. 20.10 - 20.50 Fault @ 40 tca. Chlorite + sericite + ankerite + quartz + calcite. Strongly foliated, sericitized tuff pseudo-brecciated by chlorite + quartz + calcite slips and stringers up to 2-3 mm wide. Section has strong ankeritic staining and is quite soft. Strong cross-fault.										
20.50	22.40	SILTSTONE Chloritic, aphanitic, dark green siltstone with poorly developed internal bedding. In part intercalated with narrow lapilli tuff horizons, up to 20 cm wide, which show bedding contacts @ 5-10° tca. Lower contact is very sharp but irregular @ 75° tca.										
22.40	31.70	LAPILLI TUFF Chloritic, massive, grey-green to grey-brown, weakly hematitic, heterolithic lapilli tuff comprised of 5-15% angular lapilli clasts, 0.5-4 cm, in a fine lithic ash matrix. Clasts consist of light grey-buff trachyte and red-pink spotted trachyte in roughly equal proportions with lesser amounts of light green aphanitic volcanics. Patchy strong magnetite. 31.70 Fault @ 20° tca. Chlorite + ankerite + quartz ± calcite. 1 cm wide pink-white quartz calcite vein bounded by sharp chloritic slip planes.										
31.70	38.00	ASH TUFF Massive, fine grained light green ash with very minor scattered lapilli clasts. Weak pervasive sericitization but otherwise very pristine. Pervasive strong magnetite due to very finely disseminated magnetite.	2055	34.00	34.50	0.50	100				0.01	
			2056	34.50	35.00	0.50					0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-39A

PAGE: 6 of 20

INTERVAL		DESCRIPTION	SAMPLE				ASSAYS	
			FROM	TO	Length	%Rec	%Py	%QV
78.20	105.80	<p>SILTSTONE/MUDSTONE/GRAYWACKE Interbedded dark green siltstone with light green mudstone layers up to 10 cm wide. Bedding is somewhat irregular and wispy @ 5-15° tca. Fracture. In part also intercalated with minor graywacke horizons.</p> <p>89.00 Dominantly dark grey to black finely laminated siltstone with very little mudstone component. Bedding swings from 5-15° tca @ 60.0 m to 30° tca @ 90.0 m.</p> <p>105.70 - 105.80 Fault @ 40° tca. Sericite + chlorite + quartz ± albite. 3 cm wide sericite + chlorite abear with 5% bouldinaged and brecciated, grey-white quartz ± albite pods. Matrix contact with tufts.</p>						
105.80	159.30	<p>LAPILLI TUFF Chloritic, massive, medium to dark green heterolithic tuff comprised of 5-10% angular trachyte clasts in a fine grained dirty ash matrix which appears to contain 2-3% very fine light grey altered crystals (possible amphibole). Clasts consist of: 1) 70% light grey to brown trachyte 2) 20% red-pink trachyte and 3) 10% dark green mafic clasts. Clasts range from 0.5 cm to 3-4 cm (avg. 1 cm). Moderate pervasive magnetites. This tuff has a distinctive mottled appearance and frequently elast boundaries are hazy and indistinct from 106 → 125.6 m. Lower contact is a sharp bedding contact @ 35° tca.</p> <p>107.35 - 107.60 Fault @ 25° tca. Sericite + chlorite + quartz ± calcite. Moderately strong cross fault comprised of white-pink fractured quartz ± calcite with strong tight interstitial sericitic alip planes up to 3 mm wide.</p> <p>121.55 - 122.00 Fault @ 35° tca. Sericite + chlorite + quartz ± albite. Weak to moderately foliated sericitized tuff cut by narrow (± 0.5 cm) white-pink quartz veinlets with abrupt alip walls.</p> <p>147.20 3 cm wide quartz + chlorite vein with angular brecciated wall rock fragments up to 1 cm in the chloritic vein material.</p> <p>147.00 - 147.50 Small series of these chlorite breccia veinlets.</p>						

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-39A

PAGE: 7 of 20

INTERVAL		DESCRIPTION	SAMPLE			ASSAYS	
FROM	TO		No.	From To	Length %Rec	%Py %QV %Ser	Au, g/t
159.30	167.20	<p>SILTSTONE/GRAYWACKE/LAPILLI TUFF Dark green aphanitic, chloritic, massive to finely laminated siltstone intercalated with narrow graywacke and lapilli tuff horizons. Graywacke and lapilli tuff beds range from 0.5-25 cm wide and display irregular interfingering. Proximal to these low angle shears, units display a weak to moderate patchy pervasive sericitization. Lower contact is a tight sericite + chlorite shear, 2-3 cm wide, @ 15-20° tca.</p> <p>160.40 - 160.80 Fault @ 20° tca. Sericite + chlorite + calcite. Sharp tight sericite (± talc) + chlorite slips with smeared calcite on slip faces.</p> <p>163.75 - 164.00 Fault @ 10° tca. Sericite + chlorite + quartz + calcite. Strong tight muddy slip with 1-2 cm, milk-white to grey quartz vein which has strong internal sericite slips.</p>					
167.20	200.00	<p>LAPILLI TUFF Chloritic ± sericitic lapilli tuff, massive to weakly foliated @ 10-20° tca down to 172.80 m due to narrow irregular sericitic slips associated with above cross-faulting. Dark grey-green heterolithic tuff comprised of 5-15% angular trachyte clasts from 3 mm - 4 cm (avg. 1 cm) in a dark fine grained sub matrix.</p> <p>Clasts consist of: 1) 60% red-pink trachyte, often porphyritic 2) 25% light grey-green aphanitic trachyte and 3) 15% dark green to black aphanitic volcanics. Displays pervasive moderate to strong magnetica. Lower contact is gradational over 3-4 metres.</p> <p>167.30 - 168.30 Siltstone, dark green chloritic aphanitic siltstone with sharp bedding contacts @ 60° tca.</p> <p>169.25 Fault @ 40° tca. Chlorite + sericite. Strong muddy chloritic slip 2-3 mm wide.</p> <p>169.30 - 191.00 Tuff is fractured by hairline chloritic slips and groundmass is moderately sericitized.</p>					
200.00	216.00	<p>LAPILLI TUFF Chloritic, massive, medium grey-green lapilli tuff comprised predominantly of light grey angular trachyte clasts from 3 mm - 4 cm (avg. 0.5-1 cm). These clasts comprise 80-90% of the clast types present which differs from previous lapilli tuff. Patchy weak to moderate magnetics and moderate pervasive CaCo3 in groundmass. Lower contact sharp @ 50° tca.</p>					

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-39A

PAGE: 8 of 20

INTERVAL		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
216.00	220.25	SILTSTONE Chloritic, massive to finely laminated, dark green aphanitic siltstone with very minor intercalated lapilli tuff horizons up to 20 cm wide. Undeformed, unaltered. Bedding @ 65° tca. Lower contact sharp @ 70° tca.										
220.25	225.30	LAPILLI TUFF Chloritic, massive, dark green heterolithic lapilli tuff with 5-10% angular lapilli clasts in a fine ash matrix. Predominant clast type is 75-80% light grey, fine grained trachyte. Non-magnetic. Lower contact is a sharp, tight sericitic slip @ 35° tca.										
225.30	237.65	SILTSTONE/LAPILLI TUFF Chloritic, massive to finely laminated @ 45° tca. Dark to medium green, aphanitic, undeformed, unaltered. 228.80 Fault @ 30° tca., 2-3 mm wide strong chlorite + sericitic slip. 231.50 - 237.65 Unit becomes intercalated with massive lapilli tuff horizons up to 1 m wide which display sharp interfingering with the sediments.	2062	236.00	237.00	1.00					0.01	
237.65	242.40	GRAYWACKE Chloritic, massive, light to dark green, very fine grained graywacke to quartz arenite. Unit carries trace disseminated pyrite throughout and is cut by 2-3% milk-white to grey barren quartz ± albite veins up to 30 cm wide. Veins are generally very irregular and frequently contain fragments of sericitized graywacke fragments. 238.30 - 238.80 Quartz ± albite + sericitic vein. Very irregular, barren patchy quartz flooding with light green sericitized graywacke at vein contacts. 239.95 - 240.50 Quartz ± albite + sericitic vein. Barren, late quartz. 242.00 - 242.40 Fault @ 50° tca. Sericite + chlorite + quartz + albite. Strong fault zone comprised of 1-3 cm wide chlorite + sericite + quartz, often with gouge within highly foliated sericitized graywacke/tuff.	2063	237.00	237.65	0.65					0.01	
			2064	237.65	238.30	0.65			Tr.		0.01	
			2065	238.30	238.90	0.60			Tr.	45	0.01	
			2066	238.90	239.40	0.50			Tr.	5	0.01	
			2067	239.40	239.90	0.50			Tr.	2-3	0.01	
			2068	239.90	240.50	0.60			Tr.	40	0.01	
			2069	240.50	241.00	0.50			Tr.	5-10	0.01	
			2070	241.00	241.50	0.50			Tr.	1-2	NIL	
			2071	241.50	242.00	0.50			Tr.	1-2	0.01	
			2072	242.00	242.40	0.40			Tr.	5	0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

INTERVAL FROM TO	DESCRIPTION	SAMPLE					ASSAYS			
		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t
320.80 329.05 - 329.10	Fault slip @ 20° tca, strong sericite + gouge slip with 2 cm wide, late barren quartz vein. Fault @ 80° tca. Strong sericite shear with 30% barren white to pink quartz ± calcite. Moderate gouge development.	2121 2122 2123 2124 2125 2126 2127	338.00 339.00 339.60 340.00 340.50 341.00 341.60	339.00 339.60 340.00 340.50 341.00 341.60 342.10	1.00 0.60 0.40 0.50 0.50 0.60 0.50	Tr. Tr. Tr. Tr. Tr. Tr.	1-2 Tr. Tr. Tr. Tr.	1-2 Tr. Tr. Tr.	0.01 0.01 0.03 0.02 0.01 0.02 0.02	
341.50	Fault slip @ 30° tca. Sericite + quartz. 2 cm wide barren grey-white quartz vein on strong sharp sericite slip.	2128 2129	342.10 343.00	343.00 344.00	0.90 1.00	Tr. Tr.	2-3 Tr.	5 Tr.	0.01 0.01	
344.30 - 344.55	Altered sericitized graywacke fractured to pseudo-brecciated by irregular quartz + chlorite ± pyrite veins. Series of ladder-type quartz + chlorite veinlets with traces blebby pyrite @ 25-30° tca (1-4 mm wide) cross cuts earlier set of barren milk-white veins at right angles.	2130 2131 2132 2133 2134 2135 2136	344.00 344.60 345.60 346.10 347.00 348.00 348.50 348.90	344.60 345.60 346.10 347.00 348.00 348.50 348.90	0.60 1.00 0.50 0.90 1.00 0.50 0.40	Tr. Tr. Tr. Tr. Tr. Tr. Tr.	2-3 Tr. Tr. Tr. Tr. 2 5 90	5 Tr. Tr. Tr. Tr. 5 5	0.01 0.01 0.01 0.06 0.02 0.01 0.01	
348.90 353.10	SILTSTONE/MUDSTONE/LAPILLI TUFF Intimately intercalated siltstone, mudstone and lapilli tuff with very sharp and highly irregular bedding contacts at roughly 30-50° tca. All units are moderately pervasively sericitized and lapilli tuff displays strong internal sericite foliation and clast elongation @ 30-40° tca. Lapilli tuff has a quite distinctive clast component which consists of angular mudstone clasts, up to 5 cm wide, moderately well rounded quartz pebbles and dark angular mafic lapilli clasts. Mudstone/siltstone are finely laminated with irregular convoluted bedding and are yellow-green to dark grey respectively.	2137 2138 2139 2140 2141 2142	348.90 349.90 350.50 351.00 351.70 351.70 352.50 353.10	349.90 350.50 351.00 351.70 352.50 353.10	1.00 0.60 0.50 0.70 0.80 0.60	Tr. Tr. Tr. Tr. Tr. Tr.	Tr. Tr. Tr. Tr. Tr. Tr.	10 5-10 5-10 5-10 10-15 10-15	0.01 0.01 0.01 NIL 0.01 0.01	
353.10 372.30	GRAYWACKE Massive to moderately foliated graywacke to pebbly graywacke with 1-2% scattered pebble clasts of mudstone quartz, volcanics and Jasper. Matrix is moderately to pervasively sericitized and has trace disseminated pyrite. 353.10 - 353.45 Fault zone @ 60° tca. Sericite + chlorite + quartz. Strongly foliated sericitized graywacke with sharp sericite + mud gouge fault slip. Section carries 10-15% irregular grey-white quartz veins and pods up to 4-5 cm wide.	2143 2144 2145 2146	353.10 353.60 354.30 355.00 355.00 356.00	353.60 354.30 355.00 356.00	0.50 0.70 0.70 1.00	Tr. Tr. Tr. Tr.	10-15 Tr. Tr. Tr.	40 15-20 10-15 10-15	0.01 0.01 NIL 0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-39A

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INTERVAL FROM TO	DESCRIPTION	SAMPLE				ASSAYS	
		No.	From To	Length %Rec	%Py %QV %Ser	Au, g/t	Au, Check
	Secondary to fault are fine dark green chlorite + quartz + pyrite stringers and fractures @ 30° tca.	2147	356.00 357.00	1.00	Tr: 10-15	0.01	
		2148	357.00 358.00	1.00	Tr: 15-20	0.19	
		2149	358.00 358.50	0.50	Tr: 15-20	0.08	
		2150	358.50 359.00	0.50	Tr: 5 10-15	0.20	
	358.65 - 358.85 Fault breccia @ 30° tca. Chlorite + quartz. Angular grey-white quartz breccia fragments (10%) in a very fine grained dark green chlorite + quartz groundmass.						
	359.30 - 359.50 Fault breccia @ 15° tca. Chlorite + quartz + pyrite. Strong fault breccia with chloritic gouge on walls. 10-15% angular quartz breccia fragments in a very fine chlorite ± quartz groundmass. 1% blebby smeared pyrite on chloritic slip planes.	2151	359.00 359.50	0.50	1 5 10-15	NIL	
	359.60 - 359.80 "Crack & seal" in-situ brecciation of graywacke by irregular chlorite ± quartz stringers, up to 1 cm wide, with trace pyrite.	2152	359.50 360.00	0.50	Tr: 1-2 5-10	0.01	
	359.80 - 372.15 Sporadic fine chlorite ± pyrite stringers and fractures which are 1-3 mm wide and frequently display weak sericitized alteration halos up to 0.5-1 cm from fractures.	2153	360.00 360.50	0.50	Tr: 2-3 5-10	0.02	
		2154	360.50 361.00	0.50	Tr: 3-5 10-15	0.03	
		2155	361.00 361.50	0.50	Tr: 1 5-10	0.04	
		2156	361.50 362.00	0.50	Tr: 5-10	0.03	
		2157	362.00 363.00	1.00	Tr: 5-10	0.01	
		2158	363.00 364.00	1.00	Tr: 5-10	NIL	
		2159	364.00 365.00	1.00	Tr: 5-10	0.01	
		2160	365.00 366.00	1.00	Tr: 5-10	0.01	
		2161	366.00 366.50	0.50	Tr: 5-10	0.01	
		2162	366.50 367.00	0.50	Tr: 1-2 10-15	0.02	
		2163	367.00 368.00	1.00	Tr: 10-15	0.03	
		2164	368.00 369.00	1.00	Tr: 5-10	0.01	
		2165	369.00 370.00	1.00	Tr: 5-10	0.01	
		2166	370.00 371.00	1.00	Tr: 5-10	0.01	
		2167	371.00 372.00	1.00	Tr: 10-15	0.03	
		2168	372.00 372.50	0.50	Tr: 1 1-2 10-15	0.11	
372.30	424.20						
	LAPILLI TUFT Sericitized, bleached, massive to moderately foliated lapilli tuft with clast elongation @ 45° tca. Groundmass is light grey-green to brown, very fine grained to aphanitic with 2-3% black subhedral crystals to 1 mm (amphibole?). Groundmass is moderately pervasively sericitized. Clasts						

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-39A

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		comprise ~ 5% of unit and consists of black spotted to dark grey aphanitic trachyte. Frequently clear boundaries are hazy and diffuse, apparently due to groundmass alteration. Unit has 2-3% black hairline chlorite alips @ 55° tca and fine chloritic cracks which appear to carry very finely disseminated pyrite. Lower contact of unit is a sharp intact bedding contact @ 55° tca.	2169	372.50	373.00	0.50			Tr.	10-15	0.07	
		376.20 - 376.80 Sericite shear @ 25° tca. Well foliated sericitized tuff, 25° tca, cut by a series of strong, tight chlorite + quartz alips @ 40° tca which carry trace smeared pyrite.	2170	373.00	374.00	1.00			Tr.	10-15	0.02	
		395.20 Fault @ 45° tca. Chlorite + sericite + quartz + calcite. Open, vuggy, 2 cm wide, shear with minor euhedral pyrite ± calcite in small cavities.	2171	374.00	374.60	0.60			Tr.	2	0.05	
		406.00 Fault @ 70° tca. Sericite + quartz. 1 cm wide strong sericite schist with sharp muddy contacts.	2172	374.60	375.10	0.50			Tr.	10-15	0.03	
			2173	375.10	376.00	0.90			Tr.	10-15	0.03	
			2174	376.00	377.00	1.00			Tr.	1-2	0.08	
			2175	377.00	378.00	1.00			Tr.	1-2	0.03	
			2176	378.00	379.00	1.00			Tr.	10-15	0.04	
			2177	379.00	380.00	1.00			Tr.	10-15	0.01	
			2178	380.00	381.00	1.00			Tr.	10-15	0.01	
			2179	381.00	382.00	1.00			Tr.	10-15	NIL	
			2180	382.00	383.00	1.00			Tr.	10-15	0.01	
424.20	426.40	MUDSTONE/SILTSTONE Aphanitic yellow-green mudstone finely laminated @ 55° tca and dark grey siltstone. Beds are somewhat irregular and convoluted and vary from 1-2 mm to 5-10 cm wide. Lower contact sharp, regular bedding contact.										
426.40	439.40	GRAYWACKE Massive, fine grained, light to medium grey-green. Well sorted, very clean and comprised of 60% quartz and 30-40% lithics (≤ 1 mm). In places weak bedding seems to be defined by 1-2 mm wide, discontinuous pyrite seams @ 70-80° tca. Lower contact is sharp, somewhat irregular and interfingered @ 70° tca.										
		430.10 - 430.40 1.5-2 cm wide albite + quartz vein @ 35° tca with trace - 0.5% galena crystals, up to 1.5 mm, trace pyrite and chalcocopyrite. The vein is fractured and faulted by 0.5-1 mm dark green-black chlorite veinlets @ 40-80° tca.	11905	429.00	430.00	1.00			Tr.	2-3	NIL	
			11906	430.00	430.50	0.50			Tr.		0.01	
			11907	430.50	431.50	1.00			Tr.		0.01	
			11908	431.50	432.50	1.00			Tr.		0.01	
			2181	432.50	433.00	0.50			Tr.		0.03	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-39A

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS					
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check	
		433.40	2182	433.00	433.50	0.50		Tr.	1	Tr.	0.01		
			2183	433.50	434.10	0.60		Tr.			0.01		
		434.10 - 434.85	2184	434.10	434.90	0.80		Tr.	1-2		0.01		
			2185	434.90	435.50	0.60		Tr.	Tr.		0.01		
			2186	435.50	436.00	0.50					0.01		
			2187	436.00	436.50	0.50		Tr.	Tr.		0.01		
			2188	436.50	437.00	0.50		Tr.	Tr.		0.01		
			2189	437.00	437.50	0.50		Tr.	Tr.		0.01		
			2190	437.50	438.00	0.50		Tr.	Tr.		0.01		
			2191	438.00	438.90	0.90		Tr.	Tr.		NIL		
			2192	438.90	439.40	0.50		Tr.	Tr.		NIL		
439.40	444.40	MUDSTONE Yellow-green, soft sericitic sphanitic mudstone with finely interbedded siltstone. Bedding ranges from 1-2 mm to 5-10 cm wide. Well bedded @ 75° tca. Mudstones are cut by 1-2% irregular milk-white quartz + albite veins which frequently have very fine grained blue-grey spots and stringers which appear to be fine quartz + pyrite ± galena. i.e. @ 441.70 - 442.80.	2193	439.40	440.00	0.60		Tr.	1	50	0.03		
			2194	440.00	440.50	0.50		Tr.-1	15	50 +	0.39		
		440.00 - 440.15	2195	440.50	441.00	0.50		Tr.	1		0.03		
			2196	441.00	441.70	0.70		Tr.	1-2		0.02		
			2197	441.70	442.20	0.50		1	5		0.05		
			2198	442.20	443.00	0.80					0.01		
			2199	443.00	443.70	0.70					NIL		
			2200	443.70	444.40	0.70					0.01		
444.40	530.00	GRAYWACKE Massive, very fine grained, non-deformed, medium grey-green graywacke with very minor scattered mudstone pebbles. Weak pervasive spotty sericite. Trace disseminated pyrite bands (primary?) throughout. Very clean with very minor narrow, ≤ 1 cm, quartz + albite ± pyrite veinlets. Lower contact of unit is gradational over 0.5 metre.	2201	444.40	445.00	0.60		Tr.				NIL	
			2202	445.00	446.00	1.00		Tr.			0.02		
			2203	446.00	447.00	1.00		Tr.	Tr.		0.01		
			2204	447.00	448.00	1.00		Tr.			0.02		
			2205	448.00	449.00	1.00		Tr.			0.01		
			2206	449.00	450.00	1.00		Tr.			0.02		
			2207	450.00	450.50	0.50		Tr.			0.02		
			2208	450.50	451.00	0.50		Tr.	1		0.05		

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

INTERVAL FROM TO	DESCRIPTION	SAMPLE					ASSAYS				
		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
453.15	3 cm wide, irregular quartz + albite vein with angular included wall rock fragments which tend to be replaced by 1-2%, very fine grained pyrite.	2209	451.00	451.50	0.50			Tr.			0.01
		2210	451.50	452.00	0.50			Tr.			0.02
		2211	452.00	452.50	0.50			Tr.			0.04
		2212	452.50	453.00	0.50			Tr.			0.02
		2213	453.00	453.50	0.50			1	1-2		0.17
		2214	453.50	454.00	0.50			Tr.			0.03
		2215	454.00	454.50	0.50						0.13
		2216	454.50	455.00	0.50			Tr.			0.06
		2217	455.00	455.50	0.50			Tr.			0.15
		2218	455.50	456.00	0.50			Tr.			0.30
		2219	456.00	456.75	0.75			Tr.			0.88
		2220	456.75	457.40	0.65			Tr.			0.15
456.80 - 457.45	Mudstone, massive soft sericitic yellow-green mudstone. Lower contact is a very sharp hairline slip @ 40" tca.	2221	457.40	457.85	0.45			2-3	80		63.70
		2222	457.85	458.35	0.50			2-3	80		137.42
457.45 - 458.30	Quartz + Pyrite + Visible Gold Vein. Sharp upper contact marked by quartz + chlorite slip @ 40". Lower contact is a sharp vein contact @ 20" tca. Blue grey quartz breccia vein or silicified zone with strong fine internal micro-fracturing on which 1-2% fine grained patchy pyrite and 15-20 patches of Visible Gold, 0.5-2 mm wide, are readily recognizable. Fracturing and brecciating this grey-blue quartz is a later 5%, white-grey quartz + albite vein system which carries angular inclusions of mineralized quartz. In places remnant graywacke, quartz + jasper, can be recognized within this silicified zone. Note: Samples 2221, 2222 and 2223 were entirely pulverized and homogenized before being assayed. Two 1 assay-ton aliquots were assayed for samples 2221 and 2222 and one 1 assay-ton aliquot was assayed for sample 2223.										
458.30 - 489.50	Graywackes are light grey-green and massive with a weak to moderate pervasive sericitization of groundmass evident. In places where unit contains scattered pebbles (pebbly graywacke) select clasts are fuchsite (volcanic) and some appear to be replaced by fine pyrite. Unit has trace-1% fine grained disseminated pyrite in groundmass. Graywacke has 2-3%, 0.5-2 cm wide, sericitic mudstone rip-up clasts which are 10-90% replaced by fine grained pyrite ± quartz ± chlorite.										
458.30 - 458.90		2223	458.35	458.90	0.55			Tr.-0.5			11.76
		2224	458.90	459.50	0.60			Tr.			0.37
		2225	459.50	460.00	0.50			Tr.			0.27

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-39A

PAGE: 16 of 20

INTERVAL	DESCRIPTION	SAMPLE					ASSAYS		
		FROM	TO	Length	%Py	%QV	%Ser	Au, g/t	Au, Check
		2226	460.00	460.50	0.50	Tr.		0.34	
		2227	460.50	461.00	0.50	Tr.		0.49	
		2228	461.00	461.50	0.50	Tr.		0.52	
		2229	461.50	462.00	0.50	Tr.		0.40	
		2230	462.00	462.50	0.50	Tr.		0.88	
		2231	462.50	463.00	0.50	Tr.		0.90	
		2232	463.00	464.00	1.00	Tr.-0.5		1.41	
		2233	464.00	465.00	1.00	Tr.		0.45	
		2234	465.00	466.00	1.00	Tr.		0.69	
		2235	466.00	467.00	1.00	Tr.		0.27	
467.25	1 cm wide quartz + albite vein @ 40° tea. Grey-white sugary vein with 1-2% fine grained pyrite, traces chalcopyrite and blue-grey borders possibly with fine grained galena.	2236	467.00	467.50	0.50	Tr.-1	Gal. Cp.	2.47	
		2237	467.50	468.00	0.50	Tr.	1	2.33	
		2238	468.00	469.00	1.00	Tr.	Tr.	1.20	
		2239	469.00	469.50	0.50	Tr.		0.51	
467.25 - 485.00	There is a set of quartz + albite + pyrite ± galena ± chalcopyrite veins @ 5-20° tea. These veins range from 1-2 mm to 1-2 cm wide.								
469.55 - 469.65	3-5% patchy, pyrite mineralization adjacent to a weak hairline slip @ 50° tea.	2240	469.50	470.00	0.50	1-2	1	3.22	
469.65 - 470.00	Graywacke carries 1% disseminated pyrite.								
470.15 - 470.80	Quartz + albite + pyrite (1-2%) ± galena vein @ 10° tea. 1.5 cm wide, grey quartz breccia vein with angular quartz breccia fragments to 0.5 cm within vein. Pyrite occurs on small hairline fractures extending into adjacent wall rock. Vein boundary is a blue-grey, pyrite ± galena mix, up to 1-2 mm wide.	2241	470.00	471.00	1.00	1-2	2-3	15.64	15.70
		2242	471.00	472.00	1.00	Tr.-1		2.57	
		2243	472.00	473.00	1.00	Tr.-1	1	1.85	
473.20 - 473.85	5% grey-white quartz stringer (stockwork) zone within moderately sericitized pebbly graywacke. Section contains 1-2% patchy blebby pyrite and small, 1 mm wide, pyritic bands. Vein material is somewhat barren of pyrite but contains 0.5% small pyritic patches.	2244	473.00	473.50	0.50	1-2	3	7.06	
		2245	473.50	474.00	0.50	1-2	3-5	10.31	
		2246	474.00	475.00	1.00	Tr.		1.61	
		2247	475.00	476.00	1.00	Tr.		2.81	
		2248	476.00	477.00	1.00	Tr.	1	0.27	
		2249	477.00	478.00	1.00	Tr.		1.85	
		2250	478.00	478.60	0.60	Tr.		0.41	
		2251	478.60	479.20	0.60	Tr.		0.38	
479.20 - 480.10	Quartz + pyrite breccia veining (stockwork) 5-10% irregular blue-grey to white brecciated quartz intruding moderately well foliated sericitic pebbly graywacke. Breccia veins have strong internal fracturing which contain 1-3% fine grained pyrite.	2252	479.20	479.60	0.40	1-2	2-3	9.67	25
		2253	479.60	480.10	0.50	2-3	5-7	8.81	25
		2254	480.10	480.80	0.70	Tr.	Tr.	1.47	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-39A

PAGE: 17 of 20

INTERVAL FROM TO	DESCRIPTION	SAMPLE					ASSAYS				
		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
480.80 - 481.10	3-5% blue-grey to white quartz breccia stringers up to 1 cm wide with 1% pyrite and trace galena. Very irregular stockwork @ 40-70° tca.	2255	480.80	481.30	0.50		Tr.-1	3		13.94	13.20
482.60 - 483.10	Quartz + albite + pyrite + galena + leucosene vein @ 10° tca. 1-2 cm wide, irregular vein with 1-2% subhedral galena. Vein is smeared with 3-5%, dirty brown leucosene.	2256 2257 2258 2259 2260 2261 2262 2263 2264 2265	481.30 482.00 482.50 483.10 484.00 485.00 486.00 487.00 488.00 488.50 489.00	482.00 482.50 483.10 484.00 485.00 486.00 487.00 488.00 488.50 489.00	0.70 0.50 0.60 0.90 1.00 1.00 1.00 1.00 0.50 0.50		Tr. Tr. Tr.-1 Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr.	Tr. Tr. 2-3		3.91 4.18 3.72 0.55 0.48 0.62 1.92 1.65 0.55 0.65	
488.10 - 488.95	Unit is cut by 2-5% irregular anastomosing quartz + chlorite ± pyrite (trace) stringers up to 2 cm wide @ 5-20° tca.	2266	489.00	489.50	0.50		Tr.	2-3		0.27	
488.95 - 489.50	Massive sericitic mudstone with minor intercalated siltstone @ 60° tca.	2267	489.50	490.00	0.50					0.10	
489.40 - 489.50	Fault @ 70° tca. Quartz + sericite ± pyrite. 7-8 cm wide quartz + albite vein with strong internal sericitic suturing and 1% blue-black quartz lamellae which carry 1% fine grained pyrite. Gives vein a partial banded appearance.	2268 2269 11909 11910 11911 11912 11913	490.00 491.00 492.00 493.00 494.00 495.00 496.00 496.50	491.00 492.00 493.00 494.00 495.00 496.00 496.50	1.00 1.00 1.00 1.00 1.30 1.00 0.50				0.10 0.07 0.02 0.02 0.02 0.02 0.09		
496.30 - 496.65	2-3%, 0.1-1 cm irregular, discontinuous white albite + quartz veinlets. Trace disseminated pyrite in graywacke matrix.	11914	496.80	497.40	0.60		Tr.			0.03	
496.65 - 496.75	Blue-grey to white, 2.5-3 cm wide, foliated pyrite + quartz vein @ 45° tca with 2-3% pyrite veinlets. Trace pyrite and dark grey alification in wall rock over 5 cm above and below vein.	11915 11916 11917 11918	497.40 498.00 499.00 500.00 501.00	498.00 499.00 500.00 501.00	0.60 1.00 1.00 1.00		Tr. Tr.			0.02 0.03 0.02 0.02	
496.75 - 500.20	Trace pyrite in scattered 0.5-1 mm wide fractures @ 0-60° tca.	2270 2271 2272 2273 2274	524.00 524.50 525.00 525.50 526.00	524.50 525.00 525.50 526.00	0.50 0.50 0.50 0.50		Tr. Tr. Tr.-05 Tr.			0.07 0.02 0.02 0.01 0.02	
525.05 - 525.15	Quartz + albite + sericite + pyrite vein @ 30°. 4-5 cm wide milk-white to grey vein with strong, internal sericitic laminations and 0.5-1% subhedral spotty pyrite.							2	Tr.		

BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG

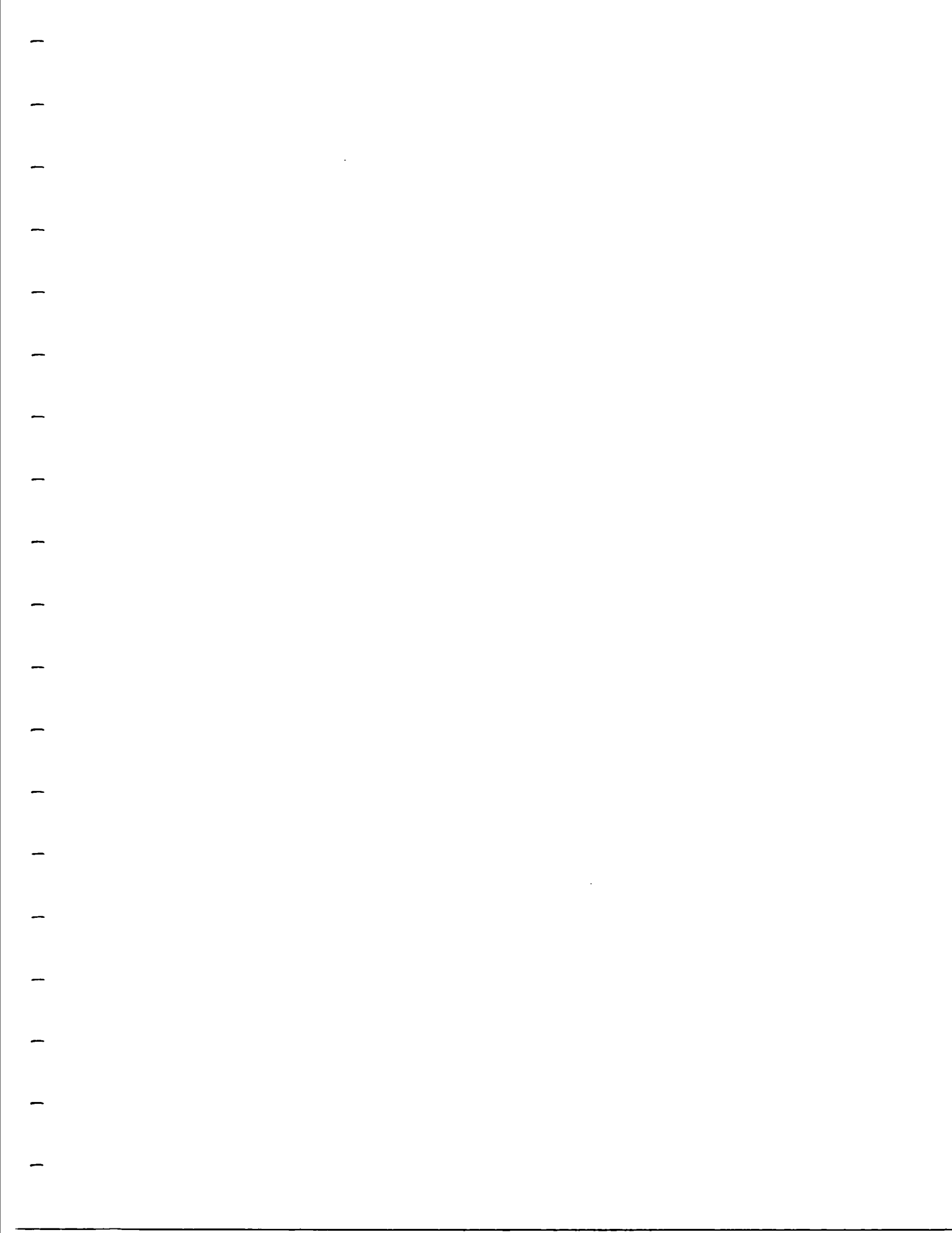
INTERVAL		DESCRIPTION	SAMPLE					ASSAYS					
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check	
530.00	535.10	<p>CONGLOMERATE Bleached, sericitic, massive to weakly foliated, light green polymictic pebble conglomerate. Comprised of poorly sorted, well rounded pebbles from 0.5-10+ cm wide, generally tightly packed framework supported in a moderately sericitized graywacke matrix. Lower contact is a strong sharp chloritic slip @ 70° tca with moderate gouge developed.</p> <p>MUDSTONE/SILTSTONE Massive, very fine grained to sphanitic, dark grey mudstone/ siltstone. Weak foliation @ 40° tca. Lower contact of unit is sharp @ 60° tca.</p> <p>535.45 - 535.60 Fault @ 55° tca. Sericite + quartz. Strongly sheared, sericitic mudstones (button core) with strong sharp sericitic mud gouge alips and minor quartz ± chlorite veinlets. Broken rubbly.</p> <p>535.90 Fault @ 70° tca. Sericite ± chlorite + quartz. 0.5 cm wide barren quartz with strong mud gouge alip faces.</p> <p>536.25 - 536.55 Sheared, fractured quartz vein @ 80° tca. Dark grey to white silicified zone with strong internal sericitic suturing and highly deformed sheared mudstone gouge. Vein contains trace to 1% fine grained pyrite on fractures and sericitic suturing. Somewhat rubbly with sharp abrupt contact.</p>	2275	526.50	527.00	0.50		Tr:	2-3		0.02		
			2276	527.00	528.00	1.00		Tr:	Tr:		0.01		
			2277	528.00	529.00	1.00		Tr:	2-3		0.01		
			2278	529.00	529.70	0.70		Tr:			0.03		
			2279	529.70	530.30	0.60					0.13		
			2280	530.30	531.00	0.70					0.02		
			2281	531.00	531.50	0.50					0.01		
			2282	531.50	532.00	0.50		Tr:			0.01		
			2283	532.00	533.00	1.00					0.09		
			2284	533.00	534.00	1.00					0.03		
		2285	534.00	534.50	0.50					0.01			
		2286	534.50	535.10	0.60					0.01			
535.10	539.75	<p>535.45 - 535.60 Fault @ 55° tca. Sericite + quartz. Strongly sheared, sericitic mudstones (button core) with strong sharp sericitic mud gouge alips and minor quartz ± chlorite veinlets. Broken rubbly.</p> <p>535.90 Fault @ 70° tca. Sericite ± chlorite + quartz. 0.5 cm wide barren quartz with strong mud gouge alip faces.</p> <p>536.25 - 536.55 Sheared, fractured quartz vein @ 80° tca. Dark grey to white silicified zone with strong internal sericitic suturing and highly deformed sheared mudstone gouge. Vein contains trace to 1% fine grained pyrite on fractures and sericitic suturing. Somewhat rubbly with sharp abrupt contact.</p> <p>CONGLOMERATE Massive to weakly foliated @ 40° tca, matrix supported polymictic pebble conglomerate. Weak to moderate sericitization evident as spotty sericite in groundmass and selective sericitization of some clast types generally mudstones. Very minor disseminated pyrite in groundmass.</p> <p>543.00 - 543.30 Fault zone @ 40° tca. Sericite + chlorite ± pyrite. Foliated fractured conglomerate with strong, 0.5 mm</p>	2287	535.10	535.60	0.50	95	Tr:			0.02		
			2288	535.60	536.10	0.50					0.03		
			2289	536.10	536.55	0.45	95	0.5-1	30	40-50	0.03		
			2290	536.55	537.10	0.55					0.03		
			2291	537.10	538.00	0.90					0.02		
			2292	538.00	539.00	1.00					0.02		
			2293	539.00	539.75	0.75					0.03		
539.75	543.85		<p>539.75 - 540.50 Fault zone @ 40° tca. Sericite + chlorite ± pyrite. Foliated fractured conglomerate with strong, 0.5 mm</p>	2294	539.75	540.50	0.75		Tr:		0.03		
				2295	540.50	541.00	0.50					0.02	
				2296	541.00	542.00	1.00					0.02	
		2297		542.00	543.00	1.00					0.03		
		2298		543.00	543.50	0.50		Tr:	Tr:	30	0.01		
		2299		543.50	544.00	0.50					0.02		

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-39A

PAGE: 19 of 20

INTERVAL		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
543.85	550.60	MUDSTONE wide, irregular sericitic fracturing leading to strong mud fault @ 543.25 m. Minor patchy blebby pyrite.	2300	544.00	545.00	1.00					0.01	
550.60	609.95	GRAYWACKE/CONGLOMERATE Massive, dark grey sphanitic mudstone. Pristine, undeformed. Lower contact sharp and intact @ 75' tca. Chloritic, weakly sericitized, very clean, well sorted graywacke which is massive to weakly bedded @ 70' tca. Intercalated with minor conglomerate horizons, up to 2 m wide, which generally have gradational contacts. 575.10 - 575.25 Fault @ 75' tca. Sericite + chlorite + quartz. Moderately strong, sericitic shear with sharp tight slip contacts. Contains 20% barren white quartz flooding. 602.60 - 603.10 Fault @ 30' tca. Strong cross-fault with chlorite + quartz ± calcite + pyrite. Strongly fractured to pseudo-brecciated, white to pink quartz ± calcite veining with strong internal chlorite + sericite suturing. Very minor pyrite on fractures. 603.05 0.5 cm wide mud gouge.	2301 2302	602.00 602.60	602.60 603.10	0.60 0.50		Tr.	60		0.03 0.01	
609.95		E. O. H. Casing left in hole.	2303 2304	603.10 604.00	604.00 605.00	0.90 1.00		Tr. Tr.	1-2	0.07 0.03		
		Additional Assays										
		Sample No.										
		2222	Pb (ppm)	704	Zn (ppm)	368						Tg (ppm)
		2255		3,200		506						1
		2258		9,150		30,200						6
												1



BATTLE MOUNTAIN (CANADA) INC. DIAMOND DRILL LOG

HOLE: AK-92-40

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	February 9, 1992 - February 25, 1992
TOWNSHIP	Teck	LOGGED BY	Mark Mason
CLAIM No.	L 491662, L 491663	DRILLED BY	Heath & Sherwood
STARTED	February 8, 1992	CORE LOCATION	Kirkland Lake Warehouse
COMPLETED	February 24, 1992	DOWNHOLE SURVEYOR	B.M.C.I.
		SURVEY INSTRUMENT	Sperry Sun

Depth	Method	Azimuth	Dip
Notes:			
See table at end of summary log for downhole surveys			

EASTING
NORTHING
ELEVATION
COLLAR SURVEY
LENGTH
UNITS
CORE SIZE


 (W. Benham)

SIGNED BY

PURPOSE To test "102" / "103" structure at 500 m. level.
 COMMENTS "102" / "103" structure @ 607.80 - 641.90, 34.1 m.

SUMMARY LOG			ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t	
0.00 5.20	OVERBURDEN				
5.20 34.60	GRAYWACKE				
34.60 45.00	CONGLOMERATE				
45.00 68.60	LAPILLI TUFF				
68.60 83.80	GRAYWACKE				
83.80 118.00	LAPILLI TUFF				
	83.80 - 84.00 Fault breccia.				
	92.70 Fault @ 45° tca.				
118.00 125.90	GRAYWACKE				
125.90 126.75	MUDSTONE/SILTSTONE				
126.75 133.10	CONGLOMERATE				
133.10 138.85	GRAYWACKE				
138.85 294.60	CONGLOMERATE				
	195.20 Fault @ 30° tca.				
	293.00 Fault @ 40° tca.				
294.60 327.70	GRAYWACKE/SILTSTONE/CONGLOMERATE				
	303.70 - 303.95 Fault @ 10° tca.				
	309.00 - 309.20 Fault @ 65° tca.				
327.70 356.80	CONGLOMERATE				
	355.50 - 355.70 Fault @ 25° tca.				
356.80 360.25	GRAYWACKE/SILTSTONE/MUDSTONE				
	357.10 - 360.25 Quartz + calcite + pyrite veins @ 45° tca. Trace pyrite. Silicified and sheared mudstone.				
	CONGLOMERATE				
	366.60 - 366.90 Fault @ 15° tca.				
	GRAYWACKE/SILTSTONE				
	371.25 - 372.00 Silicified graywacke. Sheared @ 30° tca. Trace pyrite.				
	CONGLOMERATE				
	LAPILLI TUFF				
	CONGLOMERATE				
	491.60 - 492.00 Fault @ 15° tca.				
	LAPILLI TUFF				
	517.00 - 517.30 Fault @ 15° tca.				
	LAPILLI TUFF				
	Sericitic.				
	LAPILLI TUFF				
	Hematitic.				
	LAPILLI TUFF				
	Sericitic.				
	MUDSTONE/GRAYWACKE				
	CONGLOMERATE				
	360.25 371.25				
	371.25 375.40				
	375.40 392.00				
	392.00 414.00				
	414.00 492.00				
	492.00 551.00				
	551.00 579.30				
	579.30 594.70				
	594.70 603.50				
	603.50 606.00				
	606.00 608.50				
607.80 608.70			0.90	9.47	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-40

PAGE: 2 of 19

PROPERTY	Amalgamated Kirkland	DATE LOGGED	February 9, 1992 - February 25, 1992	EASTING	8395.0
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10433.4
CLAIM No.	L 491662, L 491663	DRILLED BY	Heath & Sherwood	ELEVATION	327.4
STARTED	February 8, 1992	CORE LOCATION	Kirkland Lake Warehouse	COLLAR SURVEY	Northland
COMPLETED	February 24, 1992	DOWNHOLE SURVEYOR	B.M.C.I.	LENGTH	716.4
		SURVEY INSTRUMENT	Sperry Sun	UNITS	metres
				CORE SIZE	NQ

PURPOSE To test "102" / "103" structure at 500 m. level.

COMMENTS "102" / "103" structure @ 607.80 - 641.90, 34.1 m. **SIGNED BY** _____
(W. Benham)

Depth	Method	Admath	Dip
Note: See table at end of summary log for downdip surveys			

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
607.90 - 608.25	1% pyrite, silicified.	716.40	E. O. H.			
608.25 - 608.50	Quartz + pyrite breccia vein @ 30° tca, 1-3% pyrite.					
608.50 - 617.40	LAPILLI TUFF Sericitic.					
617.40 - 621.70	608.50 - 608.70 2-3% pyrite + quartz veinlets.					
621.70 - 639.60	MUDSTONE/SILTSTONE LAPILLI TUFF					
	619.00 - 633.50 Sericitic.					
	633.50 - 637.50 Hematitic.					
	637.50 - 639.60 Sericitic.					
	638.60 - 638.70 Fault @ 45° tca.					
639.60 - 641.90	GRAYWACKE/MUDSTONE Sericitic.					
	641.60 - 641.90 1-2% blue-grey quartz veinlets, trace pyrite.					
641.90 - 715.00	GRAYWACKE 662.10 Fault @ 65° tca, trace pyrite + 1-2% quartz veinlets.					
	691.90 - 692.35 Quartz + sericitic vein, trace pyrite, chalcopyrite.					
715.00 - 716.40	CONGLOMERATE					

BATTLE MOUNTAIN (CANADA) INC. DIAMOND DRILL LOG

HOLE: AK-92-40

PAGE: 3 of 19

PROPERTY	Amalgamated Kirtland	DATE LOGGED	February 9, 1992 - February 25, 1992
TOWNSHIP	Teck	LOGGED BY	Mark Mason
CLAIM No.	L 491662, L 491663	DRILLED BY	Henth & Sherwood
STARTED	February 8, 1992	CORE LOCATION	Kirtland Lake Warehouse
COMPLETED	February 24, 1992	DOWNHOLE SURVEYOR	B.M.C.I.
		SURVEY INSTRUMENT	Sperry Sun

EASTING	8395.0
NORTHING	10433.4
ELEVATION	327.4
COLLAR SURVEY	Northland Technical
LENGTH UNITS	716.4 metres
CORE SIZE	NQ

PURPOSE To test "102" / "103" structure at 500 m. level.

COMMENTS "102" / "103" structure @ 607.80 - 641.90, 34.1 m. _____
(W. Benham)

Depth	Method	Azimuth	Dip
Notes:	See table below for all downhole surveys		

SUMMARY LOG				ASSAY SUMMARY																																																																																	
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t																																																																												
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**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-40

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INTERVAL FROM TO	DESCRIPTION	SAMPLE				ASSAYS	
		No.	From To	Length %Rec	%Py %QV %Ser	Au, g/t	Au, Check
114.80	Strong, sharp, 1-2 mm, chlorite slip @ 40° tca with irregular chloritic fracturing extending into wall rock at right angles to slip.						
115.60 - 115.70	Fault @ 30° tca. Chlorite + sericite + quartz + albite. 5 cm wide, barren white-pink quartz ± albite vein bounded by strong sharp chloritic slips.						
117.00 - 117.10	Fault @ 25° tca. Sericite + chlorite + quartz + albite. Strong, sharp sericitic mud slip. Wall rock is strongly foliated to crenulated with strong, wispy sericite developed.						
118.00	GRAYWACKE Massive, very fine grained, light grey-green. Well sorted, very clean undeformed with weak to moderate pervasive spotty sericite. Unit carries traces, finely disseminated pyrite. Lower contact is sharp, irregular bedding contact cut by a 1 cm wide, quartz + albite vein. Bedding @ 55° tca.						
118.15 - 118.30	Fault @ 40° tca. Sericite + chlorite + quartz + albite. Strong, sharp sericitic mud slips bounding a 5-6 cm wide, barren quartz + albite vein with strong, internal sericitic suturing.						
125.90	MUDSTONE/SILTSTONE Well bedded, very finely laminated @ 55° tca, yellow-green sericitic mudstone and dark green, chloritic silt. Bedding ranges from a few mm to 3 cm wide.						
126.75	CONGLOMERATE Massive, chloritic, undeformed, pristine polymictic pebble conglomerate. Classic framework-supported Timiskaming conglomerate comprised of 10-50% poorly sorted, well rounded pebbles up to 25+ cm in a fine grained graywacke groundmass.						
132.75 - 133.10	Fault zone contact @ 25° tca. Chlorite + sericite + quartz. Upper contact is a sharp strong, 0.5 cm wide, quartz + chlorite slip (silicified, east side down). Lower portion is sheared crenulated conglomerate with strong sericitic parting and irregular chloritic fracturing.						

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-40

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INTERVAL FROM TO	DESCRIPTION	SAMPLE					ASSAYS				
		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
133.10 138.85	GRAYWACKE Massive to weathy bedded @ 30-40° tca. Very fine grained, well sorted, light green graywacke. Weak to moderate pervasive, spotty sericitization. Intercalated with minor laminated mudstone. Lower contact is sharp but irregular.	2305	183.00	184.00	1.00						
	133.10 - 133.70 Unit is fractured to pseudo-brecciated (in-situ) by numerous chloritic fractures and slips associated with previous fault.	2306	184.00	185.00	1.00						
	136.45 - 136.65 Fault @ 15° tca. Chlorite + sericite + quartz. Strong rubbly broken shear with slickenals developed on chloritic faces. Appears to be east side down.	2307	185.00	185.50	0.50				5	35	0.01
	CONGLOMERATE Massive, chloritic, pristine, tightly packed, framework-supported polymictic pebble conglomerate. Unit is in part intercalated with minor graywacke and mudstone horizons up to 1 metre wide.	2308	185.50	186.00	0.50				3-5	35	0.02
	166.20 - 166.30 Fault @ 40° tca. Sericite + chlorite + quartz. 5-6 cm wide, barren grey-white quartz vein with strong internal sericitic suturing and sharp sericite + chlorite slip walls.	2309	186.00	186.70	0.70				5	35	0.01
	171.00 Well bedded mudstone @ 15-20° tca.	2310	186.70	187.50	0.80						0.01
	174.15 - 174.60 Fault @ 5-10° tca. Chlorite + sericite + quartz. 2-4 cm wide, strong tight break with 15% fractured, disrupted white quartz.	2311	187.50	188.30	0.80						0.01
	185.00 - 186.70 Fault zone @ 5-25° tca. Chlorite + sericite + quartz. Series of strong irregular quartz + chlorite breccia zones subparallel to core. Intertitial to alips, unit is strongly fractured to brecciated (in-situ) by dark chloritic stringers. Barren, cross-fault.	2312	188.30	189.00	0.70						0.01
	190.00 - 190.60 Fault @ 15° tca. Sericite + chlorite + quartz + albite. Sharp, tight sericite + chlorite slip planes with 15% irregular white quartz veining. Internally veining is fractured by strong chloritic seams, 1-2 mm wide and displays small ladder vein systems (tension filling) of dark grey galena(?) and secondary euhedral pyrite crystals on the small (pseudomorph?) galena clusters.	2313	189.00	190.00	1.00				Tr.	20	0.01
		2314	190.00	190.70	0.70				Tr.	10	0.02
		2315	190.70	191.30	0.60				Tr.	25	NIL
		2316	191.30	192.00	0.70				Tr.	3	0.01
		2317	192.00	192.60	0.60				Tr.	1-2	0.03
		2318	192.60	193.50	0.90				Tr.	1	0.01
		2319	193.50	194.50	1.00				Tr.	1	0.01
		2320	194.50	195.00	0.50				Tr.	2-3	0.01

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-40

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
356.80	360.25	<p>355.50 - 355.70 Fault @ 25° tca. Chlorite + quartz + calcite. Broken rubby fault with weak to moderate gouge on chloritic slipe. Sharp contact with minor barren quartz ± calcite stringers.</p> <p>GRAYWACKE/SILTSTONE/MUDSTONE Graywacke + siltstone + mudstone horizon, dark green-grey, chloritic, massive to well bedded @ 50° tca. Finely interfingered and frequently very irregular contacts are evident.</p> <p>357.10 Sharp chlorite + quartz slip @ 30° tca. 357.10 - 357.25 Quartz + sericite ± pyrite veining. Highly irregular zone (silicification?) or vein of buff to cream to light green quartz, somewhat cherty appearance. Internally vein displays a weak lamination and irregular stylolitic suturing. Trace pyrite on sutures and hairline fracturing. Cut by a later generation of barren quartz veins, 1 cm wide, @ 90° to fault slip.</p> <p>357.45 - 357.65 Quartz ± calcite breccia veins @ 45° tca. Two, 4 cm wide, cream white quartz ± albite ± calcite vein with two distinct angular breccia fragments. Blue-grey quartz + calcite fragments and bright green, sericite ± fuchsite, altered wall rock clasts. Trace pyrite as pervasive disseminations within wall rock clasts and hairline fractures with very fine grained patchy pyrite.</p> <p>359.85 - 360.25 Silicified sheared mudstone (?), very irregular foliation @ 30° tca. Very minor pyrite on foliation planes.</p>	2359	355.50	356.00	0.50	98	Tr.			0.01	
			2360	356.00	356.80	0.80					0.02	
			2361	356.80	357.30	0.50		Tr-0.5	20		0.02	
			2362	357.30	357.80	0.50		Tr. 10-15			0.04	
			2363	357.80	358.50	0.70		Tr.	3-5		0.02	
			2364	358.50	359.00	0.50			Tr.		0.02	
			2365	359.00	359.80	0.80			Tr.		0.03	
			2366	359.80	360.30	0.50		Tr.		SII	0.02	
360.25	371.25	<p>CONGLOMERATE Massive, chloritic, polymictic pebble conglomerate. Variable from tightly packed framework-supported to matrix-supported. Clasts range from 0.5-5+ cm, poorly sorted and include sedimentary, volcanic and igneous clasts generally well rounded. Weak to moderate foliation with clast elongation @ 25° tca.</p> <p>360.60 - 360.80 Fault @ 60° tca. Chlorite + quartz + calcite. Strong, dry chloritic fault with 5% fractured broken quartz ± calcite veinlets.</p> <p>363.00 - 363.20 Fault @ 20° tca. Chlorite ± quartz + calcite, sharp tight chloritic slip planes, little to no wall rock alteration.</p>	2367	360.30	361.00	0.70					0.02	
			2368	361.00	362.00	1.00					0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-40

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INTERVAL FROM TO	DESCRIPTION	SAMPLE						ASSAYS			
		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
551.00 603.50	<p>LAPILLI TUFF Chloritic + sericitic bleached lapilli tuff. Massive to weakly foliated @ 30° tca with prominent clast elongation. Unit is comprised of 10% dark green-black, chloritized, sphankitic, angular clasts from 2-3 mm to 3 cm wide (avg. 1 cm) floating in a very fine grained, light buff-green sericitized matrix. Ubiquitous, pervasive alteration. Numerous tight sericitic alips. Non-magnetic. Unit grades to a more hematitic lapilli tuff with same composition @ 566.50-576.30 m, then grades back to bleached sericitized tuff. Lower contact sharp, intact @ 30° tca.</p> <p>552.80 - 553.00 Barren, irregular white cream-pink quartz ± albite veining within sericitized tuff.</p> <p>553.50 1 cm wide, chlorite + sericite + minor quartz alip @ 30° tca.</p> <p>555.00 Fault slip @ 25° tca. Moderately strong tight sericite alip with weak gouge.</p> <p>556.00 - 556.15 Fault @ 40° tca. Sericite + quartz. 5 cm wide, milk white barren quartz vein bounded by sharp, tight sericite alips.</p> <p>560.10 - 560.20 Fault @ 45° tca. Sericite + chlorite + quartz. 4-5 cm wide, quartz ± albite vein with strong internal chloritic suturing. Bounded by strong, tight chlorite + sericite alips.</p> <p>578.70 - 578.85 Fault @ 60° tca. Sericite + chlorite + quartz/albite. 11 cm wide, barren white-cream quartz + albite vein with internal sericite + chlorite suturing. Bounded by very tight sericite alips.</p> <p>579.30 - 594.70 Hematitic lapilli tuff, massive, undeformed. Same composition as sericitic horizons.</p> <p>583.00 Fault @ 30° tca. Chlorite + quartz. 1-2 cm wide, chlorite shear with angular brecciated quartz fragments, up to 0.5 cm wide, in a dark chloritic matrix. Non-mineralized. Little to no wall rock alteration.</p>	2375	598.00	599.00	1.00						NIL
		2376	599.00	600.00	1.00						NIL
		2377	600.00	601.00	1.00						NIL
		2378	601.00	602.00	1.00						NIL
		2379	602.00	603.00	1.00						NIL
		2380	603.00	603.50	0.50						NIL
									5		
									5		
									10-20		
									Tr.		
									Tr.		
									10-20		
									10-20		

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-40

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
603.50	606.00	MUDSTONE/GRAYWACKE Pristine, finely intercalated graywacke, mudstone. Mudstone beds are very irregular and in places are evidently ripped up into the graywacke horizons. Minor spotty sericite evident within graywackes.	2381	603.50	604.00	0.50					0.01	
			2382	604.00	605.00	1.00					0.01	
			2383	605.00	606.00	1.00					0.01	
606.00	608.50	CONGLOMERATE Pristine, massive polyhedral pebble conglomerate. Comprised of 15-25% rounded polymictic pebbles, up to 10 cm wide, in a weakly sericitic graywacke matrix. Graywacke matrix shows some evidence of weak to moderately strong internal fracturing or crenulation with irregular wispy sericite.	2384	606.00	607.00	1.00					0.01	
			2385	607.00	607.80	0.80					0.06	
			2386	607.80	608.70	0.90		1-3	20	10-15	8.66	10.29
		607.90 - 608.25 Trace spotty pyrite in matrix and some selective clast replacement. 608.25 - 608.50 Quartz + pyrite breccia vein @ 30° tca. Strong, sharp sericitic slip boundaries. Vein is dark blue-grey, brecciated quartz with strong internal fabric @ 30° which appears to be quartz + chlorite ± molybdenite smeared on light hairline sutures. 1-3% pyrite occurs as small subhedral crystals and blebs on these hairline cracks. Remnant graywacke material especially jasper still evident within quartz flooding. Vein marks contact with lapilli tuff.										
608.50	617.40	LAPILLI TUFF Massive, light green with 5-10% angular black chloritic, lapilli clasts, up to 3-4 cm wide, (avg. 0.5-1 cm), floating in a very fine grained pervasively sericitized, bleached matrix. Very minor spotty sub-euhedral pyrite evident in matrix. Lower contact marked by a 3 cm wide, chlorite + quartz fault @ 45° tca.	2387	608.70	609.20	0.50			Tr.	Tr.	0.05	
			2388	609.20	610.00	0.80			Tr.	Tr.	0.01	
			2389	610.00	611.00	1.00			Tr.	Tr.	0.01	
			2390	611.00	612.00	1.00			Tr.	Tr.	0.02	
			2391	612.00	613.00	1.00			Tr.	Tr.	0.01	
			2392	613.00	614.00	1.00			Tr.	Tr.	0.01	
			2393	614.00	615.00	1.00			Tr.	Tr.	0.01	
			2394	615.00	616.00	1.00			Tr.	Tr.	NIL	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-40

PAGE: 17 of 19

INTERVAL FROM TO	DESCRIPTION	SAMPLE							ASSAYS				
		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check		
639.60 641.90	638.60 Fault @ 45° tca, ± 0.5 cm, strong, tight, dry, barren sericitic shear with moderate gouge developed.	2423	638.50	639.50	1.00	97				5-10	NIL		
	638.70 Fault @ 45° tca. As above, sharp, strong sericitic shear with moderate gouge. Broken, rubby.												
641.90	GRAYWACKE/MUDSTONE												
	639.60 - 640.15 Massive to weakly foliated, light grey-green, very fine grained graywacke to quartz arenite with trace spotty pyrite. Weak spotty sericite in groundmass.	2424	639.50	640.15	0.65			Tr.	1	3-5		0.01	
	640.15 - 641.90 Intimately intercalated graywacke/mudstone with very fine bedding from 1-2 mm to 2 cm wide @ 35° tca. Mudstone horizons display strong tight sericitic parting giving section an overall sheared appearance.	2425	640.15	641.00	0.85				1	10-20		0.02	
		2426	641.00	641.50	0.50					5-10		0.04	
	641.60 - 641.90 Dark blue-grey quartz stringers, up to 1 cm, are evident parallel to bedding schistosity which carry trace to 1% very fine grained pyrite.	2427	641.50	642.00	0.50			Tr.	1-2	10-20		0.04	
641.90 715.00	GRAYWACKE												
	Massive to weakly foliated, @ 45° tca. Light grey-green, fine grained graywacke to pebbly graywacke with scattered angular to subrounded mudstone chips and the occasional pebble clast in places. Unit displays a weak pervasive sericite as irregular wisps and fine spots within groundmass, otherwise very clean, undeformed and unaltered.	2428	642.00	642.70	0.70				Tr.	3-5		0.02	
		2429	642.70	643.50	0.80							0.01	
		2430	643.50	644.00	0.50							0.01	
		2431	654.00	655.00	1.00				Tr.	2-3		0.01	
		2432	655.00	656.00	1.00				Tr.	3-5		0.03	
		2433	656.00	656.80	0.80				Tr.	3-5		0.01	
		2434	656.80	657.40	0.60				Tr.	3-5		0.01	
		2435	657.40	658.00	0.60				Tr.	5-7		0.01	
	657.40 - 665.00 Moderately well foliated @ 40° tca with abundant irregular wispy sericite partings developed, giving unit an overall striped appearance. Section also carries minor dark hairline quartz + chlorite ± pyrite seams, ± 2 mm wide, scattered throughout. These stringers tend to cross-cut the sericite foliation @ 10-35° tca.	2436	658.00	659.00	1.00			Tr.	Tr.	5-7		0.01	
	2437	659.00	660.00	1.00				Tr.	5-7		0.02		
660.65 662.10	660.65 4.5 cm wide, barren white quartz veined bounded by tight sericite slips @ 75° tca.	2438	660.00	661.00	1.00			Tr.	1-2	5-7		0.01	
		2439	661.00	662.00	1.00			Tr.	Tr.	5-7		0.01	
	662.10 Fault @ 65° tca. Sericite + quartz. Strong sericitic mud gouge slip with a 2-3 cm wide, barren white quartz + albite vein and a 3 mm wide, blue quartz veinlet with trace pyrite ± galena.	2440	662.00	662.70	0.70			Tr.	1-2	5-10		0.01	
		2441	662.70	663.50	0.80			Tr.	Tr.	3-5		0.01	
		2442	663.50	664.50	1.00			Tr.	2-3	5-7		0.01	
	2443	664.50	665.50	1.00					3-5		NIL		
		2444	665.50	666.00	0.50					2-3		0.01	

HOLE: AK-92-41

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

PAGE: 1 of 18

PROPERTY Amalgamated Kirkland DATE LOGGED February 27, 1992 - March 16, 1992 EASTING 7599.7
TOWNSHIP Teck LOGGED BY Mark Mason NORTHING 10007.4
CLAIM No. L 491183, L 491182 DRILLED BY Health & Sherwood ELEVATION 337.3
STARTED February 26, 1992 CORE LOCATION Kirkland Lake Warehouse COLLAR SURVEY Northland
COMPLETED March 15, 1992 DOWNHOLE SURVEYOR B.M.C.I. Technical
SURVEY INSTRUMENT Sperry Sun 916.0
metres
NQ

PURPOSE To test "103" structure at 600 m. level.

COMMENTS "102" structure @ 754.80 - 757.00, 2.2 m.
"103" structure @ 791.30 - 827.80, 36.5 m.

SIGNED BY



(W. Benham)

Depth	Method	Azimuth	Dip
Note: See table at end of summary log for downhole surveys			

SUMMARY LOG

INTERVAL		DESCRIPTION	INTERVAL		DESCRIPTION	INTERVAL		AVERAGE Au g/t
From	To		From	To		From	To	
0.00	4.10	CASING						
4.10	22.40	BLOCK TUFF						
22.40	30.20	ASH TUFF	525.00	580.70	441.00 - 451.20	Trace pyrite, galeasa. Quartz + albite stockwork. Traces pyrite, galeasa.	1.00	0.19
30.20	54.80	CONGLOMERATE	580.70	606.00	CONGLOMERATE/ASH TUFF LAPILLI TUFF Chloritic.			
54.80	56.80	54.60 - 54.80 Fault breccia @ 35° tca.			LAPILLI TUFF/GRAYWACKE/CONGLOMERATE			
56.80	57.50	SYENITE PORPHYRY	606.00	627.90	CONGLOMERATE			
57.50	63.90	ASH TUFF	627.90	702.70	689.40 - 689.50 Fault @ 60° tca. 694.20 - 694.30 Fault @ 45° tca. 700.00 - 702.70 Sheared @ 45° tca.			
63.90	68.00	57.10 - 57.50 Fault zone @ 50° tca.			ASH/LAPILLI TUFF			
68.00	94.30	CONGLOMERATE	702.70	760.00	702.70 - 710.00 Chloritic fractures, foliated @ 40° tca.			
94.30	134.50	Sheared @ 35-45° tca.						
134.50	174.30	LAPILLI TUFF			703.20 - 703.30 Fault @ 40° tca. 743.35 - 744.45 Fault @ 45-50° tca.			
174.30	199.40	Altered, hematitic.			754.80 - 756.40 Sericitic foliated zone @ 30° tca. 756.40 - 757.00 Deformed, silicified zone, 5-7% quartz veins, trace pyrite.			
199.40	204.50	ASH TUFF						
204.50	305.00	LAPILLI TUFF/ASH TUFF						
305.00	336.40	MUDSTONE/SILTSTONE/GRAYWACKE/LAPILLI TUFF						
336.40	525.00	GRAYWACKE/CONGLOMERATE	760.00	771.00	LAPILLI TUFF/GRAYWACKE/SILTSTONE			
		ASH TUFF	771.00	791.30	Locally mottled, sericitic and bleached.			
		CONGLOMERATE			CONGLOMERATE			
		377.50 - 385.30 Quartz + albite stockwork.						

ASSAY SUMMARY

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-41

PAGE: 2 of 18

PROPERTY	Amalgamated Kirkland	DATE LOGGED	February 27, 1992 - March 16, 1992	EASTING	7599.7
TOWNSHIP	Teck	LOGGED BY	Mark Mason	NORTHING	10007.4
CLAIM No.	L 491183, L 491182	DRILLED BY	Heath & Sherwood	ELEVATION	337.3
STARTED	February 26, 1992	CORE LOCATION	Kirkland Lake Warehouse	COLLAR SURVEY	Northland
COMPLETED	March 15, 1992	DOWNHOLE SURVEYOR	B.M.C.I.	TECHNICAL	Technical
		SURVEY INSTRUMENT	Sperry Sun	LENGTH	916.0
				UNITS	metres
				CORE SIZE	NQ

PURPOSE To test "103" structure at 600 m. level.

COMMENTS "102" structure @ 754.80 - 757.00, 2.2 m.
"103" structure @ 791.30 - 827.80, 36.5 m.

SIGNED BY _____
(W. Benham)

Depth	Method	Arithmetic	Dip
Note: See table at end of summary log for downhole surveys			

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
791.30 - 806.00	785.10 - 785.20 Fault @ 65° tca. GRAYWACKE Locally sericitic, pyritic, alliclified. LAPILLI TUFF Sericitic.					
806.00 - 810.00	CONGLOMERATE 816.50 - 822.20 Sericitic, foliated @ 40-50° tca. Trace pyrite, 1-2% quartz veins.					
810.00 - 916.00	822.20 - 823.90 Shear zone @ 35° tca. Trace-1% pyrite, 1-3% quartz veins. Trace chalcopyrite. 823.90 - 827.80 Weakly foliated, moderately sericitic. Trace pyrite. 874.20 - 875.30 Foliated zone @ 40° tca. Trace pyrite.					
916.00	E. O. H.					

BATTLE MOUNTAIN (CANADA) INC. DIAMOND DRILL LOG

HOLE: AK-92-41

PAGE: 3 of 18

PROPERTY	Amalgamated Kirtland	DATE LOGGED	February 27, 1992 - March 16, 1992
TOWNSHIP	Teck	LOGGED BY	Mark Mason
CLAIM No.	L 491183, L 491182	DRILLED BY	Heath & Sherwood
STARTED	February 26, 1992	CORE LOCATION	Kirtland Lake Warehouse
COMPLETED	March 15, 1992	DOWNHOLE SURVEYOR	B.M.C.I.
		SURVEY INSTRUMENT	Sperry Sun

EASTING	7599.7
NORTHING	10007.4
ELEVATION	337.3
COLLAR SURVEY	Northland Technical
LENGTH	916.0
UNITS	metres
CORE SIZE	NQ

PURPOSE To test "103" structure at 600 m. level.

COMMENTS "102" structure @ 754.90 - 757.00, 2.2 m.
"103" structure @ 791.30 - 827.80, 36.5 m.

SIGNED BY _____

(W. Bentham)

Depth	Method	Azimuth	Dip
Note:	See table below for all downhole surveys		

SUMMARY LOG				ASSAY SUMMARY																																																																																	
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t																																																																												
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**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-41

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INTERVAL		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		No.	From To	Length %Rec	%Py %QV %Ser	Au, g/t	Au, Check
0.00	4.10	OVERBURDEN						
4.10	22.40	BLOCK TUFF Massive, undeformed, chloritic coarse lapilli block tuff comprised of 5-15% angular to sub-rounded dark red syenite/trachyte clasts, up to 7 cm wide, in a fine grained dark green-black ash matrix. Clasts are fine grained to strongly porphyritic. Strong pervasive magnetism. Top section somewhat rubby and broken with ankerite staining. Lower contact gradational over 1 metre.						
		7.90 - 8.10 Rubby, broken section with strong ankerite development on broken fragments.						
		8.55 - 8.90 Fault @ 30° tca. Chlorite + sericite + ankerite. Strong chlorite + sericite slips and rubby broken core. Strong ankerite (limonitic) staining.						
		10.00 Fault @ 30° tca. Chlorite + sericite + ankerite. Broken rubby section with moderately strong sharp slips and a weak to moderate ankerite staining.						
		11.20 - 14.50 Tight, strong, chlorite slip/fracture @ 0-10° tca.						
		22.20 Fault @ 30° tca. Chlorite + sericite ± ankerite. Moderately strong, open fault with weak ankeritic staining.						
22.40	30.20	ASH TUFF Massive fine grained, dark green to black ash tuff. Undeformed, unaltered and equivalent in composition to above block tuff. Comprised of small subrounded red syenite/trachyte ash and fine lapilli clasts, up to 5 mm wide, in a very fine grained dark chloritic ash matrix. Strong magnetism. Lower contact sharp @ 55° tca.						
30.20	54.80	CONGLOMERATE Massive, pristine, polyimictic pebble-cobble conglomerate. Tightly packed with 40-50% poorly sorted, well rounded pebbles, up to 15 cm wide. Groundmass is very dark green and chloritic with a very low quartz content (<10%) and may contain a certain amount of ash. Of notable interest is the fact that this conglomerate although it contains quartz, jasper and porphyry clasts, it also contains a high percentage of trachytes, red-brown to grey and volcanics which are strongly magnetic. This gives the unit an overall strong, patchy magnetism as opposed to the typically non-magnetic, quartz-rich conglomerates.						

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-41

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%OV	%Ser	Au, g/t	Au, Check
54.80	56.80	<p>45.10 - 45.40 Fault @ 30° tca. Chlorite + quartz + ankerite. Irregular, 10-12 cm wide, barren quartz + ankerite vein bounded by 1 mm wide sharp tight chlorite slip planes.</p> <p>50.85 - 50.90 Fault @ 35° tca. Chlorite + quartz + albite. Sharp tight chlorite slip at 50.9 m. Irregular, milk-white to grey, quartz + albite veining with strong internal chloritic suturing.</p> <p>54.60 - 54.80 Strong fault breccia @ 35° tca. Chlorite + quartz + ankerite. Very strong chloritic shear to fault breccia with broken angular quartz and rusty ankeritic stained rock fragments, up to 1 cm wide, in a dark chloritic groundmass.</p> <p>SYENITE PORPHYRY Massive, dark brick-red syenite comprised of 5-7% subhedral plagioclase laths, up to 0.50 cm wide, floating in an aphanitic red groundmass. Phenocrysts are typically dusted with a red hematitic coating. Unit is cut by 2-3% quartz stockworking veinlets up to 0.50 cm wide. Moderately magnetic (possibly trachytic?) Lower contact somewhat obscured and irregular, possibly bedding parallel @ 40° tca.</p>	2460	52.00	53.00	1.00	95				0.03	
			2461	53.00	53.50	0.50					0.01	
			2462	53.50	54.00	0.50					0.01	
			2463	54.00	54.80	0.80			3-5	Chl.	NIL	
			2464	54.80	55.80	1.00			2-3		0.01	
			2465	55.80	56.80	1.00			2-3		NIL	
56.80	57.10	<p>ASH TUFF Dark green to buff-brown, fine to medium grained ash tuff cut by 2-3% irregular quartz + ankerite veinlets.</p>	2466	56.80	57.60	0.80	90				NIL	
57.10	57.50	<p>FAULT ZONE @ 80° TCA. Chlorite + quartz + ankerite. Broken rubby section with strong chloritic shearing and alps. 10-15% irregular quartz + ankerite veining. Barren, non-mineralized.</p>										
57.50	63.90	<p>CONGLOMERATE Strongly foliated to sheared @ 35-45° tca, polymictic pebbly conglomerate. Highly chloritic with numerous tight chloritic alps throughout. Matrix is notably foliated to crenulated. Contains 3-4% barren, irregular white quartz ± albite veins, up to 2-3 cm wide.</p>	2467	57.60	58.40	0.80			2-3		0.01	
			2468	58.40	59.00	0.60			1-2		NIL	
			2469	59.00	60.00	1.00			2-3		0.01	
			2470	60.00	61.00	1.00			3-4		0.01	
			2471	61.00	62.00	1.00			2-3		NIL	
			2472	62.00	63.00	1.00			1-2		0.02	
			2473	63.00	63.90	0.90			1-2		NIL	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-41

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au/Check
134.50	174.30	<p>118.25 Fault @ 45° tca. Chlorite + quartz + albite. Tight chloritic slip with 2 cm wide, brecciated barren quartz + albite vein within a dark chloritic groundmass.</p> <p>125.50 - 128.70 Moderately well bedded ash tuff horizons @ 30-40° tca.</p> <p>133.75 - 133.80 Fault @ 50° tca. Chlorite + sericite + quartz + calcite. Tight strong 1 mm wide chlorite slip with a 3 mm wide, quartz + calcite veinlet on wall.</p> <p>133.80 - 134.25 Tuff displays a patchy pervasive bleaching (sericitization) gradually grading to dark green, chloritic tuff. Somewhat mottled texture.</p> <p>ASH TUFF</p> <p>Chloritic, massive to poorly bedded, dark grey-green to grey-brown, somewhat variable from very fine to medium grained ash tuff. Typically strongly magnetic and in places small (≤ 1 mm) primary magnetite grains (1%) are evident (ie 137.0-138.0). Comprised of 3-10% fine grained, ash matrix. Massive, non-descript, pristine. Lower contact of unit is sharp bedding contact @ 40° tca.</p> <p>139.30 - 139.60 Fault @ 20° tca. Chlorite + sericite + quartz + albite. Two strong chloritic fault slips with 1-2 cm wide, white-pink, quartz ± albite veining @ 139.3 and 139.6 m. Internal to slips, unit is strongly deformed, fractured and sericitized. Cut by 2% quartz + chlorite veinlets, up to 2 mm wide. Barren, non-mineralized cross-fault.</p> <p>141.40 - 142.00 Fault @ 15° tca. Chlorite + sericite + quartz ± albite. Strongly deformed, sericitized ash tuff with late, barren quartz pods and stringers, bounded by two sharp chloritic slip planes.</p>										
174.30	199.40	<p>LAPILLI TUFF</p> <p>Massive, pristine, light to dark grey-green. Quite variable with 2-7% subangular lapilli clasts from 0.50-5 cm wide, pink-red, light grey and dark green volcanics in a very fine grained ash groundmass. Patchy strong magnetite. Lower contact of unit is intact sedimentary type @ 55° tca.</p> <p>180.45 - 181.00 Fault zone @ 45° tca. Sericite + chlorite + quartz. Quite strongly deformed lapilli tuff with 10-15% irregular wavy sericitic foliation. Upper and lower contacts are strong,</p>	2479	178.50	179.00	0.50				Tr: 2-3	NIL	
			2480	179.00	179.50	0.50				Tr: 2-3	0.01	
			2481	179.50	180.40	0.90				Tr: 2-3	0.01	
			2482	180.40	181.20	0.80				Tr: 3-4	0.01	
			2483	181.20	182.00	0.80				Tr: Tr:	0.01	
			2484	182.00	182.50	0.50				Tr: Tr:	0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-41

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
199.40	204.50	sharp chlorite + sericite shears with barren quartz + albite veinlets, up to 5 cm wide. Dry, barren shear.	2485	195.70	196.40	0.70			2-3	Tr.	0.01	
			2486	196.40	197.00	0.60			1		NIL	
			2487	197.00	198.00	1.00					NIL	
			2488	198.00	198.90	0.90					NIL	
			2489	198.90	199.40	0.50		Tr.-1		10-20	NIL	
		MUDSTONE/SILTSTONE/GRAYWACKE/LAPILLI TUFF Massive to finely laminated and well bedded @ 55° tca. Lower contact gradational over 1 metre.	2490	199.40	200.00	0.60					0.01	
		199.40 - 203.10 Finely intercalated mudstone/siltstone/ graywacks with bedding horizons from 0.50-20 cm wide. All units are undeformed and unaltered, pristine.	2491	200.00	201.00	1.00			Tr.		0.01	
			2492	201.00	202.00	1.00					0.01	
			2493	202.00	203.00	1.00					0.01	
		203.10 - 203.80 massive, grey-green lapilli tuff horizon with trace, sub-cubedral pyrite clots, up to 0.50 cm wide, within light green, spotted trachyte clasts.	2494	203.00	203.80	0.80			Tr.	3-4	0.01	
			2495	203.80	204.50	0.70					NIL	
204.50	305.00	GRAYWACKE Massive to poorly bedded, fine grained, light to dark grey-green. Occasionally carries dispersed angular mudstone chips and locally grades to pebbly graywacke/conglomerate. Lower contact of unit is gradational over 1-2 metres.	2496	204.50	205.00	0.50					0.01	
		204.50 - 251.00 Very clean, pristine with a weak pervasive, spotty sericite.	2497	205.00	206.00	1.00			Tr.	2-3	NIL	
		204.50 - 215.00 Unit is moderately altered, fractured and contains 1-3% irregular anastomosing hairline sericitic fracturing and 1-3% quartz ± albite + chlorite stringer veins, up to 3 cm wide, at all angles tca. Occasional minor pyrite on veins.	2498	206.00	206.50	0.50			Tr.	2-3	NIL	
			2499	206.50	207.00	0.50			Tr.	1-2	0.01	
			2500	207.00	208.00	1.00			Tr.	2-3	0.01	
			3001	208.00	209.00	1.00				1-2	NIL	
			3002	209.00	210.00	1.00			Tr.	1 2-3	0.08	
			3003	210.00	211.00	1.00				1-2	0.01	
			3004	211.00	212.00	1.00				1-2	0.01	
		212.35 - 212.40 Fault @ 30° tca. Chlorite + quartz. 4 cm wide, barren, white quartz ± albite vein bounded by tight strong chlorite alips.	3005	212.00	212.50	0.50			Tr.	2-3 2-4	NIL	
			3006	212.50	213.00	0.50			Tr.	1-2	0.01	
			3007	213.00	214.00	1.00			Tr.	1 2-3	NIL	
			3008	214.00	215.00	1.00				1-2	0.01	
			3009	225.00	226.00	1.00				3-5 Fuch.	0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-41

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
336.40	580.70	<p>CONGLOMERATE Massive, pristine, unaltered polyimictic pebble-cobble conglomerate, with a fine grained chloritic graywacke groundmass. Classic jasperoidal Timiskaming conglomerate somewhat variable from clast to matrix supported, poorly sorted, with clasts ranging from 0.50-10+ cm wide, including jasper, quartz, volcanics, sediments and intrusives. Lower contact of unit is a sharp, tight (1-2 mm) sericitic slip @ 40° tca.</p> <p>367.40 - 367.60 Quartz + albite + sericite vein @ 15° tca. 4 cm wide, white quartz + albite vein with strong, internal sericitic slips and minor spotty pyrite.</p> <p>372.20 - 372.30 Fault @ 50° tca. Sericite + chlorite. Two strong, sharp, tight (1-2 mm) muddy slips at 327.2 and 327.3. Internally unit is fractured "crack and seal" with hairline chloritic suturing and barren quartz pods.</p> <p>377.50 - 385.30 Stockworked series of white quartz + albite veins @ 0-15° tca. Veins are frequently associated with tight, sericite slips or fractures and internally display strong sericitic lamellae. These veins carry minor spotty pyrite, pseudomorphing a blue-grey often acicular mineral (galena?). These mineral growths occur on hairline fractures or cleavage planes within the quartz + albite and often at right angles to the vein wall.</p> <p>418.00 - 418.15 Fault @ 35° tca. Chlorite + sericite + quartz + albite. 10 cm wide, white-pink quartz + albite vein with strong internal sericite slips. Bounded by sharp, tight chlorite + sericite slip planes. Barren, non-mineralized.</p> <p>441.00 - 451.20 Unit is cut by 1% milk-white, quartz + albite veins and pods (tension-filling) up to 3 cm wide (avg 0.50 cm) which frequently carry trace pyrite ± galena(?). This sulphide mineralization grows along cleavage and as small clots within veins. Veins are widely spaced and are frequently discontinuous and appear to be open-space or gas-h-fillings. Very weak system.</p>	3022 3023	336.50 337.00	337.00 338.00	0.50 1.00					0.02 0.01	
			3024 3025 3026 3027 3028	366.00 366.80 367.30 367.80 368.30	366.80 367.30 367.80 368.30 369.00	0.80 0.50 0.50 0.50 0.70		Tr. Tr. 10-15	5-10		0.01 0.01 0.05 0.01 NIL	
			3029 3030 3031 3032 3033 3034 3035 3036 3037 3038 3039	377.00 377.50 378.20 379.00 379.50 380.20 381.00 382.00 383.00 383.80 384.50 385.50	377.50 378.20 379.00 379.50 380.20 381.00 382.00 383.00 383.80 384.50 385.50	0.50 0.70 0.80 0.50 0.70 0.80 1.00 1.00 0.80 0.70 1.00		Tr. 3 Tr. 1 Tr. 7-10 Tr. 5-7 Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr.	3-5 1-2 3-5 2-3 1-2 1-2 1-2 1-2 1-2 1-2 1	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.09		
			3040 3041 3042 3043 3044 3045 3046 3047 3048 3049 3050	441.00 441.50 442.00 443.00 443.00 444.00 445.00 445.60 446.30 447.00 448.00 448.60 449.50	441.50 442.00 443.00 444.00 445.00 445.60 446.30 447.00 448.00 448.60 449.50	0.50 0.50 1.00 1.00 1.00 0.60 0.70 0.70 1.00 1.00 0.90		2-3 Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr.	2-3 Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr.	0.01 0.10 0.01 0.01 NIL NIL NIL 0.11 0.01 0.01 0.02		

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-41

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
			No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t
627.90	702.70	<p>CONGLOMERATE Massive, undeformed, dark chloritic, polymictic pebble-cobble conglomerate. Quite coarse with well rounded clast, up to 25 cm wide, very poorly sorted, tightly packed and framework-supported. Lower contact appears to be sharp @ 45° tca but is somewhat obscured due to deformation and alteration.</p> <p>627.90 - 628.45 Diabase (siltstone?). Massive, very fine grained to aphanitic, dark green and non-magnetic. Upper contact very irregular @ 5-10° tca. Lower contact also somewhat irregular with a 1 cm wide calcite vein.</p> <p>678.50 Fault @ 40° tca. Chlorite + sericite + quartz + calcite. 2 cm wide, white-pink, quartz + calcite veining with internal sericite suturing and bounded by sharp, light chloritic slipe.</p> <p>689.40 - 689.50 Fault @ 60° tca. Chlorite + sericite + quartz + calcite. Strong, broken rubbery section. Moderate to strong mud gouge developed in chlorite slipe. 2-3% white-pink, barren quartz + calcite veins up to 1 cm wide.</p> <p>694.20 - 694.30 Fault @ 45° tca. Chlorite + sericite + quartz + calcite. 4 cm wide, grey-white, barren quartz + calcite vein with strong, internal sericite lamellae. Bounded by sharp tight chlorite + sericite slipe with weak to moderate gouge developed.</p> <p>700.00 - 702.70 Conglomerates are moderately well foliated and contain numerous, strong, tight (1-2 mm) chlorite slip planes and 1-2 cm wide, sericitic, schistose zones @ 45° tca.</p>	3054	699.00	700.00	1.00				0.01	
			3055	700.00	701.00	1.00				0.01	
			3056	701.00	702.00	1.00				0.02	
			3057	702.00	702.70	0.70				0.02	
702.70	771.00	<p>ASH/LAPILLI TUFF Chlorite ± hematite. Unit is quite variable and inhomogeneous. Ranges from very fine grained ash to tuff to lapilli tuff with 3-5% scattered lapilli clasts. Colour varies from light green to brown to purple, due to an overall patchy sericite alteration. Unit contains 2-3% white, barren quartz + calcite veins from 1 mm to 2 cm wide at various core angles. Frequently the unit is bleached and light brown proximal to these veinlets.</p> <p>702.70 - 710.00 Massive to locally moderately foliated and displays a strong 'crack and seal' texture with fracturing infilled by dark green chlorite. These fractures are hairline to 3 mm wide at multiple core angles. Interstitial to these cracks,</p>	3058	702.70	703.50	0.80				0.01	
			3059	703.50	704.00	0.50				NIL	
			3060	704.00	705.00	1.00				NIL	
			3061	705.00	706.00	1.00				NIL	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-41

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS					
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check	
		the tuff is notably altered with pervasive spotty to wispy sericite and strong, light sericite alips throughout. Strong zone of deformation but very dry, non-mineralized.											
		703.20 - 703.30 Strong chlorite, mud gouge fault @ 40° tca.	3062	706.00	707.00	1.00						NIL	
		710.00 - 730.00 Massive, light green lapilli tuff with 3-4% angular lapilli clasts, up to 3 cm wide, in a very fine grained ash matrix. Clasts are black and white spotted, light grey and red-brown trachyte. Section contains numerous well spaced, tight sericitic alips, giving unit a blocky broken appearance in places. These alips are parallel to each other @ 40-45° tca.	3063	707.00	708.00	1.00						NIL	
			3064	708.00	709.00	1.00						0.01	
			3065	709.00	710.00	1.00						0.01	
			3066	710.00	711.00	1.00	95					NIL	
		719.30 - 721.40 Blocky section with numerous sericitic alips. Proximal to slips, tuff is bleached and sericitic giving unit an overall mottled appearance.											
		728.00 - 728.40 Rubbly, broken fault zone with strong sericitic mud gouge developed on alips @ 40° tca.	3067	742.00	743.00	1.00			Tr.	2	3-5	0.01	
			3068	743.00	744.00	1.00				1-2	3-5	NIL	
		744.35 - 744.45 Broken, rubbly fault zone with moderate chloritic gouge @ 45-50° tca. Minor fragmented quartz + calcite veinlets.	3069	744.00	744.50	0.50				1	5-7	0.03	
			3070	744.50	745.00	0.50				2-3	3-5	0.02	
			3071	745.00	746.00	1.00				1-2	5-7	0.01	
			3072	746.00	747.00	1.00				1-2	3-5	0.01	
			3073	747.00	748.00	1.00				Tr.		0.01	
			3074	748.00	749.00	1.00				Tr.		0.01	
			3075	749.00	749.70	0.70				Tr.	2-3	NIL	
			3076	749.70	750.50	0.80				Tr.	2-3	0.02	
			3077	750.50	751.00	0.50				Tr.	2-3	0.01	
			3078	751.00	752.00	1.00				Tr.	2-3	0.01	
			3079	752.00	753.00	1.00				Tr.	2-3	0.01	
			3080	753.00	754.00	1.00				Tr.	2-3	NIL	
			3081	754.00	754.80	0.80				1-2	2-3	0.01	
		754.80 - 756.40 Strongly foliated to schistose, sericitic shear zone @ 30° tca. Quite competent with sharp, tight sericitic alips and irregular anastomosing sericite within host. 1% quartz + chlorite veining and fracture filling.	3082	754.80	755.50	0.70			Tr.	1	10-15	0.01	
			3083	755.50	756.30	0.80				1	5-10	0.01	
		756.40 - 757.00 Deformed and silicified section comprised of 5-7% irregular white to grey quartz pods and veining within a foliated fractured lapilli tuff which is quite sericitic. Section contains trace disseminated pyrite and is bounded by sharp chlorite alips @ 45° tca.	3084	756.30	757.10	0.80				Tr.	5-7	10-15	0.02
			3085	757.10	758.00	0.90				1	3-5	NIL	
			3086	758.00	759.00	1.00				Tr.		0.01	
			3087	759.00	760.00	1.00				Tr.	2-3	0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-41

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INTERVAL FROM TO	DESCRIPTION	SAMPLE					ASSAYS					
		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/l	Au, Check	
771.00 791.30	760.00 - 771.00	3088	760.00	761.00	1.00			1-2		0.01		
		3089	761.00	762.00	1.00			1-2		0.01		
		3090	762.00	762.50	0.50			1	1-2	0.01		
		3091	762.50	763.00	0.50			Tr.		0.01		
		3092	763.00	764.00	1.00			1		0.02		
		3093	764.00	765.00	1.00			1-2	3-5	NIL		
		3094	765.00	766.00	1.00			2-3	5-10	NIL		
		766.40 - 767.00	3095	766.00	767.00	1.00		2	Tr.	2-3	0.02	
			3096	767.00	768.00	1.00			Tr.		0.01	
		768.60	3097	768.00	769.00	1.00		Tr.	2	2-3	0.02	
		3098	769.00	770.00	1.00			1-2	2-3	NIL		
		3099	770.00	771.00	1.00			1		NIL		
771.00 791.30	CONGLOMERATE											
	Chlorite, massive, prismatic, grey-green polymictic pebble conglomerate comprised of 25% well rounded to sub-angular clasts from 1-8 cm wide. Very poorly sorted, matrix to framework supported. Matrix is very quartz-poor with patchy strong magnetite and it may actually be more tuffaceous than sedimentary (graywacke), tuffaceous conglomerate. May still represent gradational zone from pure trachyte tuff to sediments. Lower contact of unit is gradational over 10-15 cm.	3100	771.00	772.00	1.00			1	2-3		0.01	
		3101	772.00	773.00	1.00					0.01		
		3102	773.00	774.00	1.00					0.01		
		3103	774.00	775.00	1.00					NIL		
		3104	775.00	776.00	1.00					NIL		
		3105	776.00	777.00	1.00					NIL		
		3106	777.00	778.00	1.00					NIL		
		3107	778.00	779.00	1.00					NIL		
		3108	779.00	780.00	1.00					NIL		
	777.40	Fault @ 40° tea. Chlorite + sericite ± quartz + calcite. 2-3 mm wide, sharp tight slip with a 1-2 mm wide brecciated quartz + calcite veinlet adjacent to slip.	3109	780.00	781.00	1.00					0.01	
		3110	781.00	782.00	1.00					NIL		
		3111	782.00	783.00	1.00					0.01		
		3112	783.00	784.00	1.00					NIL		
		3113	784.00	785.00	1.00					0.01		
785.10	Fault @ 65° tea. Chlorite + sericite + quartz. Strong, tight slip with weak gouge developed.	3114	785.00	786.00	1.00			Tr.	2-3	3-5 Tr Cpy	Gal	
		3115	786.00	787.00	1.00					0.02		
	785.05 - 785.20	3116	787.00	788.00	1.00					NIL		
		3117	788.00	789.00	1.00					NIL		
		3118	789.00	790.00	1.00					0.01		
		3119	790.00	791.00	1.00					0.01		

BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG

INTERVAL FROM TO	DESCRIPTION	SAMPLE						ASSAYS			
		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
791.30 806.00	GRAYWACKE Weakly altered, massive to poorly bedded, light grey-green to yellow, very fine grained graywacke with minor dispersed angular mudstone chips and narrow siltstone horizons, 5-15 cm wide, which define bedding at 30' tca. Patchy zones of sericitic and silice alteration with 0.5-1.0% finely disseminated pyrite and 1-2% white to dark grey, 2-8 cm wide irregular quartz veins. 799.00 - 800.00 Weakly foliated @ 25-30' tca.	3120	791.00	792.00	1.00					0.01	
		3121	792.00	793.00	1.00		8	1-2	SII	0.01	
		3122	793.00	794.00	1.00					0.01	
		3123	794.00	795.00	1.00		0.5-1	2-3		0.01	
		3124	795.00	796.00	1.00			Tr.	1-2	0.01	
		3125	796.00	797.00	1.00					0.01	
		3126	797.00	798.00	1.00					0.01	
		3127	798.00	799.00	1.00					0.01	
		3128	799.00	800.00	1.00			1	1-2	0.01	
		3129	800.00	801.00	1.00		0.5		5-10	0.01	
		3130	801.00	802.00	1.00		Tr.			0.07	
		3131	802.00	803.00	1.00		0.5-1			0.01	
		3132	803.00	804.00	1.00		0.5-1			0.02	
		3133	804.00	805.00	1.00		0.5-1			0.01	
		3134	805.00	806.00	1.00					0.01	
806.00 810.00	LAPILLI TUFF Lapilli tuff, light grey-green to buff brown, mottled texture with patchy bleaching. Unit consists of 2-3% subrounded, black-white, salt & pepper textured clasts, up to 7 cm wide, in a fine grained ash matrix. Matrix varies from buff-brown to dark green and displays a patchy sericite alteration which gives unit its overall mottled texture. Section contains 2-3% barren white quartz veins, up to 0.50 cm wide, which frequently display lightly bleached alteration halos up to 5 cm from vein.	3135	806.00	807.00	1.00		Tr.	5-10		0.03	
		3136	807.00	808.00	1.00		0.5	1	5-10	0.01	
		3137	808.00	809.00	1.00		0.5	2-3	10-15	NIL	
		3138	809.00	810.00	1.00			Tr.	2-3	0.02	
810.00 916.00	CONGLOMERATE Chloritic, massive, pristine polymictic pebble-cobble conglomerate. Poorly sorted, matrix to framework supported. Weak bedding @ 50' tca. In part interdigitated with narrow graywacke, siltstone and minor lapilli tuff horizons. 813.60 Fault @ 55' tca. Sericite + quartz + calcite ± pyrite. Tight, sharp, sericitic slip with minor smeared pyrite on	3139	810.00	811.00	1.00			1	3-5	0.19	
		3140	811.00	812.00	1.00					0.01	
		3141	812.00	813.00	1.00					0.02	
		3142	813.00	814.00	1.00		Tr.	Tr.	2-3	0.02	
		3143	814.00	815.00	1.00					0.02	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-41

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INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
	816.50 - 822.20	slip face. Adjacent to slip, is a 1.5 cm wide, laminated quartz ± calcite vein with trace, spotty pyrite ± galena. Unit becomes notably foliated @ 40-50° tca with a weak to moderate sericitic foliation developed and some selective clast alteration evident. Gradual increase in deformation.	3144	815.00	816.00	1.00					0.01	
	818.65	Fault slip @ 35° tca. Chlorite + sericite + quartz + calcite. 3-4 mm wide, quartz + calcite vein with trace spotty pyrite and chalcopyrite bounded by sharp, tight slip planes.	3145	816.00	817.00	1.00			Tr.		0.02	
	818.90	Fault slip @ 35° tca. Tight, sharp chlorite slip.	3146	817.00	818.00	1.00					0.01	
	818.65 - 818.90	Moderately deformed and cretulated with 10-15% irregular sericite and 5% barren quartz flooding.	3147	818.00	818.60	0.60			Tr.	5-7	0.02	
	822.20 - 823.90	Shear zone @ 35° tca. Sericite + chlorite + quartz ± pyrite. Moderately strong deformation zone comprised of 15-20% irregular wavy sericitic foliation, sharp chlorite + sericite slips and 3-5% quartz and quartz + calcite veining and irregular quartz pods. Conglomerate clasts are still evident. More competent clasts are broken and fractured while more ductile clasts are sheared and sericitized and tend to have a patchy inhomogeneous pyrite replacement. Section has 1-2% patchy pyrite as selective clast replacement and finely disseminated pyrite on sericitic foliation. Trace chalcopyrite associated with quartz + calcite veining to 1 cm.	3148	818.60	819.10	0.50			Tr.	10-15	0.01	
	823.90 - 824.60	Weakly foliated but has a moderate, patchy sericite alteration and carries trace spotty pyrite + chalcopyrite associated with 1 mm wide quartz + chlorite stringers. Grades to a non-deformed, chloritic conglomerate with a few minor pyritic clasts (replacement) down to 827.8 m.	3149	819.10	819.70	0.60			Tr.	5-10	0.01	
			3150	819.70	820.20	0.50			Tr.	5-10	0.04	
			3151	820.20	820.70	0.50			Tr.	1	0.02	
			3152	820.70	821.20	0.50			Tr.	5-10	0.01	
			3153	821.20	821.70	0.50			Tr.	5-10	0.01	
			3154	821.70	822.20	0.50			Tr.	1-2	0.03	
			3155	822.20	822.70	0.50			1	1-2	0.05	
			3156	822.70	823.50	0.80			1	2-3	0.02	
	823.90 - 824.60	Weakly foliated but has a moderate, patchy sericite alteration and carries trace spotty pyrite + chalcopyrite associated with 1 mm wide quartz + chlorite stringers. Grades to a non-deformed, chloritic conglomerate with a few minor pyritic clasts (replacement) down to 827.8 m.	3157	823.50	824.00	0.50			Tr.	1	0.01	
			3158	824.00	824.60	0.60			Tr.	5-7	0.01	
			3159	824.60	825.10	0.50			Tr.	1	0.01	
			3160	825.10	826.00	0.90			Tr.	Tr.	0.06	
			3161	826.00	827.00	1.00			Tr.	Tr.	0.14	
			3162	827.00	827.80	0.80			Tr.	1	0.03	
			3163	827.80	828.50	0.70			Tr.	Tr.	0.01	
			3164	828.50	829.00	0.50			Tr.	Tr.	0.01	
			3165	829.00	830.00	1.00			Tr.	Tr.	0.01	
			3166	830.00	831.00	1.00			Tr.	Tr.	0.02	
	831.20 - 832.10	Graywacke/siltstone horizon with 2% quartz ± calcite stockworking veins (± 1 cm). Graywacke carries trace, disseminated pyrite in matrix.	3167	831.00	831.50	0.50			Tr.	1-2	0.01	
			3168	831.50	832.10	0.60			Tr.	Tr.	0.02	
			3169	832.10	833.00	0.90			Tr.	2-3	0.02	
			3170	833.00	834.00	1.00			Tr.	Tr.	0.02	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-41

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INTERVAL FROM TO	DESCRIPTION	SAMPLE					ASSAYS Au, Pt Au, Check
		No.	From To	Length	%Rec	%Py %QV %Ser	
916.00	E. O. E.						
	Additional Assays						
	Sample No.	Pb (ppm)	Zn (ppm)	Ta (ppm)			
	3126	3	52				
	3127	8	49				
	3128	3	61				
	3129	4	66				
	3130	7	64				
	3131	2	45				
	3132	4	60				
	3133	1	67				
	3134	2	65				
	3135	4	50				
	3136	2	49				
	3137	3	58				
	3138	4	63				
	3139	5	68				
	3156	22	57	1			
	Abbreviations Used in Sample Descriptions						
	Chl.	Chlorite					
	Fuch.	Fuchsite					
	Tt.	Traces					
	Cpy	Chalcopyrite					
	Gal.	Galena					

HOLE: AK-92-42

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

PAGE: 1 of 17

PROPERTY Amalgamated Kirkland **DATE LOGGED** June 17 - 28, 1992; August 15, 1992 **EASTING** 8188.8
TOWNSHIP Teck **LOGGED BY** Mark Masson **NORTHING** 10374.9
CLAIM No. L 491662, L 491663 **DRILLED BY** Heath & Sherwood **ELEVATION** 332.3
STARTED June 16/92; Aug.13/92 **CORE LOCATION** Kirkland Lake Warehouse **COLLAR SURVEY** Northland Technical
COMPLETED June 26/92; Aug.15/92 **DOWNHOLE SURVEYOR** B.M.C.I. **LENGTH** 556.8 metres
SURVEY INSTRUMENT Sperry Sun **UNITS** NQ
CORE SIZE

PURPOSE To test "102"/"103" structures @ 425 m level.
COMMENTS "104" structure @ 307.60 - 312.00, 4.40 m.
 "103" structure @ 399.00 - 450.10, 51.10 m.
 "102" structure @ 505.50 - 510.00, 4.50 m.
 Hole extended from 507.50 - 556.80

SIGNED BY


(W. Benham)

Depth	Method	Asimuth	Dip
Notes: See table at end of summary log for downhole surveys			

SUMMARY LOG

INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	AVERAGE Au g/t
0.0 1.40	OVERBURDEN	366.00 372.70	CONGLOMERATE	311.00 311.60	16.67
1.40 39.00	LAPILLI TUFF	372.70 376.30	Sericitic, foliated @ 40° tca.	369.00 370.00	0.20
39.00 67.40	LAPILLI TUFF	376.30 380.30	GRAYWACKE/CONGLOMERATE/SILTSTONE	399.00 399.50	0.38
67.40 72.20	Monolithic	380.30 385.90	MUDSTONE/GRAYWACKE	432.00 432.70	1.15
72.20 80.30	ASH TUFF	385.90 390.15	CONGLOMERATE	468.00 474.00	0.23
80.30 129.25	LAPILLI TUFF	390.15 399.00	ALTERED TUFF/RED ROCK/SYENITE	505.50 510.00	* Note 1
129.25 227.60	LAPILLI TUFF/ASH TUFF/SILTSTONE	399.00 450.10	CONGLOMERATE		0.36
227.60 247.60	Fault @ 50° tca.	450.10 468.00	Sericitic, foliated @ 40° tca.		
247.60 287.20	GRAYWACKE		BLEACHED LAPILLI TUFF		
287.20 366.00	136.05 - 136.30 Fault @ 65° tca.		Sericitic, foliated @ 40° tca.		
	156.50 - 157.10 Fault @ 15-20° tca.		432.10 - 432.70 Fault @ 55° tca.		
	CONGLOMERATE		442.00 - 449.95 Fractured zone, chlorite + quartz + pyrite.		
	Foliated @ 30° tca.		449.95 - 450.10 Fault @ 25° tca.		
	LAPILLI TUFF		GRAYWACKE		
	Foliated @ 30° tca. sericitic.		461.15 - 461.30 Shear zone @ 15° tca.		
	282.10 - 282.15 Fault @ 65° tca.		461.30 - 468.00 Fractured zone chlorite + quartz + albite ± pyrite.		
	GRAYWACKE		466.35 - 466.45 Blue-grey, sericitic + pyrite + quartz vein @ 70° tca.		
	300.65 - 300.75 Quartz + albite + pyrite vein.		CONGLOMERATE		
	307.60 - 308.10 Shear zone @ 55° tca.		Sericitic, foliated @ 40° tca.		
	310.40 - 312.00 Shear zone @ 55° tca.				
	311.00 - 311.10 Blue-grey pyrite + quartz vein.				
	364.60 - 364.70 Fault @ 40° tca.	468.00 478.70			

ASSAY SUMMARY

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-42

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PROPERTY Amalgamated Kirkland
TOWNSHIP Teck
CLAIM No. L 491662, L 491663
STARTED June 16/92 ; Aug.13/92
COMPLETED June 26/92 ; Aug.15/92

DATE LOGGED June 17 - 28, 1992; August 15, 1992
LOGGED BY Mark Masson
DRILLED BY Heath & Sherwood
CORE LOCATION Kirkland Lake Warehouse
DOWNEHOLE SURVEYOR B.M.C.I.
SURVEY INSTRUMENT Sperry Sun

Depth	Method	Azimuth	Dip
Note: See table at end of summary log for downhole surveys			

PURPOSE To test "102"/"103" structures @ 425 m level.
COMMENTS "104" structure @ 307.60 - 312.00, 4.40 m.
"103" structure @ 399.00 - 450.10, 51.10 m.
"102" structure @ 505.50 - 510.00, 4.50 m.
Hole extended from 507.50 - 556.80

SIGNED BY _____
(W. Benham)

EASTING 8188.8
NORTHING 10374.9
ELEVATION 332.3
COLLAR SURVEY Northland Technical
LENGTH UNITS 556.8 metres
CORE SIZE NQ

SUMMARY LOG

INTERVAL		DESCRIPTION	INTERVAL		DESCRIPTION	INTERVAL		AVERAGE Au g/t
From	To		From	To		From	To	
478.70	480.70	MUDSTONE Sericitic, quartz + chlorite veins.			Quartz + carbonate granular breccia vein. Trace pyrite, chalcopyrite and galena.	539.50	539.80	
480.70	483.10	GRAYWACKE 480.70 - 481.00 Silicified zone, quartz + sericite ± pyrite.			2-3%, 0.5-5 cm wide granular carbonate veins @ 55° tca with trace pyrite chalcopyrite and galena.	546.00	549.00	
483.10	499.30	CONGLOMERATE GRAYWACKE/MUDSTONE Sericitic, foliated @ 30° tca, 3-4% qtz + albite ± py.			Carbonate ± quartz + berite(?) vein @ 55° tca with trace chalcopyrite and 2-3% galena.	547.50	547.95	
499.30	505.00	504.30 - 505.00 Fault @ 35° tca.						
505.00	510.00	CONGLOMERATE Sericitic, foliated @ 45° tca, trace pyrite.						
510.00	515.60	GRAYWACKE Sericitic. 515.00 - 515.60 Ductile shear @ 35° tca. 1-2% quartz veins, trace pyrite.		556.80				
515.60	556.80	ABB/LAPILLI TUFF 515.60 - 517.00 Weakly to moderately sericitic and fractured. Weakly foliated @ 45° tca. 517.00 - 556.80 Strongly magnetic. 525.75 - 526.15 Quartz + chlorite vein, trace pyrite and chalcopyrite.						

ASSAY SUMMARY

INTERVAL	LENGTH	AVERAGE
From	To	Au g/t
NOTE 1: No obvious reasons for the low geochemically anomalous gold assays for the interval from 468.0 to 474.0 m were found. Instead anomalous results were expected for the interval from 464.0 to 469.0 m. This section has narrow quartz veins with traces of pyrite and 1-5 mm chlorite + quartz ± pyrite fracture fillings. Since the assays results are very low, the core was not quartered in order to check for a possible error in the sampling of these two intervals.		

BATTLE MOUNTAIN (CANADA) INC. DIAMOND DRILL LOG

HOLE: AK-92-42

PAGE: 3 of 17

PROPERTY Amalgamated Kirtland
TOWNSHIP Teck
CLAIM No. L 491662, L 491663
STARTED June 16/92 ; Aug-13/92
COMPLETED June 24/92 ; Aug-15/92

June 17 - 28, 1992; August 15, 1992
 Mark Mason
 Heath & Sherwood
 Kirtland Late Warehouse
 B.M.C.I.
 Sperry Sun

EASTING 8188.8
NORTHING 10374.9
ELEVATION 332.3
COLLAR SURVEY Northland Technical
LENGTH 556.8
UNITS metres
CORE SIZE NQ

PURPOSE To test "102"/"103" structures @ 425 m level.
COMMENTS "104" structure @ 307.60 - 312.00, 4.40 m.
 "103" structure @ 399.00 - 450.10, 51.10 m.
 "102" structure @ 505.50 - 510.00, 4.50 m.
 Hole extended from 507.50 - 556.80

SIGNED BY _____

(W. Benham)

Depth	Method	Azimuth	Dip
Notes See table below for downhole surveys			

SUMMARY LOG

INTERVAL From To	DESCRIPTION			INTERVAL From To	DESCRIPTION			INTERVAL From To	ASSAY SUMMARY		
	Method	Azimuth	Dip		Method	Azimuth	Dip		LENGTH in metres	AVERAGE Au g/t	
	Collar	Compass	161	71							
	30.0	Acid		71							
	61.0	Acid		71							
	91.0	Acid		70							
	100.0	Sperry Sun	152	69							
	122.0	Acid		70							
	152.0	Acid		69							
	182.0	Acid		68							
	200.0	Sperry Sun	150	66							
	213.0	Acid		66							
	244.0	Acid		65							
	275.0	Acid		65							
	300.0	Sperry Sun	145	63							
	305.0	Acid		63							
	335.0	Acid		62							
	365.0	Acid		61							
	400.0	Sperry Sun	142	58.5							
	426.0	Acid		58							
	500.0	Sperry Sun	141	55.5							
	532.0	Sperry Sun	147	55							

BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG

INTERVAL		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
123.90	123.95	Fault @ 65° tca. Chlorite + sericite + quartz ± calcite. Sheared foliated lapilli tuff with tight chlorite slips and 5-7% white, irregular quartz pods and stringers. Trace chalcopyrite.										
126.10		Fault slip @ 50°. Sericite + chlorite. Moderately strong, tight, 2 mm wide, sericite + chlorite slip with weak gouge developed.										
129.25	227.60	GRAYWACKE Massive to poorly bedded, chlorite to sericitic, light grey-green graywacke to quartz arenite. Quite fine grained with 60-70% quartz and 10-15% fine grained lithics including Jasper. Unit typically contains 1-3% irregular, random fracturing infilled with white to grey quartz and/or quartz + chlorite stringers, 0.5 mm to 1 cm wide. Sericite alteration is patchy throughout. Undeformed, non-magnetic. Contains minor mudstone horizon and scattered angular mudstone chips. Weakly bedded @ 40-50° tca.										
136.05	136.30	Fault @ 65° tca. Chlorite + sericite + quartz. 20 cm wide white-grey, quartz ± albite vein bounded by strong, chloritic mud gouge slips, up to 0.5 cm wide. Trace spotty chalcopyrite.										
136.70		Fault @ 60° tca. Chlorite + sericite + quartz. 1 cm wide, strong chloritic mud gouge with minor white quartz ± albite veining.										
137.10		Fault @ 45° tca. Sericite + chlorite + quartz + calcite. 1-2 cm wide, crushed foliated graywacke bounded by tight sericitic slips, 1-3 mm wide with weak to moderate gouge developed.										
156.50	157.10	Fault @ 15-20° tca. Chlorite + sericite. Broken, rubby section. Strong, irregular low angle fault, up to 3 mm wide, with moderate-strong mud gouge.										
164.00	173.00	Pebbly graywacke (conglomerate) horizon with gradational contacts. Contains 2-10% angular to well rounded, polymictic clasts, up to 5 cm. Some mafic clasts are notably fuchsite.										
180.40	180.60	Foliated to weakly sheared zone. Sericite + chlorite + pyrite. Moderately well foliated graywacke @ 60° tca. Comprised of fine hairline chloritic seams with notably bleached sericitic halos, up to 1 cm wide, which carry trace - 1% fine grained pyrite proximal to seams.	3186	178.30	179.30	1.00						0.01
			3187	179.30	180.30	1.00						0.01
			3188	180.30	180.80	0.50						0.02
			3189	180.80	181.40	0.60						NIL
			3190	181.40	182.00	0.60						0.01
			3191	182.00	183.00	1.00						0.02

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-42

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Alt. g/t	Au/Check
		180.50										
		187.60 - 188.00										
		188.20 - 188.50										
		188.50 - 200.00										
		220.30 - 220.60										
		220.40										
		220.80 - 221.30										
227.60	247.60	CONGLOMERATE Massive to moderately well foliated chloritic to sericitic conglomerate with prominent clast elongation @ 30° tca. Poorly sorted, non-bedded polymictic pebblic conglomerate. Upper contact is a sharp, tight chloritic slip @ 45° tca. Matrix to framework supported with clasts ranging from 2 mm to 10 cm and sub-angular to well rounded.	3192	214.00	215.00	1.00			1-2	2-3	0.02	
			3193	215.00	216.00	1.00			1	3-4	0.03	
			3194	216.00	217.00	1.00			1	3-4	0.02	
			3195	217.00	218.00	1.00			Tr.	3-4	0.02	
			3196	218.00	219.00	1.00			Tr.	3-4	0.01	
			3197	219.00	219.60	0.60			Tr.	3-5	0.01	
			3198	219.60	220.20	0.60			Tr.	3-5	0.01	
			3199	220.20	220.70	0.50			Tr.	2	0.01	
			3200	220.70	221.30	0.60			3	5-7	0.01	
			3201	221.30	222.00	0.70			Tr.	1	2-3	0.02
			3202	222.00	222.70	0.70			2-3	5-7	0.01	
			3203	222.70	223.50	0.80			Tr.	2-3	0.01	
			3204	223.50	224.00	0.50					0.01	
			3205	224.00	225.00	1.00					0.01	
			3206	225.00	226.00	1.00					NIL	
			3207	226.00	227.00	1.00					NIL	
			3208	227.00	227.60	0.60					0.02	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-42

PAGE: 8 of 17

INTERVAL		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
247.60	287.20	<p>247.00 - 248.00 Series of light, 1-2 mm wide, chloritic fault slips @ 10° ica which somewhat obscures contact zone.</p> <p>LAPILLI TUFF Massive to moderately well foliated and clast elongation @ 30° ica. Comprised of 5-7% angular lapilli clasts, from 3 mm to 5 cm, in a very fine grained ash matrix. Predominant clast type (75%) is a very fine grained to spotted light grey-brown to buff trachyte. Secondary clasts are dark green and black-white spotted trachyte. Typically non-magnetic, chloritic and weakly to moderately sericitic.</p> <p>256.00 Fault slip @ 25° ica. Chlorite + sericite + quartz. Tight, strong chlorite slip, 2 mm wide, with 2-3% irregular narrow quartz stringers proximal to slip plane.</p> <p>250.00 - 267.00 Unit displays variable colours from light green to buff where sericitic and red-brown where it is locally hematitic. Section contains numerous low angle chloritic slips and fractures @ 10-25° ica.</p> <p>274.60 - 275.20 Diabase dyke @ 25° ica. Contacts are very sharp with 1-3 mm wide chill margins. Massive, dark green, very fine grained to aphanitic. Patchy magnetite.</p> <p>282.10 - 282.15 Fault @ 65° ica. Sericite + quartz. 3 cm wide, pink-brown quartz vein bounded by 2-3 mm wide, strong sericitic slips with moderate gouge developed.</p> <p>282.15 - 287.00 Lapilli tuff becomes notably bleached to a light grey colour and somewhat harder possibly silicified. Also notably sericitic (2-3%) with fine irregular hairline sericitic fractures. Weak foliation @ 30° ica. Section also carries trace to 3%, s 2 cm wide, white quartz veins subparallel to foliation. Occasionally subparallel veins carry trace fine grained pyrite on sericitic cleavages and vein walls.</p> <p>286.40 - 286.50 Fault @ 60°. Chlorite + sericite + quartz + albite. 6 cm wide, white quartz + albite vein with sharp tight slip walls and internal chloritic cleavage. Vein carries trace fine grained subhedral pyrite, possibly pseudomorphing (?) blue-grey galena(?).</p> <p>286.85 - 287.20 Lower contact zone is moderately well foliated with tight chloritic slips and 3-5% irregular quartz ± albite veins and pods with trace spotty pyrite.</p>										
			3209	281.00	282.00	1.00			1	2-3	0.03	
			3210	282.00	282.50	0.50			1-2	3-5	0.01	
			3211	282.50	283.00	0.50			Tr.	2-5	0.01	
			3212	283.00	284.00	1.00			Tr.	1-2	0.02	
			3213	284.00	285.00	1.00			1-3	2-5	0.02	
			3214	285.00	286.00	1.00			Tr.	2-3	0.01	
			3215	286.00	286.50	0.50			Tr.	2	2-5	0.01
			3216	286.50	287.20	0.70			Tr.	2-3	3-5	0.01

BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG

INTERVAL		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
287.20	366.00	<p>GRAYWACKE Chlorite. Massive to poorly bedded, fine to very fine grained, light grey-green, predominantly quartz rich (50-60%) graywacke with scattered angular mudstone chips. Weakly to moderately pervasively sericitic with finely disseminated spotty sericite in groundmass and irregular sericitic fractures 1-2 mm wide. Unit contains trace pyrite as finely scattered disseminations and as fine grained primary bands up to 2-3 mm wide.</p> <p>290.50 - 290.80 Series of fine grained pyritic bands, 1-3 mm wide. Primary bedding @ 50° tca.</p>	3217	287.20	288.00	0.80			1-2	2-3	0.02	
			3218	288.00	289.00	1.00			Tr.	2-3	0.02	
			3219	289.00	290.00	1.00					0.01	
			3220	290.00	291.00	1.00			1	Tr.	0.02	
			3221	291.00	292.00	1.00					0.01	
			3222	292.00	293.00	1.00					0.01	
			3223	293.00	294.00	1.00					0.01	
			3224	294.00	295.00	1.00					NIL	
			3225	295.00	296.00	1.00					0.01	
			3226	296.00	297.00	1.00					0.01	
			3227	297.00	298.00	1.00					0.02	
			3228	298.00	299.00	1.00			1	2-3	0.01	
			3229	299.00	300.00	1.00					0.01	
			3230	300.00	300.50	0.50					0.01	
			3231	300.50	301.00	0.50			1	2-3	NIL	
			3232	301.00	301.50	0.50			Tr.	2-3	0.01	
			3233	301.50	302.00	0.50					0.01	
			3234	302.00	303.00	1.00					0.01	
			3235	303.00	304.00	1.00			2-3	3-5	NIL	
			3236	304.00	305.00	1.00					0.01	
			3237	305.00	305.80	0.80					0.01	
			3238	305.80	306.50	0.70			1	1-2	0.01	
			3239	306.50	307.00	0.50					0.01	
			3240	307.00	307.50	0.50			Tr.	2-3	NIL	
			3241	307.50	308.20	0.70					0.02	
			3242	308.20	309.00	0.80			1-2	3-5	0.01	
			3243	309.00	310.00	1.00			1	3-5	0.02	
			3244	310.00	310.40	0.40			Tr.	3-5	0.01	
			3245	310.40	311.00	0.60	95		Tr.	1-2	0.04	

300.65 - 300.75 Quartz ± albite + sericite + pyrite vein. Irregular cream-grey quartz + albite vein with 1-2% fine grained pyrite occurring on 1 mm wide internal sutures and along vein walls.

304.60 - 306.30 Irregular tight sericitic slip subparallel tca. At 306.00, this slip truncates an irregular banded pyritic horizon with 3% pyrite across 5 cm (possibly primary pyrite).

307.60 - 308.10 Shear zone @ 55° tca. Sericite + quartz ± pyrite. Well foliated to schistose sericitic graywacke with tight strong sericite alips and shears. Section contains 2-3% patchy, irregular, white-brown quartz ± albite veins, stringers and pods up to 1 cm wide. These veins carry trace to 1% fine grained patchy pyrite on vein walls.

308.10 - 310.40 Graywacke is moderately well foliated and sericitic with occasional fuchsitic altered fragments evident.

310.40 - 312.00 Shear (fault) zone @ 55° tca. Sericite + chlorite + quartz ± pyrite. Moderately to strong deformed sericitic

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-42

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		graywacke (foliated to schistose) with numerous tight strong mud alips. Section contains 3-5% white to blue-grey quartz veins up to 5 cm wide which carry traces to 1% fine grained pyrite on vein sutures.										
	311.00 - 311.10	White to blue-grey quartz vein with strong, hairline sericitic fractures or alips which carry 1% fine grained pyrite. 2-3% dark red patchy hematitic staining (?).	3246	311.00	311.60	0.60		Tr.-1	3-5	10-15	15.96	17.38
	311.45	Strong mud gouge seam @ 60° tca. 0.5 cm wide. Proximal to gouge is an irregular white-pink quartz ± albite vein with trace spotty pyrite and chalcopyrite.	3247	311.60	312.30	0.70		Tr.	2-3	5-10	0.07	
	312.00 - 336.00	Unit is massive, undeformed, weakly sericitic, pristine graywacke.	3248	312.30	313.00	0.70		Tr.	3-5		0.01	
			3249	313.00	314.00	1.00		Tr.	2-3		0.02	
			3250	314.00	315.00	1.00		Tr.	2-3		0.01	
			3251	333.00	334.00	1.00			2-3		0.02	
			3252	334.00	335.00	1.00			2-3		0.03	
			3253	335.00	336.00	1.00			2-3		0.03	
	336.00 - 336.10	Fault @ 60°. Sericitic + quartz + albite ± pyrite. 5 cm wide, white-buff quartz ± albite vein bounded by strong, tight muddy sericitic alips. Also has irregular internal sericitic parting which frequently carries traces to 1% subbedral pyrite.	3254	336.00	336.50	0.50		Tr.	1-2	2-3	0.02	
			3255	336.50	337.00	0.50			1-2	2-3	0.02	
			3256	337.00	337.50	0.50					0.02	
	337.75 - 337.80	Quartz breccia vein @ 55° tca. Buff-white to blue-grey breccia vein with white quartz ± albite fragments (± 0.5 cm) in a blue-grey quartz groundmass. Vein carries 1-2% fine grained subbedral pyrite disseminations in the grey groundmass.	3257	337.50	338.00	0.50		Tr.	1-2	2-3	NIL	
	338.20 - 338.50	Fault zone @ 45-50 tca. Sericitic + chlorite + quartz + pyrite. Strongly deformed, foliated and sericitized graywacke with at least three stages of quartz flooding: i) milk-white irregular quartz + albite veins and pods parallel to foliation. ii) white quartz + albite veins @ 90° to foliation which often carry trace spotty chalcopyrite iii) dark blue-grey to white quartz parallel to foliation which carries 1 - 2% very fine grained pyrite on fine hairline fractures.	3258	338.00	338.50	0.50		Tr.-1	3-5	5-10	0.05	
			3259	338.50	339.00	0.50			2-3		0.03	
			3260	339.00	340.00	1.00		Tr.	1-2	2-3	0.03	
			3261	340.00	341.00	1.00					0.03	
			3262	341.00	342.00	1.00					0.02	
			3263	342.00	343.00	1.00					0.02	
			3264	343.00	344.00	1.00					0.05	
			3265	344.00	345.00	1.00					0.03	
			3266	359.00	359.90	0.90		Tr.	1	2-3	0.09	
			3267	359.90	360.90	1.00		Tr.	1	2-3	0.04	
			3268	360.90	361.90	1.00		Tr.	1	2-3	0.02	
			3269	361.90	362.50	0.60					0.02	

BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG

INTERVAL		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
380.30	385.90	CONGLOMERATE Massive, pristine polymictic pebble-cobble conglomerate. Poorly sorted, framework to matrix supported, chloritic groundmass. Clasts of jasper, volcanics, granuloids etc., ranging from 1-2 mm to 10+ cm, are generally well rounded. Lower contact is marked by a sharp, tight (2 mm) chloritic slip @ 55° tca.										
385.90	390.15	ALTERED TUFF/SYENITE/RED ROCK Albitized, massive, fine grained dark red-brown hematitic tuff or syenite "red rock". Very hard. Comprised of 3% fine dark green, subhedral crystals and crystal aggregates from 0.5-2 mm in size. Individual crystals are lath-shaped and may be chloritized amphibole/pyroxene. Groundmass is dark red-brown and aphanitic. Unit also contains 1-2% irregularly shaped masses of milk-white albite(?) up to 0.5 cm wide. Non-mineralized, non-magnetic. Surrounding sediments are unaltered and undeformed. Lower contact marked by a tight, sharp chloritic slip @ 55° tca.										
390.15	399.00	CONGLOMERATE Weakly foliated, weakly to moderately sericitic polymictic pebble conglomerate. Prominent clast elongation @ 40° tca. Unit is predominantly dark green and chloritic. Lower contact is marked by a 0.5 cm wide sericitic shear @ 60° tca.	3287	398.00	399.00	1.00			1-2	5-7		0.01
399.00	450.10	BLEACHED LAPILLI TUFF Massive to weakly foliated with clast elongation @ 40° tca. Comprised of 5-10% angular lapilli clasts from 1-2 mm to 10 cm (avg. 2-3 cm) floating in a very fine grained to aphanitic bleached sericitic matrix which is quite soft. Matrix varies in colour from light green (sericitic) to grey-brown to buff to red-brown. Non-magnetic. Clasts consist of dark green-black, often porphyritic to spotted trachyte and light red-brown fine grained trachyte.	3288 3289 3290 3291 3292 3293 3294 3295 3296 3297 3298 3299 3300	399.00 399.50 400.00 401.00 402.00 403.00 404.00 405.00 406.00 407.00 407.80 408.30 409.00 409.00	399.50 400.00 401.00 402.00 403.00 404.00 405.00 406.00 407.00 407.80 408.30 409.00 410.00	0.50 0.50 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.80 0.50 0.70 1.00		1-2 Tr.	2-3		0.38 0.02 NIL 0.01 0.02 NIL 0.01 0.01 0.01 0.02 0.05 0.02 0.01	
	408.00	1 cm wide, white quartz + albite vein @ 25° tca with traces, spotty pyrite and possibly very fine grained galena.							Tr.	1		

BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG

INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		432.10 - 432.70 Fault zone @ 55° tca. Sericite + chlorite + quartz ± pyrite. Strong sericitic shear with minor gouge developed. Comprised of 20-30% white-buff-pink quartz veining with strong, internal sericitic fracturing and shearing. Trace pyrite evident on some sericite alips within quartz vein.	3301	429.00	430.00	1.00					NIL	
			3302	430.00	431.00	1.00					NIL	
			3303	431.00	432.00	1.00					NIL	
			3304	432.00	432.70	0.70					1.19	1.11
			3305	432.70	433.50	0.80					0.02	
			3306	433.50	434.00	0.50					NIL	
			3307	434.00	435.00	1.00					0.01	
			3308	435.00	436.00	1.00					NIL	
			3309	436.00	437.00	1.00					0.01	
			3310	437.00	438.00	1.00					0.01	
			3311	438.00	439.00	1.00					NIL	
			3312	439.00	440.00	1.00					NIL	
			3313	440.00	441.00	1.00					NIL	
			3314	441.00	442.00	1.00					NIL	
			3315	442.00	443.00	1.00					0.01	
			3316	443.00	444.00	1.00					NIL	
			3317	444.00	445.00	1.00					0.01	
			3318	445.00	446.00	1.00					0.01	
			3319	446.00	447.00	1.00					0.02	
			3320	447.00	448.00	1.00					0.01	
			3321	448.00	449.00	1.00					0.01	
			3322	449.00	449.80	0.80					NIL	
			3323	449.80	450.50	0.70					0.02	
		442.00 - 449.95 Patchy to pervasive "crack and seal" fracturing infilled with chlorite and/or chlorite + quartz. In places unit displays a pseudo-brecciated character. Chlorite fractures range from hairline to 0.5 cm wide and carry sporadic trace pyrite in places.										
		449.95 - 450.10 Fault @ 25° tca. Sericite + chlorite + quartz + albite. 0.5 cm wide fault gouge with 0.5 cm wide quartz albite vein with sericite + chlorite walls. Matrix contact. Non-mineralized.										
450.10	468.00	GRAYWACKE Unit grades to a less deformed, less altered graywacke with a weak, pervasive spotty sericite and a weak foliation @ 40° tca. Graywacke contains 1-2% scattered, irregular quartz, quartz + albite and chloritic veins and stringers, up to 3 cm wide, parallel and oblique to foliation. Occasional vein has traces, spotty pyrite but generally are quite barren.										
		450.10 - 453.00 Sericitic and well foliated @ 20-40° tca with up to 3% quartz + albite veins and irregular masses up to 5 cm wide. Also displays a weak to moderate "crack and seal" fracturing infilled with chlorite ± quartz. Little to no sulphide evident.	3324	450.50	451.00	0.50					0.01	
			3325	451.00	452.00	1.00					0.01	
			3326	452.00	453.00	1.00					NIL	
			3327	453.00	454.00	1.00					NIL	
			3328	454.00	455.00	1.00					0.02	
			3329	455.00	456.00	1.00					0.02	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-42

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS							
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check			
468.00	478.90	<p>461.15 - 461.30 Sericitic shear @ 15° tca. 3-4 cm wide, moderately strong sericitic shear with 2-3% white to grey quartz and quartz breccia veinlets, ± 0.5 cm wide. Weak gouge developed on slip. Trace spotty pyrite.</p> <p>461.30 - 468.00 Graywacke is fractured and moderately sericitic with irregular chloritic fracturing ("crack and seal") sporadic quartz ± albite veining and nil to trace pyrite.</p> <p>466.35 - 466.45 Quartz + sericite + pyrite vein. White to grey to blue quartz vein @ 70° tca with strong, internal sericitic foliation and trace spotty pyrite on fractures.</p> <p>CONGLOMERATE Moderately well foliated and sericitic, polymictic pebble conglomerate. Prominent clast elongation @ 40° tca. Many clasts are pervasively sericitized and a few are notably fuchsite. Softer clasts are stretched and altered while quartz and granitoids remain well rounded and unaltered. In part intercalated with narrow, ±1 m wide, graywacke horizons. Upper and lower contacts sharp @ 30-40° tca.</p>	3330	456.00	456.90	0.90						0.02			
				3331	456.90	457.40	0.50							0.04	
				3332	457.40	458.00	0.60							0.02	
				3333	458.00	459.00	1.00							0.02	
				3334	459.00	459.90	0.90							0.03	
				3335	459.90	460.40	0.50							0.01	
				3336	460.40	461.00	0.60							0.02	
				3337	461.00	461.50	0.50							0.01	
						3338	461.50	462.00	0.50					NIL	
						3339	462.00	463.00	1.00					0.01	
						3340	463.00	464.00	1.00					0.01	
						3341	464.00	465.00	1.00					0.03	0.02
						3342	465.00	466.00	1.00					0.02	0.01
			3343	466.00	466.50	0.50					0.03	0.03			
			3344	466.50	467.10	0.60					0.01	0.01			
			3345	467.10	468.00	0.90					0.02	0.01			
468.00	478.90	<p>CONGLOMERATE Moderately well foliated and sericitic, polymictic pebble conglomerate. Prominent clast elongation @ 40° tca. Many clasts are pervasively sericitized and a few are notably fuchsite. Softer clasts are stretched and altered while quartz and granitoids remain well rounded and unaltered. In part intercalated with narrow, ±1 m wide, graywacke horizons. Upper and lower contacts sharp @ 30-40° tca.</p>	3346	468.00	469.00	1.00						0.18	0.10		
				3347	469.00	470.00	1.00						0.08	0.16	
				3348	470.00	471.00	1.00						0.31	0.24	
				3349	471.00	472.00	1.00						0.20	0.21	
				3350	472.00	473.00	1.00						0.37	0.21	
				3351	473.00	474.00	1.00						0.35	0.31	
				3352	474.00	475.00	1.00						0.03	0.02	
				3353	475.00	476.00	1.00						NIL	0.01	
				3354	476.00	477.00	1.00						0.02	0.02	
				3355	477.00	478.00	1.00						0.24	0.21	
				3356	478.00	478.90	0.90						0.01	0.01	
478.90	480.70	<p>MUDSTONE Massive, soft sericitic yellow-green to grey-brown, aphanitic mudstone. Moderate vein fracture set @ 30° tca with 1-2% quartz ± chlorite veins and stringers, up to 1 cm wide, which carry trace sporadic pyrite.</p>	3357	478.90	479.50	0.60						0.01			
				3358	479.50	480.00	0.50						0.03		
				3359	480.00	480.50	0.50						0.03		
			3360	480.50	481.00	0.50					0.02				

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-42

PAGE: 16 of 17

INTERVAL		DESCRIPTION	SAMPLE				ASSAYS							
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check		
515.60	556.80	510.00 - 515.00	Massive to weakly foliated, pervasively sericitic with 5% sericite in groundmass surrounding visible quartz grains. Mudstone chips are sericitic and minor volcanics are fuchsite.											
		511.50	510.00	511.00	1.00			Tr.	2-3	5-10		0.01		
			511.00	511.50	0.50			Tr.	1-2	5-7		0.01		
		511.50 - 512.55	Fault @ 40° tca. Tight, sharp sericite slip with a 3 mm wide quartz veinlet on slip wall. Graywacke is light yellow-green pervasively sericitized and weakly foliated.											
		512.55	511.50	512.00	0.50				1-2	10-15		NIL		
		512.20 - 512.55	Tight sericitic slip @ 40° tca. Open, vuggy quartz vein, 0.5 cm wide, on a sharp, sericitic fault slip @ 10° tca.											
			512.00	512.60	0.60			Tr.	1	10-15		NIL		
			512.60	513.10	0.50				1-2	5-7		NIL		
			513.10	514.00	0.90				1-2	5-7		NIL		
			514.00	515.00	1.00				1-2	5-7		NIL		
			515.00	515.70	0.70			Tr.	1-2	10-20		0.01		
				Fault (ductile shear) @ 35° tca. Well foliated to schistose to sheared graywacke with numerous, tight strong sericitic slips. Interstitial to slips graywackes are moderately sericitic and foliated and contain minor irregular quartz + albite veins and pods. Trace patchy disseminated pyrite. Shear zone matrix sediment/volcanic contact.										
ASEE/LAPILLI TUFF														
Massive, chloritic to hematitic, fine grained dark green to dark red-brown ash to a monolithic lapilli tuff comprised of 2-5% angular to subrounded red trachyte/tealite clasts up to 3 cm (same as monolithic block tuff but finer grained). Strongly magnetic. Contains 1-2% ubiquitous quartz ± albite veining up to 2 cm wide.														
		515.60 - 517.00	Weak to moderate fracturing and patchy sericitization as alteration halos adjacent to narrow, ± 0.5 cm wide, barren quartz + albite stringers. Weakly foliated @ 45° tca.											
		525.75 - 526.15	Irregular quartz + chlorite vein with sericitized wall rock fragments. Trace spotty pyrite ± chalcopyrite.											
		3964	515.70	516.50	0.80			1-2	5-7		0.03			
		3965	516.50	517.00	0.50			1-2	3-5		0.01			
		3966	517.00	518.00	1.00						0.02			
		3967	525.00	525.70	0.70			1-2	Tr.		0.01			
		3968	525.70	526.20	0.50			50	15		NIL			
		3969	526.20	527.00	0.80			2-3	2-3		NIL			
		3970	527.00	528.00	1.00			Tr.	Tr.		NIL			
		3971	537.50	538.00	0.50			2-3	Tr.	Tr.	NIL			
		3972	538.00	538.70	0.70			Tr.	Tr.		NIL			
		3973	538.70	539.40	0.70			Tr.	Tr.		0.02			

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-42

PAGE: 17 of 17

INTERVAL		DESCRIPTION	SAMPLE					ASSAYS																																										
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check																																						
		539.50 - 539.80 Quartz breccia vein. Buff-pink to brown quartz + carbonate (dolomite?) + barite(?) vein with angular well rock fragments up to 3 cm wide, (sucrocalc, granular texture). Very irregular contacts, quite soft. Vein contains minor blebby pyrite, chalcopyrite and trace galena.	3974	539.40	539.90	0.50		Tr.	60	Tr.	Gal.	Cpy.	NIL																																					
		546.00 - 549.00 Set of light buff-brown to pink sucrocalc textured ± quartz(?) carbonate (dolomite) + barite(?) breccia veins from 0.5-5 cm wide @ 55° tca. Veins contain angular well rock fragments (weakly altered) and very minor, spotty pyrite ± chalcopyrite ± galena. No alteration halos.	3975	539.90	540.50	0.60							0.01																																					
			3976	540.50	541.00	0.50							0.01																																					
			3977	545.00	545.90	0.90							0.01																																					
			3978	545.90	546.50	0.60							0.01																																					
			3979	546.50	547.00	0.50							NIL																																					
			3980	547.00	547.50	0.50							NIL																																					
		547.50 - 547.95 A 40-45 cm wide vein as above with trace, spotty pyrite and 2-3% galena.	3981	547.50	548.00	0.50		Tr.	75	Tr.	Cpy.	2-3% Gal.	NIL																																					
		551.60 Fault @ 15° tca. Chlorite + quartz + albite. Sharp chloritic slip with a 1 cm quartz + albite vein.	3982	548.00	549.00	1.00		Tr.	2-3	Tr.	Cpy.		NIL																																					
			3983	549.00	550.00	1.00							0.01																																					
556.80		E. O. H. Casing left in hole.																																																
		Additional Assays																																																
		<table border="0"> <tr> <td>Sample No.</td> <td>Ag (ppm)</td> <td>Cu (ppm)</td> <td>Mo (ppm)</td> <td>Pb (ppm)</td> <td>Zn (ppm)</td> <td>Tl (ppm)</td> </tr> <tr> <td>3978</td> <td>0.1</td> <td>205</td> <td>3</td> <td>4</td> <td>76</td> <td>1</td> </tr> <tr> <td>3979</td> <td>0.1</td> <td>184</td> <td>4</td> <td>5</td> <td>81</td> <td>1</td> </tr> <tr> <td>3980</td> <td>0.1</td> <td>109</td> <td>4</td> <td>5</td> <td>47</td> <td>1</td> </tr> <tr> <td>3981</td> <td>0.9</td> <td>507</td> <td>2</td> <td>5320</td> <td>20</td> <td>1</td> </tr> <tr> <td>3982</td> <td>0.5</td> <td>107</td> <td>3</td> <td>29</td> <td>88</td> <td>1</td> </tr> </table>	Sample No.	Ag (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Zn (ppm)	Tl (ppm)	3978	0.1	205	3	4	76	1	3979	0.1	184	4	5	81	1	3980	0.1	109	4	5	47	1	3981	0.9	507	2	5320	20	1	3982	0.5	107	3	29	88	1						
Sample No.	Ag (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Zn (ppm)	Tl (ppm)																																												
3978	0.1	205	3	4	76	1																																												
3979	0.1	184	4	5	81	1																																												
3980	0.1	109	4	5	47	1																																												
3981	0.9	507	2	5320	20	1																																												
3982	0.5	107	3	29	88	1																																												

BATTLE MOUNTAIN (CANADA) INC. DIAMOND DRILL LOG

HOLE: AK-92-43

PAGE: 1 of 16

PROPERTY Amalgamated Kirtland
TOWNSHIP Teck
CLAIM No. L 491651
STARTED June 26, 1992
COMPLETED July 7, 1992

DATE LOGGED June 27, 1992 - July 8, 1992
LOGGED BY Mark Mission
DRILLED BY Heath & Sherwood
CORE LOCATION Kirtland Labs Warehouse
DOWNHOLE SURVEYOR B.M.C.I.
SURVEY INSTRUMENT Sperry Sun

EASTING 8095.5
NORTHING 9985.0
ELEVATION 333.3
COLLAR SURVEY Northland Technical
LENGTH 648.1 metres
UNITS
CORE SIZE NQ

PURPOSE To test "102"/"103" structures.

COMMENTS "102" structure @ 448.40 - 470.50, 22.10 m.
 "103" structure @ 549.00 - 563.80, 14.80 m.
 "104" structure @ 591.00 - 607.60, 16.60 m.

SIGNED BY


(W. Benham)

Depth	Method	Assessment	Dip
Notes:	See table at end of summary log for downhole surveys		

SUMMARY LOG

INTERVAL		DESCRIPTION	INTERVAL		DESCRIPTION	INTERVAL		ASSAY SUMMARY	
From	To		From	To		From	To	LENGTH in metres	AVERAGE Au g/t
0.00	4.00	OVERBURDEN	448.40	470.50	1% quartz + albite ± chlorite ± pyrite veins.	536.00	563.80	27.80	0.18
4.00	7.00	LAPILLI TUFF/GRAYWACKE/MUDSTONE	454.20	454.30	Fault @ 25° tca, molybdenite + pyrite.	536.00	537.50	1.50	0.19
7.00	19.80	ASH TUFF	485.00	543.50	Bleached, sericitic.	546.00	547.00	1.00	0.15
19.80	57.50	LAPILLI TUFF/ASH TUFF	543.50	569.80	Patchy dark blue-grey, pyritic and silicified zone.	549.00	563.80	14.80	0.29
57.50	66.10	27.40 - 28.20 Fault @ 10-15° tca. 56.00 - 57.50 Fault @ 0-15° tca. ASH TUFF	549.10	549.20	Quartz + chlorite + sericite + pyrite vein @ 60° tca, 1-2% py.	549.00	553.00	4.00	0.67
66.10	68.70	66.10 Fault @ 25° tca. LAPILLI/BLOCK TUFF	549.20	552.00	Trace-1% pyrite, silicified.	554.90	555.50	0.60	0.28
68.70	140.80	ASH/LAPILLI TUFF	552.00	554.85	Bleached, 1-2% albite clots.	563.30	563.80	0.50	2.31
140.80	169.30	LAPILLI/ASH TUFF	563.60		2 cm quartz + pyrite vein @ 70° tca, 2% pyrite.	591.00	596.00	5.00	0.15
169.30	183.60	140.60 - 156.00 Fractured, sericitic, 1-3% pyrite. LAPILLI TUFF	569.80	575.30	Sericitic.	606.70	607.60	0.90	0.11
183.60	193.40	182.20 - 183.60 Sheared @ 10-25° tca. ASH TUFF	591.70	597.00	CONGLOMERATE				
193.40	240.90	ASH TUFF			Sericite, foliated @ 40-45° tca., 1-2% quartz + albite veins with pyrite ± galena.				
240.90	317.60	Magnetite beds @ 20-30° tca. LAPILLI TUFF	597.00	597.90	BIL.TSTONE/MUDSTONE				
317.60	591.70	Massive to foliated @ 25-35° tca. 297.30 - 298.50 Fault @ 15° tca. GRAYWACKE	597.90	648.10	Sericitic.				
		447.35 - 448.40 Fault @ 5° tca.			GRAYWACKE				
					597.90 - 626.80 Chloritic, weakly to moderately sericitic.				

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-43

PAGE: 2 of 16

PROPERTY	Amalgamated Kirtland	DATE LOGGED	June 27, 1992 - July 8, 1992	EASTING	8095.5
TOWNSHIP	Teck	LOGGED BY	Mark Mason	NORTHING	9985.0
CLAIM No.	L 491651	DRILLED BY	Heath & Sherwood	ELEVATION	333.3
STARTED	June 26, 1992	CORE LOCATION	Kirtland Lake Warehouse	COLLAR SURVEY	Northland
COMPLETED	July 7, 1992	DOWNEHOLE SURVEYOR	B.M.C.I.	LENGTH	648.1
		SURVEY INSTRUMENT	Sperry Sun	UNITS	metres
				CORE SIZE	NQ

PURPOSE To test "102"/"103" structures.

COMMENTS "102" structure @ 448.40 - 470.50, 22.10 m.
 "103" structure @ 549.00 - 563.80, 14.80 m.
 "104" structure @ 591.00 - 607.60, 16.60 m.

SIGNED BY _____
 (W. Benham)

Depth	Method	Azimuth	Dip
Notes:			
	See table at end of summary log for downhole surveys		

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
597.90 - 608.00	2-4% quartz + albite + chlorite veins ± pyrite.					
606.70 - 607.50	Quartz + albite + sericitic + pyrite veins @ 30° tca., 1-2% pyrite.					
624.30 - 626.80	Foliated @ 60° tca.					
626.80 - 648.10	Chloritic, weakly sericitic.					
648.10	E O H					

BATTLE MOUNTAIN (CANADA) INC. DIAMOND DRILL LOG

HOLE: AK-92-43

PAGE: 3 of 16

PROPERTY Amalgamated Kirkland
TOWNSHIP Teck
CLAIM No. L 491651
STARTED June 26, 1992
COMPLETED July 7, 1992

DATE LOGGED June 27, 1992 - July 8, 1992
LOGGED BY Mark Mason
DRILLED BY Heath & Sherwood
CORE LOCATION Kirkland Labs Warehouse
DOWNHOLE SURVEYOR B.M.C.I.
SURVEY INSTRUMENT Sperry Sun

EASTING 8095.5
NORTHING 9985.0
ELEVATION 333.3
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SIGNED BY _____
 (W. Benham)

Depth	Method	Azimuth	Dip
Notes: See table below for downhole surveys			

SUMMARY LOG

INTERVAL From To	DESCRIPTION			INTERVAL From To	DESCRIPTION				
	Depth	Method	Azimuth	Dip		Depth	Method	Azimuth	Dip
	Collar	Compass	341	73		385.0	Sperry Sun	319	59
	23.0	Sperry Sun	338	72		425.0	Sperry Sun	318	58
	30.0	Acid		72		529.0	Sperry Sun	317	54
	60.0	Acid		71		574.0	Sperry Sun	319	51
	90.0	Acid		69.5		620.0	Sperry Sun	320	50
	129.0	Sperry Sun	330	70					
	161.0	Sperry Sun	331	69.5					
	187.0	Sperry Sun	329	69					
	255.0	Sperry Sun	327	68					
	325.0	Sperry Sun	325	62					
	337.0	Sperry Sun	320	61.5					

ASSAY SUMMARY			
INTERVAL From To	LENGTH in metres	AVERAGE Au g/t	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-43

PAGE: 7 of 16

INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
			No.	From	To	Length	%Rec	%Py	%QV	%Ser	Alt, g/t	Alt, Check
169.30	183.60	<p>157.70 - 158.60 Fault slip @ 10-15° ica with a 1-2 cm wide, dislocated quartz ± albite vein.</p> <p>LAPILLI TUFF Massive to weakly foliated, chloritic + sericitic ± pyritic, light grey-green heterolithic lapilli tuff. Comprised of 5-10% angular lapilli clasts from 0.2-3 cm (avg. 1 cm) in a very fine grained grey ash matrix. Clasts are light green, sericitic spotted trachyte, grey-brown to buff and dark green volcanics in roughly equal proportions. Matrix displays weak to moderate pervasive sericite. Non-magnetic, non-deformed. In places matrix displays a dark grey-brown colouration due to very fine grained to aphanitic, semi-massive pyrite flooding. Pyrite occurs as fine patchy pyrite in groundmass and semi-massive aphanitic pyrite on a weak to moderate wispy foliation interstitial to lapilli clasts @ 10-30° ica.</p> <p>173.90 - 173.95 Fault slip @ 45° ica. Tight chloritic slip, bounded by a 3-4 cm wide, milk white quartz + albite vein.</p> <p>176.20 Fault slip @ 25° ica. Sericite + quartz + albite + pyrite. Tight, 2-3 mm wide, sericite slip with weak gouge developed. Slip face has a blue-grey tinge due to fine grained smeared pyrite.</p> <p>176.20 - 178.50 Lapilli tuff displays a weak to moderate wispy foliation @ 10-30° ica which carries trace-3% aphanitic pyrite.</p>	3400	157.00	157.70	0.70			Tr:	2-3	0.01	
			3401	157.70	158.70	1.00			Tr:	5-10	0.01	
			3402	158.70	159.50	0.80			Tr:	2-3	0.02	
			3403	159.50	160.00	0.50			Tr:	2-3	0.01	
			3404	160.00	161.00	1.00			Tr-1	2-3	0.02	
			3405	161.00	162.00	1.00			Tr-1	2-3	0.01	
			3406	162.00	163.00	1.00			1-2	2-3	0.02	
			3407	163.00	164.00	1.00			Tr:	2-3	0.01	
			3408	164.00	165.00	1.00			Tr:	2-3	0.01	
			3409	165.00	166.00	1.00			NIL	NIL	0.01	
			3410	166.00	167.00	1.00			Tr:	2-3	0.01	
			3411	167.00	168.00	1.00			Tr:	2-3	NIL	
			3412	168.00	168.50	0.50			Tr:	NIL	0.01	
3413	168.50	169.30	0.80			NIL	Tr:	0.01				
169.30	183.60	<p>3414</p>	169.30	170.00	0.70			Tr:	2-3	0.01		
			3415	170.00	171.00	1.00			Tr:	2-3	0.02	
			3416	171.00	172.00	1.00			Tr:	1-2	NIL	
			3417	172.00	173.00	1.00			Tr:	2-5	0.01	
			3418	173.00	173.80	0.80			Tr:	2-5	NIL	
			3419	173.80	174.50	0.70			1-2	1-2	NIL	
			3420	174.50	175.00	0.50			Tr:	1-2	0.02	
			3421	175.00	176.00	1.00					0.01	
			3422	176.00	177.00	1.00			1-3	1-2	0.02	
			3423	177.00	178.00	1.00			1-3	1-2	0.01	
			3424	178.00	178.50	0.50			1	Tr:	0.02	
			3425	178.50	179.00	0.50			Tr:	Tr:	0.01	
			3426	179.00	180.00	1.00			Tr:	1-2	0.01	
3427	180.00	180.50	0.50			Tr:	Tr:	0.01				

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-43

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INTERVAL FROM TO	DESCRIPTION	SAMPLE					ASSAYS				
		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
	lapilli clasts from 2-3 mm to 5 cm (avg. 1 cm) in a very fine grained ash groundmass. Clasts are light to dark green, buff-brown and light grey trachyte in roughly equal proportions. In part intercalated with ash tuff of equivalent composition. Patchy strong magnetica. Lower contact is a sharp, tight chloritic slip @ 30° tca.										
	244.30 - 244.50 Quartz + albite + sericite shear @ 30° tca. Barren, weak sericite shear infilled with 2-3 cm wide, white-pink quartz ± albite vein.										
	259.00 - 263.50 Unit is moderately well foliated @ 30° tca, wealty to moderately sericitic.										
	265.30 - 266.60 Siltstone horizon, medium green, aphanitic siltstone with sharp, irregular contacts.										
	278.00 - 278.60 Spotted dyke @ 10° tca. (diabase?). 4 cm wide, porphyritic dyke comprised of 5-7% subbedral phenocrysts (lath-shaped, pseudo hexagonal cross section) up to 0.5 cm in an aphanitic (diabasic?) groundmass. Sharp contacts. Strongly magnetic.										
	297.30 - 298.50 Fault zone @ 15° tca. Very strong chloritic mud gouge break. Broken rubby open fault. Surrounding tuff is sericitic foliated and fractured from 295.50 - 302.00 m with numerous tight mud slips throughout. Barren non-mineralized, minor quartz + albite veining.										
	313.40 Fault @ 70° tca. Chlorite + quartz + albite. 1-2 cm wide, barren quartz + albite vein bounded by sharp tight chloritic slips.										
317.60	GRAYWACKE Massive, chloritic to sericitic, light to dark green, fine grained graywacke with 1% scattered angular mudstone chips and jasper fragments. Undeformed with weak pervasive spotty sericite. In part unit grades to pebbly graywacke. Unit contains 1-2% barren white quartz ± albite stringers, up to 3 cm wide, throughout which occasionally contain minor amounts of chalcopyrite. Prominent vein set @ 20° tca.	3435	346.00	347.00	1.00						0.01
591.70	347.40 Fault @ 25° tca. Chlorite + quartz ± albite. 3 cm wide, white-buff quartz vein with internal barren chloritic suturing. Bounded by sharp chloritic slips.	3436	347.00	348.00	1.00						0.01
	350.30 Fault @ 45° tca. Chlorite + quartz ± albite. 1-2 cm wide, fault gouge mud.	3437	348.00	349.00	1.00						0.01
		3438	349.00	350.00	1.00						0.01
		3439	350.00	350.80	0.80						0.01
		3440	350.80	351.40	0.60						0.03
						Tr:	1	Tr:			
						Tr:	2	Tr:			
						Tr:	1	Tr:			
						Tr:	2-3	Tr:	3-5		
						Tr:	2-3	Tr:	2-3		

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

BOLE: AK-92-43

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INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%OV	%Ser	Au, g/t	Au, Check
	350.30 - 351.90	Graywacke is moderately foliated, moderately sericitic and contains 3% barren quartz and quartz + chlorite veins up to 1 cm wide.	3441	351.40	351.90	0.50		Tr.	2-3	3-5		0.02
	351.90 - 353.00	Fault @ 5-10" tca. Chlorite + sericite + quartz. Irregular wispy slips subparallel tca with weak gouge developed.	3442	351.90	352.50	0.60		Tr.	5-7	5-10	Cpy.	0.02
		Quartz ± albite vein is white-brown with internal sericitic suturing and fracturing. Vein carries trace spoty pyrite and minor chalcopyrite clots.	3443	352.50	353.20	0.70		Tr.	5-7	5-10	Cpy.	0.04
			3444	353.20	354.00	0.80		Tr.	Tr.	2-3		0.02
			3445	354.00	355.00	1.00		Tr.	1	3-5		0.01
			3446	355.00	356.00	1.00		Tr.	Tr.	2-3		NIL
			3447	395.00	396.00	1.00						0.02
			3448	396.00	397.00	1.00						0.01
			3449	397.00	398.00	1.00						0.02
			3450	398.00	399.00	1.00						0.01
			3451	399.00	399.50	0.50						0.01
	399.90	3 cm wide, white quartz + albite vein @ 80° tca. Vein has strong internal sericitic suturing and fractures which carry 1-2% very fine grained pyrite. Bounded by sharp irregular sericite slips.	3452	399.50	400.00	0.50		Tr.	1	2-3		NIL
			3453	400.00	401.00	1.00						0.01
			3454	401.00	402.00	1.00						0.01
			3455	402.00	403.00	1.00						0.01
			3456	441.00	442.00	1.00			Tr.	Tr.		0.01
			3457	442.00	443.00	1.00			Tr.	Tr.		0.02
			3458	443.00	444.00	1.00			Tr.	Tr.		0.02
			3459	444.00	445.00	1.00						0.01
			3460	445.00	446.00	1.00						0.02
			3461	446.00	446.80	0.80			Tr.	1-2		0.01
	447.35 - 448.40	Fault @ 5° tca. Sericite + quartz + albite. Strong irregular sericite slip subparallel tca with 3% patchy quartz ± albite veining up to 2 cm wide. Weak mud gouge developed, broken rubby. Very minor pyrite evident as small clots.	3462	446.80	447.30	0.50		Tr.	Tr.	2-3		0.01
			3463	447.30	448.00	0.70	95	Tr.	2-3	5-10		NIL
			3464	448.00	448.50	0.50		Tr.	1-2	5-7		NIL
			3465	448.50	449.00	0.50		Tr.	Tr.	3-5		NIL
	448.40 - 453.00	Graywackes are moderately deformed and sericitic with trace spoty pyrite. Unit also contains 1% white quartz + albite ± chlorite veins, up to 2 cm wide, which occasionally have trace pyrite ± chalcopyrite in places.	3466	449.00	450.00	1.00		Tr.	Tr.	3-5		NIL
			3467	450.00	451.00	1.00		Tr.	1	3-5		0.01
			3468	451.00	452.00	1.00		Tr.	Tr.	3-5		0.02
			3469	452.00	453.00	1.00		Tr.	Tr.	3-5		0.01
	453.10 - 453.30	Two, 1-2 cm wide, quartz + albite veins @ 50° tca with trace pyrite on internal sericitic suturing. Graywackes are quite sericitic proximal to veins.	3470	453.00	453.50	0.50		Tr.	2	5-7		0.04
			3471	453.50	454.00	0.50		Tr.	Tr.	3-5		0.03

**BATTLE MOUNTAIN (CANADA) INC.
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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check	
		454.20 - 454.30 Fault @ 25° tca. Chlorite + sericite + quartz. 5 cm wide, blue-green quartz + chlorite vein bounded by strong slip faces with moderate to strong mud gouge. Trace spotty pyrite. Fault slip have a blue-grey tinge and may contain smeared molybdenite + pyrite.	3472	454.00	454.50	0.50		Tr.	2-3	5-7	0.02		
			3473	454.50	455.00	0.50		Tr.	Tr.	3-5	0.01		
			3474	455.00	456.00	1.00		Tr.	Tr.	Tr.	0.03		
			3475	456.00	457.00	1.00		Tr.	Tr.	Tr.	0.06		
			3476	457.00	458.00	1.00		Tr.	Tr.	Tr.	0.02		
			3477	458.00	459.00	1.00		Tr.	Tr.	2-3	0.02		
			3478	459.00	460.00	1.00		Tr.	Tr.	3-5	0.02		
			3479	460.00	460.50	0.50		Tr.	Tr.	5-7	0.02		
		460.50 - 461.85 Quartz ± albite + chlorite ± pyrite vein @ 10° tca. Very irregular white to grey quartz + albite vein with irregular internal fracturing infilled with sericite + chlorite and minor pyrite + chalcopyrite.	3480	460.50	461.00	0.50		Tr.	20-30	1	0.02		
			3481	461.00	461.50	0.50		1	10-15	5-7	0.03		
			3482	461.50	462.00	0.50		Tr.	2-3	3-5	0.02		
			3483	462.00	463.00	1.00		Tr.	Tr.	2-3	0.02		
		461.05 - 461.45 A 2-3 mm wide, dark chlorite vein or slip with 2-3% sphenitic pyrite.	3484	463.00	464.00	1.00		1	3-5	5-7	0.01		
			3485	464.00	464.50	0.50		Tr.	Tr.	2-3	0.02		
		464.00 - 464.50 Fault slip @ 10° tca. Chlorite + sericite + quartz. 1-2 mm wide, dark grey chlorite + sericite slip with 3-5% (?) sphenitic pyrite. Adjacent to this slip is a 2-3 cm wide, quartz + albite vein with trace spotty pyrite on sericitic fracturing within vein.	3486	464.50	465.00	0.50					0.03		
			3487	465.00	466.00	1.00				1-3	0.02		
			3488	466.00	467.00	1.00				1-3	0.01		
			3489	467.00	468.00	1.00					0.02		
			3490	468.00	469.00	1.00					0.02		
			3491	469.00	470.00	1.00					0.01		
		470.20 - 470.50 Two quartz + albite + chlorite veins up to 3 cm wide, @ 20° tca. Moderate internal fracturing, pseudo-brecciated by irregular chlorite + sericite suturing. Barren.	3492	470.00	470.60	0.60			2-3	2-3	0.02		
			3493	470.60	471.50	0.90			Tr.	1-3	0.02		
			3494	471.50	472.00	0.50		Tr.	Tr.	1-3	0.01		
			3495	472.00	473.00	1.00		Tr.	Tr.	2-3	0.02		
		473.20 Fault slip @ 55° tca. Sericite + quartz + albite. Tight sharp sericite slip with a 1 cm wide, fractured quartz + albite vein.	3496	473.00	473.50	0.50					NIL		
			3497	473.50	474.00	0.50				1-3	0.02		
			3498	474.00	475.00	1.00				Tr.	0.02		
			3499	475.00	476.00	1.00				Tr.	0.01		
			3500	476.00	477.00	1.00				Tr.	0.01		
			3501	477.00	478.00	1.00				Tr.	0.01		
			3502	478.00	479.00	1.00				Tr.	0.01		
			3503	479.00	480.00	1.00				Tr.	0.01		
			3504	480.00	481.00	1.00				Tr.	0.05		
			3505	481.00	482.00	1.00				Tr.	0.01		
		482.40 - 483.15 Series of quartz + albite ± chlorite veins with minor angular wall rock inclusions. Veins are quite irregular, 0.5-2 cm wide and contain trace spotty pyrite ± chalcopyrite.	3506	482.00	482.60	0.60			Tr.	1	1-3	0.01	
			3507	482.60	483.20	0.60		Tr.	2-3	1-3	NIL		
			3508	483.20	484.00	0.80				Tr.	NIL		
			3509	484.00	484.50	0.50				3-5	0.02		
			3510	484.50	485.10	0.60		Tr.	3	5-7	NIL		

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		485.00 - 542.00 Graywackes are somewhat bleached to a light green colour, are moderately sericitic and weakly to non-deformed. Mudstone clasts are yellow-green and sericitic. Some volcanics are notably fuchsite and elongated while harder clasts (ie. quartz, jasper, etc.) are untouched.	3511	485.10	486.00	0.90				1-3	0.01	
			3512	486.00	487.00	1.00			Tr.	Tr.	0.01	
			3513	487.00	488.00	1.00				Tr.	0.02	
			3514	488.00	489.00	1.00				Tr.	0.01	
			3515	509.00	510.00	1.00				3-5	0.03	
			3516	510.00	510.50	0.50				3-5	0.02	
			3517	510.50	511.00	0.50				3-5	0.01	
			3518	511.00	512.00	1.00				3-5	NIL	
			3519	512.00	513.00	1.00				3-5	NIL	
		513.45	3520	513.00	513.60	0.60				3-5	0.01	
			3521	513.60	514.20	0.60				3-5	0.01	
		514.30	3522	514.20	514.80	0.60				3-5	0.01	
			3523	514.80	515.50	0.70				3-5	0.01	
			3524	515.50	516.00	0.50				3-5	0.01	
		514.30 - 514.80	3525	516.00	517.00	1.00				3-5	0.01	
			3526	533.00	534.00	1.00				3-5	0.08	
			3527	534.00	535.00	1.00				3-5	0.02	
			3528	535.00	535.50	0.50				3-5	0.02	
			3529	535.50	536.00	0.50				3-5	0.01	
			3530	536.00	537.00	1.00				3-5	0.15	
			3531	537.00	537.50	0.50				3-5	0.26	
			3532	537.50	538.00	0.50				3-5	0.03	
		537.90	3533	538.00	539.00	1.00				3-5	0.03	
			3534	539.00	540.00	1.00				3-5	0.02	
			3535	540.00	541.00	1.00				3-5	0.02	
			3536	541.00	542.00	1.00				3-5	0.02	
			3537	542.00	543.00	1.00				2-3	0.02	
			3538	543.00	543.50	0.50				2-3	0.04	
		543.30 - 569.80	3539	543.50	544.00	0.50				2-3	0.06	
			3540	544.00	545.00	1.00				2-3	0.05	
			3541	545.00	546.00	1.00				3-5	0.05	
			3542	546.00	547.00	1.00				3-5	0.15	
			3543	547.00	548.00	1.00				3-5	0.01	
			3544	548.00	548.50	0.50				3-5	0.02	

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DIAMOND DRILL LOG**

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		548.60 - 548.65	3545	548.50	549.00	0.50		Tr.	2	3-5		0.02
		549.10 - 549.20	3546	549.00	549.50	0.50		1-2	3	5-10		0.76
		549.20 - 552.00	3547	549.50	550.30	0.80		1-2	1	5-10		0.69
			3548	550.30	551.10	0.80		Tr.-1	3	5-7		0.86
		551.00	3549	551.10	551.60	0.50		1-2	Tr.	5-7		1.00
		551.85 - 552.00	3550	551.60	552.10	0.50		1-2	3	5-7		0.93
		552.00 - 554.85	3551	552.10	553.00	0.90		Tr.		5-10		0.11
			3552	553.00	554.00	1.00		Tr.		5-10		0.02
		554.85 - 569.80	3553	554.00	554.90	0.90		Tr.		5-10		0.01
			3554	554.90	555.50	0.60		Tr.		3-5		0.28
			3555	555.50	556.00	0.50		Tr.		3-5		0.05
			3556	556.00	556.80	0.80		Tr.		3-5		0.02
			3557	556.80	557.50	0.70		Tr.		5-7		0.01
		557.50 - 557.75	3558	557.50	558.00	0.50		Tr.-1		5-7		0.05
			3559	558.00	558.70	0.70		NIU-Tr.		5-7		0.02
			3560	558.70	559.20	0.50		Tr.		5-7		0.01

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
	559.90	Fault slip @ 55° tea. Chlorite + quartz ± pyrite. Sharp tight chlorite slip with a 0.5 cm quartz vein and 1% fine grained pyrite on sericitic foliation.	3561	559.20	560.00	0.80		Tr.-1	Tr.	5-7	0.02	
	561.30		3562	560.00	561.00	1.00		Tr.	Tr.	3-5	0.01	
	563.35 - 563.60	Quartz + pyrite stringers. Narrow, 1-3 mm wide, irregular blue-grey quartz stringers with 1-2% very fine grained pyrite infilling weak fracturing.	3563	561.00	561.50	0.50		Tr.	Tr.	3-5	0.07	
	563.60		3564	561.50	562.00	0.50		Tr.	Tr.	3-5	0.03	
		Unit displays a weak "crack and seal" fracturing with blue-grey quartz + pyrite infilling. Fractures are hairline to 1 mm wide.	3565	562.00	562.50	0.50		Tr.	Tr.	3-5	0.02	
			3566	562.50	563.30	0.80		Tr.	Tr.	3-5	0.04	
		Quartz + pyrite vein @ 70° tea. 2 cm wide, dark blue-grey to white quartz vein with 1-2% very fine grained to blebby pyrite.	3567	563.30	563.80	0.50		Tr.-1	1	3-5	2.36	2.26
			3568	563.80	564.40	0.60		Tr.	Tr.	3-5	0.07	
		Blue-grey tinge through the mineralized zone gives way rapidly to a bleached sericitic graywacke with little to no mineralization.	3569	564.40	565.00	0.60		Tr.	Tr.	3-5	0.06	
			3570	565.00	566.00	1.00		Nil-Tr	Tr.	3-5	0.01	
		Massive to weakly foliated, light grey-green to yellow graywacke with up to 3% scattered pebbles and mudstone chips. Many fragments are pervasively sericitized and groundmass is weakly to moderately sericitic. Unit contains 1-2% milk-white irregular quartz + albite veins, pods and stringers and trace, patchy disseminated pyrite.	3571	566.00	567.00	1.00		Nil-Tr	1-2	3-5	0.03	
			3572	567.00	568.00	1.00		Tr.	Tr.	3-5	0.04	
		Massive to weakly foliated, light grey-green to yellow graywacke with up to 3% scattered pebbles and mudstone chips. Many fragments are pervasively sericitized and groundmass is weakly to moderately sericitic. Unit contains 1-2% milk-white irregular quartz + albite veins, pods and stringers and trace, patchy disseminated pyrite.	3573	568.00	569.00	1.00		Nil-Tr	Tr.	3-5	0.03	
			3574	569.00	569.80	0.80		Nil-Tr	Tr.	3-5	0.01	
		Massive to weakly foliated, light grey-green to yellow graywacke with up to 3% scattered pebbles and mudstone chips. Many fragments are pervasively sericitized and groundmass is weakly to moderately sericitic. Unit contains 1-2% milk-white irregular quartz + albite veins, pods and stringers and trace, patchy disseminated pyrite.	3575	569.80	570.50	0.70		Nil	Tr.	5-10	0.01	
			3576	570.50	571.00	0.50		Tr.	2	5-10	0.01	
		Massive, graywacke, weakly to moderately sericitic. 1-2% scattered mudstone chips.	3577	571.00	572.00	1.00		Nil-Tr	Tr.	5-10	NIL	
			3578	572.00	573.00	1.00		Tr.	Tr.	5-10	0.01	
		1-2 cm wide, white quartz ± albite vein @ 5° tea. Minor blue-grey quartz patches with minor spotty pyrite ± chalcopyrite.	3579	573.00	574.00	1.00		Tr.	Tr.	5-7	0.01	
			3580	574.00	575.00	1.00		Tr.	Tr.	5-7	NIL	
	575.30 - 591.70	CONGLOMERATE Massive to moderately well foliated @ 40-45° tea, moderately sericitic. Matrix supported, polymictic pebble conglomerate. Softer clasts (trachyte, mudstone, mafic volcanics) are notably sericitic to fuchsite and frequently	3581	575.00	576.00	1.00				3-5	0.01	
			3582	587.00	587.90	0.90		Tr.	2	3-5	0.01	
		1-2 cm wide, white quartz ± albite vein @ 5° tea. Minor blue-grey quartz patches with minor spotty pyrite ± chalcopyrite.	3583	587.90	588.80	0.90		Tr.	2	3-5	0.02	
			3584	588.80	589.80	1.00		Tr.	2	3-5	0.02	
		1-2 cm wide, white quartz ± albite vein @ 5° tea. Minor blue-grey quartz patches with minor spotty pyrite ± chalcopyrite.	3585	589.80	590.50	0.70		Tr.	Tr.	3-5	0.01	
			3586	590.50	591.00	0.50		Tr.	Tr.	3-5	0.05	
		1-2 cm wide, white quartz ± albite vein @ 5° tea. Minor blue-grey quartz patches with minor spotty pyrite ± chalcopyrite.	3587	591.00	591.70	0.70		Tr.	Tr.	3-5	0.13	
			3588	591.70	592.60	0.90		Tr.	2-3	5-7	0.02	
	591.70	CONGLOMERATE Massive to moderately well foliated @ 40-45° tea, moderately sericitic. Matrix supported, polymictic pebble conglomerate. Softer clasts (trachyte, mudstone, mafic volcanics) are notably sericitic to fuchsite and frequently	3589	592.60	593.10	0.50		Tr.	Tr.	3-5	0.11	
	597.00		3590	593.10	594.00	0.90		Tr.	1-2	3-5	0.41	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
597.00	597.90	stretched, while quartz, granitoids etc. remain unaltered and well rounded. Matrix is a weakly sericitic graywacke. Unit contains 1-2% irregular milk-white quartz + albite veining with minor spotty pyrite ± chalcopyrite ± galena. Upper and lower contacts are sharp but irregular.	3591	594.00	595.00	1.00		Tr.	1-2	3-5	0.15	
			3592	595.00	596.00	1.00				5-7	0.09	
			3593	596.00	597.00	1.00				5-7	0.03	
		SILTSTONE/MUDSTONE Massive, very fine grained to sphanitic, yellow-green silstone. Soft, pervasively sericitic, non-descript.	3594	597.00	597.50	0.50				10-20	NIL	
		597.55 - 597.90 Fault @ 25° tca. Chlorite + sericite + quartz ± pyrite. Strong, broken fault zone with strong mud gouge.	3595	597.50	598.00	0.50		Tr.	3-5	5-10	0.03	
		597.70 Dark areas appear to be mixed chlorite + sericite and very fine grained pyrite.										
597.90	648.10	GRAYWACKE Massive, chloritic, medium green, fine grained graywacke. Weak pervasive sericite alteration. In places, primary pyrite beds from 0.5-2 mm wide, are evident @ 50° tca.	3596	598.00	599.00	1.00			2	3-5	0.01	
			3597	599.00	600.00	1.00		Tr.	2-3	3-5	NIL	
			3598	600.00	601.00	1.00		2-3	1-2	3-5	0.01	
			3599	601.00	601.80	0.80		Tr.	2-3	3-5	NIL	
			3600	601.80	602.50	0.70			1-2	3-5	0.04	
			3601	602.50	603.50	1.00		Tr.	1	3-5	0.01	
			3602	603.50	604.00	0.50		Tr.	2-3	3-5	0.01	
			3603	604.00	605.00	1.00		Tr.	2-3	3-5	0.01	
			3604	605.00	606.00	1.00			1-2	3-5	NIL	
			3605	606.00	606.70	0.70					0.01	
		606.70 - 607.50 Quartz + albite + sericite ± pyrite vein. Irregular white (quartz ± albite) to dark grey (quartz + chlorite + sericite + pyrite) veining. Strong internal sericite + chlorite suturing to brecciation with 1-2% very fine grained pyrite. Moderately strong sericite slips @ 30° tca.	3606	606.70	607.60	0.90		Tr.-1	5-10	10-15	0.11	
		607.30 - 607.40 A 3-4 cm wide, quartz breccia vein with white included quartz fragments in a dark grey, quartz + chlorite groundmass. Vein carries trace-1% disseminated pyrite.	3607	607.60	608.50	0.90			Tr.	3-5	NIL	
			3608	608.50	609.50	1.00			Tr.	3-5	NIL	
			3609	609.50	610.00	0.50				3-5	NIL	
			3610	610.00	611.00	1.00		2-3	1	3-5	0.01	
			3611	611.00	612.00	1.00		2-3	Tr.	3-5	0.01	



BATTLE MOUNTAIN (CANADA) INC. DIAMOND DRILL LOG

HOLE: AK-92-44

PAGE: 1 of 17

PROPERTY Amalgamated Kirkland
TOWNSHIP Teck
CLAIM No. L-491663, L-491651
STARTED July 20, 1992
COMPLETED August 5, 1992

DATE LOGGED July 21, 1992 - August 6, 1992
LOGGED BY Mark Mason
DRILLED BY Heath & Sherwood
CORE LOCATION Kirkland Lake Warehouse
DOWNHOLE SURVEYOR B.M.C.I.
SURVEY INSTRUMENT Sperry Sun

EASTING 8146.2
NORTHING 9931.5
ELEVATION 324.7
COLLAR SURVEY Northland Technical
LENGTH 814.1
UNITS metres
CORE SIZE NQ

PURPOSE To test "102"/"103" structures.
COMMENTS No significant intersections.
 "102" structure @ 642.20 - 647.00, 4.80 m.
 "103" structure @ 730.00 - 737.85, 7.85 m.
 "104" structure @ 774.65 - 800.00, 25.35 m.

SIGNED BY

 (W. Benham)

Depth	Method	Azimuth	Dip
Notes	See table at end of summary log for downhole surveys		

INTERVAL		DESCRIPTION	INTERVAL		AVERAGE Au g/t
From	To		From	To	
0.0	3.75	OVERBURDEN BLOCK TUFF/CONGLOMERATE 62.00 - 62.15 Fault @ 15° tca. 101.40 - 101.70 Fault @ 10° tca. 121.20 Fault @ 40° tca. 107.00 - 156.20 Facie change, tuff to conglomerate.	642.20	647.00	0.10
3.75	156.20		428.00	460.50	
156.20	182.60	ASH/LAPILLI TUFF LAPILLI/BLOCK TUFF LAPILLI TUFF SYENITE PORPHYRY CONGLOMERATE Foliated @ 10-30° tca. ASH TUFF 230.70 - 233.40 Fault @ 0-10° tca. LAPILLI TUFF 270.90 - 271.60 Fault @ 10° tca. 305.90 Fault @ 60° tca. LAPILLI TUFF Moderately to strongly magnetic. Bedding @ 20° tca. 311.10 - 319.45 1%, 0.5-1.0 cm wide, quartz + albite + pyrite veins @ 40-70° tca.	460.50	497.00	4.80
182.60	194.30		497.00	521.00	
194.30	200.90	CONGLOMERATE/GRAYWACKE/SILTSTONE 553.00 - 539.00 Quartz + quartz breccia stockwork (1-3%), trace pyrite. 546.80 - 547.40 Fault zone @ 30° tca. 547.40 - 553.00 Moderately deformed and sericitic, 2-4% quartz veins, trace pyrite.	521.00	532.65	0.10
200.90	204.40		532.65	553.75	
204.40	209.50	Fault @ 25° tca. Pyritic zone, 2-5% pyrite. Fault @ 25° tca. Quartz + sericite + pyrite shear zone @ 25° tca. Pyritic zone, 2-5% pyrite. Fault @ 25° tca. ASH/LAPILLI TUFF LAPILLI TUFF ASH/LAPILLI TUFF 510.00 Fault @ 20° tca. CONGLOMERATE/GRAYWACKE/SILTSTONE SILTSTONE/GRAYWACKE 553.00 - 539.00 Quartz + quartz breccia stockwork (1-3%), trace pyrite. 546.80 - 547.40 Fault zone @ 30° tca. 547.40 - 553.00 Moderately deformed and sericitic, 2-4% quartz veins, trace pyrite.	553.00	553.75	0.10
209.50	267.30		553.75	553.75	
267.30	305.90	Fault @ 20° tca. Pyritic zone, 2-5% pyrite. Fault @ 25° tca. Quartz + sericite + pyrite shear zone @ 25° tca. Pyritic zone, 2-5% pyrite. Fault @ 25° tca. ASH/LAPILLI TUFF LAPILLI TUFF ASH/LAPILLI TUFF 510.00 Fault @ 20° tca. CONGLOMERATE/GRAYWACKE/SILTSTONE SILTSTONE/GRAYWACKE 553.00 - 539.00 Quartz + quartz breccia stockwork (1-3%), trace pyrite. 546.80 - 547.40 Fault zone @ 30° tca. 547.40 - 553.00 Moderately deformed and sericitic, 2-4% quartz veins, trace pyrite.	553.75	553.75	0.10
305.90	428.00		553.75	553.75	

SUMMARY LOG

INTERVAL		DESCRIPTION	INTERVAL		AVERAGE Au g/t
From	To		From	To	
642.20	647.00	Fault @ 15° tca. Sericitic, weakly to moderately deformed. Strongly deformed and sericitic. Fault @ 20° tca. Fault @ 50° tca. Quartz + sericite + pyrite shear zone @ 25° tca. Pyritic zone, 2-5% pyrite. Fault @ 25° tca.	642.20	647.00	0.10

INTERVAL		DESCRIPTION	INTERVAL		AVERAGE Au g/t
From	To		From	To	
428.00	460.50	OVERBURDEN BLOCK TUFF/CONGLOMERATE 62.00 - 62.15 Fault @ 15° tca. 101.40 - 101.70 Fault @ 10° tca. 121.20 Fault @ 40° tca. 107.00 - 156.20 Facie change, tuff to conglomerate.	428.00	460.50	0.10
460.50	497.00	ASH/LAPILLI TUFF LAPILLI/BLOCK TUFF LAPILLI TUFF SYENITE PORPHYRY CONGLOMERATE Foliated @ 10-30° tca. ASH TUFF 230.70 - 233.40 Fault @ 0-10° tca. LAPILLI TUFF 270.90 - 271.60 Fault @ 10° tca. 305.90 Fault @ 60° tca. LAPILLI TUFF Moderately to strongly magnetic. Bedding @ 20° tca. 311.10 - 319.45 1%, 0.5-1.0 cm wide, quartz + albite + pyrite veins @ 40-70° tca.	460.50	497.00	0.10
497.00	521.00	CONGLOMERATE/GRAYWACKE/SILTSTONE SILTSTONE/GRAYWACKE 553.00 - 539.00 Quartz + quartz breccia stockwork (1-3%), trace pyrite. 546.80 - 547.40 Fault zone @ 30° tca. 547.40 - 553.00 Moderately deformed and sericitic, 2-4% quartz veins, trace pyrite.	497.00	521.00	0.10
521.00	532.65	Fault @ 20° tca. Pyritic zone, 2-5% pyrite. Fault @ 25° tca. Quartz + sericite + pyrite shear zone @ 25° tca. Pyritic zone, 2-5% pyrite. Fault @ 25° tca.	521.00	532.65	0.10
532.65	553.75	ASH/LAPILLI TUFF LAPILLI TUFF ASH/LAPILLI TUFF 510.00 Fault @ 20° tca. CONGLOMERATE/GRAYWACKE/SILTSTONE SILTSTONE/GRAYWACKE 553.00 - 539.00 Quartz + quartz breccia stockwork (1-3%), trace pyrite. 546.80 - 547.40 Fault zone @ 30° tca. 547.40 - 553.00 Moderately deformed and sericitic, 2-4% quartz veins, trace pyrite.	532.65	553.75	0.10

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-44

PAGE: 2 of 17

PROPERTY	Amalgamated Kirkland	DATE LOGGED	July 21, 1992 - August 6, 1992	EASTING	8148.2
TOWNSHIP	Teck	LOGGED BY	Mark Mason	NORTHING	9931.5
CLAIM No.	L 491663, L 491651	DRILLED BY	Heath & Sherwood	ELEVATION	324.7
STARTED	July 20, 1992	CORE LOCATION	Kirkland Lake Warehouse	COLLAR SURVEY	Northland Technical
COMPLETED	August 5, 1992	DOWNHOLE SURVEYOR	B.M.C.I.	LENGTH	814.1
		SURVEY INSTRUMENT	Sperry Sun	UNITS	metres
				CORE SIZE	NQ

PURPOSE To test "102"/"103" structures.
COMMENTS No significant intersections.
 "102" structure @ 642.20 - 647.00, 4.80 m.
 "103" structure @ 730.00 - 737.85, 7.85 m.
 "104" structure @ 774.65 - 800.00, 25.35 m.

SIGNED BY _____
(W. Benham)

Depth	Method	Azimuth	Dip
Notes:	See table at end of summary log for downhole surveys		

INTERVAL		DESCRIPTION	INTERVAL		DESCRIPTION	INTERVAL		AVERAGE Au g/t
From	To		From	To		From	To	
553.75	559.70	GRAYWACKE/SILTSTONE	733.40	737.85	GRAYWACKE/CONGLOMERATE			
559.70	564.00	GRAYWACKE/MUDSTONE			733.40 - 733.90 Fault @ 30-40° tca.			
564.00	681.00	GRAYWACKE			733.90 - 737.85 Moderately foliated @ 30-45° tca, 2-3% white quartz veins.			
		596.15 - 596.45 Diabase dyke @ 15° tca.			774.65 - 775.25 ASH/LAPILLI TUFF/CONGLOMERATE			
		609.40 - 614.10 Trace, 1-3 mm quartz + chlorite veins, trace pyrite.	737.85	775.25	774.65 - 775.25 Shear zone @ 65° tca.			
		614.10 - 614.40 Quartz + sericite shear @ 30° tca, trace pyrite.			GRAYWACKE			
		614.40 - 626.00 Sericitic.			775.25 - 776.30 Sheared and fractured, 2-3% white quartz veins, trace pyrite.			
		640.50 - 648.00 1-2% quartz + chlorite veins @ 0° tca, trace pyrite and chalcopyrite.			776.30 - 800.00 1-3% white quartz veins and 1% blue quartz + chlorite veins @ 30° tca, trace pyrite, weakly to moderately sericitic.			
		673.20 - 680.10 Moderately foliated and sericitic, 1-4% quartz veins @ 0-15° tca.			E O H			
681.00	687.40	GRAYWACKE/CONGLOMERATE/SILTSTONE/LAPILLI TUFF						
687.40	715.00	LAPILLI TUFF/GRAYWACKE/MUDSTONE						
715.00	733.40	711.75 - 712.10 Fault @ 40° tca. ASH TUFF 730.00 - 733.40 Weakly to moderately sericitic.						

SUMMARY LOG

ASSAY SUMMARY

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-44

PAGE: 3 of 17

PROPERTY Amalgamated Kirkland
TOWNSHIP Teck
CLAIM No. L 491663, L 491651
STARTED July 20, 1992
COMPLETED August 5, 1992

July 21, 1992 - August 6, 1992
 Mark Mason
 Heath & Sherwood
 Kirkland Lake Warehouse
 B.M.C.I.
 Sperry Sun

EASTING 8148.2
NORTHING 9931.5
ELEVATION 324.7
COLLAR SURVEY Northland
LENGTH 814.1
UNITS metres
CORE SIZE NQ

PURPOSE To test "102"/"103" structures.
COMMENTS No significant intersections.
 "102" structure @ 642.20 - 647.00, 4.80 m.
 "103" structure @ 730.00 - 737.85, 7.85 m.
 "104" structure @ 774.65 - 800.00, 25.35 m.

SIGNED BY _____
 (W. Beahm)

Depth	Method	Azimuth	Dip
Notes	See table below for downhole surveys		

SUMMARY LOG

INTERVAL From To	DESCRIPTION			INTERVAL From To			DESCRIPTION			ASSAY SUMMARY		
	Depth	Method	Azimuth	Dip	Depth	Method	Azimuth	Dip	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t	
	Collar	Compass	341	75								
	44.0	Sperry Sun	337(?)	75		470.0	Acid		68			
	120.0	Sperry Sun	338(?)	76		529.0	Sperry Sun	319	66			
	196.0	Sperry Sun	338(?)	76		590.0	Sperry Sun	319	64			
	266.7	Sperry Sun	337(?)	76		617.0	Sperry Sun	317	60			
	324.6	Sperry Sun	319(?)	70.5		675.0	Sperry Sun	315	58.5			
	334.0	Sperry Sun	317	69.5		739.0	Sperry Sun	315	44.5			
	373.0	Sperry Sun	316	69		785.0	Sperry Sun	317	35			
	437.4	Sperry Sun	317	68								
	450.0	Sperry Sun	317	68								
	459.0	Acid		68								

Note: Assumed gradual evenly distributed deviation of 22° from 0 to 324.6 m versus 18° from 266.7 m to 324.6 m.

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLES: AK-92-44

PAGE: 5 of 17

INTERVAL		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
156.20	182.60	<p>111.50 Fault @ 20° tca. Broken, rubby, chloritic fault with moderate gouge developed. Appears to be ~ 2 cm wide.</p> <p>121.20 Fault @ 40° tca. Chlorite + sericite. 0.5 cm wide, crushed zone with moderate to strong fault gouge. Dry, barren.</p> <p>ASH/LAPILLI TUFF Massive, non-bedded, dark green to brown, chloritic, interdigitated ash and lapilli tuff and minor sections of blocky tuff. Comprised of 1-10% subrounded, heterolithic lapilli clasts from 1-2 mm to 3 cm, in a dark fine grained ash matrix. Poorly sorted, moderate to strong pervasive magnetite. Very similar to block tuff but fine grained. Lower contact is gradational over 15 cm.</p> <p>163.40 - 182.40 Series of tight, sharp irregular, wavy chlorite slips @ 0-10° tca, with weak to moderate gouge and patchy quartz + calcite. Rubby, fractured zone, barren.</p> <p>178.50 - 182.00 Very strongly fractured zone.</p> <p>LAPILLI/BLOCK TUFF Massive, dark green to brown, chloritic + hematitic, lapilli block tuff. Predominantly monolithic with 2-7% dark red, fine grained to porphyritic syenite + trachyte clasts from 0.5-10 cm in a fine grained ash matrix. Clasts are typically dusted with a pervasive hematitic coating. Strongly magnetic.</p> <p>187.00 - 194.30 Somewhat rubby, blocky zone due to abundant sharp chloritic slips and fractures @ 5-15° tca.</p> <p>LAPILLI TUFF Moderately well deformed, foliated, hematitic lapilli tuff comprised of 5-15% angular heterolithic lapilli clasts, from 0.02-2 cm, in a fine grained ash matrix. Clasts are 65% dark red syenite + trachyte, 25% light buff clasts and 15% dark green volcanics. Matrix is moderately well deformed, foliated to sheared @ 5-20° tca and contains 5% irregular wispy sericite and 1% narrow quartz + chlorite veining and fracture fillings. Lower contact of unit is sharp but irregular with strong sericite alteration of tuff @ 75° tca.</p> <p>196.90 Fault @ 20° tca. Sericite ± chlorite. 0.5 cm wide, tight strong sericite slip.</p>										
182.60	194.30		3630	192.00	193.00	1.00					0.01	
			3631	193.00	194.00	1.00					0.01	
			3632	194.00	194.50	0.50					NIL	
									Tr.	1-2		
									2	2-3		
194.30	200.90		3633	194.50	195.00	0.50					NIL	
			3634	195.00	196.00	1.00					0.01	
			3635	196.00	197.00	1.00					NIL	
			3636	197.00	198.00	1.00					NIL	
			3637	198.00	199.00	1.00					0.01	
									Tr.	2-3		
										3-4		
										3-5		
									1-2	5-7		
									Tr.	5-7		

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-44

PAGE: 8 of 17

INTERVAL		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		pink-brown fine grained to spotted trachyte, 10% dark green volcanics and 10% light grey-green volcanics. Moderately to strongly magnetic. Lower contact of unit is gradational and subjective.										
		311.10 1 cm wide, quartz + albite + pyrite vein @ 70° tea, with 5% semi-massive pyrite.	3657	310.00	311.00	1.00		Tr.	Tr.		0.04	
		313.10 1 mm wide, fault slip @ 30° tea with a 0.5-1 cm wide quartz + albite vein which carries trace disseminated pyrite.	3658	311.00	311.50	0.50					0.01	
		315.90 Quartz + albite + pyrite stringer @ 40° tea. 2-3% fine grained pyrite in a 0.5 cm wide, irregular vein.	3659	311.50	312.00	0.50					0.04	
		319.45 Quartz + albite + pyrite vein @ 70° tea. 0.5 cm wide, bounded by tight chlorite alips.	3660	312.00	313.00	1.00					NIL	
		321.40 - 324.80 Rubby broken section due to abundant chlorite alips and fractures @ 5-25° tea. Fairly tight, moderately strong chlorite ± quartz albite alips with weak gouge. Non-mineralized.	3661	313.00	313.50	0.50		Tr.	1-2	Tr.	0.02	
		334.00 Series of narrow (1-2 mm) magnetic beds @ 20° tea.	3662	313.50	314.00	0.50		Tr.	1-2	Tr.	0.01	
		341.60 Fault @ 55° tea. Chlorite + quartz + albite + calcite. 2 cm wide, barren white-pink quartz + albite + calcite vein bounded by strong, sharp chloritic alips.	3663	314.00	315.00	1.00		Tr.	1-2	Tr.	0.04	
		356.00 - 356.20 Fault @ 20° tea. Chlorite + quartz + albite ± calcite. 4-5 cm wide, white-pink quartz + albite vein with internal chloritic alips and fractures bounded by sharp chloritic alips.	3664	315.00	315.50	0.50					0.01	
		361.50 - 361.70 Fault slip @ 15° tea. Tight, strong chloritic slip with moderate gouge.	3665	315.50	316.00	0.50		Tr.			0.02	
		363.10 Fault @ 25° tea. Chlorite + quartz + albite. Moderate chloritic gouge on alips bounding a barren, 1 cm wide, fractured quartz + albite vein.	3666	316.00	317.00	1.00					0.01	
		376.30 - 376.40 Fault @ 35° tea. Chlorite + serfite + quartz. 2 cm wide, barren white-pink quartz vein bounded by sharp serfite alips. Weak serfite of wall rock.	3667	317.00	318.00	1.00					0.01	
		374.20 - 387.50 Weakly to moderately deformed and serfite and contains abundant fault zones. Unit displays a patchy weak to moderately strong serfite, generally	3668	318.00	319.00	1.00					NIL	
			3669	319.00	319.50	0.50		Tr.	Tr.		0.03	
			3670	319.50	320.00	0.50					NIL	
			3671	320.00	321.00	1.00					0.01	
			3672	374.00	375.00	1.00		Tr.	Tr.		NIL	
			3673	375.00	376.00	1.00		Tr.	Tr.		0.02	
			3674	376.00	377.00	1.00		Tr.	Tr.	1-2	0.01	
			3675	377.00	378.00	1.00		Tr.	Tr.	1-3	NIL	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-44

PAGE: 9 of 17

INTERVAL FROM TO	DESCRIPTION	SAMPLE				ASSAYS					
		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
378.50 - 378.70	Increasing proximal to fault. Lapilli tuff carries sporadic trace disseminated pyrite. Tufts are quite variable from red-brown to grey to green. Fault @ 25° tca. Sericite + chlorite + quartz. Weakly brecciated shear comprised of fragmented tuff with irregular quartz pods and 10-15% bright orange, soft altered feldspar? Walls are sharp, irregular sericite + chlorite slips.	3676	378.00	379.00	1.00		Tr.	2-3	2-5	0.01	
		3677	379.00	380.00	1.00		Tr.	Tr.	2-3	NIL	
		3678	380.00	381.00	1.00		Tr.	Tr.	1-3	0.01	
		3679	381.00	382.00	1.00		Tr.	Tr.	1-3	0.02	
		3680	382.00	383.00	1.00		Tr.	Tr.	Tr.	0.01	
		3681	383.00	384.00	1.00		Tr.	Tr.	Tr.	0.01	
384.10 - 384.40	Fault slip @ 10° tca. Sericite + quartz. 0.5 cm wide, tight sericitic slips with minor quartz.	3682	384.00	385.00	1.00		Tr.	Tr.	1-3	NIL	
		3683	385.00	386.00	1.00		Tr.	Tr.	2-5	NIL	
		3684	386.00	387.00	1.00		Tr.	Tr.	1-2	0.01	
		3685	387.00	387.50	0.50		Tr.	Tr.	1-2	NIL	
		3686	387.50	388.00	0.50		Tr.	Tr.	1-2	NIL	
387.50 - 396.50	Tufts are quite strongly, deformed and sericitized with numerous strong faults, quartz + albite veining and trace, patchy pyrite.										
387.70 - 387.80	Broken, rubbery, sericite + chlorite shear @ 10-15° tca.	3687	388.00	389.00	1.00		Tr.	2-3	5-10	0.01	
388.10	Fault @ 20° tca. Sericite + quartz. 2-3 cm wide, fractured quartz bounded by strong sericite + chlorite slips. Moderate gouge trace spotty pyrite.	3688	389.00	390.00	1.00		Tr.	1-2	5-7	NIL	
390.70	Fault @ 50° tca. Strong, tight 0.5 cm wide, chloritic shear with moderate gouge.	3689	390.00	391.00	1.00		Tr.	Tr.	3-5	0.02	
391.15 - 392.00	Quartz + sericite ± pyrite shear @ 25° tca. 30-40% fractured, white to grey quartz flooding with highly sheared sericitized lapilli tuff. Contains 1% patchy pyrite on sericitic sutures and fractures within vein, and in wall rock adjacent to vein.	3690	391.00	392.00	1.00		Tr.	30	10-15	0.04	
		3691	392.00	393.00	1.00		Tr.	2-3	5-10	NIL	
		3692	393.00	393.50	0.50		Tr.	Tr.	3-5	0.01	
393.50 - 396.50	Strongly deformed, sericitized + pyritized zone. Section carries numerous tight, strong chloritic slips @ 20-30° tca from 393.5 - 396.0. These slips are frequently smeared with pyrite. Zone itself displays a highly irregular, sericitic alteration and from 393.5 - 395.6 carries 2-5% very fine grained, dark grey disseminated pyrite. Strong chloritic fault gouge @ 25° tca.	3693	393.50	394.00	0.50		1-2	1-2	5-10	0.04	
394.20		3694	394.00	394.50	0.50		1-2	Tr.	10-15	0.06	
		3695	394.50	395.00	0.50		1-2	Tr.	10-15	0.03	
		3696	395.00	395.70	0.70		3-5	Tr.	10-20	0.05	
		3697	395.70	396.50	0.80		Tr.	Tr.	5-10	NIL	
		3698	396.50	397.00	0.50		Tr.	Tr.	3-5	NIL	
		3699	397.00	398.00	1.00		Tr.	Tr.	Tr.-2	0.01	
		3700	398.00	399.00	1.00		Tr.	Tr.	Tr.	0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-44

PAGE: 11 of 17

INTERVAL		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		<p>510.00 Fault @ 20°ica. Sericite + chlorite ± quartz. Strong slip with moderate chlorite mud gouge developed.</p> <p>511.25 - 511.60 Fault @ 15° ica. Sericite + chlorite + quartz. 3 cm wide, white-pink quartz vein bounded by strong, tight sericite + chlorite slip planes.</p> <p>518.80 Fault @ 30° ica. Sericite + chlorite + quartz. Tight, sharp fault slip with a 2 cm wide, barren quartz vein. Tuff is moderately sericitic up to 0.5 m from slip.</p>										
521.00	532.65	<p>CONGLOMERATE/GRAYWACKE/SILTSTONE Massive, fine grained, chloritic, dark grey-green graywacke to a fine grained conglomerate comprised of 1-10%, rounded polyhedral clasts which are finer than usual. i.e. clasts range from 1-2 mm to 2 cm, avg 0.5 cm. Unit is in part interdigitated with narrow, aphanitic, dark green siltstone horizons up to 0.5 m wide. Weakly foliated, clast elongation @ 35° ica. Lower contact is sharp, intact but somewhat irregular.</p>	3701	531.00	532.00	1.00					0.01	
			3702	532.00	532.70	0.70					0.01	
532.65	553.75	<p>SILTSTONE/GRAYWACKE Massive to poorly bedded, chloritic, sericitic dark green aphanitic siltstone intercalated with minor, narrow, 5 0.5 m, graywacke horizons. Soft, prismatic, non-descript. Lower contact of unit is sharp and regular @ 45° ica.</p>	3703	532.70	533.20	0.50		Tr.-1	2	2-3		0.01
		<p>533.00 - 533.15 Quartz + sericite ± pyrite vein @ 45° ica. 5-6 cm wide, white to grey quartz vein centred on a tight sericitic slip. Vein displays an internal, sericitic fracturing and contains trace to 1% scattered, spotty pyrite on fractures and in adjacent wall rock.</p> <p>533.20 - 539.00 Siltstone is cut by 1-3% (weak stock- working) white to pink to grey quartz and breccia veins up to 3 cm wide. Breccia veins have wall rock fragments up to 2 cm across. Veins carry weak pyrite mineralization from sill to trace. In places, scattered pyrite clots, up to 0.5 cm, are evident within the siltstones.</p>	3704	533.20	534.00	0.80		Tr.	1	1-3		0.01
			3705	534.00	535.00	1.00		Tr.-1	2-3	1-3		0.01
			3706	535.00	536.00	1.00		Tr.-1	2-3	2-5		0.01
			3707	536.00	537.00	1.00		Tr.	1-2	1-3		NIL
			3708	537.00	538.00	1.00		Nil-Tr.	1	1-3		0.01
			3709	538.00	539.00	1.00		Tr.	Tr.	1-3		0.01
			3710	539.00	540.00	1.00		Tr.	Tr.	1-3		0.01
			3711	540.00	541.00	1.00		Tr.	Tr.	1-3		0.01
			3712	541.00	542.00	1.00		Tr.	Tr.	1-3		0.01
			3713	542.00	543.00	1.00		Tr.	Tr.	1-3		0.01
			3714	543.00	544.00	1.00		Tr.	Tr.	1-3		NIL
			3715	544.00	545.00	1.00		Tr.	Tr.	1-3		0.01
			3716	545.00	546.00	1.00		Tr.	Tr.	1-3		0.01

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-44

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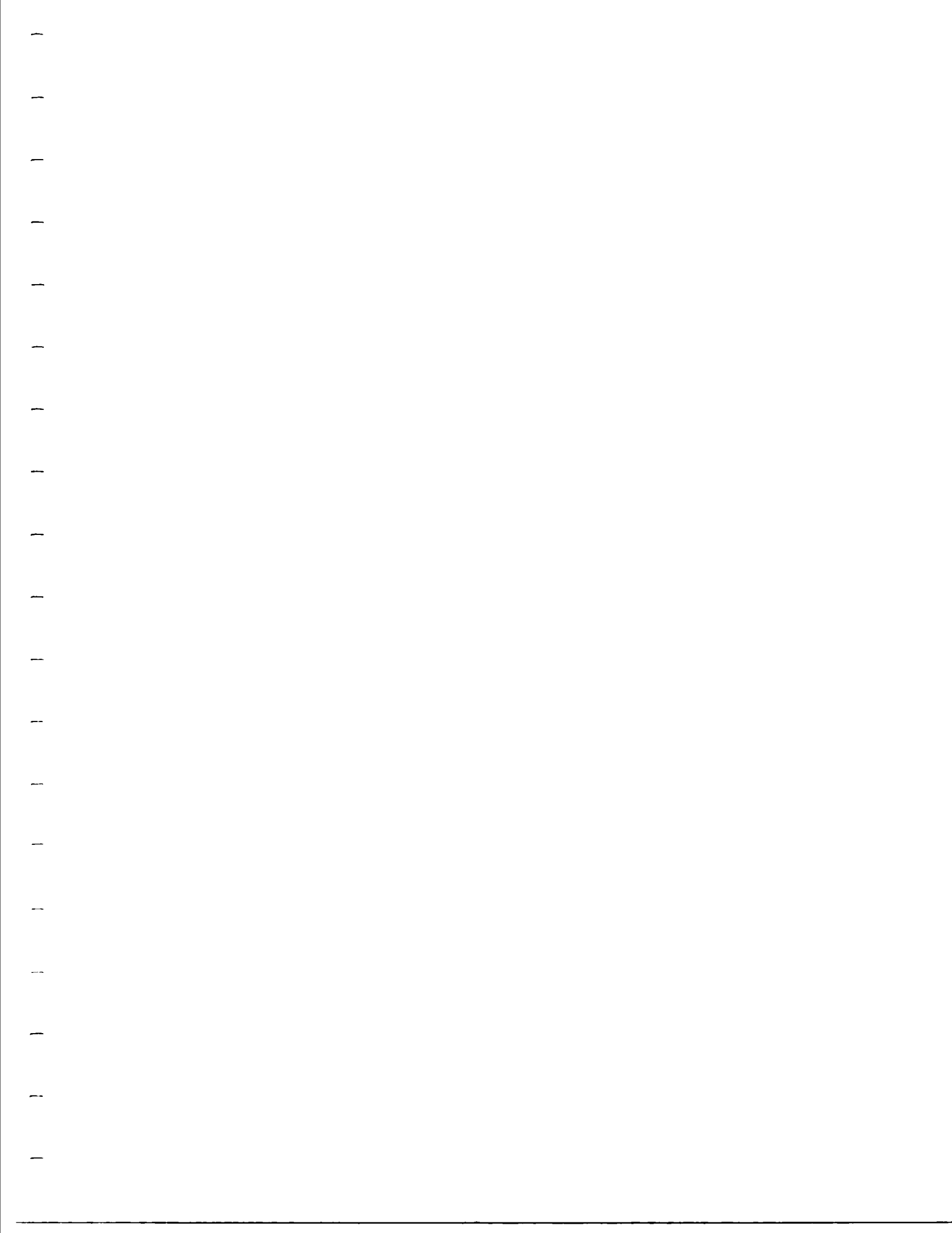
INTERVAL		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		546.80 - 547.40 Fault zone @ 30° tca. Sericite + quartz. Strongly deformed, sheared siltstone and graywacke with abundant sericitic allops. Strong fault gouge at 546.80 and 547.15 m. Nil to trace, spotty pyrite and 3-5% quartz veins, stringers and pods which carry trace sporadic pyrite on internal fracturing.	3717 3718	546.00 546.50	546.50 547.50	0.50 1.00		Tr: Tr:	1-2 3-5	3-5 10-15	0.01 0.01	
		547.40 - 553.00 Siltstones are moderately deformed, sericitic with numerous, light sericitic allops and 2-4% irregular white quartz veins, stringers and pods. Traces, pervasive pyrite. A 1-3 mm wide, dislocated pyrite seam at contact between siltstone and graywacke horizon @ 15° tca.	3719 3720 3721 3722 3723 3724 3725	547.50 548.50 549.40 550.00 551.00 552.00 553.00	548.50 549.40 550.00 551.00 552.00 553.00 553.80	1.00 0.90 0.60 1.00 1.00 1.00 0.80		Tr: Tr: Tr: Tr-1 Tr: Tr: Nil-Tr:	1-2 5-10 2-3 3-4 2-3 1 1	5-10 10-15 5-7 5-10 3-5 3-5 3-5	0.01 NIL NIL NIL NIL 0.01 0.01	
553.75	559.70	PEBBLY GRAYWACKE/SILTSTONE Dark grey-green, massive, chloritic, pebbly graywacke with 2-5% scattered fine grained mudstone pebbles up to 1 cm. Irregularly interdigitated with siltstone horizons up to 50 cm wide @ 45° tca. Lower contact is gradational over 30 cm, grading to a light grey-green (bleached appearance) graywacke.	3726 3727 3728	553.80 554.50 555.00	554.50 555.00 556.00	0.70 0.50 1.00		Tr: Tr: Tr:	1-3 1-3 1-3		NIL 0.01 0.01	
559.70	681.00	GRAYWACKE Massive, chloritic ± sericitic, fine grained, light grey-green graywacke with 1% scattered, angular mudstone chips up to 5 cm. Non-bedded, non-descript with 60-70% fine quartz grains and lithics (30-40%) in an aphanitic groundmass. Very clean, bleached appearance, weak pervasive, spotty sericite.										
		559.70 - 564.00 Finely interfingered with narrow, irregular mudstone beds up to 1 cm wide. Very irregular contacts.										
		581.95 - 582.00 Fault @ 40° tca. Sericite + quartz + calcite. 4 cm wide, white to grey, fractured quartz + calcite vein bounded by sharp strong sericitic allops.										
		586.15 - 586.45 Diabase dyke @ 15° tca. Very fine grained, massive with very sharp, chilled contacts. Non-magnetic.										
		609.40 - 614.00 Series of narrow (1-3 mm) quartz + chlorite veins @ 10-15° tca. These stringers have dark grey-blue alteration halos and carry trace spotty pyrite ± chalcopyrite (approx. one per metre).	3729 3730 3731 3732	609.00 610.00 611.00 612.00	610.00 611.00 612.00 613.00	1.00 1.00 1.00 1.00		Tr: Tr: Tr: Tr:	1-3 1-3 1-3 1-3		0.01 0.01 NIL 0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-44

PAGE: 13 of 17

INTERVAL		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		614.10 - 614.40 Quartz + sericite shear @ 30° tca. Irregular, sharp sericitic slips @ 30° tca with a few narrow (1-3 mm) quartz + chlorite stringers also @ 30° tca. Section contains 10-15% irregular veins and pods of white quartz within a fractured sericitic graywacke matrix. Minor trace pyrite scattered throughout.	3733	613.00	614.00	1.00			Tr: 1-3		NIL	
			3734	614.00	614.50	0.50			Tr: 10 10-15		0.02	
			3735	614.50	615.10	0.60			Tr: 3-5 5-7		0.03	
			3736	615.10	616.00	0.90			Tr: 1-3 3-5		0.03	
		614.40 - 626.00 Graywacke displays a weak to moderate, pervasive wispy to spotty sericite in groundmass and as scattered sericitic shears.										
		616.30 - 616.35 Quartz + sericite vein. Sheared @ 70° tca. Somewhat irregular, 3 cm wide, white quartz vein with minor internal sericitic suturing and tight slip walls. Trace spotty pyrite.	3737	616.00	616.50	0.50			Tr: 1 5-7		0.01	
			3738	616.50	617.00	0.50			Tr: 3-5		0.03	
		629.80 - 630.50 Mudstone, light to dark green, aphanitic, massive to weakly bedded @ 35° tca. Upper contact sharp and irregular. Lower contact gradational over 10 cm.	3739	617.00	618.00	1.00			Tr: 3-5		0.04	
		630.10 Fault @ 30° tca. Sericite + quartz ± albite. Tight, strong sericitic slip with weak mud gouge developed. Infilled with barren, white quartz ± albite veins and stringers.										
		638.60 Fault slip @ 20° tca. Chlorite + sericite + quartz. Tight, sharp strong slip plane (1 mm).	3740	635.00	636.00	1.00			Tr: NIL 1-3		0.02	
			3741	636.00	637.00	1.00			Tr: NIL 1-3		0.02	
			3742	637.00	638.00	1.00			Tr: 2-5		0.02	
			3743	638.00	639.00	1.00			Tr: 2-3 3-7		NIL	
		638.50 - 638.95 Graywacke is moderately sericitic and cut by at least two cross-cutting generations of quartz and quartz + chlorite veins, up to 1 cm wide, @ 0-40° tca. Very minor, trace spotty pyrite.	3744	639.00	639.50	0.50			Tr: Tr: 1-3		0.02	
			3745	639.50	640.00	0.50			Tr: 1-3		0.06	
			3746	640.00	640.50	0.50			Tr: 1-3		0.03	
		640.50 - 648.00 Series of irregular, anastomosing, green-white quartz chlorite veins (± 2 cm) subparallel tca which carry trace patchy pyrite ± chalcopyrite. These veins appear to be associated with a weak fracture/slip set, subparallel tca.	3747	640.50	641.20	0.70			Tr: 1 1-3		0.05	
			3748	641.20	642.20	1.00			Tr: 2-5		0.07	
			3749	642.20	643.00	0.80			Tr: 2-5		0.22	
			3750	643.00	644.00	1.00			Tr: 1-2 2-5		0.03	
			3751	644.00	645.00	1.00			Tr: 2-5		0.02	
			3752	645.00	646.00	1.00			Tr: 3-4 5-10		0.02	
			3753	646.00	646.50	0.50			Tr: 3-5		0.02	
			3754	646.50	647.00	0.50			Tr: 1-2 3-5		0.48	
			3755	647.00	647.70	0.70			Tr: 1-2 3-5		0.02	
			3756	647.70	648.50	0.80			Tr: Tr: 1 3-5		0.04	
			3757	648.50	649.00	0.50			Tr: 3-5		0.02	
			3758	649.00	650.00	1.00			Tr: 3-5		0.02	
			3759	650.00	651.00	1.00			Tr: 3-5		0.02	
			3760	651.00	652.00	1.00			Tr: 3-5		0.05	



**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-45

PAGE: 1 of 11

PROPERTY Amalgamated Kirkland
TOWNSHIP Teck
CLAIM No. L 491663, L 491651
STARTED August 6, 1992
COMPLETED August 11, 1992

DATE LOGGED August 7, 1992 - August 12, 1992
LOGGED BY Mark Mason
DRILLED BY Heath & Sherwood
CORE LOCATION Kirkland Lab Warehouse
DOWNHOLE SURVEYOR B.M.C.I.
SURVEY INSTRUMENT Sperry Sun

EASTING 8124.5
NORTHING 10105.0
ELEVATION 340.6
COLLAR SURVEY Northland Technical
LENGTH UNITS 401.5 metres
CORE SIZE NQ

PURPOSE To test "102"/"103" structures.

COMMENTS "103" structure @ 305.00 - 331.00, 26.00 m.
 "104" structure @ 393.10 - 398.15, 5.05 m.

SIGNED BY


(W. Benham)

Depth	Method	Assessment	Dip
Note: See table at end of summary log for downhole surveys			

SUMMARY LOG

INTERVAL		DESCRIPTION	INTERVAL		DESCRIPTION	INTERVAL		AVERAGE Au g/t
From	To		From	To		From	To	
0.00	1.20	OVERBURDEN						
1.20	25.30	LAPILLI/ASH TUFF						
25.30	63.30	ASH TUFF						
63.30	147.00	60.60 - 62.30 Fault @ 0-10" tca. 82.40 - 82.60 Fault breccia zone @ 60" tca. 101.30 - 102.20 Fault @ 20" tca. 104.20 - 104.60 Fault @ 25" tca. 114.30 - 114.50 Fault @ 30" tca. 130.00 - 130.60 Diabase dyke @ 20" tca.						
147.00	231.00	ASH/LAPILLI TUFF						
231.00	270.00	LAPILLI/BLOCK/ASH TUFF						
270.00	291.00	ASH/LAPILLI TUFF						
291.00	314.40	LAPILLI TUFF						
		292.50 Fault @ 30" tca. 305.70 - 306.10 Silicified zone, foliated @ 60" tca, 2-4% pyrite, trace chalcopyrite and galena.						
314.40	324.95	ASH TUFF	350.45	401.50	LAPILLI TUFF			
		Silicified, chloritic, weakly sericitic. 314.40 - 322.80 1-3% quartz veins, trace -2% py., trace chalcopyrite and galena.	370.00	393.10 - 398.15	E O H			
			322.80 - 323.40 Ductile shear @ 30" tca, 1% pyrite, 5-7% quartz veins. 323.40 - 324.55 Quartz vein @ 30" tca, 15% pyrite, 5% galena, and 1% epy. 324.55 - 324.95 Silicified, 10-15% fine grained py. LAPILLI TUFF Bleached, sericitic, silicified. 324.95 - 329.70 5% quartz + albite veins @ 30-40" tca. 1-3% fine grained pyrite. 329.70 Fault @ 25" tca. 329.70 - 343.90 Weakly foliated, moderately to strongly sericitized. 5-10% chloritic amphibole laths. Trace - 1% pyrite. 332.80 - 332.95 Sericitic ductile shear zone @ 25" tca. 343.90 - 350.45 Moderately to strongly bleached, chloritic fractures, trace pyrite. LAPILLI TUFF 370.00 Fault @ 50" tca. 393.10 - 398.15 Moderately bleached and sericitic.					
			305.00	331.50		26.50	2.53	
			305.00	306.20	Including	1.20	2.39	
			305.70	306.20	Including	0.50	5.11	
			321.00	329.50	Including	8.50	6.35	
			315.20	329.50	or including	14.30	4.43	
			315.20	315.70		0.50	14.55	
			315.70	321.00		5.30	0.41	
			321.00	323.30		2.30	1.91	
			323.30	325.00		1.70	23.48	
			325.50	326.50		1.50	0.66	
			326.50	329.50		3.00	2.88	
			329.50	331.50		2.00	0.36	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-45

PAGE: 2 of 11

PROPERTY Amalgamated Kirkland
TOWNSHIP Teck
CLAIM No. L 491663, L 491651
STARTED August 6, 1992
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DATE LOGGED August 7, 1992 - August 12, 1992
LOGGED BY Mark Mason
DRILLED BY Heath & Sherwood
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DOWNHOLE SURVEYOR B.M.C.I.
SURVEY INSTRUMENT Sperry Sun

EASTING 8124.5
NORTHING 10105.0
ELEVATION 340.6
COLLAR SURVEY Northland Technical
LENGTH 401.5
UNITS metres
CORE SIZE NQ

PURPOSE To test "102"/"103" structures.

COMMENTS "103" structure @ 305.00 - 331.00, 26.00 m.
 "104" structure @ 393.10 - 398.15, 5.05 m.

SIGNED BY _____
 (W. Benham)

Depth	Method	Azimuth	Dip
Notes:	See table below for downhole surveys		

SUMMARY LOG

INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	ASSAY SUMMARY																																												
				INTERVAL From To	LENGTH in metres	AVERAGE Au g/t																																										
	<table border="1"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr> <td>Collar</td> <td>Compass</td> <td>341</td> <td>70</td> </tr> <tr> <td>23.0</td> <td>Sperry Sun</td> <td>336</td> <td>69.5</td> </tr> <tr> <td>96.5</td> <td>Sperry Sun</td> <td>331</td> <td>67.5</td> </tr> <tr> <td>169.0</td> <td>Sperry Sun</td> <td>330</td> <td>66.5</td> </tr> <tr> <td>224.0</td> <td>Sperry Sun</td> <td>330</td> <td>65.5</td> </tr> <tr> <td>297.0</td> <td>Sperry Sun</td> <td>327</td> <td>64</td> </tr> <tr> <td>370.0</td> <td>Sperry Sun</td> <td>329</td> <td>63.5</td> </tr> <tr> <td>398.0</td> <td>Acid</td> <td></td> <td>63</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Depth	Method	Azimuth	Dip	Collar	Compass	341	70	23.0	Sperry Sun	336	69.5	96.5	Sperry Sun	331	67.5	169.0	Sperry Sun	330	66.5	224.0	Sperry Sun	330	65.5	297.0	Sperry Sun	327	64	370.0	Sperry Sun	329	63.5	398.0	Acid		63											
Depth	Method	Azimuth	Dip																																													
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**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-45

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
270.00	291.00	<p>clasts ranging from 2-3 mm to 10 cm (avg 2-3 cm) in a very fine grained lithic ash matrix. In part interdigitated with ash tuff horizons up to 2 m wide. Predominant clast type is a pink-red, fine grained to spotted trachyte/basalt which account for approximately 70% of clast types. Remaining 30% is comprised of equal amounts of dark green, light grey and buff trachytes. Strongly magnetic. Very similar to base line block tuff but with a more heterolithic clast component. Lower contact of unit is gradational and arbitrary.</p> <p>256.00 Well defined bedding @ 30° tca.</p> <p>ASH/LAPILLI TUFF</p> <p>Massive, chloritic, dark to medium grey-green, fine to very fine grained, undeformed ash tuff with minor, intercalated lapilli horizons from 10 cm to 1 m wide. Pervasive, moderate to strong magnetism. Unit contains 1-2% ubiquitous, barren white-pink quartz + albite veining. Where clasts are evident in coarser ash to lapilli horizons they consist of poorly sorted, subangular to well rounded heterolithic lithics. Lower contact of unit is gradational over 1 m.</p> <p>273.10 - 273.20 Fault slip @ 30° tca. Tight weak chloritic slip with a 3 cm wide, white to pink quartz + calcite breccia vein.</p> <p>290.20 - 291.50 Fault slip @ 0-5° tca. Chlorite + quartz + calcite. Irregular, tight fracture subparallel tca, lined with a 0.5 - 1 cm wide, white-pink quartz + calcite vein.</p>										
291.00	314.40	<p>LAPILLI TUFF</p> <p>Massive, chloritic ± hematitic, dark green to green-brown to purple, heterolithic lapilli tuff comprised of 3-15%, angular to well rounded trachytic clasts from 2 mm to 10 cm+ (avg 2-3 cm) in a dark, very fine grained ash matrix. Strong pervasive magnetism. Quite a coarse, clast-rich lapilli tuff to 308.0 m, conglomeratic in appearance but definitely trachytic.</p> <p>292.50 Fault @ 30° tca. Chlorite + quartz + albite. 1.5 cm wide, white-pink quartz + albite vein bounded by sharp, tight chlorite slips with weak gouge.</p> <p>305.70 - 306.10 Foliated silicified zone, pyrite + chalcocyanite ± galena. Weakly foliated, fractured and silicified section. At 306.0 m there is a very sharp slip @ 60° tca. Section displays a</p>	3846	303.00	304.00	1.00					NIL	
			3847	304.00	305.00	1.00					NIL	
			3848	305.00	305.70	0.70					0.44	
			3849	305.70	306.20	0.50					5.11	
			3850	306.20	307.00	0.80					0.02	
			3851	307.00	308.00	1.00					0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-45

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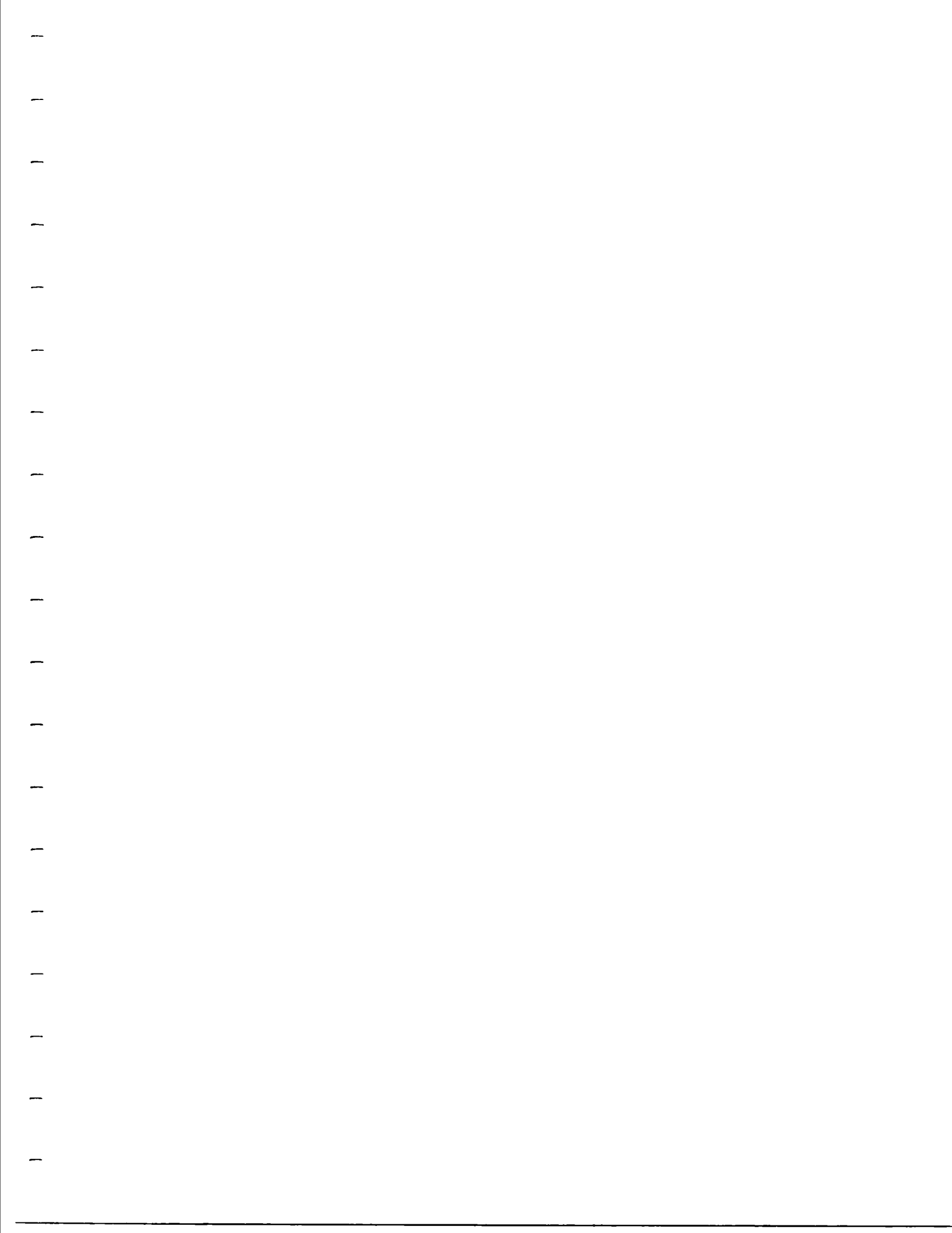
INTERVAL		DESCRIPTION	SAMPLE					ASSAYS				
			FROM	TO	No.	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
314.40	324.95	<p>weak to moderate pervasive blue-grey tinge (silicification) and a pseudo-brecciated, "crack and seal" texture infilled with narrow (s 1 mm) quartz stringers. Zone contains 2-4% pyrite as fine disseminations and concentrated on fractures. Minor chalcopyrite is evident and associated with narrow, white-grey quartz stringers. May also carry minor galena. Edges of alteration are irregular and somewhat gradational into surrounding wall rock.</p> <p>308.00 - 314.40 Grades to a fine grained, chloritic ash.</p> <p>ASH TUFF Massive, fine to very fine grained, medium grey-green, chloritic ash tuff with minor scattered lapilli clasts. Moderate to strong patchy magnetite. Ash tuffs in general display a weak pervasive sericitic and trace pyrite alteration. Pyrite occurs as small subhedral grains (s 1 mm) often with dark, chloritic rims, pervasively disseminated throughout the tuff and occasionally in small clusters. Proximal to sulphide-bearing veins, tuff is typically light green and sericitic or blue-grey and silicified with 1-3% disseminated pyrite.</p> <p>314.40 - 314.45 Fault breccia @ 80° tca. Chlorite + quartz. 2 cm wide, open vuggy brecciated quartz vein.</p> <p>315.40 Quartz + pyrite + galena ± chalcopyrite vein @ 50° tca. 4 cm wide, white quartz + albite vein which has been fractured and brecciated and infilled by a later blue-grey quartz + pyrite + galena + chalcopyrite. Vein has at least two types of pyrite; very fine grained anbedral pyrite on fractures and foliated wall rock; subbedral grains and grain clusters up to 2 mm, Total pyrite content is 3-4%. Trace galena occurs as sporadic clusters and masses within vein. Very minor spotty chalcopyrite.</p> <p>315.50 1 cm wide, quartz + albite + pyrite + galena vein as above. Adjacent to veins, tuff is light green and moderately sericitized with 0.5% disseminated pyrite.</p>	<p>3852 308.00 309.00 1.00</p> <p>3853 309.00 310.00 1.00</p> <p>3854 310.00 311.00 1.00</p> <p>3855 311.00 312.00 1.00</p> <p>3856 312.00 313.00 1.00</p> <p>3857 313.00 314.00 1.00</p> <p>3858 314.00 314.40 0.40</p>	<p>Tr.</p> <p>Tr.</p> <p>Tr.</p> <p>Tr.</p> <p>Tr.</p> <p>Tr.</p>	<p>NIL</p> <p>NIL</p> <p>NIL</p> <p>NIL</p> <p>NIL</p> <p>0.01</p> <p>NIL</p>	<p>Tr.</p> <p>Tr.</p> <p>Tr.</p> <p>Tr.</p> <p>Tr.</p>	<p>Tr.</p> <p>Tr.</p> <p>Tr.</p> <p>Tr.</p> <p>Tr.</p>	<p>NIL</p> <p>14.44</p> <p>0.41</p>				
			3859	314.40	315.20	0.80	Tr.	Tr.	Tr.	Tr.	NIL	
			3860	315.20	315.70	0.50	2	2-3	5-7	14.67		
			3861	315.70	316.50	0.80	Tr.	Tr.	2-3	0.41		

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-92-45

PAGE: 9 of 11

INTERVAL		DESCRIPTION	SAMPLE						ASSAYS				
			No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check	
		324.95 - 329.70 5% quartz ± albite veins up to 2 cm wide, predominantly @ 30-40° tca. These veins are generally barren, however the adjacent wall rock is frequently altered and sericitic and contains up to 3% very fine grained disseminated pyrite up to 5 cm from vein wall. Spacing of veins determines overall mottled appearance and colour variations.	3875	325.00	325.50	0.50			1-2	3-5	10-15	0.89	
			3876	325.50	326.00	0.50			1-2	3-4	5-10	0.72	
			3877	326.00	326.50	0.50			1-2	2-3	5-10	0.38	
			3878	326.50	327.00	0.50			2-3	3-5	5-10	3.22	
			3879	327.00	327.50	0.50			1-2	3-5	5-10	1.12	
			3880	327.50	328.00	0.50			2-3	2-3	5-10	5.95	5.78
			3881	328.00	328.50	0.50			1-2	2-3	5-10	3.29	
			3882	328.50	329.00	0.50			2-3	3-5	5-10	1.74	
			3883	329.00	329.50	0.50			1-2	2-3	5-7	2.06	
		329.70 Fault @ 25° tca. 1-2 mm wide, strong tight chloritic slip with moderate gouge and well developed siltstones (horizontal).	3884	329.50	330.00	0.50			Tr.-1	1-2	3-5	0.51	
			3885	330.00	330.50	0.50			Tr.	1-2	3-5	0.54	
			3886	330.50	331.00	0.50			Tr.	Tr.	3-5	0.24	
		329.70 - 343.90 Weakly foliated, massive lapilli tuff with a weak to moderate to strong sericitization. Comprised of 5-7%, angular to subrounded, heterolithic clasts up to 10 cm (avg 2 cm). Clasts are pink-red, dark green, buff and light grey, fine grained to spotted trachyte. In places clasts display diffuse, hazy edges due to penetrating alteration (sericitization) of groundmass. Matrix consists of 5-10%, black subhedral laths up to 2 mm, (chloritized amphibole?) in a very fine grained groundmass. This altered tuff contains patchy zones of finely disseminated pyrite up to 1-2% and 2-3% ubiquitous quartz + albite veins and stringers.	3887	331.00	331.50	0.50			Tr.-1	Tr.	3-5	0.14	
			3888	331.50	332.00	0.50			Tr.	Tr.	3-5	0.02	
			3889	332.00	332.50	0.50			Tr.	Tr.	3-5	0.04	
		332.80 - 332.95 Sericitic shear @ 25° tca. Sericite + chlorite + quartz. Ductile shear with a set of tight sericite + chlorite slips and 2-3%, barren white quartz + albite pods. Trace pyrite in bleached tuff.	3890	332.50	333.00	0.50			Tr.	1-2	5-7	0.02	
			3891	333.00	334.00	1.00			Tr.	1-2	3-5	0.02	
			3892	334.00	335.00	1.00			Tr.	Tr.	3-5	NIL	
			3893	335.00	335.50	0.50			Tr.	2-3	5-10	0.03	
		335.40 Fault slip @ 30° tca. Chlorite + quartz ± pyrite. Tight sharp, quartz + chlorite slip with minor disseminated pyrite.	3894	335.50	336.10	0.60			Tr.	Tr.	5-7	0.04	
			3895	336.10	336.60	0.50			Tr.	Tr.	5-7	NIL	
			3896	336.60	337.10	0.50			Tr.-1	5-7	5-10	0.04	
		335.20 - 337.20 Tuff is quite strongly bleached and sericitized and appears to be moderately silicified. Nil to trace disseminated pyrite.	3897	337.10	338.00	0.90			Tr.	Tr.	3-5	0.01	
			3898	338.00	338.50	0.50			Tr.	2-3	5-7	0.01	
			3899	338.50	339.00	0.50			Tr.	2-3	5-7	0.04	
			3900	339.00	339.50	0.50			Tr.	2-3	5-7	0.01	
			3901	339.50	340.00	0.50			Tr.	2-3	5-7	0.01	
			3902	340.00	341.00	1.00			Tr.	1-2	3-5	NIL	
			3903	341.00	342.00	1.00			Tr.	Tr.	3-5	NIL	
			3904	342.00	343.00	1.00			Tr.	Tr.	3-5	0.02	
			3905	343.00	343.90	0.90			Tr.	Tr.	2-3	NIL	



**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-90-25/92-25 Ext.

PAGE: 1 of 8

PROPERTY Amalgamated Kirtland DATE LOGGED 8124.5
TOWNSHIP Teck LOGGED BY 10150.8
CLAIM No. L 491663 DRILLED BY 399.3
STARTED Nov 27/90; Aug 12/92 CORE LOCATION Northland
COMPLETED Nov 30/90; Aug 13/92 DOWNHOLE SURVEYOR Technical
SURVEY INSTRUMENT B.M.C.I. 196.5
Sperry Sun metres
NQ

Depth	Method	Azimuth	Dip
Notes	See table at end of summary log for downhole surveys		


 (W. Benham)

PURPOSE To test "102"/"103" zones.

COMMENTS
 "102" zone @ 102.65 - 106.00, 3.35 m
 "103" zone @ 135.50 - 149.55, 14.05 m
 "104" zone @ 183.30 - 190.00, 6.70 m

SIGNED BY

INTERVAL		DESCRIPTION	INTERVAL		DESCRIPTION	INTERVAL		AVERAGE Au g/t
From	To		From	To		From	To	
0.00	3.80	CASING	142.90	149.25	135.50 - 135.60 Silicified, 2-3% pyrite.	102.65	106.00	1.30
3.80	22.40	ASH TUFF			136.10 - 136.70 Siltstone with 30% quartz + sericitic veinlets, 0.5% pyrite.		including 104.40	8.01
22.40	22.60	SILTSTONE			LAPILLI/ASH TUFF	144.50	145.10	0.17
22.60	23.10	COARSE LAPILLI TUFF			145.00 Fault @ 45° tca.			
23.10	23.95	SILTSTONE			145.00 - 149.25 Irregular, weak sericitic alteration, trace pyrite, trace 0.05 - 0.5 cm wide quartz + albite veins.			
23.95	27.50	COARSE LAPILLI TUFF			149.10 - 149.25 Moderately well foliated @ 70 - 80° tca.			
27.50	32.85	ASH TUFF			GRAYWACKE/LAPILLI TUFF/MUDSTONE			
32.85	68.60	LAPILLI TUFF			149.25 - 149.55 Moderately well foliated @ 70 - 80° tca.			
68.60	86.30	LAPILLI TUFF			149.55 - 183.30 Massive to weakly foliated.			
86.30	94.10	Sericitic.			GRAYWACKE			
94.10	102.65	LAPILLI TUFF			183.30 - 190.00 Quartz + chlorite "crack & seal" texture. Trace pyrite.			
102.65	104.50	Weakly sericitic.			185.00 - 186.30 Up to 2% irregular primary pyrite beds.			
		ASH TUFF			E O H			
		Hematitic.			Hole extended from 142.90 to 198.50, August 12 - 13, 1992.			
		QUARTZ - PYRITE BRECCIA ZONE						
		102.65 - 103.40 Fault zone, trace pyrite.						
		104.10 - 104.25 Brecciated quartz vein, 3-5% pyrite.						
		104.40 - 104.50 Fault breccia.						
		SILTSTONE/MUDSTONE						
		114.80 - 115.85 Sericitic graywacke, 0.5% pyrite.						
		LAPILLI TUFF						
104.50	132.35							
132.35	142.90							

SUMMARY LOG

ASSAY SUMMARY

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-90-25/92-25 Ext.

PAGE: 2 of 8

PROPERTY Amalgamated Kirtland **DATE LOGGED** Nov. 29 - Dec. 3, 1990; August 14, 1992 **EASTING** 8124.5
TOWNSHIP Teck **LOGGED BY** Mark Mason **NORTHING** 10150.8
CLAIM No. L 491663 **DRILLED BY** Heath & Sherwood **ELEVATION** 339.3
STARTED Nov 27/90; Aug 12/92 **CORE LOCATION** Kirtland Late Warehouse **COLLAR SURVEY** Northland
COMPLETED Nov 30/90; Aug 13/92 **DOWNHOLE SURVEYOR** B.M.C.I. **TECHNICAL** 198.5
SURVEY INSTRUMENT Sperry Sun **LENGTH** metres
UNITS NQ
CORE SIZE

PURPOSE To test "102"/"103" zones.

COMMENTS "102" zone @ 102.65 - 106.00, 3.35 m
 "103" zone @ 135.50 - 149.55, 14.05 m
 "104" zone @ 183.30 - 190.00, 6.07 m

SIGNED BY _____

(W. Benham)

Depth	Method	Azimuth	Dip
Note: See table below for downhole surveys			

INTERVAL From To		DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	AVERAGE Au g/t																																																							
SUMMARY LOG																																																													
		<table border="1"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr> <td>Collar</td> <td>Compass</td> <td>341</td> <td>55</td> </tr> <tr> <td>38.0</td> <td>Acid</td> <td></td> <td>54</td> </tr> <tr> <td>76.0</td> <td>Acid</td> <td></td> <td>53</td> </tr> <tr> <td>114.0</td> <td>Acid</td> <td></td> <td>50</td> </tr> <tr> <td>196.0</td> <td>Acid</td> <td>337</td> <td>44</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Depth	Method	Azimuth	Dip	Collar	Compass	341	55	38.0	Acid		54	76.0	Acid		53	114.0	Acid		50	196.0	Acid	337	44																																			
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ASSAY SUMMARY																																																													

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-90-25/92-25 Ext.

PAGE: 4 of 8

INTERVAL		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
27.50	32.85	ASH TUFF Massive, fine grained, dark green to purple where hematitic, weakly magnetic and cut by 2% barren buff-white quartz veinlets up to 0.5 cm wide; lower contact of unit is a sharp sericite + talc slip; rubby core.										
32.85	68.60	LAPILLI TUFF Massive, dark green to grey-brown, with 5-10% angular, predominantly buff-brown and grey-green, fine grained to spotted trachytic clasts, up to 2 cm (avg. 1 cm) in a very fine ash matrix; intercalated ash tuff horizons up to 75 cm wide which are massive, non-bedded and display gradational contacts; locally strongly magnetic.										
		38.35 - 39.50 Fault @ 05° tca; sharp chlorite slips running sub-parallel to a 0.5-1 cm white-pink quartz + ankerite vein on slip plane, with local angular wall rock fragments within the vein.										
		41.50 - 42.30 White-pink quartz + ankerite vein @ 5°-10° tca, with angular wall rock inclusions up to 3-4 cm long which display very weak sericite alteration.										
		44.10 - 44.60 Fault @ 05° tca; sharp, open, vuggy slip plane with pink-white quartz + ankerite vein.										
		59.80 Fault @ 30° tca; chlorite + sericite + quartz; 1 cm wide laminated shear zone of alternating chlorite, sericite and quartz.										
68.60	86.30	SERICITIZED LAPILLI TUFF Pale green, with 2-3% black and white, salt and pepper textured clasts which often display very diffuse, altered boundaries; possibly matrix rather than clasts?; matrix of unit is pervasively sericitized, very fine grained to aphanitic mush, and is cut by 1-2% late, white quartz veinlets 1-3 mm wide. Contacts of unit are sharp but are not deformed or faulted and surrounding units are only weakly sericitized.										
		72.90 - 73.00 Fault @ 20° tca; sericite + quartz; sharp, tight sericite slip @ 72.90 m with 2 cm buff-white quartz vein on down hole side of slip.	7787	68.60	69.10	0.50						0.01
		73.30 - 73.40 Fault @ 25° tca; sericite + quartz ± ankerite; 1-2 cm quartz + ankerite vein on sharp sericite slip.	7788	69.10	70.00	0.90						0.02
			7789	70.00	71.00	1.00						0.01
			7790	71.00	72.00	1.00						0.02
			7791	72.00	72.80	0.80						0.02
			7792	72.80	73.60	0.80						0.01
			7793	73.60	74.30	0.70						0.01
			7794	74.30	75.00	0.70						0.01
			7795	75.00	76.00	1.00						0.01
			7796	76.00	77.00	1.00						0.02
			7797	77.00	78.00	1.00						0.01

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-90-25/92-25 Ext.

PAGE: 5 of 8

INTERVAL		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		80.90 - 81.40										
		Quartz + chlorite vein with angular wall rock inclusions and very minor chalcopyrite.	7798	78.00	79.00	1.00					0.01	
			7799	79.00	80.00	1.00					0.02	
			7800	80.00	80.50	0.50					0.02	
			7801	80.50	81.50	1.00					0.02	0.01
			7802	81.50	82.00	0.50					0.01	
			7803	82.00	83.00	1.00					NIL	
			7804	83.00	84.00	1.00					0.01	
			7805	84.00	84.60	0.60					0.01	
			7806	84.60	85.10	0.50					0.04	
			7807	85.10	86.00	0.90					NIL	
			7808	86.00	86.50	0.50					0.01	
86.30	94.10	HETEROLITHIC LAPILLI TUFF Massive to weakly foliated, light grey-green, with 10-20% angular, light brown to grey-green spotty, trachyte clasts, up to 3 cm (avg. 0.5 cm), with sericite alteration; matrix is dark grey-green, very fine grained ash tuff with minor spotty sericite; typically weakly magnetic; lower contact is very sharp @ 40" tca.	7809	86.50	87.50	1.00					0.01	
			7810	87.50	88.50	1.00					NIL	
			7811	88.50	89.50	1.00					0.02	
			7812	89.50	90.00	0.50					NIL	
			7813	90.00	91.00	1.00					NIL	
94.10	102.65	ASH TUFF Massive to weakly bedded @ 50" tca; dark grey-green to purple where hematitic; very fine grained, strongly magnetic and cut by 1% late white irregular quartz veinlets; lower contact is sharp and irregular.	7814	100.00	101.00	1.00					NIL	
			7815	101.00	102.00	1.00					0.01	
			7816	102.00	102.65	0.65					NIL	
102.65	104.50	PYRITE QUARTZ BRECCIA ZONE 102.65 - 103.40 Fault zone @ 20" tca: sericite + chlorite + quartz; strongly foliated to schistose sericite + chlorite + quartz veinlets + laminated mudstone with some very minor, dark grey pyritic bands. 103.40 - 104.40 Well bedded, yellow-green mudstone with abundant micro-faulting which disrupts bedding @ 15" tca. 104.10 - 104.15 Brecciated, buff-white quartz vein, fragments up to 1 cm with 3-5% very fine grained pyrite within sericitized, interstitial groundmass of altered mudstone. 104.15 - 104.25 Very fine (< 0.5 mm) pyritic veinlets and stringers and 2% disseminated pyrite in aphanitic, yellow-green mudstone bed. 104.40 - 104.50 Fault @ 40" tca: strong mud gouge and fault breccia rubble with weak amorphous stain.	7817	102.65	103.40	0.75					0.25	
			7818	103.40	103.90	0.50					0.04	
			7819	103.90	104.40	0.50					7.70	8.32
			7820	104.40	104.90	0.50					0.12	

BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG

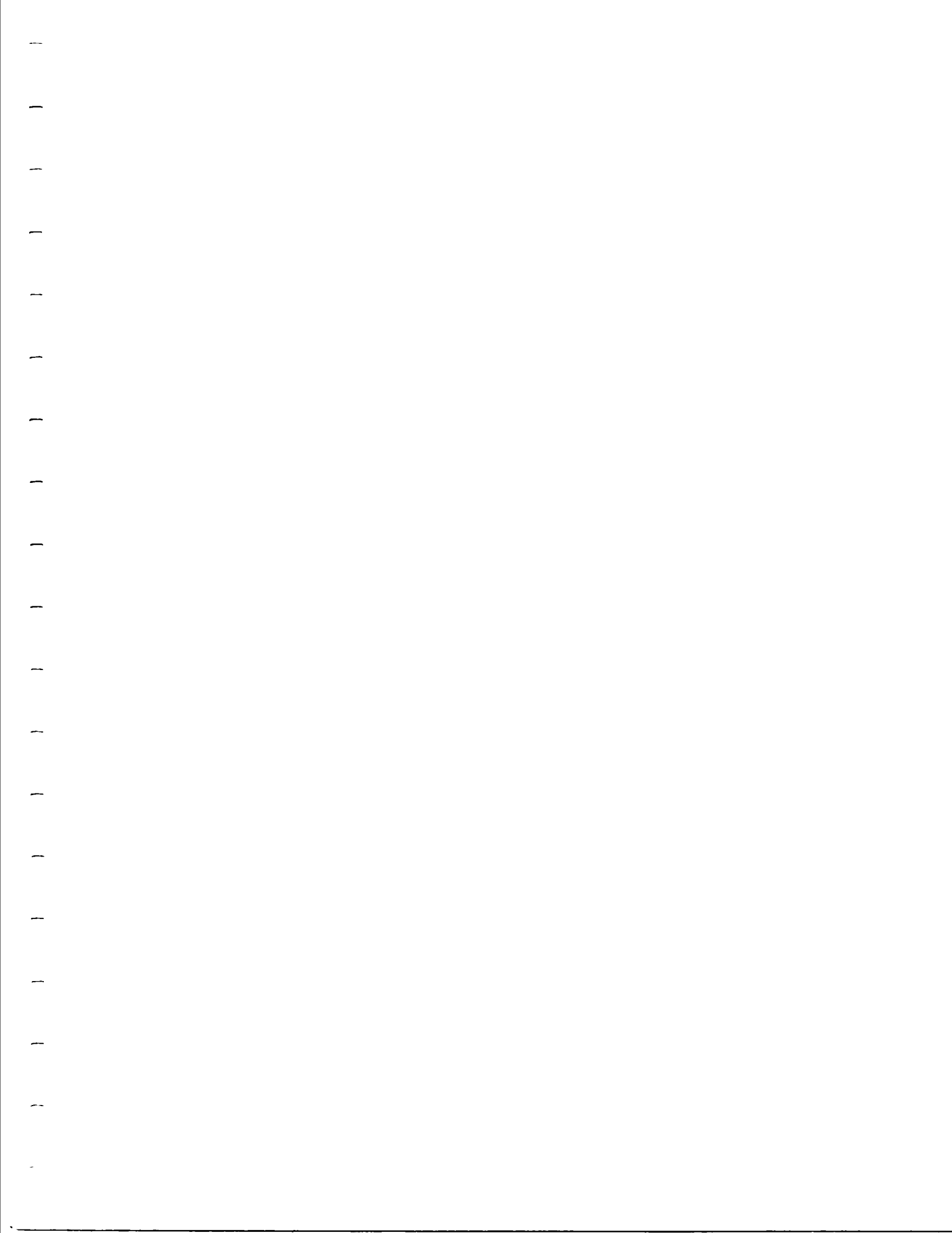
INTERVAL		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
104.50	132.35	<p>SILTSTONE / MUDSTONE Very fine-grained, dark green siltstone with minor, yellow-green mudstone beds @ 20°-30° to which are frequently disrupted and display convoluted bedding and flame structures; intercalated lapilli-tuff horizons up to 1 metre wide which display gradational contacts and frequently include siltstone clasts; these lapilli-tuff horizons are grey-green and contain 5% light grey to dark green, angular trachyte clasts up to 2-3 cm (avg. 0.5 cm). 106.00 - 114.80 0.5 to 1% 0.1-1 cm grey white irregular quartz carbonate veinlets and fracture fillings 114.80 - 115.85 Massive fine grained graywacke interbedded with 2% spoty sericite and <0.5% disseminated pyrite.</p>	7821	104.90	105.50	0.60					0.02	
			7822	105.50	106.00	0.50					0.15	
			7823	106.00	107.00	1.00					0.02	
			7824	107.00	108.00	1.00					0.01	
			7825	108.00	109.00	1.00					0.02	
			7826	109.00	110.00	1.00					0.02	
			7827	110.00	111.00	1.00					0.01	
			7828	111.00	112.00	1.00					NIL	
			7829	112.00	113.00	1.00					NIL	
			7830	113.00	114.00	1.00					0.01	0.01
			7831	114.00	114.80	0.80					0.02	
			7832	114.80	115.30	0.50					NIL	
			7833	115.30	116.00	0.70					0.01	
			7834	116.00	117.00	1.00					NIL	
		7835	117.00	118.00	1.00					0.01		
		7836	118.00	119.00	1.00					0.01		
		7837	119.00	120.00	1.00					0.01		
		7838	131.00	132.00	1.00					0.01		
		7839	132.00	132.50	0.50					NIL		
132.35	142.90	<p>LAPILLI TUFF Massive grey-green, poorly sorted, with 5-10% angular, buff-brown to grey to dark green trachyte clasts, up to 4 cm (avg. 1 cm), in a fine grained ash matrix; contains fragments and interbeds of siltstone up to 7 cm wide; weakly magnetic. 135.50 - 135.60 2-3% very finely disseminated pyrite in moderately silicified tuff.</p>	7840	132.50	133.20	0.70					NIL	
			7841	133.20	134.20	1.00					NIL	
			7842	134.20	134.70	0.50					0.01	0.01
			7843	134.70	135.20	0.50					0.01	
		7844	135.20	136.00	0.80					NIL		

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-90-25/92-25 Ext.

PAGE: 7 of 8

INTERVAL		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		135.60										
		136.10	7845	136.00	136.70	0.70					0.01	
		136.10 - 136.70	7846	136.70	137.50	0.80					NIL	
			7847	137.50	138.50	1.00					NIL	
142.90	149.25	LAPILLI/ASH TUFF Hole re-entered at 142.90 m on August 12, 1992. Massive, medium grey-green, chloritic to sericitic heterolithic lapilli tuff interdigitated with very fine grained, grey-green ash tufts. Non magnetic.	3925	143.00	144.00	1.00					0.01	
			3926	144.00	144.50	0.50					NIL	
			3927	144.50	145.10	0.60					0.17	
		145.00	3928	145.10	145.60	0.50					0.02	
			3929	145.60	146.10	0.50					0.09	
		145.00 - 149.25										
		145.90 - 146.10	3930	146.10	147.00	0.90					NIL	
			3931	147.00	148.00	1.00					0.02	
			3932	148.00	148.50	0.50					NIL	
			3933	148.50	149.10	0.60					0.01	
			3934	149.10	149.60	0.50					0.01	
		149.10 - 149.25										
149.25	183.30	GRAYWACKE/LAPILLI TUFF/MUDSTONE Massive to weakly foliated, chloritic graywacke intercalated with mudstone beds and lapilli tuff horizons. Mudstone beds and very irregular and range for 0.5-5 cm wide. Lapilli tuff horizons are up to 1 m wide, generally with gradational contacts and some sediment mixing of clasts. Bedding @ 40-50° tea.	3935	149.60	150.50	0.90					0.02	
			3936	150.50	151.00	0.50					0.08	
			3937	151.00	151.50	0.50					0.02	
			3938	151.50	152.00	0.50					0.01	
			3939	152.00	153.00	1.00					0.02	
			3940	153.00	154.00	1.00					NIL	



BATTLE MOUNTAIN (CANADA) INC. DIAMOND DRILL LOG

HOLE: AK-91-30

PAGE: 1 of 11

PROPERTY Amalgamated Kirkland **DATE LOGGED** August 3, 1991 - August 7, 1991 **EASTING** 8598.7
TOWNSHIP Teck **LOGGED BY** Mark Masson **NORTHING** 10998.9
CLAIM No. L 500057, L 477419 **DRILLED BY** Heath & Sherwood **ELEVATION** 330.2
STARTED Aug 1/91 ; Aug 13/91 **CORE LOCATION** Kirkland Lake Warehouse **COLLAR SURVEY** Northland
COMPLETED Aug 6/91 ; Aug 14/91 **DOWNHOLE SURVEYOR** B.M.C.I. **TECHNICAL** 367.45
SURVEY INSTRUMENT Sperry Sun 1992 **LENGTH** 367.45 metres
CORE SIZE NQ

PURPOSE To test "102" structure

COMMENTS Hole extended from 321.70 to 387.45.
"103" gold zone @ 107.00 - 118.30, 11.3 m.

SIGNED BY


 (W. Benham)

Depth	Method	Azimuth	Dip
Note: See table at end of summary log for downhole surveys			

SUMMARY LOG

INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 6.50	OVERBURDEN	299.70 304.00	GRAYWACKE	42.00 43.00	1.00	0.44
6.50 8.80	FAULT @ 10" TCA Sericite + chlorite + ankerite + quartz.	304.00 322.15	GRAYWACKE/CONGLOMERATE Bleached, sericitic.	107.00 118.30 Including	11.30	1.80
8.80 83.50	CONGLOMERATE Chloritic	322.15 347.00	ASH TUFF Bleached sericitic.	107.50 112.00	4.50	2.88
83.50 90.70	GRAYWACKE	347.00 352.00	ASH/LAPILLI TUFF Hematitic	107.50 109.00	1.50	4.88
90.70 100.50	CONGLOMERATE	352.00 353.00	CONGLOMERATE Weakly sericitic.	107.50 108.00	0.50	11.01
100.50 122.00	CONGLOMERATE Weakly sericitic	353.00 359.90	ASH TUFF Hematitic	110.50 112.00	1.50	3.71
122.00 128.00	117.60 - 107.90 Silicified zone with 0.5% pyrite. 117.95 - 118.25 Sericite + quartz + 1% pyrite.	359.90 363.50	CONGLOMERATE	112.00 118.30	6.30	1.15
128.00 147.00	CONGLOMERATE ± SYENITE (?) Hematized.	363.50 369.45	ASH/LAPILLI TUFF Hematitic	117.90 118.30	0.40	15.12
147.00 154.00	CONGLOMERATE Chloritic	369.45 371.80	FAULT-SHEAR ZONE Sheared mudstones and conglomerates.			
154.00 196.00	LAPILLI TUFF	371.80 387.45	LAPILLI TUFF Hematitic			
196.00 210.50	CONGLOMERATE					
210.50 222.30	GRAYWACKE					
222.30 229.00	CONGLOMERATE					
229.00 237.00	GRAYWACKE/MUDSTONE					
237.00 237.70	LAPILLI TUFF					
237.70 299.70	FAULT ZONE - CHLORITE + SERICITE LAPILLI TUFF	387.45	E. O. H.			

ASSAY SUMMARY

HOLE: AK-91-30

BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG

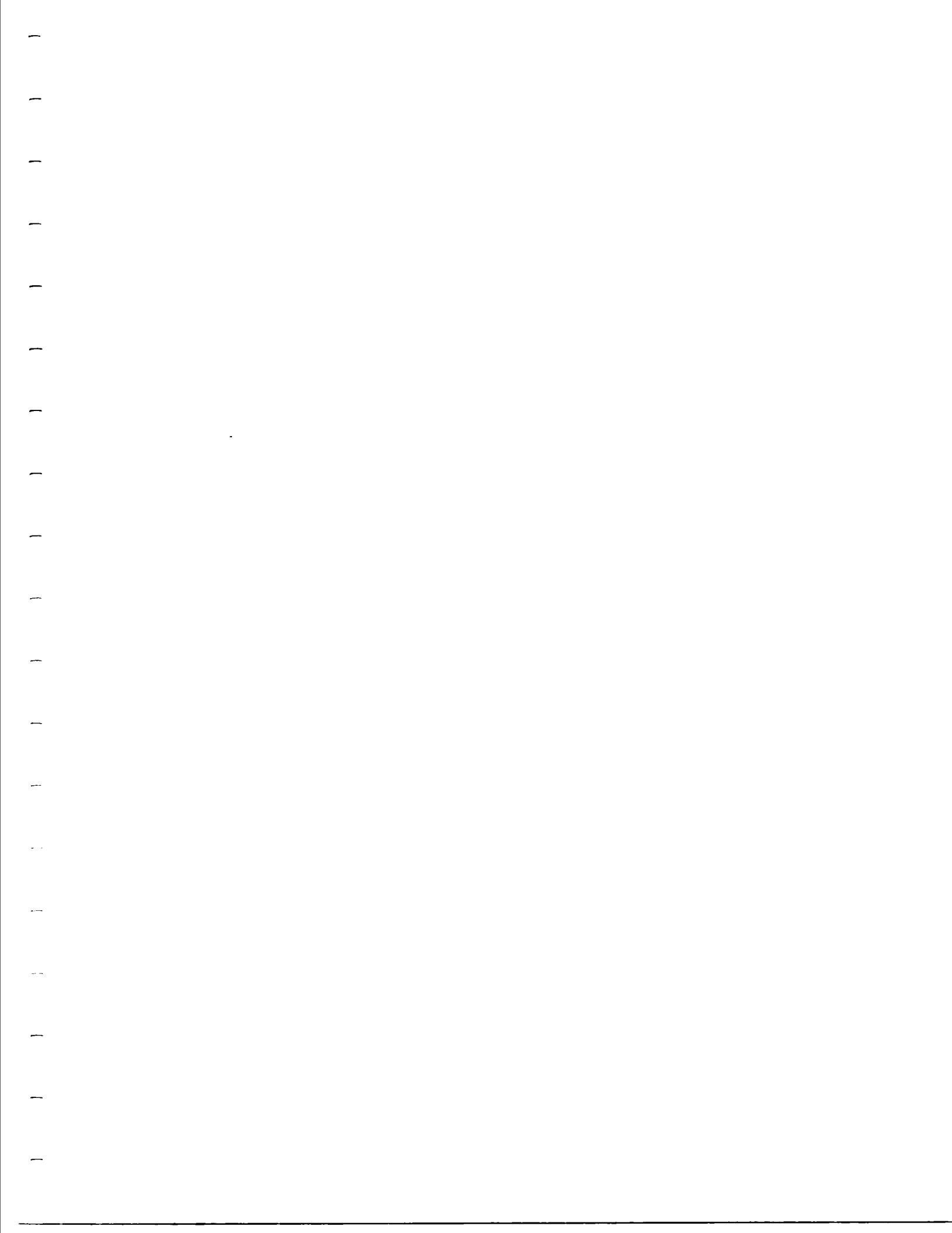
PAGE: 2 of 11

PROPERTY Amalgamated Kirkland DATE LOGGED August 3, 1991 - August 7, 1991 EASTING 8598.7
TOWNSHIP Teck LOGGED BY Mark Mason NORTHING 10398.9
CLAIM No. L 500057, L 477419 DRILLED BY Heath & Sherwood ELEVATION 330.2
STARTED Aug 1/91 ; Aug 13/91 CORE LOCATION Kirkland Lake Warehouse COLLAR SURVEY
COMPLETED Aug 6/91 ; Aug 14/91 DOWNHOLE SURVEYOR B.M.C.I. Technical
SURVEY INSTRUMENT Sperry Sun 1992 387.45
PURPOSE To test "102" structure metres
CORE SIZE NQ

COMMENTS Hole extended from 321.70 to 387.45. SIGNED BY _____
"103" gold zone @ 107.00 - 118.30, 11.3 m. (W. Benham)

Depth	Method	Azimuth	Dip
Notes: See table below for downhole surveys			

SUMMARY LOG				ASSAY SUMMARY																																																	
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t																																															
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Depth	Method	Azimuth	Dip																																																		
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**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-91-31

PAGE: 1 of 17

PROPERTY Amalgamated Kirkland August 7, 1991 - August 13, 1991 EASTING 8190.1
TOWNSHIP Teck Mark Mason NORTHING 10366.4
CLAIM No. L 491662, L 491663 Heath & Sherwood ELEVATION 331.8
STARTED August 6, 1991 Kirkland Lake Warehouse COLLAR SURVEY Northland
COMPLETED August 13, 1991 B.M.C.I. Technical
SURVEY INSTRUMENT Sperry Sun 1992 409.75
metres
NQ

PURPOSE To test "102" structure

COMMENTS "103" gold zone @ 258.40 - 261.50, 3.10 m.
"102" gold zone @ 359.10 - 369.25, 10.15 m.

SIGNED BY


(W. Benham)

Depth	Method	Azimuth	Dip
Note: See table at end of summary log for downhole surveys			

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 3.65	OVERBURDEN	306.80 307.70	MUDSTONE	237.10 239.10	2.00	0.27
3.65 41.00	LAPILLI TUFF Chloritic	307.70 333.80	GRAYWACKE Sericitic	258.40 261.50	3.10	3.63
41.00 69.10	LAPILLI TUFF		316.05 - 316.40 Quartz + chlorite + pyrite vein.	260.50 260.90		
69.10 79.40	LAPILLI TUFF		317.20 - 317.65 Quartz and quartz + chlorite ± pyrite			
79.40 86.30	Sericitic + hematitic LAPILLI/ASH TUFF	333.80 339.50	TRACHYTIC FLOW	334.50 335.00	0.40	27.12
86.30 113.00	LAPILLI TUFF	339.50 362.00	GRAYWACKE Sericitic + chloritic + pyritic		0.50	0.43
113.00 127.60	Leucitic		348.60 - 349.20 Quartz and quartz + chlorite + pyrite veins.	347.40 348.00	0.60	0.16
127.60 230.00	GRAYWACKE/MUDSTONE/CONGLOMERATE		359.15 - 359.20 Quartz + chlorite + pyrite zone with VISIBLE GOLD.	358.60 359.10	0.50	0.14
230.00 246.20	CONGLOMERATE		CONGLOMERATE	359.10 364.25	5.15	9.70
246.20 247.30	DIABASE DYKE		Sericitic	including 359.10 359.60		
247.30 256.90	CONGLOMERATE	362.00 368.40	362.00 - 362.20 5-7% quartz + albite veins, 1-2% quartz flooding with 1% pyrite. 0.5% pyrite in matrix.	361.90 362.20	0.50	42.43
256.90 270.10	Chloritic		363.40 - 364.25 Silicified, 50% quartz veins and quartz flooding, 0.5 - 1% pyrite.	363.40 364.25	0.30	12.52
270.10 273.20	GRAYWACKE 260.60 - 260.90 Quartz + pyrite + sericite vein.		SILTSTONE	364.25 364.65	0.85	23.43
273.20 277.20	LAPILLI TUFF		GRAYWACKE			
277.20 282.40	ASH TUFF		CONGLOMERATE	366.20 367.00	0.40	0.23
282.40 284.10	GRAYWACKE/MUDSTONE/LAPILLI/ASH TUFF	368.40 369.65				
284.10 306.80	MUDSTONE/SILTSTONE	369.65 372.00				
	ASH TUFF	372.00 373.20				
	Chloritic + hematitic.					

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-91-31

PAGE: 3 of 17

PROPERTY Amalgamated Kirkland
TOWNSHIP Teck
CLAIM No. L 491662, L 491663
STARTED August 6, 1991
COMPLETED August 13, 1991

August 7, 1991 - August 13, 1991
 Mark Mason
 Heath & Sherwood
 Kirkland Lake Warehouse
 B.M.C.I.
 Sperry Sun 1992

EASTING 8190.1
NORTHING 10366.4
ELEVATION 331.8
COLLAR SURVEY Northland
TECHNICAL Technical
LENGTH 409.75
UNITS metres
CORE SIZE NQ

PURPOSE To test "102" structure

COMMENTS "103" gold zone @ 258.40 - 261.50, 3.10 m.
 "102" gold zone @ 359.10 - 369.25, 10.15 m.

SIGNED BY _____
 (W. Benham)

Depth	Method	Azimuth	Dip
Notes: See table below for all downhole surveys			

SUMMARY LOG

INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	ASSAY SUMMARY																																																																																								
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BATTLE MOUNTAIN (CANADA) INC. DIAMOND DRILL LOG

HOLE: AK-91-32

PAGE: 2 of 12

PROPERTY TOWNSHIP Teck	DATE LOGGED August 15, 1991 - August 21, 1991	EASTING 9400.4
CLAIM No. L 491663	LOGGED BY Mark Mason	NORTHING 10032.0
STARTED August 15, 1991	DRILLED BY Heath & Sherwood	ELEVATION 314.3
COMPLETED August 20, 1991	CORE LOCATION Kirkland Lake Warehouse	Northland Technical
	DOWNHOLE SURVEYOR B.M.C.I.	390.80 metres
	SURVEY INSTRUMENT Tropari 1991; Sperry Sun 1992	NQ

PURPOSE To test "102" structure

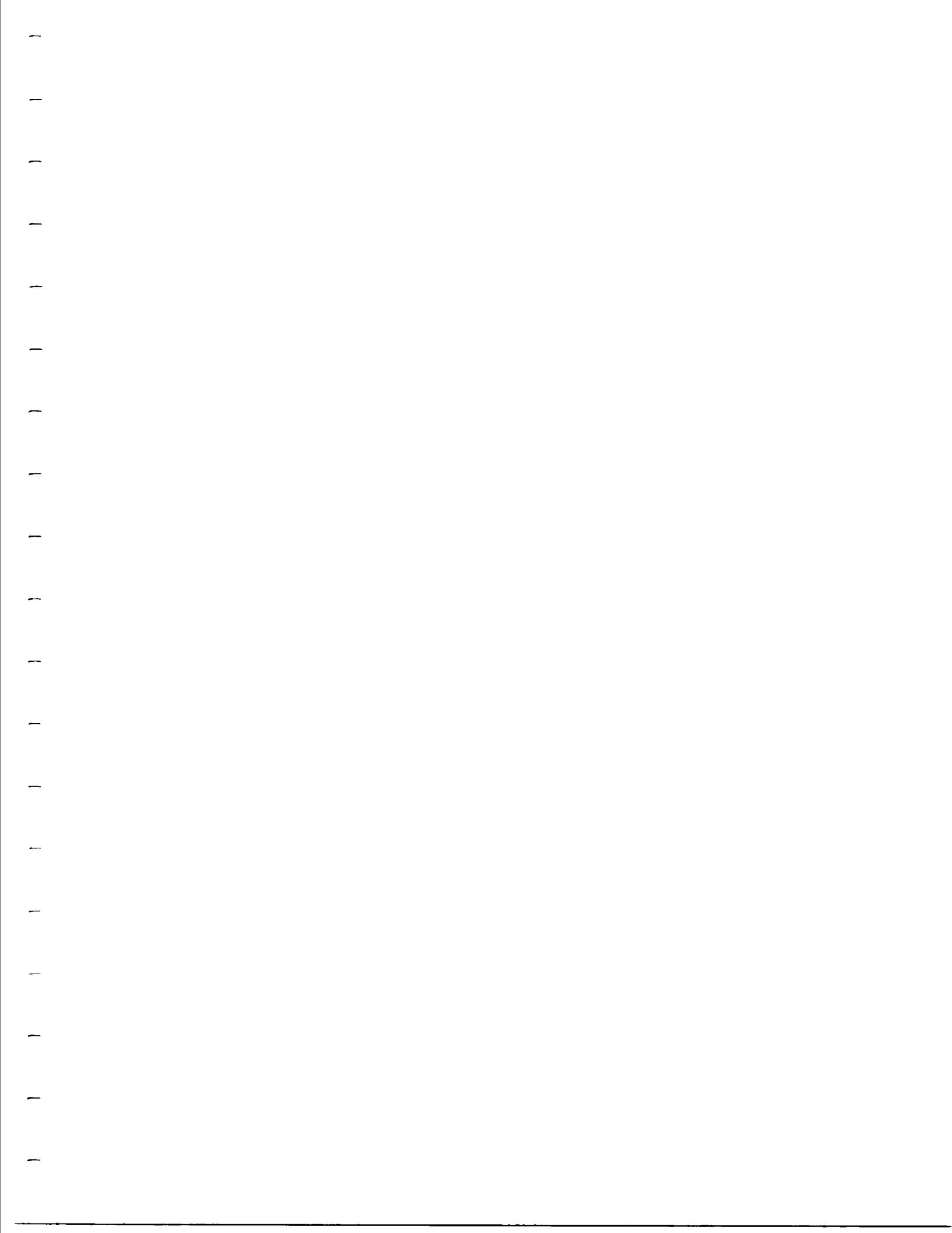
COMMENTS No anomalous assays

SIGNED BY _____

(W. Benham)

Depth	Method	Azimuth	Dip
Notes:	See table below for all downhole surveys		

SUMMARY LOG				ASSAY SUMMARY																																																																																										
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t																																																																																								
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**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-91-33

PAGE: 1 of 12

PROPERTY	Amalgamated Kirkland	DATE LOGGED	August 22, 1991 - August 29, 1991	EASTING	7999.0
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10370.5
CLAIM No.	L 491650, L 491651	DRILLED BY	Heath & Sherwood	ELEVATION	344.4
STARTED	August 21, 1991	CORE LOCATION	Kirkland Lake Warehouse	COLLAR SURVEY	Northland
COMPLETED	August 28, 1991	DOWNHOLE SURVEYOR	B.M.C.I.	TECHNICAL	Technical
		SURVEY INSTRUMENT	Tropari 1991; Sperry Sun 1992	LENGTH	454.75
				UNITS	metres
				CORE SIZE	NQ

PURPOSE To test "102" structure

COMMENTS "103" gold zone @ 275.50 - 276.10, 0.60 m.
"102" gold zone @ 378.80 - 379.25, 0.45 m.

SIGNED BY


(W. Benham)

Depth	Method	Azimuth	Dip
Note: See table at end of summary log for downhole surveys			

SUMMARY LOG

INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	AVERAGE Au g/t
0.00 2.13	OVERBURDEN				
2.13 26.90	LAPILLI/ASH TUFF 25.00 - 25.50 Fault @ 15-40° tca.	282.90 337.70	275.50 - 276.10 ASH TUFF	275.50 276.10	0.13
26.90 62.80	SILTSTONE/MUDSTONE 54.80 - 55.10 Fault @ 30° tca.	337.70 370.70	306.90 - 307.20 LAPILLI TUFF	378.80 379.25	0.16
62.80 228.10	LAPILLI TUFF 139.70 - 139.90 Fault @ 55° tca. 146.90 - 147.30 Fault @ 45° tca. 189.00 - 189.01 Fault @ 35° tca. 212.80 - 213.50 Shear zone @ 25° tca. 226.50 - 226.90 Fault @ 60° tca. 227.60 - 228.10 Fault @ 65° tca.	370.70 389.10	340.50 - 350.00 LAPILLI TUFF LAPILLI TUFF Sericitic 389.00 - 389.10 Fault @ 60° tca. LAPILLI TUFF/SILTSTONE LAPILLI TUFF SILTSTONE LAPILLI TUFF SILTSTONE/MUDSTONE 427.40 - 429.00 Shear zone @ 45° tca. GRAYWACKE 442.90 Fault @ 30° tca.		
228.10 229.60	GRAYWACKE				
229.60 232.70	MUDSTONE				
232.70 240.20	LAPILLI TUFF				
240.20 246.90	GRAYWACKE				
246.90 248.90	LAPILLI TUFF				
248.90 255.90	MUDSTONE/SILTSTONE 251.25 - 251.35 Quartz + sericite + pyrite vein @ 70° tca.	432.90 454.75	E. O. H.		
255.90 282.90	GRAYWACKE 1-2% quartz + chlorite veinlets @ 15-65° tca, trace pyrite.	454.75			

ASSAY SUMMARY

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-91-35

PAGE: 2 of 12

PROPERTY	Amalgamated Kirtland	DATE LOGGED	September 7, 1991 - September 12, 1991	EASTING	7599.6
TOWNSHIP	Teck	LOGGED BY	Mark Mason	NORTHING	10097.4
CLAIM No.	L 491182, L 491183	DRILLED BY	Heath & Sherwood	ELEVATION	337.3
STARTED	September 6, 1991	CORE LOCATION	Kirtland Lake Warehouse	COLLAR SURVEY	Northland
COMPLETED	September 12, 1991	DOWNHOLE SURVEYOR	B.M.C.I.	TECHNICAL	Technical
		SURVEY INSTRUMENT	Sperry Sun 1992	LENGTH	365.50
				UNITS	metres
				CORE SIZE	NQ

PURPOSE To test "102" and "103" structures.

COMMENTS "102" gold zone @ 223.00 - 226.00, 3.00 m.
"103" gold zone @ 344.05 - 347.50, 3.45 m.

SIGNED BY _____

(W. Benham)

Depth	Method	Azimuth	Dip
Notes:	See table below for downhole surveys		

INTERVAL		SUMMARY LOG				ASSAY SUMMARY																																																	
From	To	DESCRIPTION	INTERVAL	DESCRIPTION	INTERVAL	LENGTH	AVERAGE																																																
			From		From	In metres	Au g/t																																																
			To		To																																																		
		<table border="1"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr> <td>Collar</td> <td>Compass</td> <td>341</td> <td>50</td> </tr> <tr> <td>6.0</td> <td>Acid</td> <td></td> <td>50</td> </tr> <tr> <td>50.0</td> <td>Sperry Sun</td> <td>343</td> <td>48</td> </tr> <tr> <td>60.0</td> <td>Acid</td> <td></td> <td>49</td> </tr> <tr> <td>91.0</td> <td>Acid</td> <td></td> <td>47</td> </tr> <tr> <td>100.0</td> <td>Sperry Sun</td> <td>341</td> <td>46</td> </tr> <tr> <td>122.0</td> <td>Acid</td> <td></td> <td>47</td> </tr> <tr> <td>150.0</td> <td>Sperry Sun</td> <td>338</td> <td>44</td> </tr> <tr> <td>152.0</td> <td>Acid</td> <td></td> <td>46</td> </tr> <tr> <td>183.0</td> <td>Acid</td> <td></td> <td>45</td> </tr> <tr> <td>214.0</td> <td>Acid</td> <td></td> <td>45</td> </tr> </tbody> </table>	Depth	Method	Azimuth	Dip	Collar	Compass	341	50	6.0	Acid		50	50.0	Sperry Sun	343	48	60.0	Acid		49	91.0	Acid		47	100.0	Sperry Sun	341	46	122.0	Acid		47	150.0	Sperry Sun	338	44	152.0	Acid		46	183.0	Acid		45	214.0	Acid		45					
Depth	Method	Azimuth	Dip																																																				
Collar	Compass	341	50																																																				
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Depth	Method	Azimuth	Dip																																																				
244.0	Acid		44																																																				
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**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-91-38

PAGE: 1 of 23

PROPERTY Amalgamated Kirkland
TOWNSHIP Teck
CLAIM No. L 491662, L 491663
STARTED September 22, 1991
COMPLETED October 3, 1991

September 23, 1991 - October 4, 1991
Mark Mason
Heath & Sherwood
Kirkland Lake Warehouse
B.M.C.I.
Tropari 1991; Sperry Sun 1992

8189.1
10984.3
333.0
Northland
Technical
619.10
metres
NQ

EASTING
NORTHING
ELEVATION
COLLAR SURVEY
LENGTH
UNITS
CORE SIZE

PURPOSE To test "102" and "103" structures.

COMMENTS "103" gold zone @ 387.35 - 390.10, 2.75 m
"102" gold zone @ 546.90 - 578.16, 31.26 m

SIGNED BY


(W. Benham)

Depth	Method	Azimuth	Dip
Note: See table at end of summary log for downhole surveys			

SUMMARY LOG

INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	AVERAGE Au g/t
0.00 1.50	OVERBURDEN	432.80 432.90	Chlorite + quartz + pyrite breccia vein.	387.35 390.10	0.41
1.50 33.50	ASH/LAPILLI TUFF	433.40 441.60	CONGLOMERATE/GRAYWACKE/MUDSTONE	389.50 390.10	1.14
33.50 55.40	LAPILLI TUFF	441.60 451.80	LAPILLI TUFF	546.90 552.00	1.97
55.40 84.40	LAPILLI TUFF Monolithic	451.80 459.30	Sericitic	546.90 547.35	8.18
84.40 112.70	LAPILLI TUFF/SILTSTONE	459.30 469.50	ASH TUFF	559.60 560.60	0.33
112.70 135.55	LAPILLI TUFF	469.50 545.00	Hematitic	566.50 567.00	0.29
135.55 144.00	LAPILLI TUFF/CONGLOMERATE	545.00 560.10	LAPILLI TUFF	568.80 573.50	0.20
144.00 241.50	LAPILLI TUFF/CONGLOMERATE	560.10 564.10	Sericitic	577.60 578.60	2.66
241.50 261.90	GRAYWACKE	564.10 583.10	Sericitic, foliated @ 35-40° tca.	578.10 578.60	4.55
261.90 299.40	CONGLOMERATE		Sericitic + pyrite + quartz vein @ 30-40° tca.		
299.40 320.90	Foliated @ 30° tca.		Sericitic + pyrite + quartz vein @ 30° tca.		
320.90 357.70	LAPILLI TUFF		Sericitic + pyrite + quartz vein @ 35° tca.		
357.70 369.05	CONGLOMERATE		CONGLOMERATE/GRAYWACKE		
369.05 398.90	381.50 - 390.00 Foliated @ 30° tca, sericite. 389.70 - 390.00 Fault @ 55-60° tca, 25% quartz, 1% pyrite.		Sericitic		
398.90 420.30	SILTSTONE/MUDSTONE		LAPILLI TUFF		
420.30 427.90	CONGLOMERATE		Sericitic, foliated @ 30° tca.		
427.90 433.40	GRAYWACKE				
	1 cm quartz + pyrite vein.				

ASSAY SUMMARY

INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
387.35 390.10	2.75	0.41
389.50 390.10	0.60	1.14
546.90 552.00	5.10	1.97
546.90 547.35	0.45	8.18
559.60 560.60	1.00	0.33
566.50 567.00	0.50	0.29
568.80 573.50	4.70	0.20
577.60 578.60	1.00	2.66
578.10 578.60	0.50	4.55

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: AK-91-38

PAGE: 2 of 23

PROPERTY Amalgamated Kirkland DATE LOGGED September 23, 1991 - October 4, 1991 EASTING 8189.1
TOWNSHIP Teck LOGGED BY Mark Mason NORTHING 10384.3
CLAIM No. L 491662, L 491663 DRILLED BY Heath & Sherwood ELEVATION 333.0
STARTED September 22, 1991 CORE LOCATION Kirkland Lake Warehouse COLLAR SURVEY Northland
COMPLETED October 3, 1991 DOWNHOLE SURVEYOR B.M.C.I. Technical
SURVEY INSTRUMENT Topcon 1991; Sperry Sun 1992 619.10 metres NQ

PURPOSE To test "102" and "103" structures.

COMMENTS "103" gold zone @ 387.35 - 390.10, 2.75 m
"102" gold zone @ 546.90 - 578.16, 31.26 m

SIGNED BY _____

(W. Benham)

Depth	Method	Azimuth	Dip
Note: See table at end of summary log for downhole surveys			

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
564.10 - 564.40 566.70 - 566.80	0.5% pyrite Foliated tuff with 1% pyrite and 2 cm quartz + albite vein @ 30° tca with 2% pyrite and trace galena.			579.10 579.60	0.50	0.13
571.15 - 571.25	Sericite + pyrite + quartz vein @ 30° tca.			581.00 581.50	0.50	0.23
573.15 - 573.40	Fault zone @ 35-50° tca 1-2% pyrite, 1-2% quartz veins.					
574.75	1 cm quartz + pyrite vein @ 45° tca.					
577.70 - 578.55	Sericite + quartz + pyrite zone @ 35° tca.					
583.10 619.10	LAPILLI TUFF Hematitic					
619.10	E. O. H.					

Kirkland Lake Project

Amalgamated Kirkland Drilling, 1992

APPENDIX II
ASSAY CERTIFICATES

Battle Mountain (Canada) Inc.

November, 1992



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Assay Certificate

2W-0096-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: FEB-05-92

We hereby certify the following Assay of 30 CORE samples submitted JAN-30-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
2055	0.01	
2056	0.01	
2057	0.01	
2058	0.01	
2059	0.01	Nil
2060	0.01	
2061	Nil	
2062	0.01	
2063	0.01	
2064	0.01	
2065	0.01	
2066	0.01	
2067	0.01	
2068	0.01	
2069	0.01	
2070	Nil	
2071	0.01	
2072	0.01	
2073	Nil	
2074	0.01	
2075	0.01	
2076	0.01	
2077	Nil	
2078	0.01	
2079	0.01	
2080	0.01	
2081	0.01	
2082	0.01	
2083	0.01	
2084	0.01	0.01

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Page 1 of 2

2W-0105-RA1

Assay Certificate

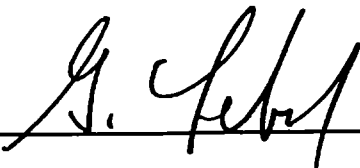
Date: FEB-10-92

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

We hereby certify the following Assay of 51 CORE samples submitted FEB-03-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
2085	0.01	
2086	0.01	
2087	nil	
2088	0.01	
2089	0.01	
2090	0.01	
2091	0.02	
2092	0.01	
2093	0.01	
2094	0.01	
2095	nil	
2096	nil	
2097	0.01	
2098	0.01	0.02
2099	0.01	
2100	0.01	
2101	0.01	
2102	0.02	
2103	0.01	
2104	nil	
2105	0.01	
2106	nil	
2107	0.01	
2108	0.01	
2109	0.02	
2110	0.01	
2111	0.01	
2112	0.02	0.02
2113	0.01	
2114	0.01	

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2W-0105-RA1

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **FEB-10-92**

We hereby certify the following Assay of 51 CORE samples submitted FEB-03-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
2115	nil	
2116	0.01	nil
2117	nil	
2118	0.01	
2119	0.01	
2120	nil	
2121	0.01	
2122	0.01	
2123	0.03	
2124	0.02	0.02
2125	0.01	
2126	0.02	
2127	0.02	
2128	0.01	
2129	0.01	
2130	0.01	
2131	0.01	
2132	0.01	
2133	0.06	
2134	0.02	
2135	0.01	

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Assay Certificate

2W-0107-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: FEB-11-92

We hereby certify the following Assay of 45 CORE samples submitted FEB-04-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
2136	0.01	
2137	0.01	
2138	0.01	
2139	0.01	
2140	Nil	Nil
2141	0.01	
2142	0.01	
2143	0.01	
2144	0.01	
2145	Nil	
2146	0.01	
2147	0.01	
2148	0.19	
2149	0.08	
2150	0.20	
2151	Nil	
2152	0.01	
2153	0.02	
2154	0.03	
2155	0.04	0.04
2156	0.03	
2157	0.01	
2158	Nil	
2159	0.01	
2160	0.01	
2161	0.01	
2162	0.02	
2163	0.03	
2164	0.01	
2165	0.01	0.01

Au was determined using 1 AT fusions

Certified by Donna Gardner

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244

FAX (705) 642-3300



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Assay Certificate

2W-0107-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **FEB-11-92**

We hereby certify the following Assay of 45 CORE samples submitted FEB-04-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
2166	0.01	
2167	0.03	
2168	0.11	
2169	0.07	
2170	0.02	
2171	0.05	
2172	0.03	
2173	0.03	
2174	0.08	
2175	0.02	0.03
2176	0.04	
2177	0.01	
2178	0.01	
2179	Nil	
2180	0.01	

Au was determined using 1 AT fusions

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RECEIVED FEB 17 1992

Page 1 of 2

2W-0114-RA1

Assay Certificate

Date: FEB-12-92

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

We hereby certify the following Assay of 51 CORE samples submitted FEB-05-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne	Au ppb	Au check ppb
2181	0.03			
2182	0.01			
2183	0.01			
2184	0.01			
2185	0.01			
2186	0.01			
2187	0.01			
2188	0.01			
2189	0.01			
2190	0.01	0.01		
2191	Nil			
2192	Nil			
2193	0.03			
2194	0.39			
2195	0.03			
2196	0.02			
2197	0.05			
2198	0.01			
2199	Nil			
2200	0.01			
2201	Nil			
2202	0.02			
2203	0.01			
2204	0.02	0.01		
2205	0.01			
2206	0.02			
2207	0.02			
2208	0.05			
2209	0.01			
2210	0.02			

Au was determined using 1 AT fusions

Certified by Wanna Gardner



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Page 2 of 2

2W-0114-RA1

Assay Certificate

Date: FEB-12-92

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Ass: **WAYNE BENHAM**

We hereby certify the following Assay of 51 CORE samples submitted FEB-05-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne	Au ppb	Au check ppb
2211	0.04			
2212	0.02			
2213	0.17	0.16		
2214	0.03			
2215	0.13			
2216	0.06			
2217	0.15			
2218	0.30			
2219	0.88			
2220	0.15			
2221	VG		63703	64115
2222	VG		137418	136870
2223			11760	
2224	0.37			
2225	0.27			
2226	0.34			
2227	0.49			
2228	0.52			
2229	0.40			
2230	0.88			
2231	0.90			

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assay Certificate

2W-0122-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: FEB-14-92

We hereby certify the following Assay of 38 CORE samples submitted FEB-06-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne	Au 2nd g/tonne
2232	1.41		
2233	0.45		
2234	0.69		
2235	0.27		
2236	2.47		
2237	2.43	2.23	
2238	1.20		
2239	0.51		
2240	3.22		
2241	15.77	15.50	15.70
2242	2.57		
2243	1.85		
2244	7.06		
2245	9.84	10.77	
2246	1.61		
2247	2.81		
2248	0.27		
2249	1.85		
2250	0.41		
2251	0.38		
2252	9.67		
2253	8.81		
2254	1.47		
2255	14.02	13.85	13.20
2256	3.91		
2257	4.18		
2258	3.67	3.77	
2259	0.55		
2260	0.48		
2261	0.62		

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assay Certificate

2W-0122-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: FEB-14-92

We hereby certify the following Assay of 38 CORE samples submitted FEB-06-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne	Au 2nd g/tonne
2262	1.92		486.0 - 487.0
2263	1.65		487.0 - 488.0
2264	0.55		
2265	0.65		
2266	0.27		
2267	0.10		
2268	0.10		
2269	0.07		491 - 492.0

Au was determined using 1 AT fusions

Certified by Lorna Garano



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Page 1 of 2

2W-0169-RA1

Date: FEB-18-92

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75JV28**
Attn: **WAYNE BENHAM**

We hereby certify the following Assay of 35 CORE samples submitted FEB-10-92 by MARK MASSON.

RECEIVED FEB 24 1992

Sample Number	Au g/tonne	Au check g/tonne
2270	0.07	
2271	0.02	
2272	0.02	
2273	0.01	
2274	0.02	0.01
2275	0.02	
2276	0.01	
2277	0.01	
2278	0.03	
2279	0.13	
2280	0.02	
2281	0.01	
2282	0.01	
2283	0.09	
2284	0.03	
2285	0.01	
2286	0.01	
2287	0.02	0.02
2288	0.03	
2289	0.03	
2290	0.03	
2291	0.02	
2292	0.02	
2293	0.03	
2294	0.03	
2295	0.02	
2296	0.03	0.01
2297	0.03	
2298	0.01	
2299	0.02	

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

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Page 2 of 2

2W-0169-RA1

Date: FEB-18-92

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75JV28**
Attn: **WAYNE BENHAM**

We hereby certify the following Assay of 35 CORE samples submitted FEB-10-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
2300	0.01	
2301	0.03	
2302	0.01	
2303	0.07	
2304	0.03	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assay Certificate

2W-0161-RA1

Date: FEB-20-92

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75JV28**
Attn: **WAYNE BENHAM**

We hereby certify the following Assay of 18 CORE samples submitted FEB-13-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
2305	0.01	
2306	0.01	
2307	0.03	
2308	0.02	0.02
2309	0.01	
2310	0.01	
2311	0.01	
2312	0.01	
2313	0.01	
2314	0.02	
2315	Nil	
2316	0.01	
2317	0.03	
2318	0.01	
2319	0.01	0.01
2320	0.01	
2321	0.01	
2322	0.01	

Au was determined using 1 AT fusions

Certified by Lonna Gardner



Established 1928

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Assaying - Consulting - Representation

Assay Certificate

2W-0179-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **FEB-24-92**

We hereby certify the following Assay of 14 CORE samples submitted FEB-17-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
11905	Nil	
11906	0.01	
11907	0.01	
11908	0.01	
11909	0.02	
11910	0.02	
11911	0.02	
11912	0.02	
11913	0.09	0.09
11914	0.03	
11915	0.02	
11916	0.03	
11917	0.02	
11918	0.02	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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2W-0185-RA1

Date: FEB-28-92

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

RECEIVED MAR 16 1992

We hereby certify the following Assay of 52 CORE samples submitted FEB-17-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
2323	0.02	
2324	0.02	
2325	0.03	
2326	0.03	0.02
2327	0.01	
2328	0.02	
2329	0.02	
2330	0.01	
2331	0.02	
2332	0.02	
2333	0.01	
2334	0.01	
2335	0.02	
2336	0.02	
2337	0.02	
2338	0.02	
2339	0.02	
2340	0.02	
2341	0.03	0.03
2342	0.02	
2343	0.02	
2344	0.02	
2345	0.01	
2346	0.01	
2347	0.01	
2348	0.01	
2349	0.01	0.02
2350	0.01	
2351	0.01	
2352	0.01	

Au was determined using 1 AT fusions

Certified by Jonna Gardner



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2W-0185-RA1

Date: FEB-28-92

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

We hereby certify the following Assay of 52 CORE samples submitted FEB-17-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
2353	0.01	
2354	Nil	
2355	Nil	
2356	0.01	
2357	0.01	
2358	0.01	
2359	0.01	
2360	0.02	
2361	0.02	
2362	0.04	
2363	0.02	
2364	0.02	
2365	0.02	0.04
2366	0.02	
2367	0.02	
2368	0.01	
2369	0.01	
2370	0.01	
2371	0.02	
2372	0.02	
2373	0.01	
2374	0.01	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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2W-0214-RA1

Date: MAR-05-92

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

RECEIVED MAR 16 1992

We hereby certify the following Assay of 43 CORE samples submitted FEB-24-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne	Au 2nd g/tonne
2375	Nil		
2376	Nil		
2377	Nil		
2378	Nil		
2379	Nil		
2380	Nil		
2381	0.01		
2382	0.01		
2383	0.01		
2384	0.01		
2385	0.06		
2386	8.57	8.74	10.29
2387	0.05		
2388	0.01		
2389	0.01		
2390	0.02		
2391	0.01		
2392	0.01		
2393	0.01		
2394	Nil		
2395	Nil		
2396	Nil		
2397	0.02		
2398	0.02		
2399	0.01		
2400	0.01		
2401	0.01		
2402	0.01	0.01	
2403	0.01		
2404	0.01		

Au was determined using 1 AT fusions

Certified by Donna Gardner



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2W-0214-RA1

Date: MAR-05-92

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

We hereby certify the following Assay of 43 CORE samples submitted FEB-24-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne	Au 2nd g/tonne
2405	Nil		
2406	Nil		
2407	Nil		
2408	Nil		
2409	0.02		
2410	0.01		
2411	0.01		
2412	Nil		
2413	Nil	Nil	
2414	0.01		
2415	Nil		
2416	Nil		
2417	0.01		

Au was determined using 1 AT fusions

Certified by L. Donna Gardner



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2W-0215-RA1

Assay Certificate

Date: MAR-05-92

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75JV28**
Attn: **WAYNE BENHAM**

RECEIVED MAR 16 1992

We hereby certify the following Assay of 34 CORE samples submitted FEB-26-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
2418	Nil	
2419	Nil	
2420	0.01	
2421	Nil	Nil
2422	Nil	
2423	Nil	
2424	0.01	
2425	0.02	
2426	0.04	
2427	0.04	
2428	0.02	
2429	0.01	
2430	0.01	
2431	0.01	
2432	0.03	
2433	0.01	
2434	0.01	
2435	0.01	
2436	0.01	0.01
2437	0.02	
2438	0.01	
2439	0.01	
2440	0.01	
2441	0.01	
2442	0.01	
2443	Nil	
2444	0.01	
2445	0.02	
2446	0.01	
2447	0.01	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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2W-0215-RA1

Date: MAR-05-92

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75JV28**
Attn: **WAYNE BENHAM**

We hereby certify the following Assay of 34 CORE samples submitted FEB-26-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
2448	0.01	
2449	0.01	
2450	Nil	
2459	0.01	0.01

Au was determined using 1 AT fusions

Certified by Donna Gardner



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2W-0231-RA1

Assay Certificate

Date: MAR-10-92

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

We hereby certify the following Assay of 80 CORE samples submitted MAR-03-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
2460	0.01	0.04
2461	0.01	
2462	0.01	
2463	Nil	
2464	0.01	
2465	Nil	
2466	Nil	
2467	0.01	
2468	Nil	
2469	0.01	
2470	0.01	
2471	Nil	
2472	0.02	
2473	Nil	
2474	0.01	
2475	Nil	
2476	Nil	
2477	0.04	
2478	0.01	0.01
2479	Nil	
2480	0.01	
2481	0.01	
2482	0.01	
2483	0.01	
2484	0.01	
2485	0.01	
2486	Nil	
2487	Nil	
2488	Nil	
2489	Nil	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assay Certificate

2W-0231-RA1

Date: MAR-10-92

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Att: **WAYNE BENHAM**

We hereby certify the following Assay of 80 CORE samples submitted MAR-03-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
2490	0.01	
2491	0.01	
2492	0.01	
2493	0.01	0.01
2494	0.01	
2495	Nil	
2496	0.01	
2497	Nil	
2498	Nil	
2499	0.01	
2500	0.01	
3001	Nil	
3002	0.08	
3003	0.01	
3004	0.01	
3005	Nil	
3006	0.01	
3007	Nil	
3008	0.01	
3009	0.01	
3010	0.01	
3011	0.01	
3012	0.01	
3013	0.02	
3014	0.02	
3015	0.01	0.01
3016	0.01	
3017	Nil	
3018	Nil	
3019	0.01	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assay Certificate

2W-0231-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **MAR-10-92**

We hereby certify the following Assay of 80 CORE samples submitted MAR-03-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
3020	Nil	
3021	0.02	
3022	0.03	0.01
3023	0.01	
3024	0.01	
3025	0.01	
3026	0.05	
3027	0.01	
3028	Nil	
3029	0.01	
3030	0.01	
3031	0.01	
3032	0.01	
3033	0.01	
3034	0.01	
3035	0.01	
3036	0.01	
3037	0.01	
3038	0.01	0.01
3039	0.09	

Au was determined using 1 AT fusions

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2W-0235-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **MAR-11-92**

We hereby certify the following Assay of 14 CORE samples submitted MAR-04-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
3040	0.01	
3041	0.10	0.10
3042	0.01	
3043	0.01	
3044	Nil	
3045	Nil	
3046	Nil	
3047	0.11	
3048	0.01	0.01
3049	0.01	
3050	0.02	
3051	0.01	
3052	0.03	
3053	0.01	

Au was determined using 1 AT fusions

Certified by Donna Herdner



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2W-0260-RA1

Date: MAR-17-92

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

We hereby certify the following Assay of 42 CORE samples submitted MAR-11-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
3054	0.01	
3055	0.01	
3056	0.02	
3057	0.02	0.01
3058	0.01	
3059	Nil	
3060	Nil	
3061	Nil	
3062	Nil	
3063	Nil	
3064	0.01	
3065	0.01	
3066	Nil	
3067	0.01	
3068	Nil	
3069	0.03	
3070	0.02	
3071	0.01	
3072	0.01	0.01
3073	0.01	
3074	0.01	
3075	Nil	
3076	0.02	
3077	0.01	
3078	0.01	
3079	0.01	
3080	Nil	
3081	0.01	
3082	0.01	
3083	0.01	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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2W-0260-RA1

Assay Certificate

Date: MAR-17-92

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

We hereby certify the following Assay of 42 CORE samples submitted MAR-11-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
3084	0.02	
3085	Nil	
3086	0.01	
3087	0.01	
3088	0.01	
3089	0.01	
3090	0.01	0.01
3091	0.01	
3092	0.02	
3093	Nil	
3094	Nil	
3095	0.02	

Au was determined using 1 AT fusions

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2W-0288-RA1

Date: APR-07-92

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

We hereby certify the following Assay of 82 CORE samples submitted MAR-17-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne	Pb ppm	Zn ppm
3096	0.01			
3097	0.02			
3098	Nil			
3099	Nil			
3100	0.01	Nil		
3101	0.01			
3102	0.01			
3103	Nil			
3104	Nil			
3105	Nil			
3106	0.01			
3107	Nil			
3108	Nil			
3109	0.01			
3110	Nil	Nil		
3111	0.01			
3112	Nil			
3113	0.01			
3114	0.02			
3115	Nil			
3116	Nil			
3117	0.01			
3118	0.01			
3119	0.01			
3120	0.01		5	52
3121	0.01		3	50
3122	0.01		2	63
3123	0.01		3	66
3124	0.01		4	68
3125	0.01		2	51

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assay Certificate

2W-0288-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **APR-07-92**

We hereby certify the following Assay of 82 CORE samples submitted MAR-17-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne	Pb ppm	Zn ppm
3126	0.01		3	52
3127	0.01		8	49
3128	0.01		3	61
3129	0.01		4	66
3130	0.05	0.08	7	64
3131	0.01		2	45
3132	0.02		4	60
3133	0.01		1	67
3134	0.01		2	65
3135	0.03		4	50
3136	0.01		2	49
3137	Nil		3	58
3138	0.02		4	63
3139	0.19		5	68
3140	0.01			
3141	0.02			
3142	0.02			
3143	0.02			
3144	0.01			
3145	0.01	0.02		
3146	0.01			
3163	0.01			
3164	0.01			
3165	0.01			
3166	0.02			
3167	0.02			
3168	0.01			
3169	0.02			
3170	0.02			
3171	0.01			

Au was determined using 1 AT fusions

Certified by Wonna Gardner



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2W-0288-RA1

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **APR-07-92**

We hereby certify the following Assay of 82 CORE samples submitted MAR-17-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne	Pb ppm	Zn ppm
3172	0.01			
3173	0.01			
3174	0.01			
3175	0.01			
3176	0.01			
3177	0.01			
3178	0.01			
3179	0.01			
3180	0.03	0.01		
3181	0.01			
3182	0.01			
3183	0.01			
3184	0.01			
3185	0.01			

Au was determined using 1 AT fusions

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2W-0278-RA1

Company: **BATTLE MOUNTAIN (CANADA)**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **MAR-19-92**

We hereby certify the following Assay of 16 CORE samples submitted MAR-16-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
3147	0.02	
3148	0.01	
3149	0.01	
3150	0.03	0.04
3151	0.02	
3152	0.01	
3153	0.01	
3154	0.03	
3155	0.05	
3156	0.02	
3157	0.01	
3158	0.01	
3159	0.01	
3160	0.06	
3161	0.14	
3162	0.04	0.02

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Assay Certificate

2W-0614-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **JUN-24-92**
Copy 1. **BOX 635, KIRKLAND LAKE**
2. **FAX TO 567-6448**

We hereby certify the following Assay of 23 CORE samples submitted JUN-22-92 by .

Sample Number	Au g/tonne	Au check g/tonne
3186	0.01	
3187	0.01	
3188	0.02	0.02
3189	Nil	
3190	0.01	
3191	0.02	
3192	0.02	
3193	0.03	0.03
3194	0.02	
3195	0.02	
3196	0.01	
3197	0.01	
3198	0.01	
3199	0.01	
3200	0.01	
3201	0.02	
3202	0.01	
3203	0.01	
3204	0.01	
3205	0.01	Nil
3206	Nil	
3207	Nil	
3208	0.02	

Au was determined using 1 AT fusions

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2W-0616-RA1

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: JUN-24-92

We hereby certify the following Assay of 57 CORE samples submitted JUN-22-92 by B. MADILL.

Sample Number	Au g/tonne	Au check g/tonne	Au 2nd g/tonne
3209	0.03		
3210	0.01		
3211	0.01		
3212	0.02		
3213	0.02		
3214	0.01	0.01	
3215	0.01		
3216	0.01		
3217	0.02		
3218	0.02		
3219	0.01		
3220	0.02		
3221	0.01		
3222	0.01		
3223	0.01		
3224	Nil		
3225	0.01		
3226	0.01		
3227	0.02	0.02	
3228	0.01		
3229	0.01		
3230	0.01		
3231	Nil		
3232	0.01		
3233	0.01		
3234	0.01		
3235	Nil		
3236	0.01		
3237	0.01		
3238	0.01	0.01	

Au was determined using 1 AT fusions

Certified by Gonna Gardner



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2W-0616-RA1

Assay Certificate

Date: JUN-24-92

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

We hereby certify the following Assay of 57 CORE samples submitted JUN-22-92 by B. MADILL.

Sample Number	Au g/tonne	Au check g/tonne	Au 2nd g/tonne
3239	0.01		
3240	Nil		
3241	0.02		
3242	0.01		
3243	0.02		
3244	0.01		
3245	0.04		
3246	15.60	16.32	17.38
3247	0.07		
3248	0.01		
3249	0.02		
3250	0.01		
3251	0.02		
3252	0.03		
3253	0.03		
3254	0.02		
3255	0.02		
3256	0.02		
3257	Nil		
3258	0.05	0.05	
3259	0.03		
3260	0.03		
3261	0.03		
3262	0.02		
3263	0.02		
3264	0.05	0.05	
3265	0.03		

Au was determined using 1 AT fusions

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Assay Certificate

2W-0623-RA1

Company: **BATTLE MOUNTAIN**
Project: **75-JV-28**
Attn: **M.MASSON**

Date: JUN-24-92

Copy 1. BOX 635 KIRKLAND LAKE
2. FAX TO 567-6448

We hereby certify the following Assay of 35 CORE samples submitted JUN-23-92 by .

Sample Number	Au g/tonne	Au check g/tonne
3266	0.09	0.09
3267	0.04	
3268	0.02	
3269	0.02	
3270	0.03	
3271	0.01	
3272	0.01	
3273	0.01	
3274	0.02	
3275	0.04	
3276	0.08	
3277	0.01	
3278	0.20	
3279	0.02	
3280	0.03	
3281	0.06	
3282	0.06	0.05
3283	0.03	
3284	0.01	
3285	0.08	
3286	0.03	
3287	0.01	
3288	0.38	
3289	0.02	
3290	Nil	
3291	Nil	0.01
3292	0.02	
3293	Nil	
3294	0.01	
3295	0.01	

Certified by Donna Gardner

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244.

FAX (705) 642-3300



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Assay Certificate

Company: **BATTLE MOUNTAIN**
Project: **75-JV-28**
Attn: **M.MASSON**

Date: **JUN-24-92**

Copy 1. BOX 635 KIRKLAND LAKE
2. FAX TO 567-6448

We hereby certify the following Assay of 35 CORE samples submitted JUN-23-92 by .

Sample Number	Au g/tonne	Au check g/tonne
3296	0.01	
3297	0.02	
3298	0.05	
3299	0.02	
3300	0.01	

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2W-0637-RA1

Date: JUL-13-92

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

RECEIVED JUL 22 1992

We hereby certify the following Assay of 74 CORE samples submitted JUN-29-92 by .

Sample Number	Au g/tonne	Au check g/tonne	Au 2nds g/tonne
3301	Nil		
3302	Nil		
3303	Nil		
3304	1.17	1.20	1.11
3305	0.02		
3306	Nil		
3307	0.01		
3308	Nil		
3309	0.01		
3310	0.01		
3311	Nil		
3312	Nil		
3313	Nil		
3314	Nil		
3315	0.01		
3316	Nil		
3317	0.01		
3318	0.01		
3319	0.02	0.02	
3320	0.01		
3321	0.01		
3322	Nil		
3323	0.02		
3324	0.01		
3325	0.01		
3326	Nil		
3327	Nil		
3328	0.02		
3329	0.02		
3330	0.02		

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assay Certificate

2W-0637-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: JUL-13-92

We hereby certify the following Assay of 74 CORE samples submitted JUN-29-92 by .

RECEIVED JUL 22 1992

Sample Number	Au g/tonne	Au check g/tonne	Au 2nds g/tonne
3331	0.04	0.03	
3332	0.02		
3333	0.02		
3334	0.03		
3335	0.01		
3336	0.02		
3337	0.01		
3338	Nil		
3339	0.01		
3340	0.01		0.01
3341	0.03	0.03	0.02
3342	0.02		0.01
3343	0.03		0.03
3344	0.01		0.01
3345	0.02		0.01
3346	0.18		0.10
3347	0.08		0.16
3348	0.31		0.24
3349	0.20		0.21
3350	0.37		0.21
3351	0.35		0.31
3352	0.03		0.02
3353	Nil		0.01
3354	0.02		0.02
3355	0.24		0.21
3356	0.01		0.01
3357	0.01		
3358	0.03		
3359	0.02	0.03	
3360	0.02		

Au was determined using 1 AT fusions

Certified by Donna Gardner

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2W-0637-RA1

Assay Certificate

Date: JUL-13-92

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

We hereby certify the following Assay of 74 CORE samples submitted JUN-29-92 by .

RECEIVED JUL 22 1992

Sample Number	Au g/tonne	Au check g/tonne	Au 2nds g/tonne
3361	0.01		
3362	0.01		
3363	0.01		
3364	0.01		
3365	0.01		
3366	0.04		
3367	0.03	0.03	
3368	0.04		
3369	0.02		
3370	0.03		
3371	0.02		
3372	0.02		0.01
3373	0.20		0.09
3374	0.23		0.35

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assay Certificate

2W-0639-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Site: **WAYNE BENHAM**

Date: JUL-03-92

RECEIVED JUL 13 1992

We hereby certify the following Assay of 30 CORE samples submitted JUN-29-92 by .

Sample Number	Au g/tonne	Au check g/tonne
3375	0.03	
3376	0.01	
3377	0.01	
3378	0.01	
3379	0.02	
3380	0.02	0.03
3381	0.02	
3382	0.03	
3383	Nil	
3384	0.01	
3385	0.01	
3386	Nil	
3387	0.01	
3388	0.01	
3389	0.02	0.02
3390	0.01	
3391	0.01	
3392	0.01	
3393	0.01	
3394	0.01	
3395	0.01	
3396	0.01	
3397	0.02	
3398	0.01	
3399	0.02	
3400	0.01	
3401	0.01	
3402	0.02	0.02
3403	0.01	
3404	0.02	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assay Certificate

2W-0641-RA1

Company: **BATTLE MOUNTAIN**
Project: **75-JV-28**
Atta: **WAYNE BENHAM**

Date: **JUL-03-92**

Copy 1. **BOX 635 KIRKLAND LAKE**
2. **FAX TO 567-6448**

We hereby certify the following Assay of 30 CORE samples submitted JUN-30-92 by MARK MASSON.

RECEIVED JUL 13 1992

Sample Number	Au g/tonne	Au check g/tonne
3405	0.01	
3406	0.02	
3407	0.01	Nil
3408	0.01	
3409	0.01	
3410	0.01	
3411	Nil	
3412	0.01	
3413	0.01	
3414	0.01	
3415	0.02	
3416	Nil	
3417	0.01	
3418	Nil	
3419	Nil	
3420	0.02	0.02
3421	0.01	
3422	0.02	
3423	0.01	
3424	0.02	
3425	0.01	
3426	0.01	
3427	0.01	
3428	0.01	
3429	Nil	
3430	Nil	
3431	Nil	
3432	Nil	
3433	0.01	
3434	0.01	

Certified by Donna Gardner



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Assay Certificate

2W-0647-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: JUL-08-92

We hereby certify the following Assay of 12 CORE samples submitted JUL-02-92 by MARK MASSON.

RECEIVED JUL 13 1992

Sample Number	Au g/tonne	Au check g/tonne
3435	0.01	
3436	0.01	
3437	0.01	
3438	0.01	
3439	0.01	
3440	0.03	
3441	0.02	0.02
3442	0.02	
3443	0.04	
3444	0.02	
3445	0.01	
3446	Nil	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assay Certificate

2W-0650-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: JUL-08-92

We hereby certify the following Assay of 9 CORE samples submitted JUL-03-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
3447	0.02	0.02
3448	0.01	
3449	0.02	
3450	0.01	
3451	0.01	
3452	Nil	
3453	0.01	
3454	0.01	
3455	0.01	

Au was determined using 1 AT fusions

Certified by Gonna Gardner



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2W-0669-RA1

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75JV28**
Attn: **WAYNE BENHAM**

Date: JUL-09-92

We hereby certify the following Assay of 70 CORE samples submitted JUL-06-92 by .

RECEIVED JUL 22 1992

Sample Number	Au g/tonne	Au check g/tonne
3456	0.01	
3457	0.02	
3458	0.02	
3459	0.01	
3460	0.01	0.02
3461	0.01	
3462	0.01	
3463	Nil	
3464	Nil	
3465	Nil	
3466	Nil	
3467	0.01	
3468	0.02	
3469	0.01	
3470	0.04	
3471	0.03	0.03
3472	0.02	
3473	0.01	
3474	0.03	
3475	0.06	
3476	0.02	
3477	0.02	
3478	0.02	
3479	0.02	
3480	0.02	
3481	0.03	
3482	0.02	
3483	0.02	
3484	0.02	
3485	0.01	0.01

Au was determined using 1 AT fusions

Certified by Donna Gardner

P.O. Box 10, Swastika, Ontario P0K 1T0

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Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75JV28**
Attn: **WAYNE BENHAM**

Date: JUL-09-92

We hereby certify the following Assay of 70 CORE samples submitted JUL-06-92 by .

RECEIVED JUL 22 1992

Sample Number	Au g/tonne	Au check g/tonne
3486	0.02	
3487	0.03	
3488	0.02	
3489	0.01	
3490	0.02	
3491	0.02	
3492	0.01	
3493	0.02	
3494	0.03	
3495	0.01	0.01
3496	0.02	
3497	Nil	
3498	0.02	
3499	0.01	
3500	0.01	
3501	0.01	
3502	0.01	
3503	0.05	
3504	0.01	
3505	0.01	
3506	0.01	
3507	Nil	
3508	Nil	
3509	0.02	0.01
3510	Nil	
3511	0.01	
3512	0.01	
3513	0.02	
3514	0.01	
3515	0.03	

Au was determined using 1 AT fusions

Certified by Donna Hardier

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2W-0669-RA1

Assay Certificate

Date: JUL-09-92

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75JV28**
Attn: **WAYNE BENHAM**

We hereby certify the following Assay of 70 CORE samples submitted JUL-06-92 by .

RECEIVED JUL 2 1992

Sample Number	Au g/tonne	Au check g/tonne
3516	0.02	
3517	0.01	
3518	Nil	
3519	Nil	
3520	0.01	
3521	0.01	
3522	0.01	
3523	0.01	0.01
3524	0.01	
3525	0.01	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assay Certificate

2W-0670-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: JUL-13-92

We hereby certify the following Assay of 30 CORE samples submitted JUL-06-92 by MARK MASSON.

RECEIVED JUL 22 1992

Sample Number	Au g/tonne	Au check g/tonne
3526	0.07	0.09
3527	0.02	
3528	0.02	
3529	0.01	
3530	0.15	
3531	0.26	
3532	0.03	
3533	0.03	
3534	0.02	
3535	0.02	
3536	0.02	
3537	0.02	
3538	0.04	0.04
3539	0.06	
3540	0.05	
3541	0.05	
3542	0.15	
3543	0.01	
3544	0.02	
3545	0.02	
3546	0.76	
3547	0.69	
3548	0.86	
3549	0.96	1.03
3550	0.93	
3551	0.11	
3552	0.02	
3553	0.01	
3554	0.28	
3555	0.05	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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2W-0679-RA1

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Area: **WAYNE BENHAM**

Date: JUL-14-92

RECEIVED JUL 22 1992

We hereby certify the following Assay of 53 CORE samples submitted JUL-07-92 by MARK MASSON.

Sample Number	Au g/t	Au check g/tonne	Au 2nd g/tonne
3556	0.02		
3557	0.01		
3558	0.05		
3559	0.02		
3560	0.01		
3561	0.02		
3562	0.01		
3563	0.07		
3564	0.03		
3565	0.02		
3566	0.04		
3567	2.31	2.40	2.26
3568	0.07		
3569	0.06		
3570	0.01		
3571	0.03		
3572	0.04		
3573	0.03		
3574	0.01		
3575	0.01		
3576	0.01		
3577	Nil		
3578	0.01		
3579	0.01		
3580	Nil		
3581	0.01		
3582	0.01		
3583	0.02		
3584	0.02		
3585	0.01	0.01	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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2W-0679-RA1

Assay Certificate

Date: JUL-14-92

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

We hereby certify the following Assay of 53 CORE samples submitted JUL-07-92 by MARK MASSON.

RECEIVED JUL 22 1992

Sample Number	Au g/t	Au check g/tonne	Au 2nd g/tonne
3586	0.05		
3587	0.13		
3588	0.02		
3589	0.11		
3590	0.43	0.38	
3591	0.15		
3592	0.09		
3593	0.03		
3594	Nil		
3595	0.03		
3596	0.01		
3597	Nil		
3598	0.01		
3599	Nil		
3600	0.04		
3601	0.01		
3602	0.01		
3603	0.01		
3604	Nil		
3605	0.01		
3606	0.12	0.09	
3607	Nil		
3608	Nil		

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assay Certificate

2W-0683-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Atta: **WAYNE BENHAM**

Date: JUL-14-92

We hereby certify the following Assay of 21 CORE samples submitted JUL-08-92 by MARK MASSON.

RECEIVED JUL 22 1992

Sample Number	Au g/tonne	Au check g/tonne
3609	Nil	Nil
3610	0.01	
3611	0.01	
3612	Nil	
3613	Nil	
3614	0.01	
3615	Nil	
3616	Nil	
3617	Nil	
3618	0.01	
3619	0.01	
3620	0.01	Nil
3621	0.01	
3622	0.01	
3623	0.01	
3624	Nil	
3625	0.01	
3626	Nil	
3627	Nil	0.01
3628	0.01	
3629	Nil	

Au was determined using 1 AT fusions

Certified by Donna Gardner

RECEIVED AUG - 4 1992



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Assay Certificate

2W-0759-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
 Project: **75-JV-28**
 Attn: **WAYNE BENHAM**

Date: JUL-29-92

We hereby certify the following Assay of 26 CORE samples
 submitted JUL-24-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
3630	0.01	
3631	0.01	0.01
3632	Nil	
3633	Nil	
3634	0.01	
3635	Nil	
3636	Nil	
3637	0.01	
3638	0.01	
3639	Nil	
3640	0.01	
3641	0.01	
3642	0.01	
3643	0.01	
3644	Nil	
3645	0.01	
3646	Nil	
3647	0.01	0.01
3648	0.01	
3649	0.01	
3650	0.01	
3651	0.01	
3652	0.01	0.01
3653	0.05	
3654	0.01	
3655	0.01	
3656	0.01	

Au was determined using 1 AT fusions

Certified by Sonja Gardner



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2W-0768-RA1

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **JUL-31-92**
Copy 1. **BOX 635 KIRKLAND LAKE, P2N 3K1**
2. **FAX # 567-6448**

We hereby certify the following Assay of 44 CORE samples submitted JUL-27-92 by MARK MASSON.

Sample Number	Au g/tonne	Au Check g/tonne
3657	0.04	
3658	0.01	
3659	0.04	
3660	NIL	
3661	0.02	
3662	0.01	0.01
3663	0.04	
3664	0.01	
3665	0.02	
3666	0.01	
3667	0.01	
3668	NIL	
3669	0.03	
3670	NIL	
3671	0.01	
3672	NIL	NIL
3673	0.02	
3674	0.01	
3675	NIL	
3676	0.01	
3677	NIL	
3678	0.01	
3679	0.02	
3680	0.01	
3681	0.01	
3682	NIL	
3683	NIL	
3684	0.01	
3685	NIL	
3686	NIL	

Au was determined using 1 AT fusions

Certified by *Gonna Gardner*



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Assay Certificate

2W-0768-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **JUL-31-92**
Copy 1. **BOX 635 KIRKLAND LAKE, P2N 3K1**
2. **FAX # 567-6448**

We hereby certify the following Assay of 44 CORE samples submitted JUL-27-92 by MARK MASSON.

Sample Number	Au g/tonne	Au Check g/tonne
3687	0.01	
3688	NIL	
3689	0.02	
3690	0.04	
3691	NIL	
3692	0.01	
3693	0.05	0.03
3694	0.06	
3695	0.03	
3696	0.05	
3697	NIL	
3698	NIL	
3699	0.01	
3700	0.01	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assay Certificate

2W-0787-RA1

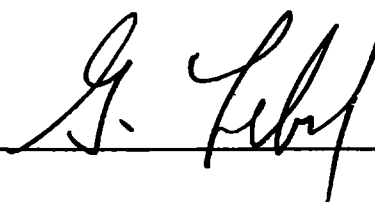
Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **AUG-05-92**
Copy 1. **BOX 635 KIRKLAND LAKE, ONT. P2N 3K1**
2. **FAX # 567-6448**

We hereby certify the following Assay of 28 CORE samples submitted JUL-30-92 by MARK MASSON.

Sample Number	Au g/tonne	Au Check g/tonne
3701	0.01	
3702	0.01	
3703	0.01	
3704	0.01	
3705	0.01	0.01
3706	0.01	
3707	Nil	
3708	0.01	
3709	0.01	
3710	0.01	
3711	0.01	
3712	0.01	0.01
3713	0.01	
3714	Nil	
3715	0.01	
3716	0.01	
3717	0.01	
3718	0.01	0.01
3719	0.01	
3720	Nil	
3721	Nil	
3722	Nil	
3723	Nil	
3724	0.01	
3725	0.01	
3726	Nil	
3727	0.01	
3728	0.01	0.01

Au was determined using 1 AT fusions

Certified by 



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2W-0805-RA1

Assay Certificate

Company: **BATTLE MOUNTAIN**
 Project: **75JV28**
 Ann:

Date: AUG-12-92

We hereby certify the following Assay of 69 CORE samples
 submitted AUG-04-92 by .

Sample Number	Au g/tonne	Au check g/tonne
3729	0.01	
3730	0.01	
3731	Nil	
3732	0.01	
3733	Nil	
3734	0.02	
3735	0.03	0.03
3736	0.03	
3737	0.01	
3738	0.03	
3739	0.04	
3740	0.02	
3741	0.02	
3742	0.02	
3743	Nil	
3744	0.02	
3745	0.06	
3746	0.03	
3747	0.05	
3748	0.07	
3749	0.22	0.22
3750	0.03	
3751	0.02	
3752	0.02	
3753	0.02	
3754	0.50	0.46
3755	0.02	
3756	0.04	
3757	0.02	
3758	0.02	

Certified by Donna Gardner



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2W-0805-RA1

Assay Certificate

Company: **BATTLE MOUNTAIN**
 Project: **75JV28**
 Attn:

Date: AUG-12-92

We hereby certify the following Assay of 69 CORE samples
 submitted AUG-04-92 by .

Sample Number	Au g/tonne	Au check g/tonne
3759	0.02	
3760	0.05	
3761	0.02	
3762	0.02	
3763	0.01	
3764	0.02	
3765	0.02	0.01
3766	Nil	
3767	0.01	
3768	0.01	
3769	Nil	
3770	Nil	
3771	0.01	
3772	Nil	
3773	0.02	
3774	0.01	
3775	Nil	
3776	0.01	0.01
3777	Nil	
3778	Nil	
3779	Nil	
3780	0.01	
3781	Nil	
3782	Nil	
3783	0.01	
3784	0.01	
3785	0.01	
3786	Nil	
3787	Nil	
3788	0.01	0.01

Certified by Donna Gardner



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2W-0805-RA1

Date: AUG-12-92

Assay Certificate

Company: **BATTLE MOUNTAIN**
Project: **75JV28**
Attn:

We hereby certify the following Assay of 69 CORE samples submitted AUG-04-92 by .

Sample Number	Au g/tonne	Au check g/tonne
3789	0.01	
3790	0.02	
3791	0.02	
3792	Nil	
3793	0.02	
3794	0.03	
3795	0.01	
3796	0.01	
3797	0.01	

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 1 of 2

2W-0818-RA1

Assay Certificate

Date: AUG-12-92

Company: **BATTLE MOUNTAIN**
 Project: **75-JV-28**
 Attn: **WAYNE BENHAM**

Copy 1. BOX 635 KIRKLAND LAKE, ONT. P2N 3K1
 2. FAX # 567-6448

We hereby certify the following Assay of 48 CORE samples
 submitted AUG-05-92 by .

Sample Number	Au g/tonne	Au check g/tonne
3798	Nil	Nil
3799	0.03	
3800	Nil	
3801	Nil	
3802	Nil	
3803	Nil	
3804	Nil	
3805	Nil	
3806	Nil	
3807	0.01	
3808	0.01	
3809	0.01	
3810	0.01	
3811	0.01	
3812	0.01	
3813	0.01	0.01
3814	0.01	
3815	Nil	
3816	Nil	
3817	Nil	
3818	0.01	
3819	Nil	
3820	0.03	
3821	0.01	
3822	0.02	
3823	0.02	
3824	0.01	
3825	0.01	
3826	Nil	
3827	Nil	

Certified by Donna Gardner



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Assaying - Consulting - Representation

RECEIVED AUG 17 1992

Page 2 of 2

Assay Certificate

2W-0818-RA1

Company: **BATTLE MOUNTAIN**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **AUG-12-92**

Copy 1. BOX 635 KIRKLAND LAKE, ONT. P2N 3K1
2. FAX # 567-6448

We hereby certify the following Assay of 48 CORE samples submitted AUG-05-92 by .

Sample Number	Au g/tonne	Au check g/tonne
3828	Nil	
3829	Nil	
3830	0.01	
3831	0.01	
3832	0.02	
3833	0.02	
3834	0.03	
3835	0.01	0.01
3836	0.02	
3837	0.01	
3838	0.01	
3839	0.01	
3840	0.02	
3841	0.02	
3842	0.02	
3843	0.02	
3844	0.02	
3845	0.02	0.02

Certified by Donna Gardner



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Assaying - Consulting - Representation

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Page 1 of 3

Assay Certificate

2W-0858-RA1

Date: AUG-26-92

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

We hereby certify the following Assay of 79 CORE samples submitted AUG-12-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne	Au 2nd g/tonne	Ag PPM	Cu PPM	Mb PPM	Pb PPM	Zn PPM	Te PPM	ICAP Multi
3846	Nil									
3847	Nil									
3848	0.44			0.3	178	7	16	159	1	
3849	5.01	5.21		5.1	647	10	1.17%	134	1	
3850	0.02									
3851	0.01									
3852	Nil									
3853	Nil									
3854	Nil									
3855	Nil									
3856	Nil									
3857	0.01									
3858	Nil									
3859	Nil									
3860	13.37	15.50	14.67	5.8	389	13	9260	892	1	
3861	0.41			0.3	96	3	80	111	1	
3862	0.11			0.1	67	2	21	135	1	
3863	0.13			0.1	57	2	35	121	1	
3864	1.61			1.3	179	5	2100	86	1	
3865	0.02			0.1	50	2	19	116	1	
3866	Nil			0.1	41	2	10	108	1	
3867	0.12			0.2	143	4	264	115	1	
3868	2.62	2.61		0.9	54	4	25	176	1	
3869	1.20			0.4	85	3	47	165	1	
3870	1.48			0.7	91	6	32	63	1	
3871	46.29	46.42	46.99	36.2	2840	13	1.07%	67	17	
3872	21.05			75.3	5110	10	9.50%	119	54	
3873	19.95			89.0	6220	12	8.46%	113	73	
3874	5.45			4.6	175	14	624	2	2	
3875	0.89			1.4	307	4	454	38	1	

Au was determined using 1 AT fusions

Certified by Donna Gardner

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244

FAX (705) 642-3300



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Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 2 of 3

2W-0858-RA1

Assay Certificate

Date: AUG-26-92

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

We hereby certify the following Assay of 79 CORE samples submitted AUG-12-92 by MARK MASSON.

Sample Number	Au Au check g/tonne	Au 2nd g/tonne	Ag PEM	Cu PEM	Mb PEM	Pb PEM	Zn PEM	Te PEM	ICAP Multi
3876	0.72		1.2	190	5	652	40	1	
3877	0.38		0.6	85	5	266	36	1	
3878	3.22		2.1	171	5	144	29	2	
3879	1.12		0.5	221	2	72	41	1	
3880	6.00	5.90	5.78	3.1	425	3	66	33	1
3881	3.29		1.7	98	5	59	34	1	
3882	1.82	1.65	0.9	45	11	35	34	1	
3883	2.06		1.1	32	15	34	41	1	
3884	0.51		0.3	80	5	17	65	1	
3885	0.54		0.2	41	3	20	81	1	
3886	0.24		0.2	25	4	12	98	1	
3887	0.14		0.1	45	3	8	87	1	
3888	0.02								
3889	0.04								
3890	0.02								
3891	0.02								
3892	Nil								
3893	0.03								
3894	0.04	0.03							
3895	Nil								
3896	0.04								
3897	0.01								
3898	0.01								
3899	0.04								
3900	0.01	0.01							
3901	0.01								
3902	Nil								
3903	Nil								
3904	0.02								
3905	Nil								

Au was determined using 1 AT fusions

Certified by Sonna Gardner



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Assaying - Consulting - Representation

Page 3 of 3

2W-0858-RA1

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **AUG-26-92**

We hereby certify the following Assay of 79 CORE samples submitted AUG-12-92 by MARK MASSON.

Sample Number	An g/tonne	An check g/tonne	An 2nd g/tonne	Ag PPM	Cu PPM	Mb PPM	Pb PPM	Zn PPM	Te PPM	ICAP Multi
3906	Nil									
3907	Nil									
3908	Nil									
3909	Nil									
3910	0.02									
3911	0.03									
3912	0.01									
3913	0.04									
3914	0.02									
3915	0.02									
3916	0.03	0.03								
3917	Nil									
3918	Nil									
3919	Nil									
3920	Nil									
3921	Nil									
3922	Nil									
3923	0.01									
3924	0.03	0.04								

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assaying - Consulting - Representation

Assay Certificate

2W-0859-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **AUG-20-92**

We hereby certify the following Assay of 16 CORE samples submitted AUG-13-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
3925	0.01	
3926	Nil	
3927	0.17	
3928	0.02	
3929	0.09	0.08
3930	Nil	
3931	0.02	
3932	Nil	
3933	0.01	
3934	0.01	
3935	0.02	
3936	0.08	
3937	0.02	0.01
3938	0.01	
3939	0.02	
3940	Nil	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assaying - Consulting - Representation

Assay Certificate

2W-0868-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **AUG-20-92**

We hereby certify the following Assay of 12 CORE samples submitted AUG-14-92 by MARK MASSON.

Sample Number	Au g/tonne	Au check g/tonne
3941	Nil	
3942	Nil	
3943	Nil	
3944	Nil	
3945	Nil	
3946	Nil	
3947	0.01	0.01
3948	Nil	
3949	Nil	
3950	0.01	
3951	Nil	
3952	Nil	

Au was determined using 1 AT fusions

Certified by Lonna Gardner



Established 1928

Swastika Laboratories

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Assaying - Consulting - Representation

Assay Certificate

2W-0897-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **AUG-26-92**

We hereby certify the following Assay of 31 CORE samples submitted AUG-17-92 by MARK MASSON.

Sample Number	As g/tonne	As check g/tonne	As 2nd g/tonne	Ag PPM	Cu PPM	Mb PPM	Pb PPM	Zn PPM	Te PPM	ICAP Multi
3953	0.40	0.44								
3954	0.98	0.97	0.94							
3955	0.11									
3956	0.01									
3957	0.01									
3958	Nil									
3959	Nil									
3960	Nil									
3961	Nil									
3962	Nil									
3963	0.01									
3964	0.03	0.03								
3965	0.01									
3966	0.02									
3967	0.01									
3968	Nil									
3969	Nil									
3970	Nil									
3971	Nil									
3972	Nil									
3973	0.02									
3974	Nil	Nil								
3975	0.01									
3976	0.01									
3977	0.01									
3978	0.01			0.1	205	3	4	76	1	
3979	Nil			0.1	184	4	5	81	1	
3980	Nil			0.1	109	4	5	47	1	
3981	Nil			0.9	507	2	5320	20	1	
3982	Nil			0.5	107	3	29	88	1	
3983	0.01									

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

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Assaying - Consulting - Representation

2W-0307-PG1

Date: MAR-24-92

RECEIVED MAR 30 1992

Geochemical Analysis Certificate

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

We hereby certify the following Geochemical Analysis of 5 PULP samples submitted MMM-DD-YY by .

Sample Number	Pb PPM	Zn PPM	ICP MULTI	Te PPM
2222	704	368		1
2255	3200	506		6
2258	9150	30200		1
2386	134	111		1
3156	22	57		1

Certified by Donna Gardner

BATTLE MOUNTAIN CAN. INC.

ATTN: W. BENHAM
24-0307-p01

PROJ:75-JV-28

SWASTIKA LABORATORIES

P.O. BOX 10, SWASTIKA ONTARIO
PHONE #: 705-642-3244 FAX #: 705-642-3300

I.C.A.P. PLASMA SCAN

Multi Acid Digestion

REPORT No. : T1309
Page No. : 1 of 1
File No. : MR27MA
Date : MAR-27-1992

SAMPLE #	Al %	Be PPM	Bi PPM	Cd PPM	Cr PPM	Fe %	Mn PPM	Na %	P PPM	Sb PPM	Sn PPM	Ti PPM	V PPM	Zn PPM
2222	4.0	390	40	2	1300	3.0	710	0.04	280	30	< 10	430	< 10	360
2255	5.2	77	15	2	710	3.1	620	0.06	510	30	< 10	490	< 10	480
2258	5.0	260	28	110	700	4.5	1400	0.07	580	70	< 10	610	< 10	9999
2386	6.0	620	38	2	920	4.5	1100	0.44	740	30	< 10	1900	< 10	140
3156	6.7	310	25	< 1	890	4.1	930	0.50	1500	25	< 10	1800	< 10	82

A .5 gm sample is digested with 10ml of 3:1 HNO3/HF and further digested with HCL and taken to dryness. This method is used to break down silicate materials.

SIGNED : 

BATTLE MOUNTAIN

24-0858-RA1
 ATTN: V. BENHAM
 PROJ.: 75-JV-28

Laboratoires TSL/ASSAYERS Laboratories

780 AV. DU CUVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
 PHONE #: 819-797-4653 FAX #: 819-797-4501

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

REPORT No. : **T1907**

Page No. : 1 of 1

File No. : AF28MB

Date : SEP-01-1992

SAMPLE #	Fe %	Mg %	Ti ppm	P ppm	Cr ppm	Cu ppm	Pb ppm	V ppm	Co ppm	Ag ppm	Be ppm	Sb ppm	Sc ppm	As ppm	Sn ppm
3849	3.5	0.85	27	940	300	740	9999	16	39	5	< 1	15	3	60	< 10
3860	3.8	0.87	14	870	230	430	9700	18	39	6	< 1	15	5	65	< 10
3871	4.0	0.48	7	1100	640	2600	9999	13	44	30	< 1	90	2	510	< 10
3872	5.0	0.34	8	360	1200	5300	9999	17	22	69	< 1	40	< 1	290	10
3873	6.4	0.47	7	320	740	7000	9999	11	39	79	< 1	35	1	400	20
3874	4.1	0.47	8	1100	290	230	900	12	33	6	< 1	5	2	140	20
3880	3.0	0.80	9	1300	250	480	100	9	25	3	< 1	5	3	35	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3 at 95 C for 90 min and diluted to 10 ml with DI H2O. This method is partial for many oxide materials.

SIGNED : *[Signature]*

BATTLE MOUNTAIN

ATTN: W. BENHAM
PROJ. 175-JV-28

Laboratoires TSL/ASSAYERS Laboratories

780 AV. DU CUIVRE C.P. 665 MOUTH-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

REPORT No. : T1906

Page No. : 1 of 1

File No. : A728M3

Date : SEP-01-1992

SAMPLE #	Fe	Mg	Tl	P	Cr	Cu	Pb	V	Co	Ag	Be	Sb	Sc	As	Sn
3981	0.59	0.21	6	180	200	530	5800	8	10	< 1	< 1	< 5	< 1	< 5	< 10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3 at 95 C for 90 min and diluted to 10 ml with DI H2O. This method is partial for many oxide materials.

SIGNED : *[Signature]*

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Kirkland Lake Project

Amalgamated Kirkland Drilling, 1992

APPENDIX III

CERTIFICATE OF QUALIFICATIONS

Battle Mountain (Canada) Inc.

November, 1992

CERTIFICATE OF QUALIFICATIONS

I, Wayne Benham of 921 Willowdale Ave. in the City of North York in the Province of Ontario.

DO HEREBY CERTIFY:

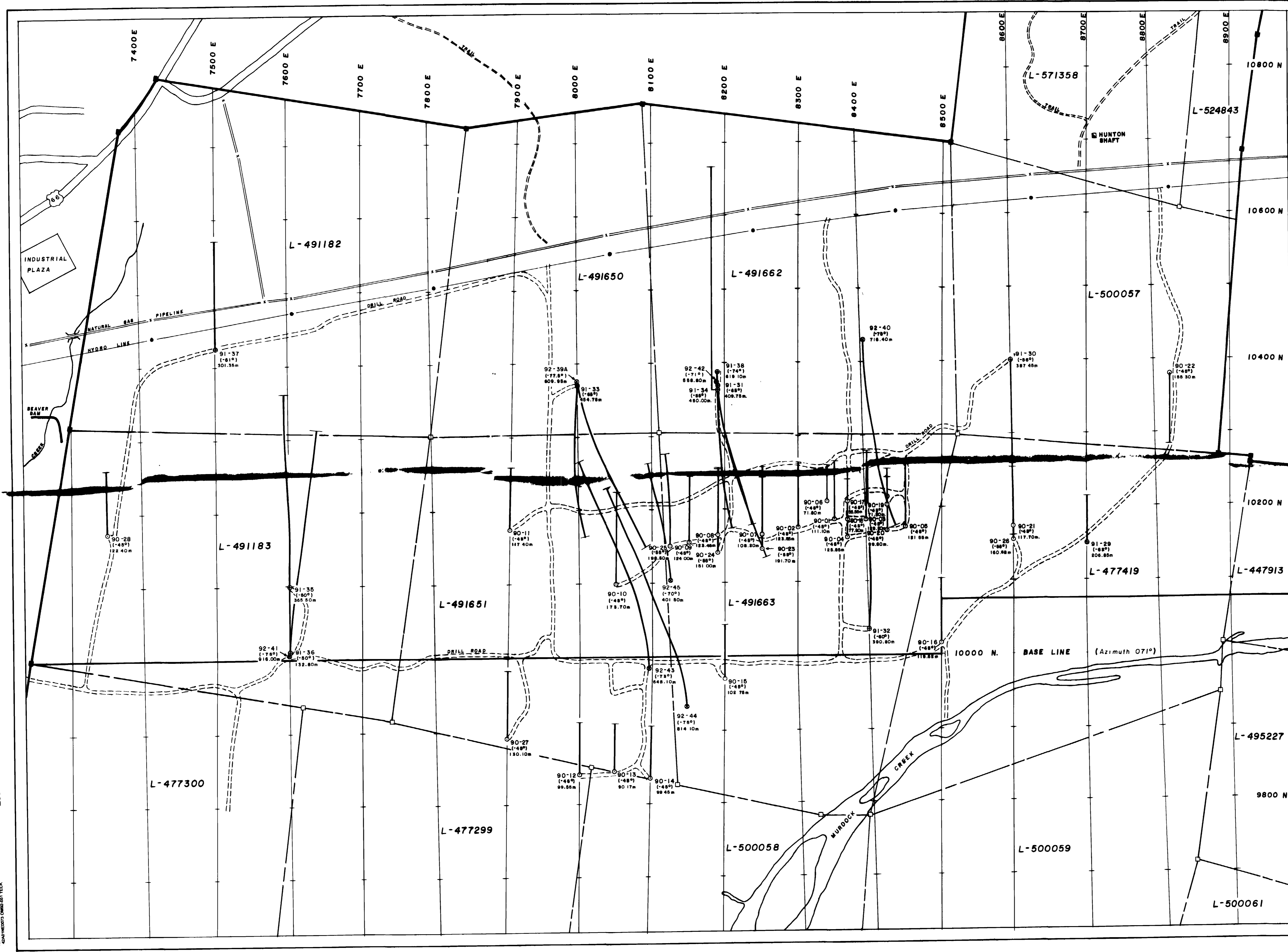
- 1. That I am a graduate of Queen's University, Kingston, Ontario with a Bachelor of Science (B.Sc.), Geological Science, 1970.**
- 2. That I have been practising my profession as an exploration geologist since 1970.**
- 3. That I have personally supervised the work described in this report.**

Signed:



**Wayne Benham
Toronto, Ontario**

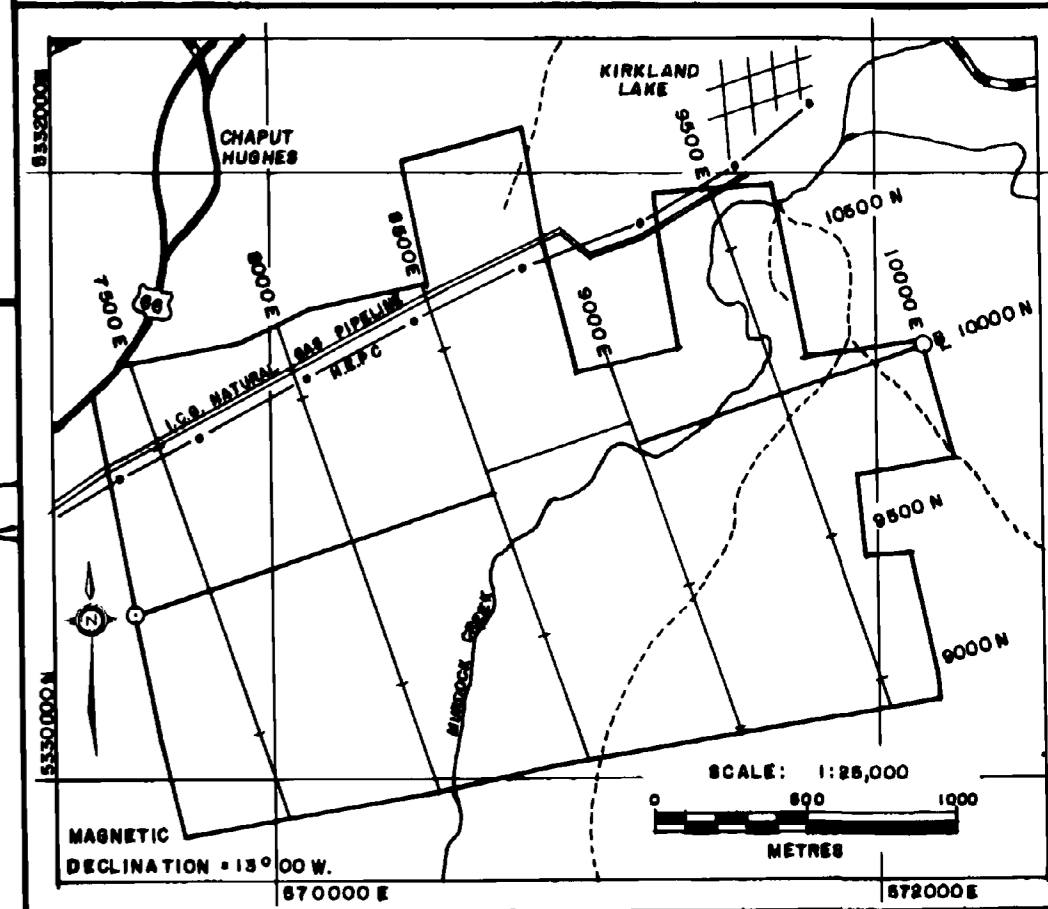
Dated this November 23, 1992



LEGEND

- 1990 DRILL PROGRAM
- ⊕ 1991 DRILL PROGRAM
- ⊙ 1992 DRILL PROGRAM

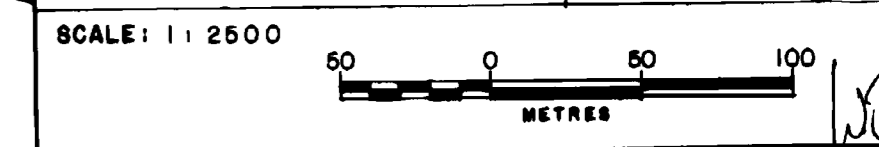
⊙ 92-41 (Hole No)
(-75°) (Dip of Hole)
916.00m. (Length of Hole)

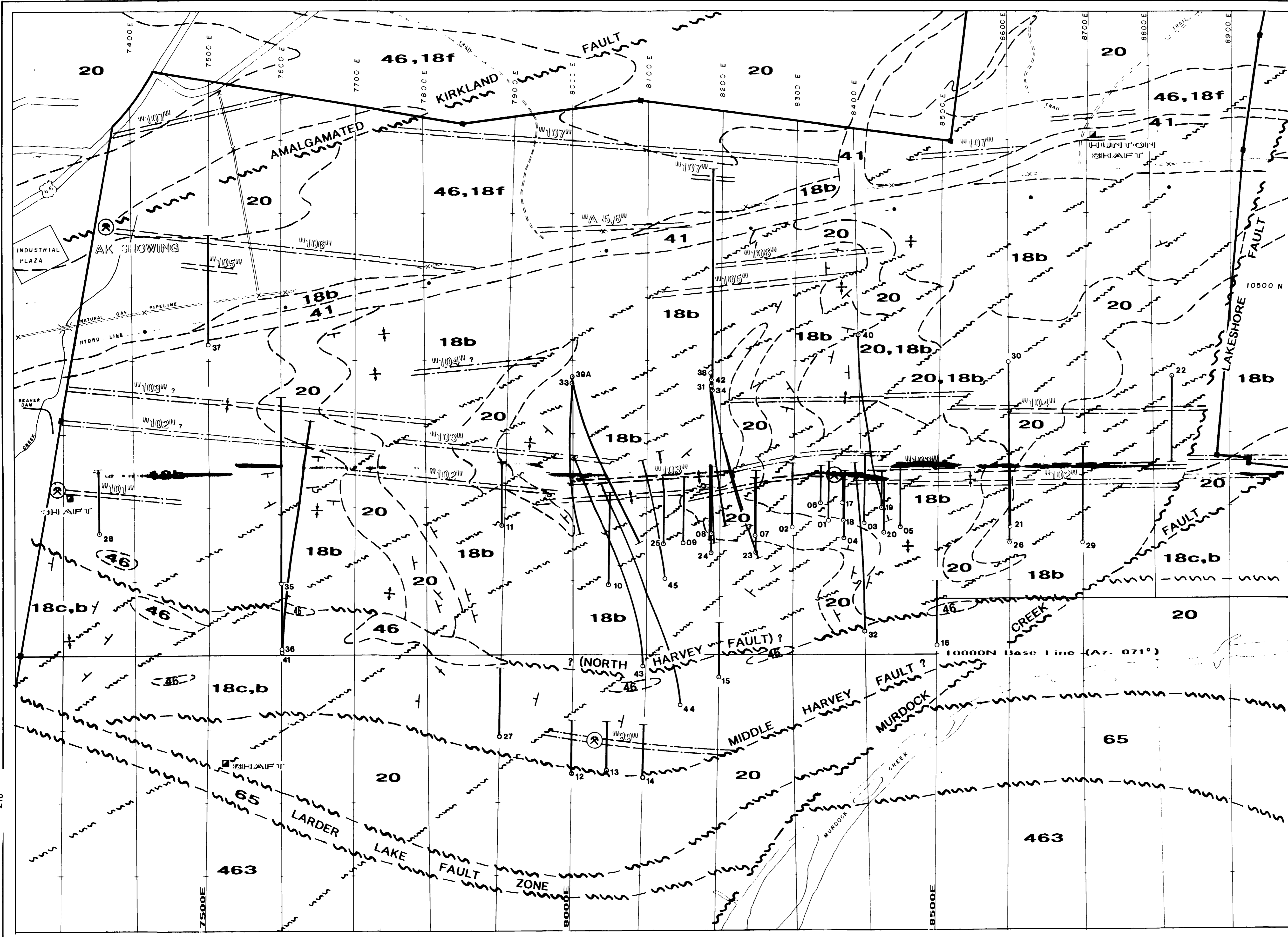


BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc
ONTARIO
AMALGAMATED KIRKLAND PROPERTY
1990/91/92 D.D.H. PLAN
(WITH CLAIMS)

PROJECT No: 78-JV-88	DATA BY: W. Benham / M. Mason
NTS: 42A / 1	DRAWN BY: B. H. Madill
DRAWING No: DP-003	DATE: Revised Sept., 1992





LEGEND

- 41 Diabase
- 65 Larder Lake Fault Zone
- 46 Syenite
- 463 Murdock Creek Syenite Stock

TIMISKAMING GROUP

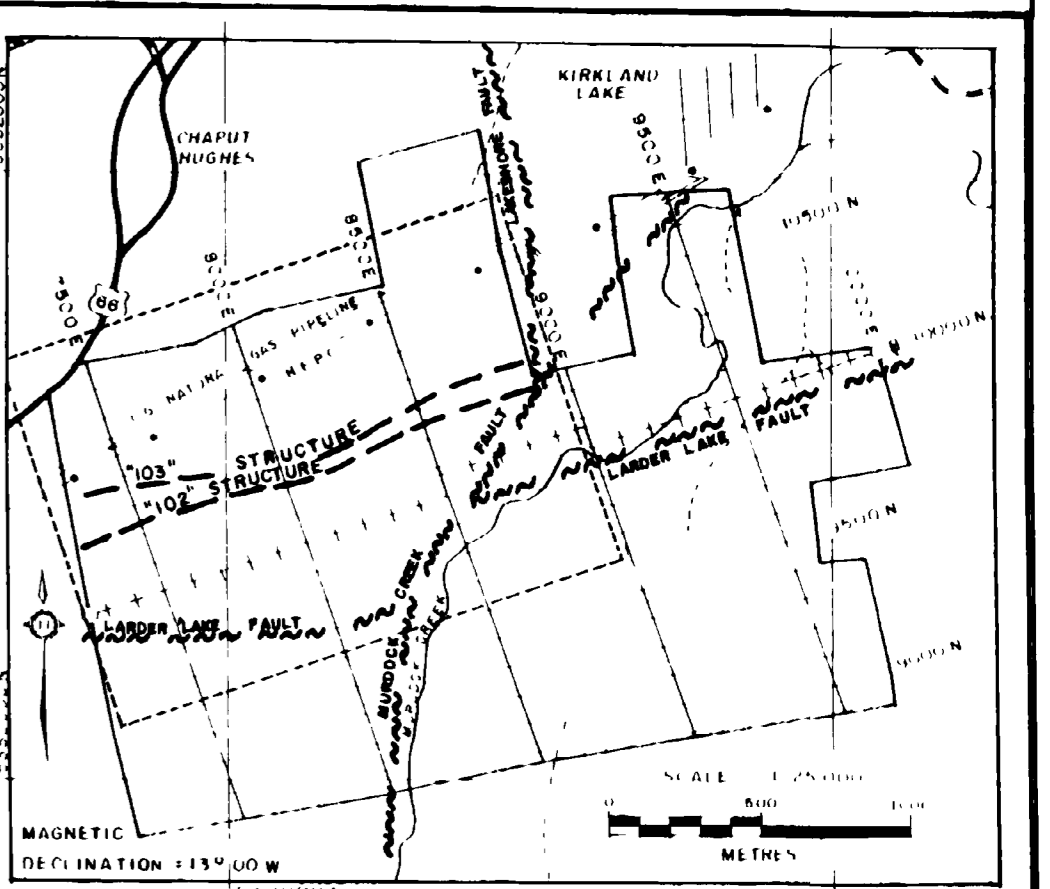
Sediments

- 20 Conglomerate, Graywacke, Mudstone & Siltstone

Volcanics

- 18b Lapilli/Ash Tuffs
- 18c Block/Lapilli Tuffs
- 18f Trachytic Flows

- "GOLD ZONE"
- "GOLD ZONE"
- Inferred Structure, Magnetic Low
- * Gold Showing
- 31 D.D.H. Collar



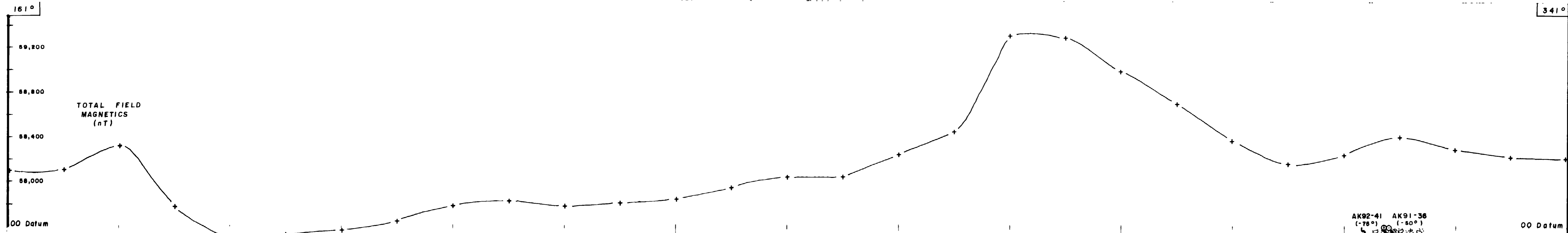
BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
 Queenston Mining Inc.
AMALGAMATED KIRKLAND PROPERTY
DRILL PLAN and SIMPLIFIED GEOLOGY

PROJECT No.: 78-JV-28	DATA BY: W. Benham / M. Masson
NTS: 42A/1	DRAWN BY: B.H. Madill, Tech.
DRAWING No: GL-030	DATE: Revised October, 1992

SCALE: 1:2500

210
 QUANTIFIERS CONSULTING LTD.



LEGEND

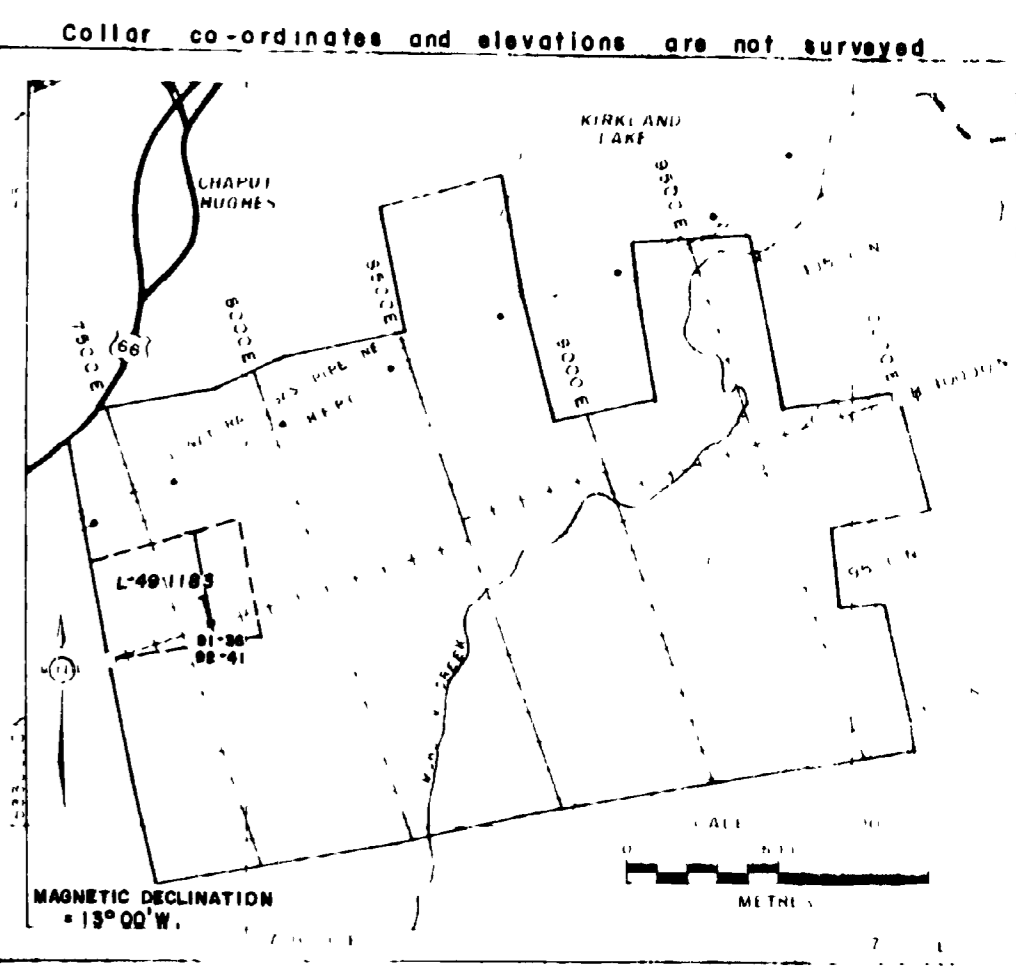
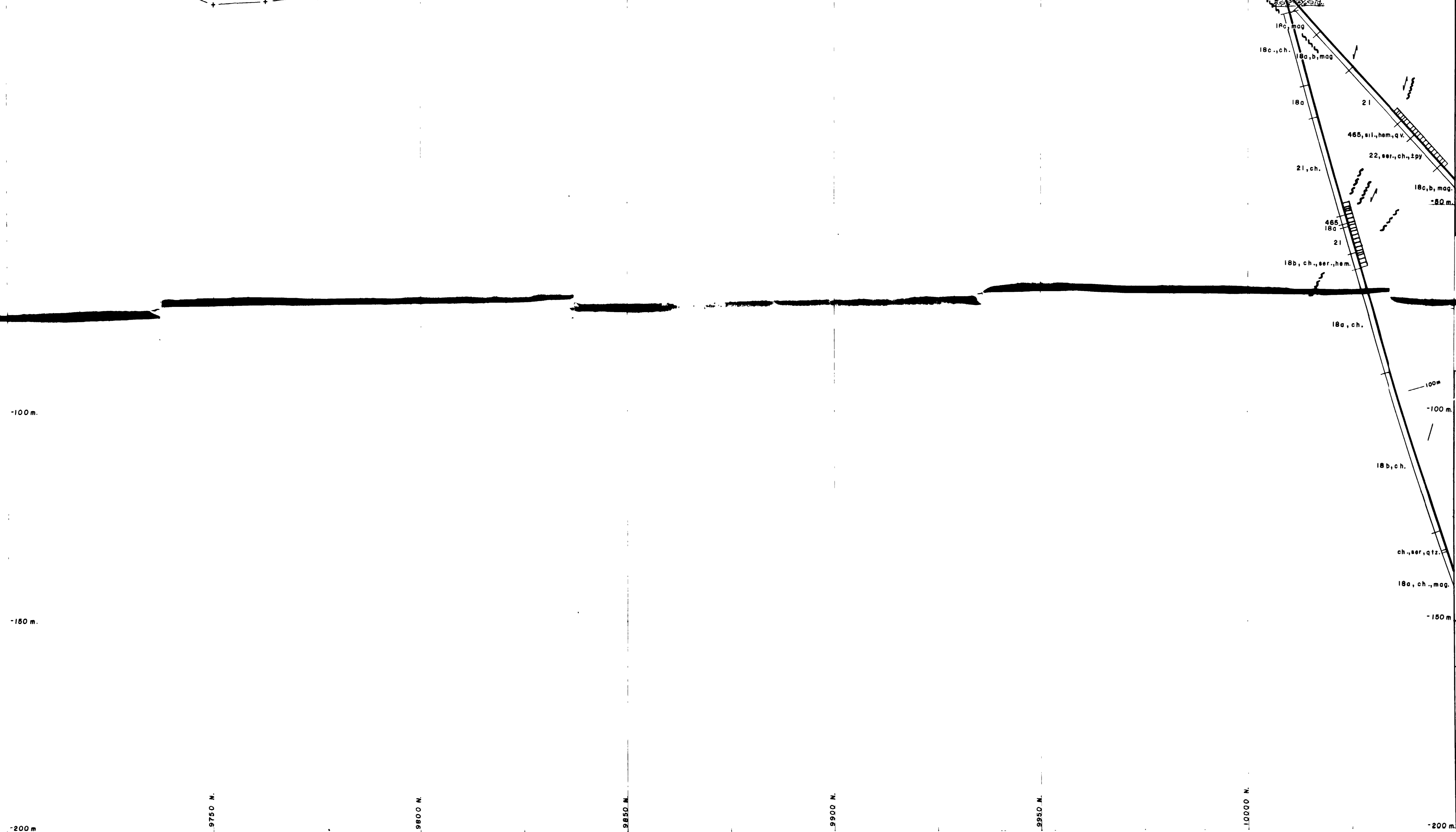
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[61]	[62]	[21]	[22]
[63]	[64]	[23]	[24]
[65]		[25]	[26]
40 INTRUSIVES		10 VOLCANICS	
[41]	[42]	[10]	[11]
[43]	[44]	[12]	[13]
[45]	[46]	[14]	[15]
[47]	[48]	[16]	[17]
[49]	[50]	[18]	[19]

SYMBOLS

[Symbol]	Bedding direction
[Symbol]	Structure
[Symbol]	Facing direction
[Symbol]	Foliation
[Symbol]	Fault, Fault zone
[Symbol]	Drag folding
[Symbol]	Pyrite Mineralization

ABBREVIATIONS

agg	argillaceous	fp	felsic porphyry	qv	quartz vein
amg	amphibolite	fsp	felsic schist	sch	schist
amp	amphibole	g	gneiss	sh	shale
ank	ankerite	hem	hematite	sp	schistose
br	breccia	lim	limonite	sh	shear zone
ch	chert	m	massive	sz	shear zone
cl	calcite	mag	magnetite	tr	trough
cb	carbonate	pb	galena	vdr	veinlet
ch	chert	py	pyrite	vds	veinlet
cp	chloropyrite	mo	monite	vq	veinlet
fc	fractured				
fz	fault zone				



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO

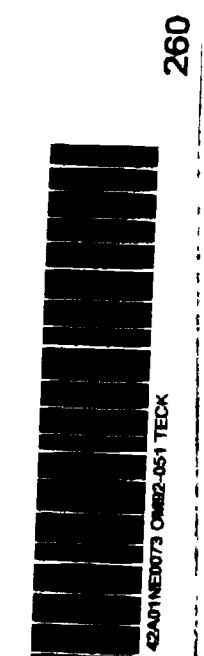
AMALGAMATED KIRKLAND PROPERTY

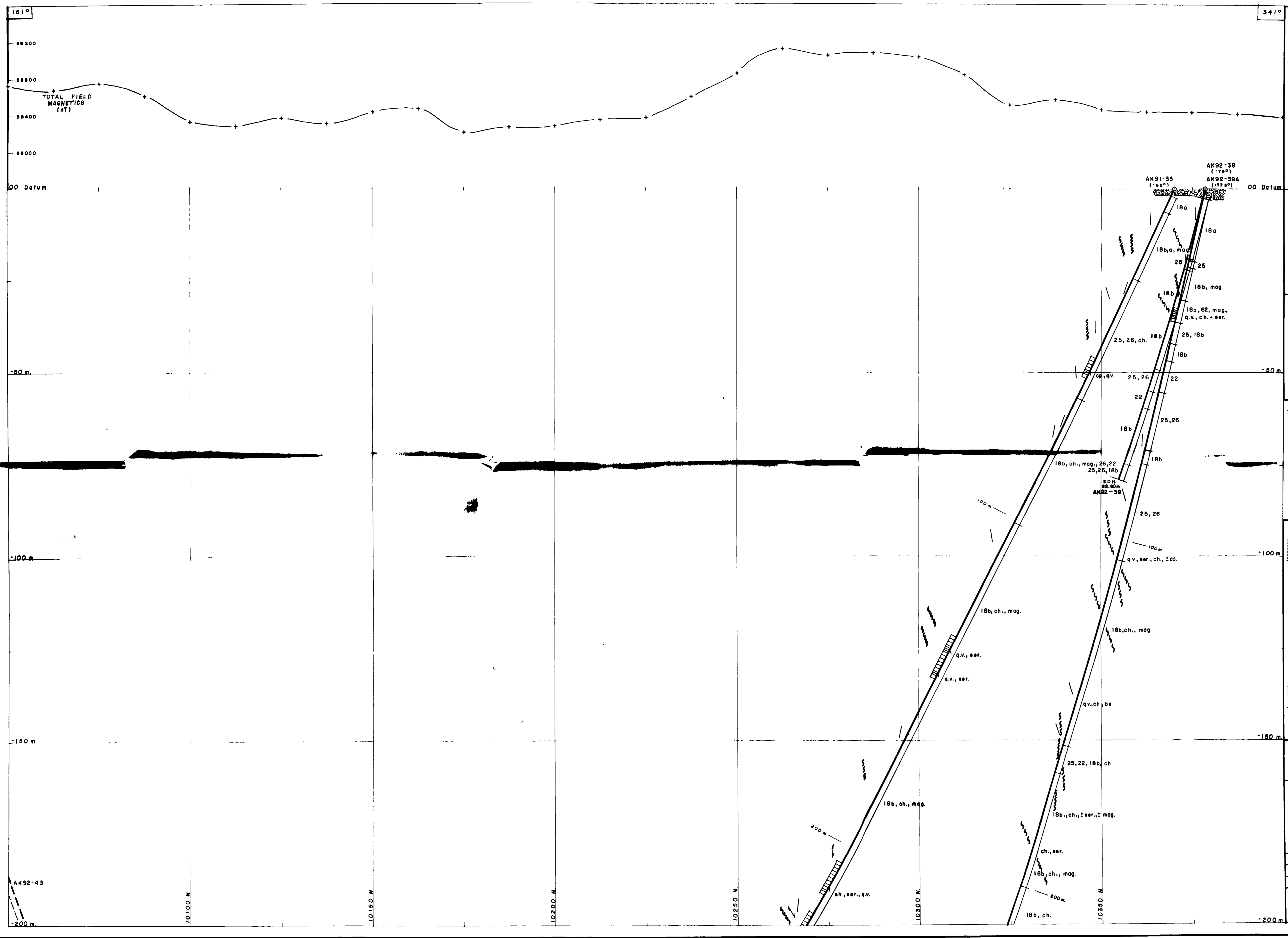
SECTION 7600E
HOLES AK91-36
B AK92-41

PROJECT NO. 75-12-28 DATA BY M. Masson / W. Benham
NETS. DRAWN BY B.H. Madill, Tech.
DRAWING NO. DC-038 DATE April, 1982

SCALE 1:500

0 5 10 20 30 40 metres





LEGEND

60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	10 VOLCANICS
40 INTRUSIVES	18 Trachytes
41 Diabase	18a Ash Tuff
42 Lamprophyre	18b Lapilli Tuff
46 Syenite	18c Block Tuff
461 Augite Syenite	18d Lithic Tuff
462 Mafic Syenite	18e Monolithic Tuff
465 Feldspar Porphyry	

SYMBOLS

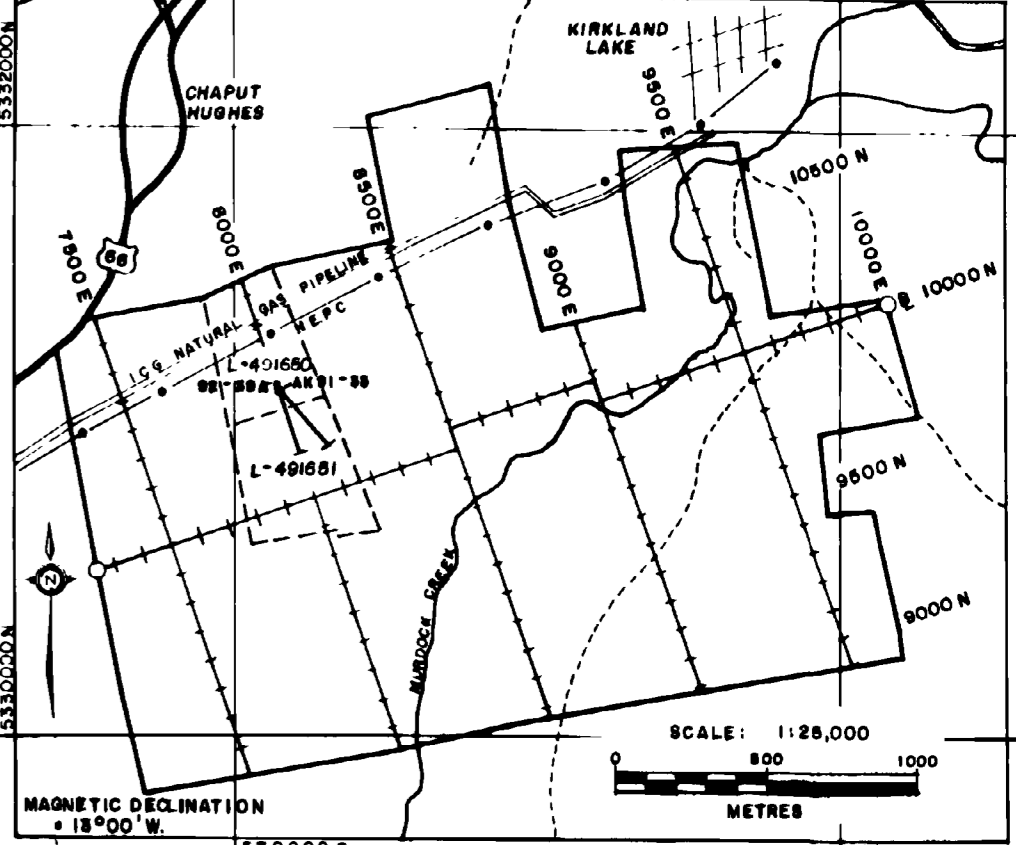
Bedding, contacts	1:42 3:14
Breccia	4:40
Facing direction	1:10
Foliation	2:10
Fault, Fault Zone	2:50
Drag folding	2:70
Pyrite Mineralization	2:80

ABBREVIATIONS

agp - augite porphyritic	fp - feldspar porphyritic	qv - quartz vein
amg - amygdaloid	fsp - feldspathic	ser - sericitic
amp - amphibolite	gf - graphite	sil - silicic
ank - ankerite	hem - hematite	sp - sphalerite
bx - breccia	lam - laminated	sh - sheared
ca - calcite	m - massive	sz - shear zone
cb - carbonate	mag - magnetite	trc - tracheloid
ch - chlorite	pb - galena	var - varietal
cp - chalcopryite	py - pyrite	ves - vesicular
fc - fractured	ma - molybdenite	vg - visible gold
fz - fault zone		

NOTE: Hole AK92-39A is plotted according to downhole directional survey (Sperry Sun). Due to hole deviation downhole measurements will appear foreshortened.

Collar co-ordinates and elevations are not surveyed.



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

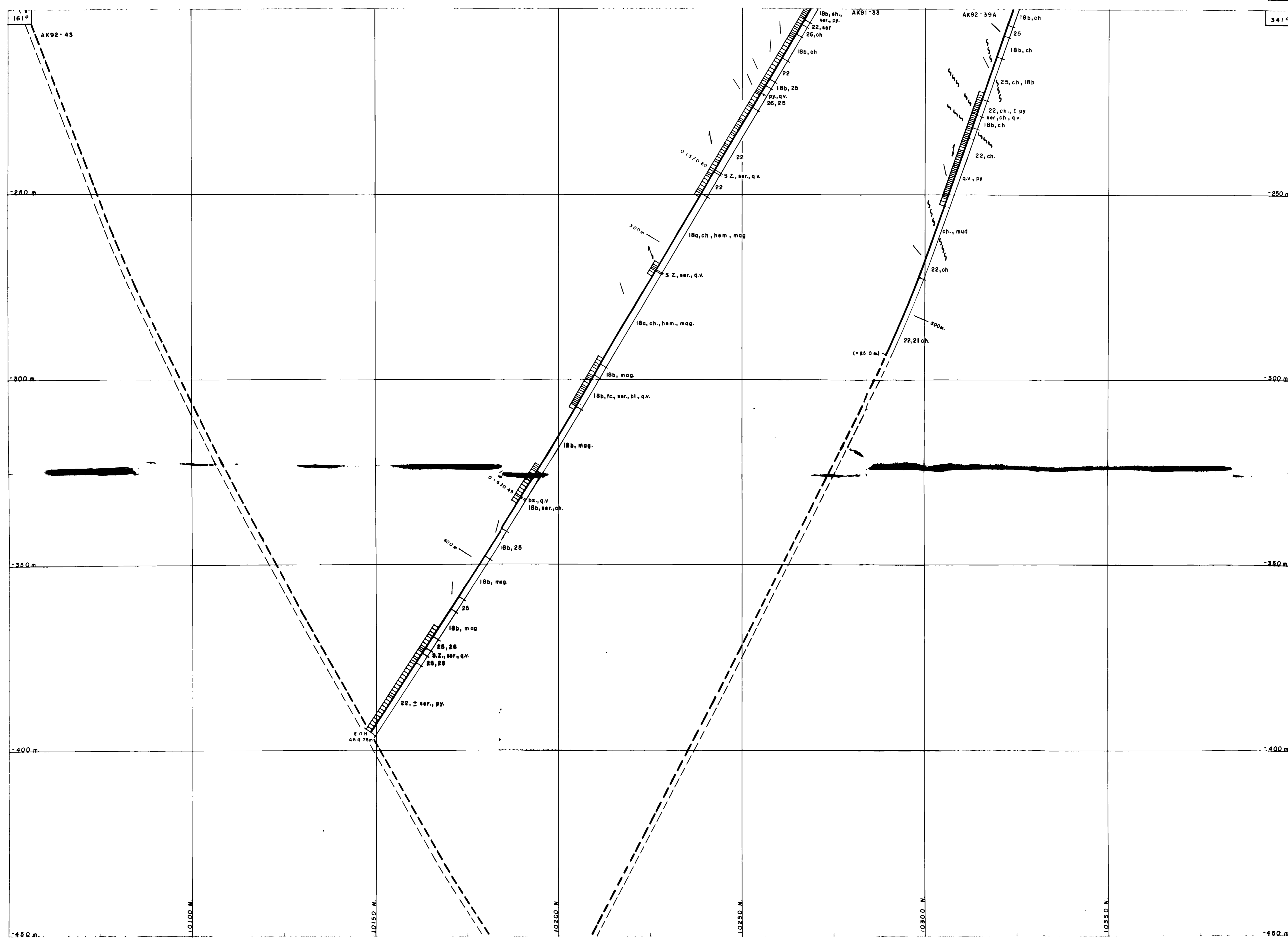
SECTION 8000 E
HOLES AK91-33, AK92-39,
& AK92-39A

PROJECT No 76-JV-28	DATA BY: M. Mason, W. Benham
NTS 42 A/1	DRAWN BY: B.H. Madill, Tech.
DRAWING No: DC-036-1 (SHEET 1 of 3)	DATE April, 1992

SCALE 1:500

270

SHEET ALIGNMENT POINT



LEGEND

60 ALTERATION	20 SEDIMENTS
[61] Chlorite	[21] Conglomerate
[62] Sericite	[22] Graywacke
[63] Hematite	[23] Siltstone
[64] Silica	[24] Mudstone
[65] Carbonatized	[25] Volcanics
40 INTRUSIVES	[18] Trachyte
[41] Diabase	[18a] Ash-tuff
[42] Lamprophyre	[18b] Lapilli-tuff
[46] Syenite	[18c] Block-tuff
[461] Augite Syenite	[18d] Lithic-tuff
[462] Mafic Syenite	[18e] Monolithic-tuff
[465] Feldspar Porphyry	

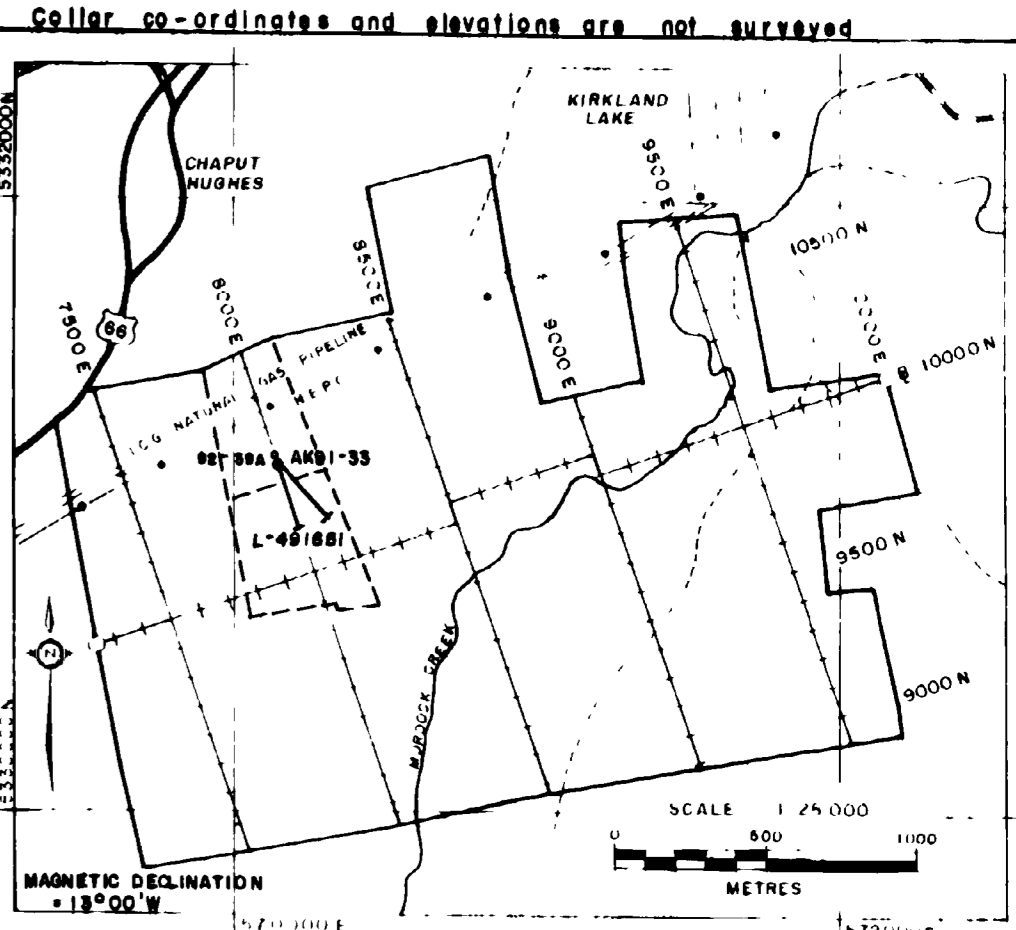
SYMBOLS

[Symbol]	Bedding, contacts
[Symbol]	Breccia
[Symbol]	Facing direction
[Symbol]	Foliation
[Symbol]	Fault, Fault Zone
[Symbol]	Drag folding
[Symbol]	Pyrite Mineralization

ABBREVIATIONS

agp - augite porphyry	fp - feldspar porphyry	qv - quartz vein
amg - amygdules	fsp - feldspar	ser - sericite
amp - amphibole	qtz - quartzitic	sil - siliceous
ank - ankerite	hem - hematite	sp - sphalerite
bx - breccia	lum - laminated	sh - sheared
ca - calcite	m - massive	sz - shear zone
cb - carbonate	mag - magnetite	trc - trachoidol
ch - chlorite	pb - galena	var - varietal
cp - chlorophyllite	py - pyrite	vbl - vesicular
fr - fluorite	mu - mullite	vg - visible gird
fz - fault zone		

NOTE: Hole AK92-39A is plotted according to downhole directional survey (Sperry Sun). Due to hole deviation downhole measurements will appear foreshortened.



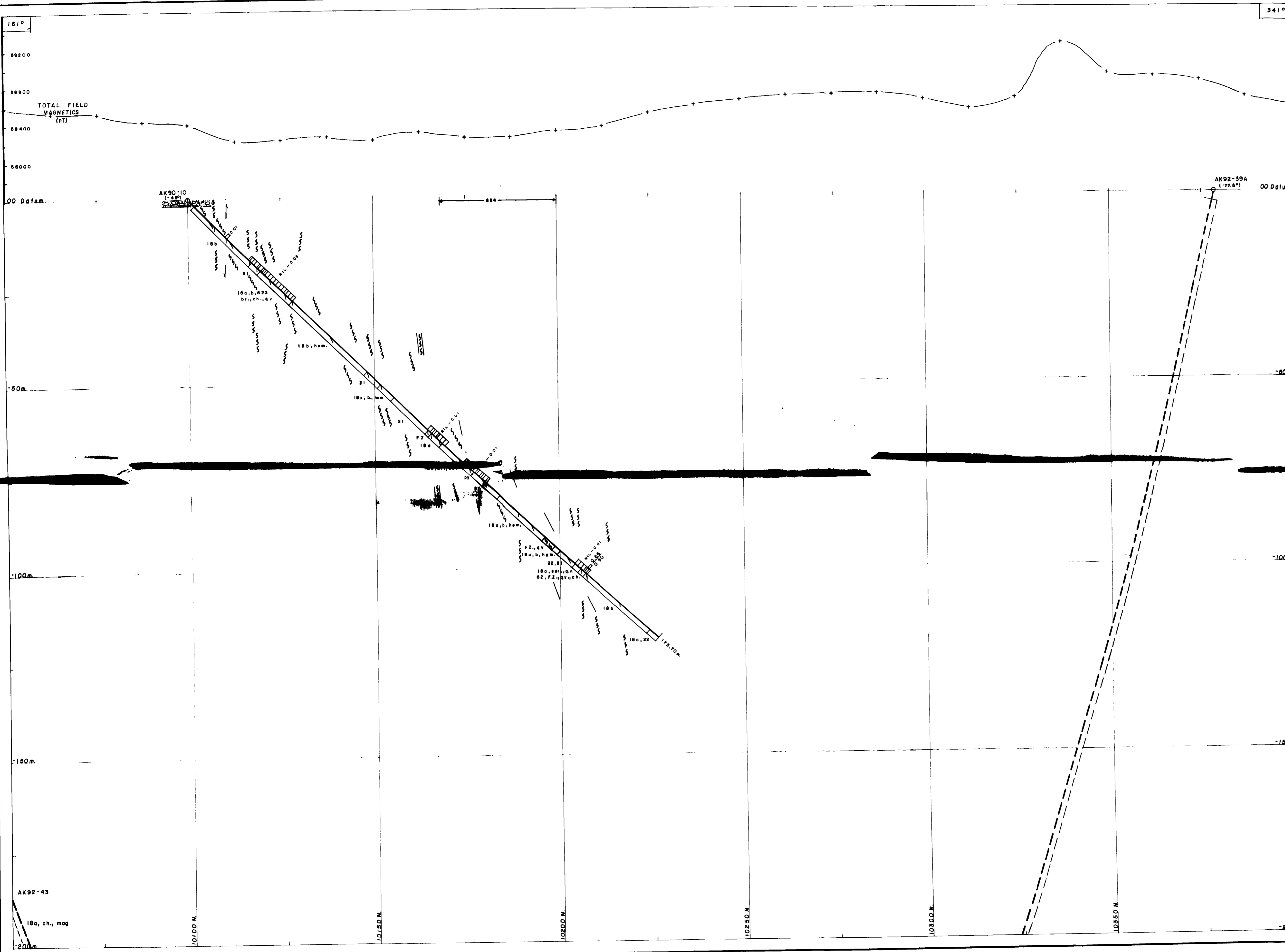
BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
 Queenston Mining Inc.
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY

SECTION 8000
 HOLES AK91-33
 & AK92-39A

PROJECT No. 75-JV-28	DATA BY M. Mason, W. Benham
NTS. 4/2/91	DRAWN BY B.H. Madill, Tech
DRAWING No. DC-036-2 (SHEET 2 of 3)	DATE May, 1992

SCALE 1:1500



LEGEND

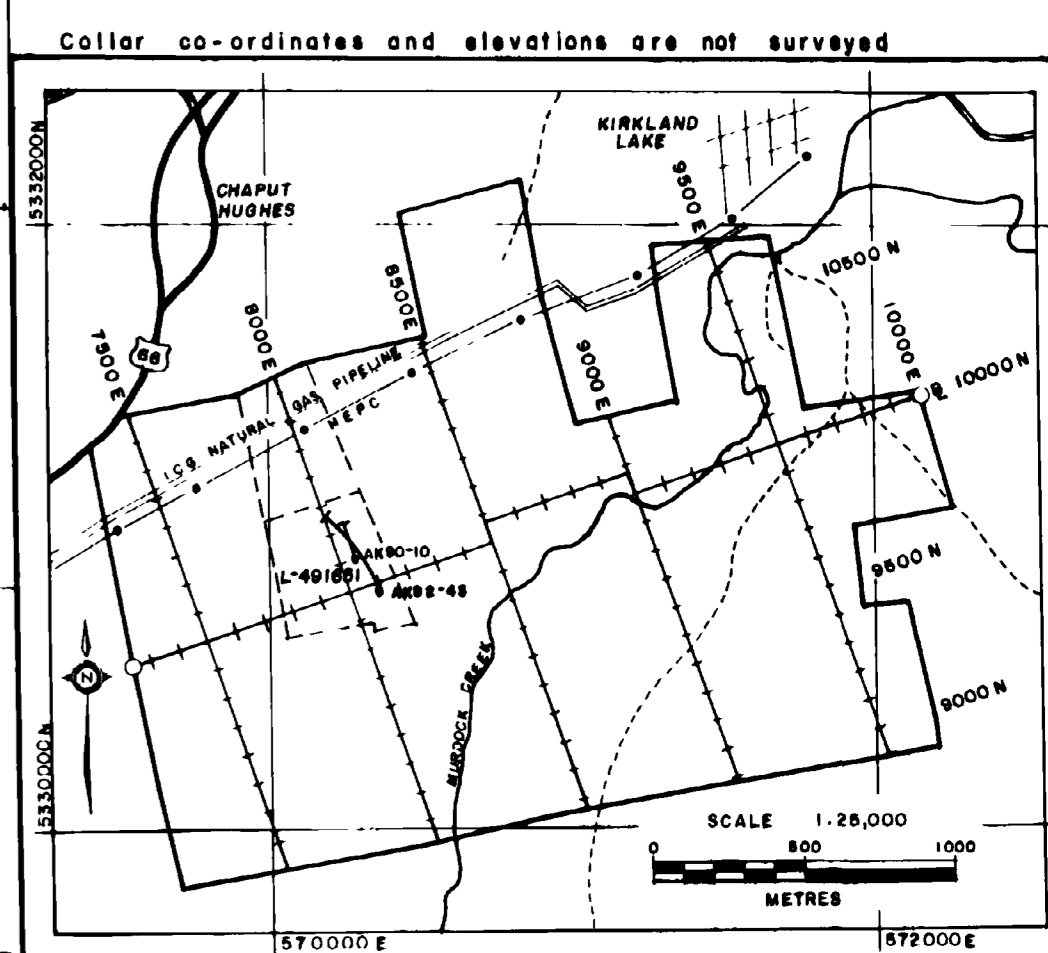
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sarcitic	22 Graywacke
63 Hematitic	23 Siltstone
64 Silicic	24 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	10 Trachytes
412 Lamprophyre	10a Ash Tuff
46 Syenite	10b Lapilli Tuff
461 Augite Syenite	10c Block Tuff
462 Mafic Syenite	10d Lithic Tuff
468 Feldspar Porphyry	10e Monolithic Tuff

SYMBOLS

Bedding, contacts	
Breccia	
Facing direction	
Foliation	
Fault, Fault Zone	
Drag folding	
Pyrite Mineralization	

ABBREVIATIONS

agp - augite porphyritic	fp - feldspar porphyritic	qv - quartz vein
amg - amygdules	fsp - feldspathic	ser - sericite
amp - amphibolite	gf - graphitic	sil - siliceous
ank - ankerite	hem - hematite	sp - sphalerite
bx - breccia	lam - laminated	sh - sheared
ca - calcite	m - massive	sz - shear zone
cb - carbonate	mag - magnetite	trc - trachoidal
ch - chlorite	pb - galena	var - variolite
cp - chlorophyllite	py - pyrite	vss - vesicular
fc - fractured	ma - molybdenite	vg - visible gold
fz - fault zone	bl - bleached	



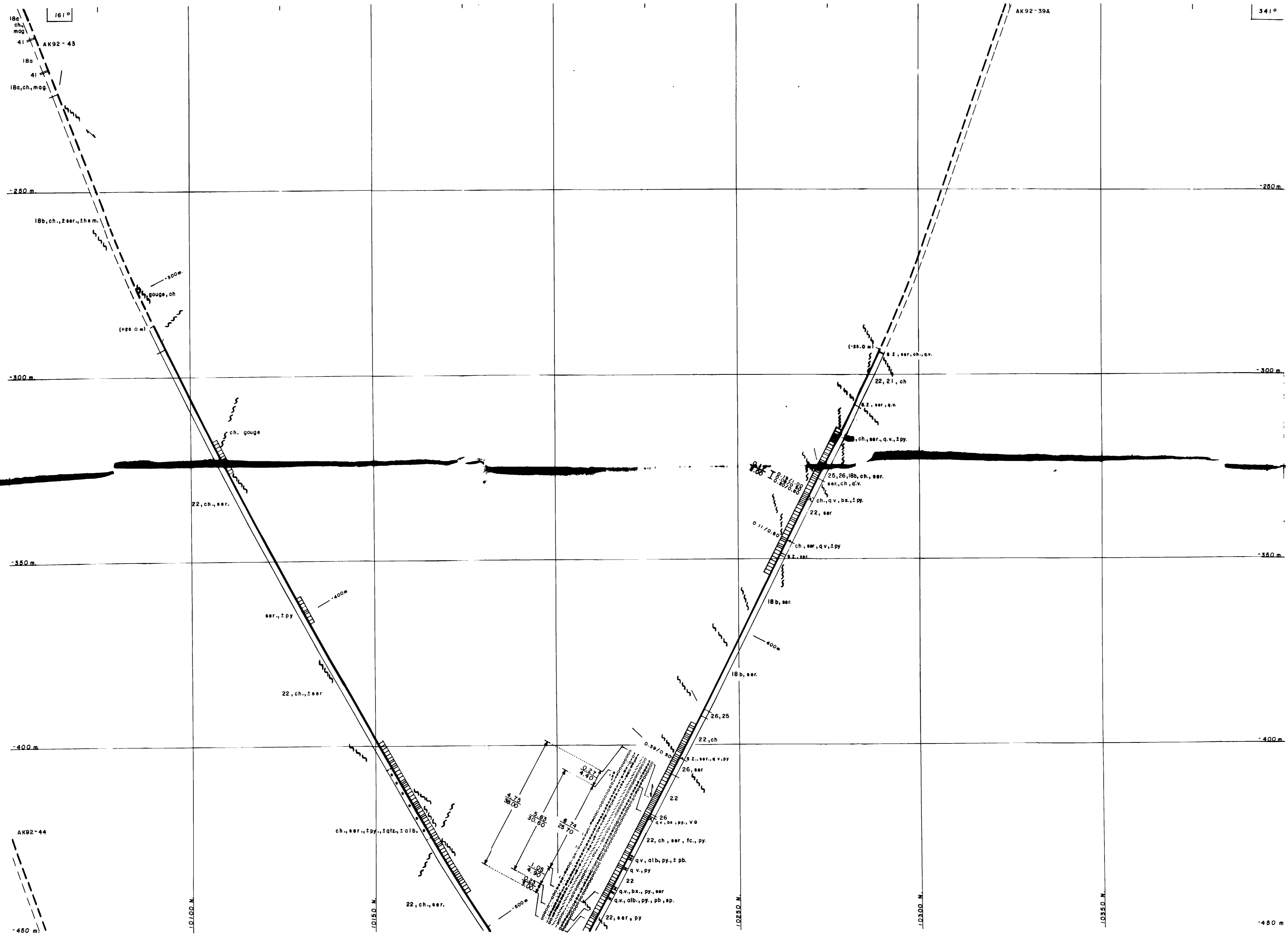
BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
 Queenston Mining Inc.
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY

SECTION 8050E
 HOLES AK90-10
 and AK92-43

PROJECT No	76-JV-28	DATA BY	W. Benham
N.T.S.	42 A/1	DRAWN BY	B.H. Madill, Tech.
DRAWING No	DC-006-1 (SHEET 1 of 4)	DATE	Revised July, 1992

SCALE: 1:500



alb. - albite

NOTE: Holes AK92-39A and 43 are plotted according to downhole directional survey data. (Sperry Sun)
Due to hole deviation downhole measurements will appear foreshortened

Collar co-ordinates and elevations are not surveyed



MAGNETIC DECLINATION
+13°00'W

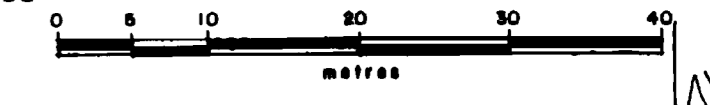
SECTION 8050E

HOLES AK92-39A,
AK92-43 and AK92-44

M. Masson / W. Benham
B.H. Madill, Tech
Revised Sept., 1992

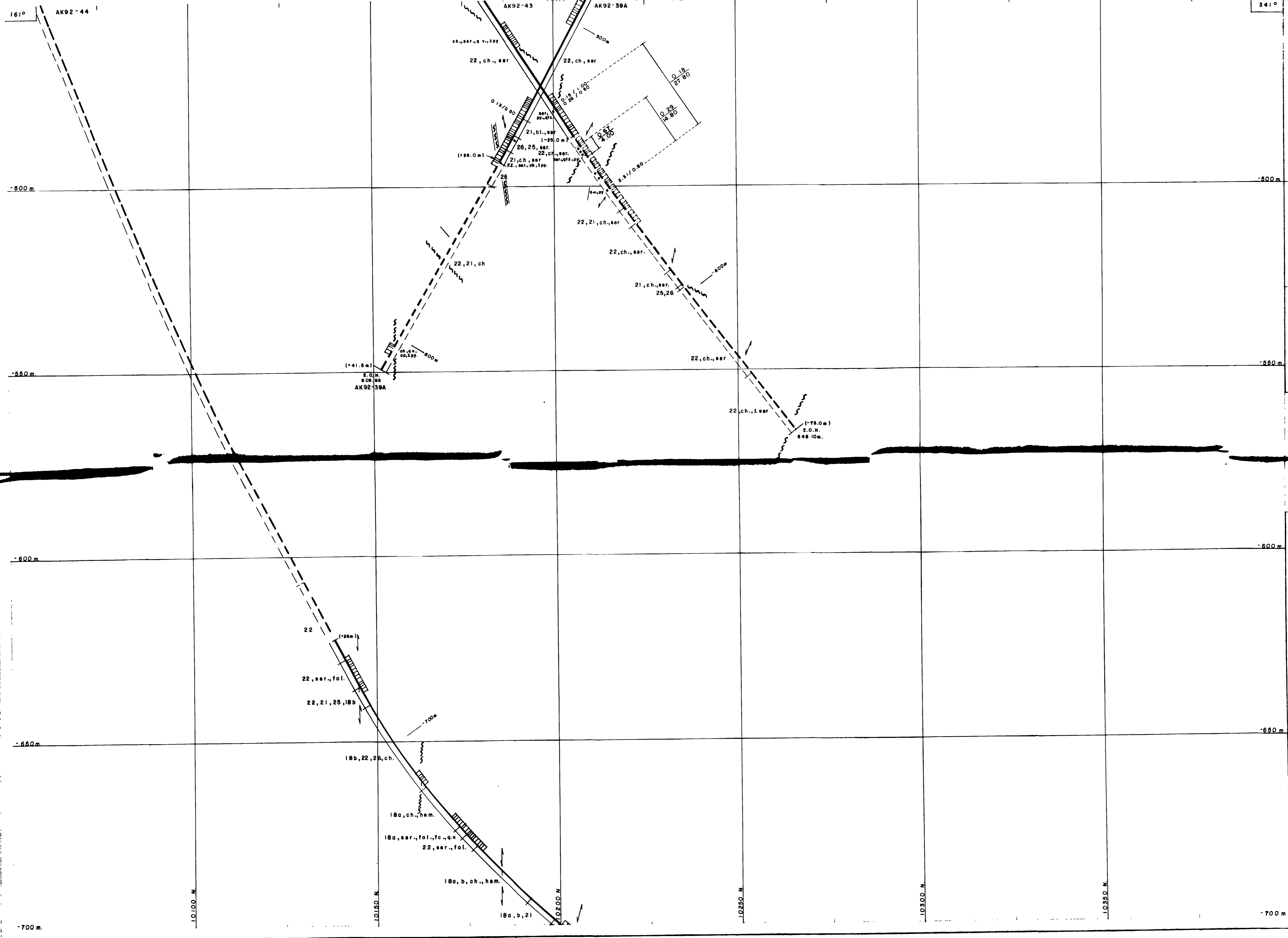
DC-006-2 (SHEET 2 of 4)

1:500

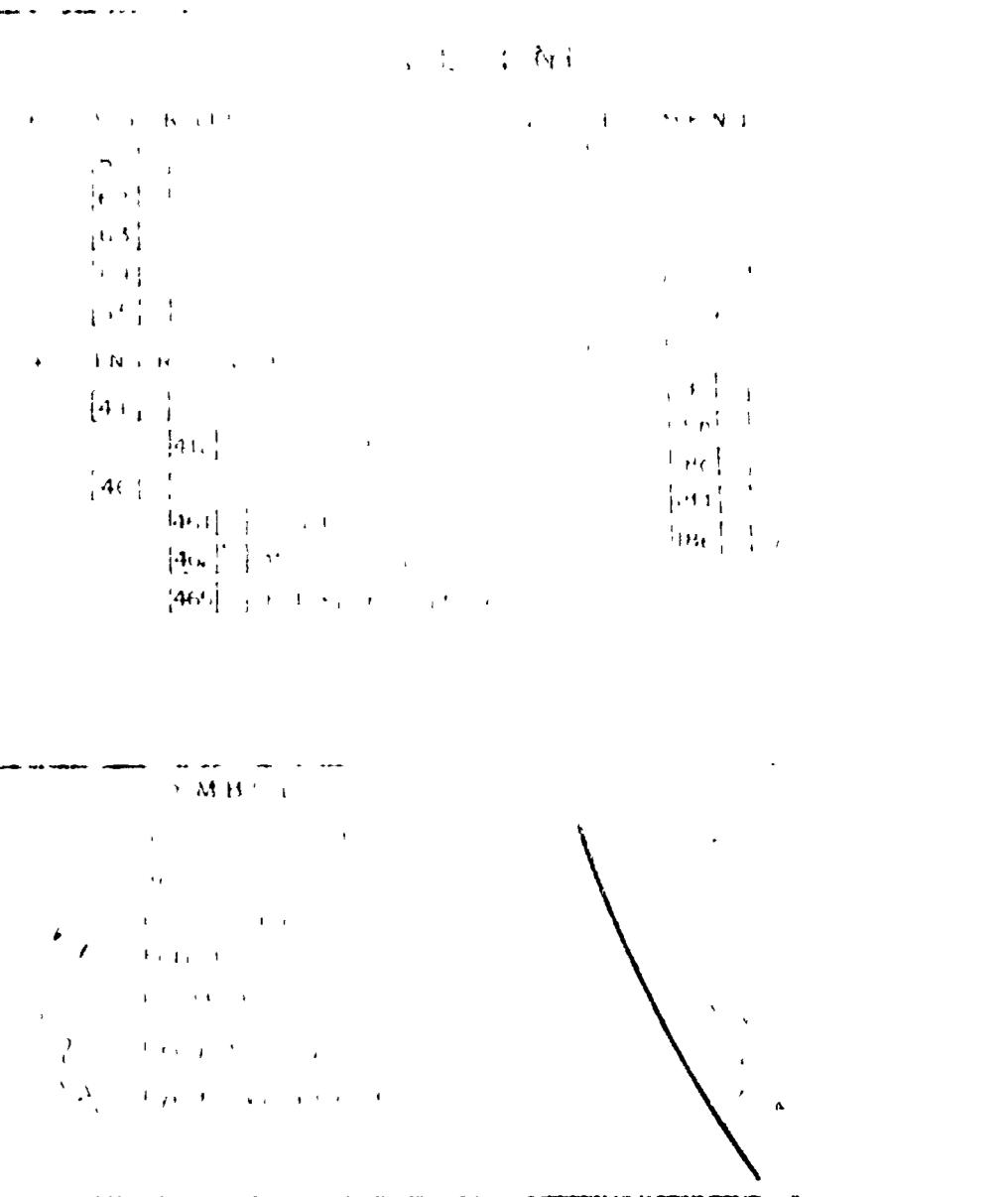


W.B.

SHEET ALIGNMENT POINT



341°

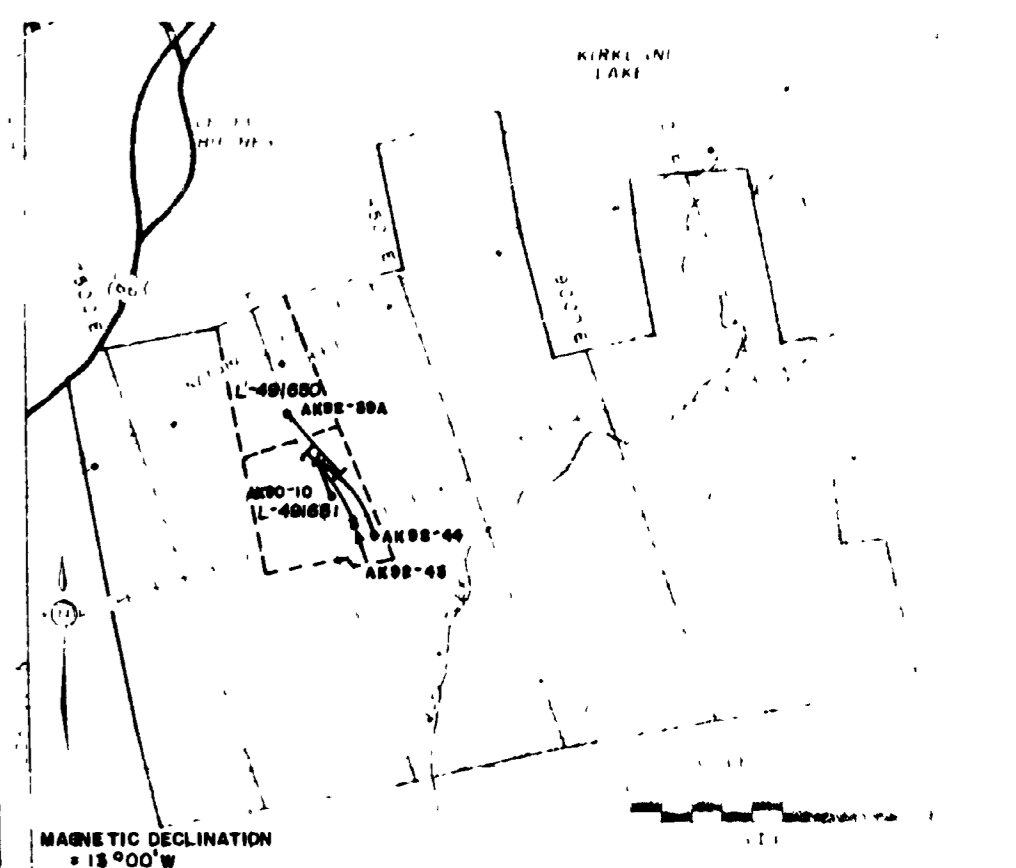


ABBREVIATIONS

ch.	channel
ser.	series
bl.	bleached
fol.	foliation
hem.	hematite
fc.	fine crystalline
q.v.	quartz vein
ser.	sericitic
sp.	spinel
st.	staurolite
tr.	tourmaline
z.	zircon

NOTE: Holes AK92-39A, 43 and 44 are plotted according to downhole directional survey data. (Sperry Sun)
 Due to hole deviation downhole measurements will appear foreshortened.

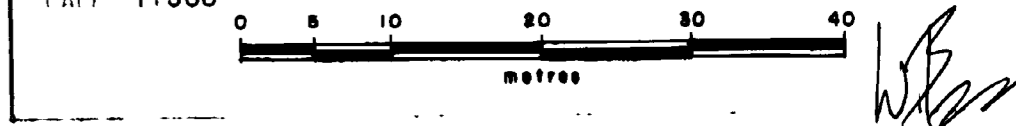
Collar co-ordinates and elevations are not surveyed



BATTLE MOUNTAIN (CANADA) INC.

SECTION 8050E

Holes AK92-39A, AK92-43 and AK92-44
 Prepared by: M. Masson / W. Benham
 Drawn by: B.H. Madill, Tech
 DC-006-3 (SHEET 3 of 4) Revised Sept., 1992

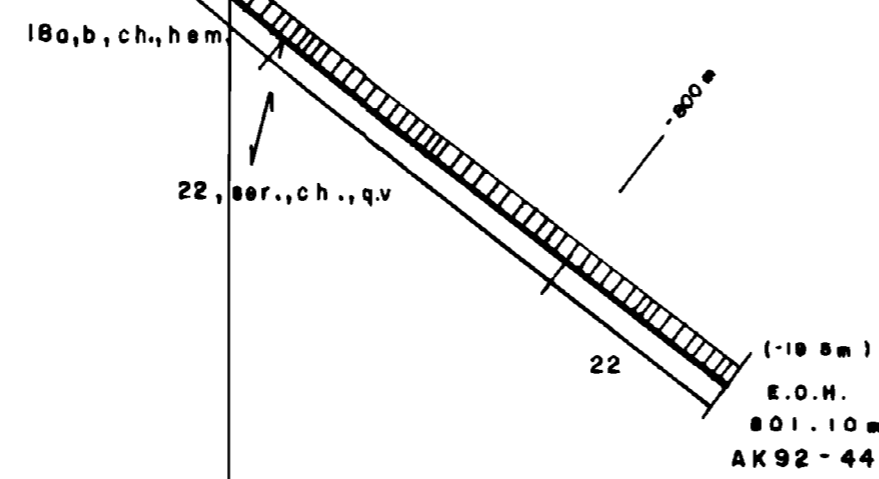


320

SHEET ALIGNMENT POINT

1810

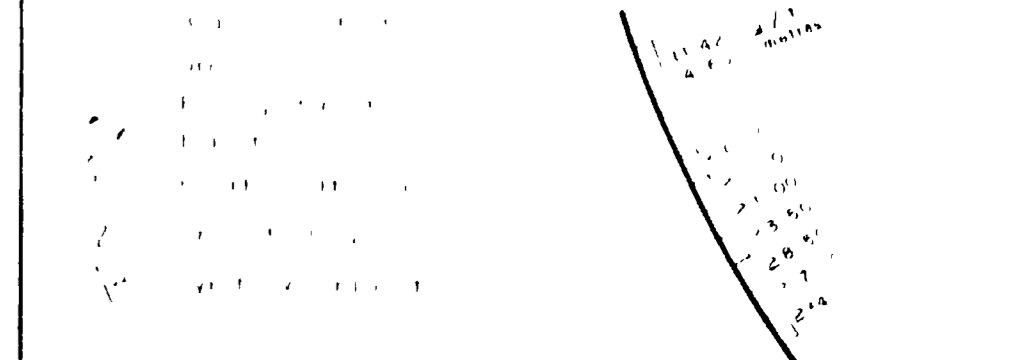
3410



LEGEND

01 ALTERATION	20 SEDIMENTS
[01] ...	[21] ...
[02] ...	[22] ...
[03] ...	[23] ...
[04] ...	[24] ...
[05] ...	[25] ...
[06] ...	[26] ...
[07] ...	[27] ...
[08] ...	[28] ...
[09] ...	[29] ...
[10] ...	[30] ...
[11] ...	[31] ...
[12] ...	[32] ...
[13] ...	[33] ...
[14] ...	[34] ...
[15] ...	[35] ...

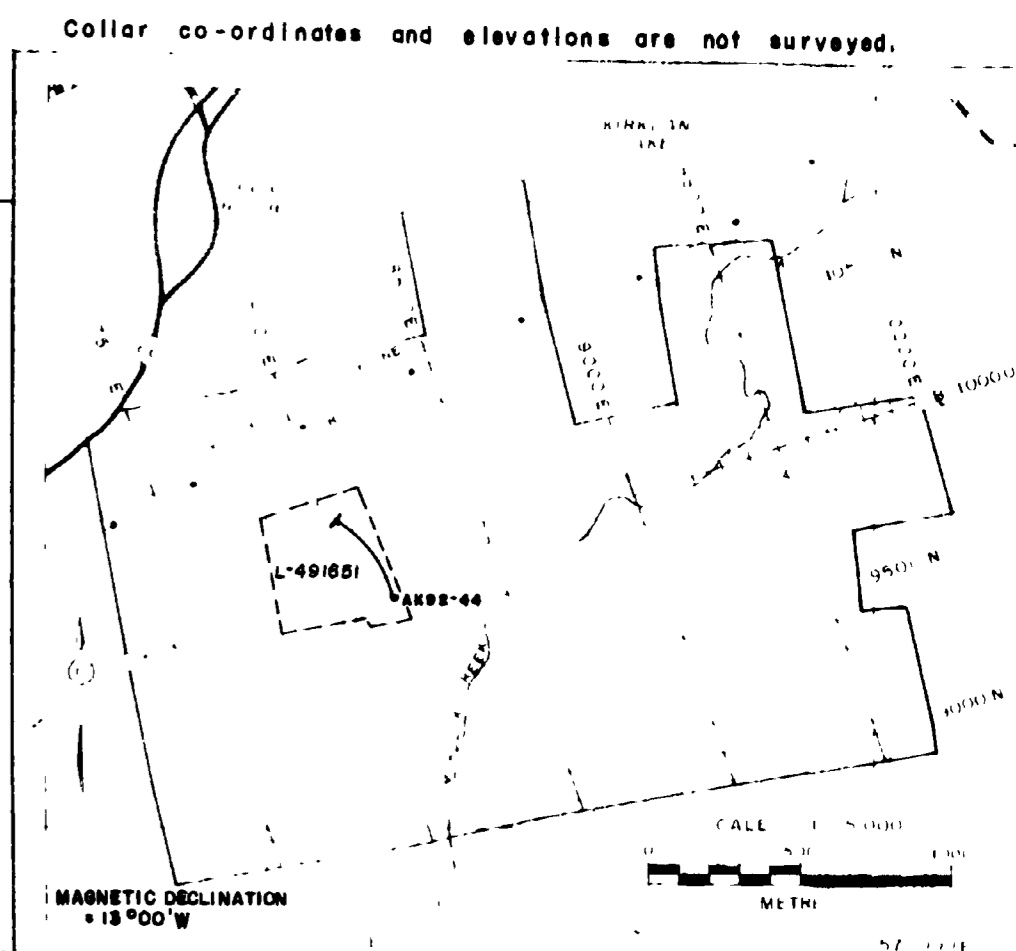
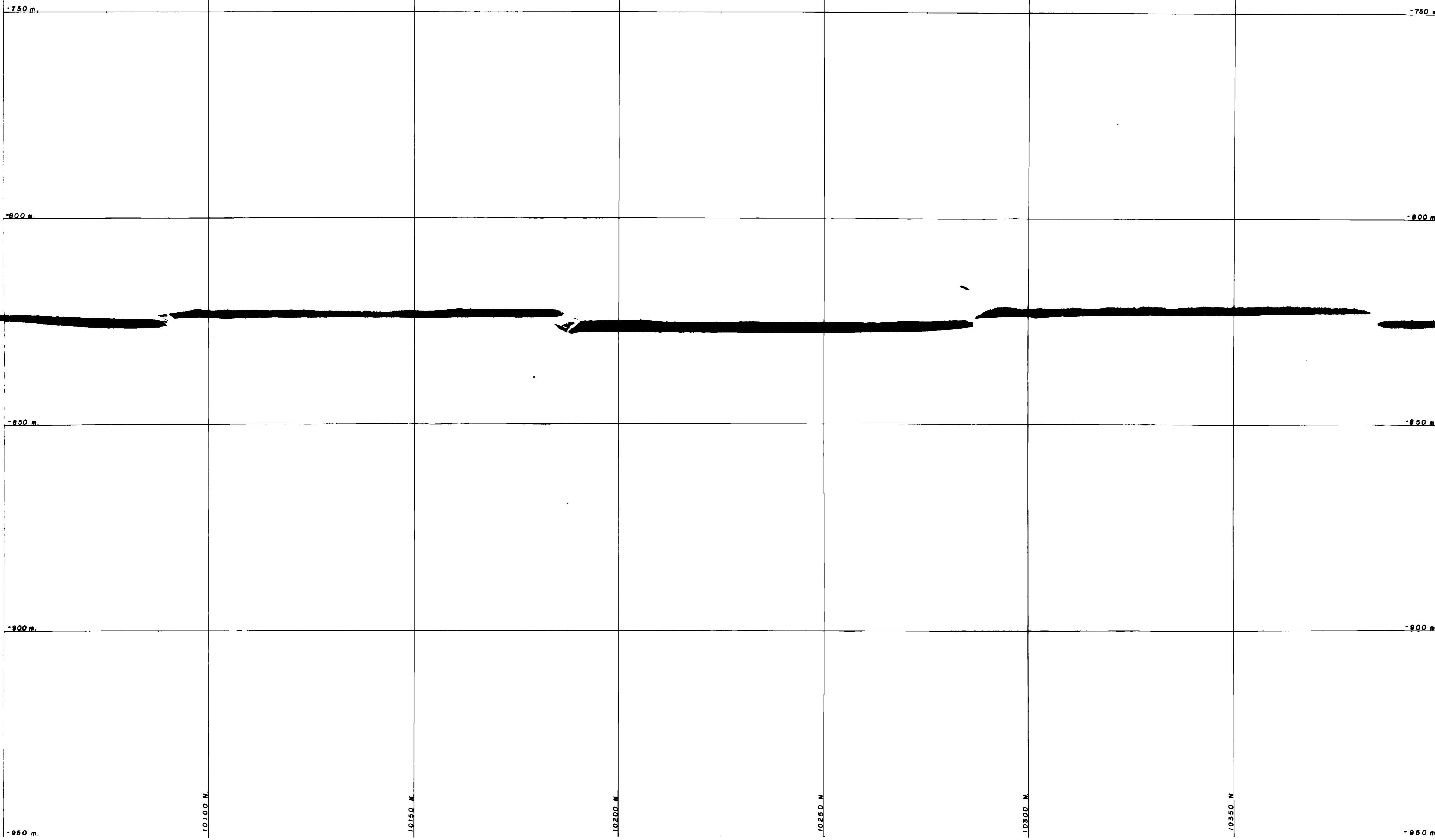
SYMBOLS



ABBREVIATIONS

Al	Al	Al
Am	Am	Am
...

NOTE: Hole AK92-44 is plotted according to downhole directional survey data. (Sperry Sun)
Due to hole deviation downhole measurements will appear foreshortened



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Quebec Mining Inc.
N.S.A.B.H.
722 HAMMILL RD. KIRKLAND PROPERTY

SECTION 8050E
HOLE AK92-44

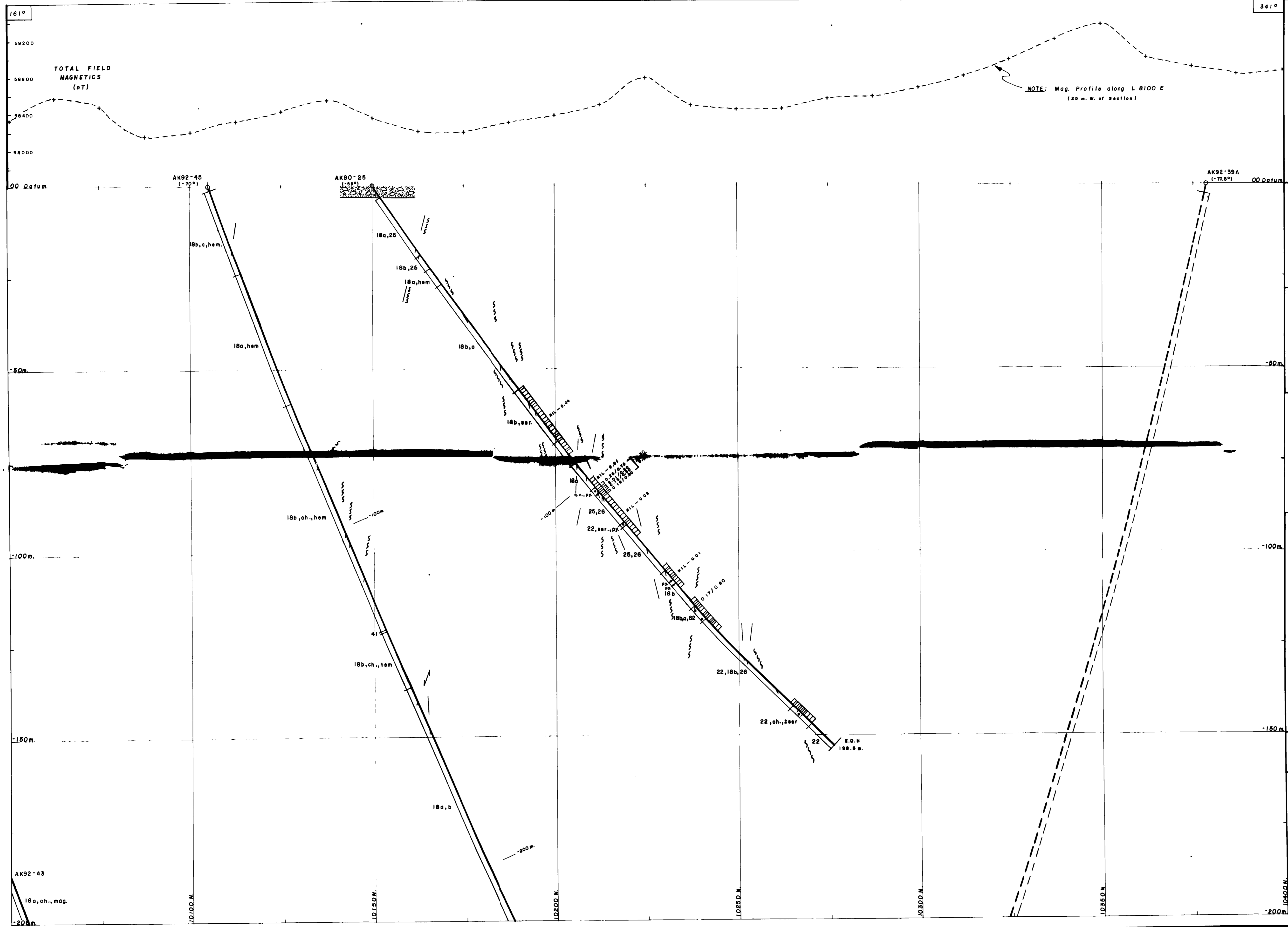
PREPARED BY: W. Benham / M. Masson
DRAWN BY: B.H. Madill, Tech.
DATE: September 1992

DC-006-4 (SHEET 4 of 4)

SCALE: 1:500



330



LEGEND

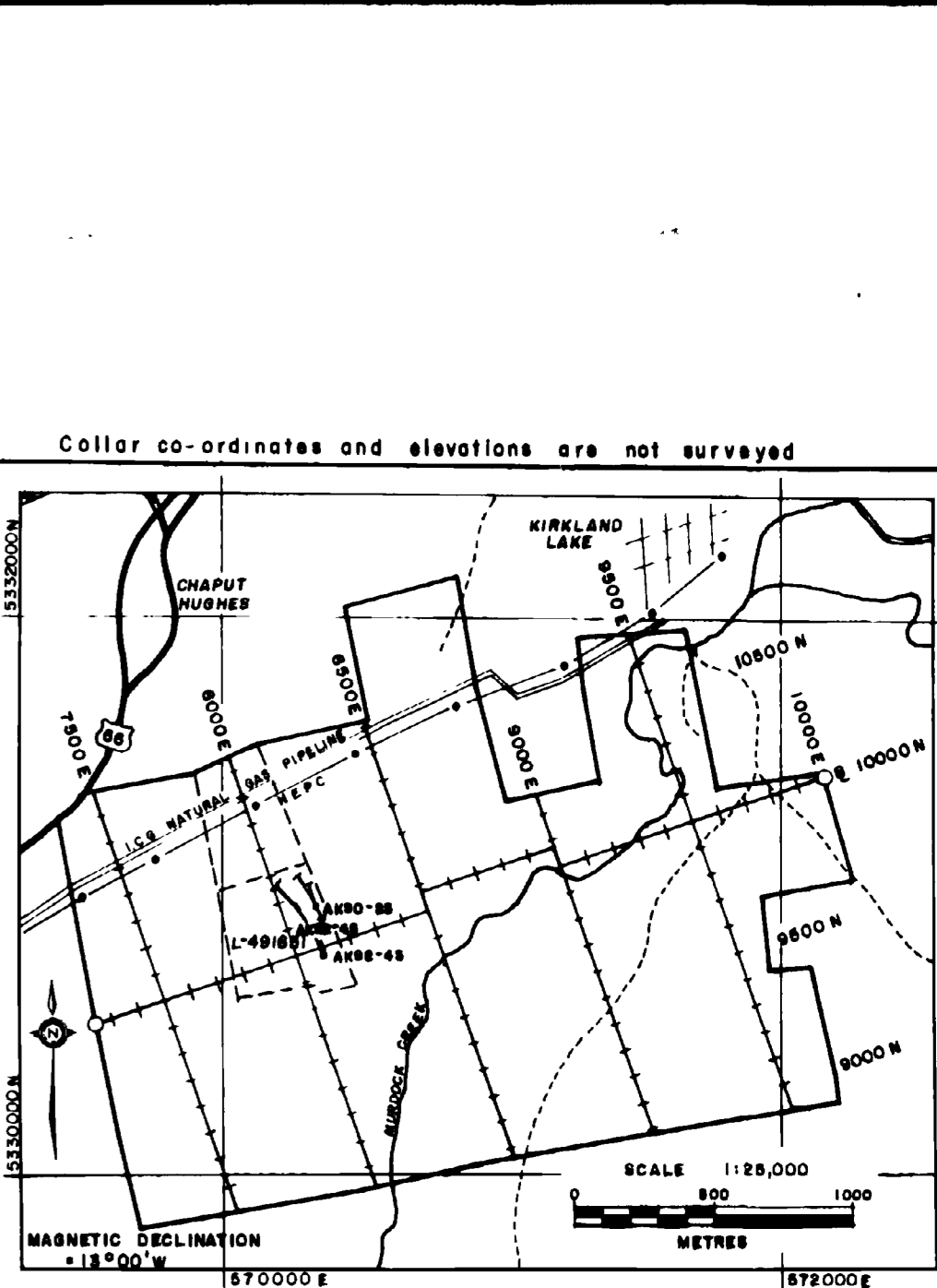
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
42 Lamprophyre	18a Ash Tuff
43 Syenite	18b Lapilli Tuff
44 Augite Syenite	18c Block Tuff
45 Mafic Syenite	18d Lithic Tuff
46 Feldspar Porphyry	18e Monolithic Tuff

SYMBOLS

- Bedding, contacts
- Breccia
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization

ABBREVIATIONS

agp - augite porphyritic	fp - feldspar porphyritic	qv - quartz vein
amp - amphibolite	fsp - feldspathic	ser - sericitic
ank - ankerite	gf - graphitic	sil - silicic
bx - breccia	hem - hematite	sp - sphalerite
cd - calcite	lam - laminated	sh - sheared
cb - carbonate	m - massive	sz - shear zone
ch - chlorite	mag - magnetite	trc - trachyte
cp - calcopyrite	pb - galena	var - varietal
fc - fractured	py - pyrite	vbl - vesicular
fz - fault zone	mo - molybdenite	vg - visible gold



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8100 E
HOLES AK90-25, AK92-43 and AK92-45

PROJECT No: 75-JV-28	DATA BY: W. Benham
NTS: 42 A/1	DRAWN BY: B.H. Madill, Tech.
DRAWING No: DC-008-1 (SHEET 1 of 3)	DATE: Revised September, 1992

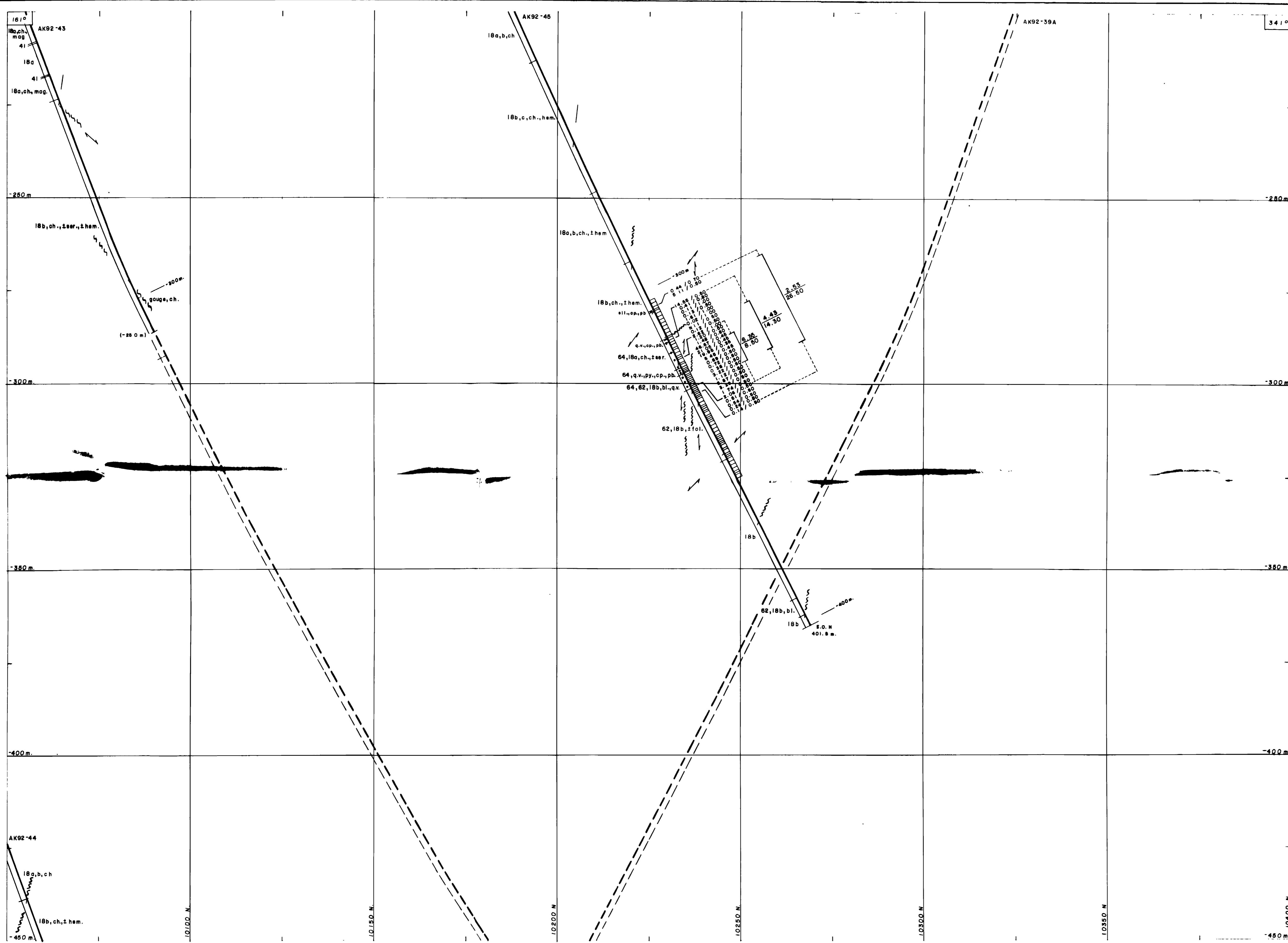
SCALE: 1:1500

0 5 10 20 30 40 metres

340

CONTINUED ON SHEET 341

0 SHEET ALIGNMENT POINT



LEGEND

60 ALTERATION	20 SEDIMENTS
61 Chlorite	21 Conglomerate
62 Sericite	22 Gneiss
63 Hematite	23 Siltstone
64 Silica	24 Mudstone
65 Carbonized	10 VOLCANICS
40 INTRUSIVES	181 Trachytes
41 Basalt	18a Ash Tuff
42 Lamprophyre	18b Lapilli Tuff
46 Syenite	18c Block Tuff
461 Augite Syenite	18d Lithic Tuff
462 Mafic Syenite	18e Monolithic Tuff
465 Feldspar Porphyry	

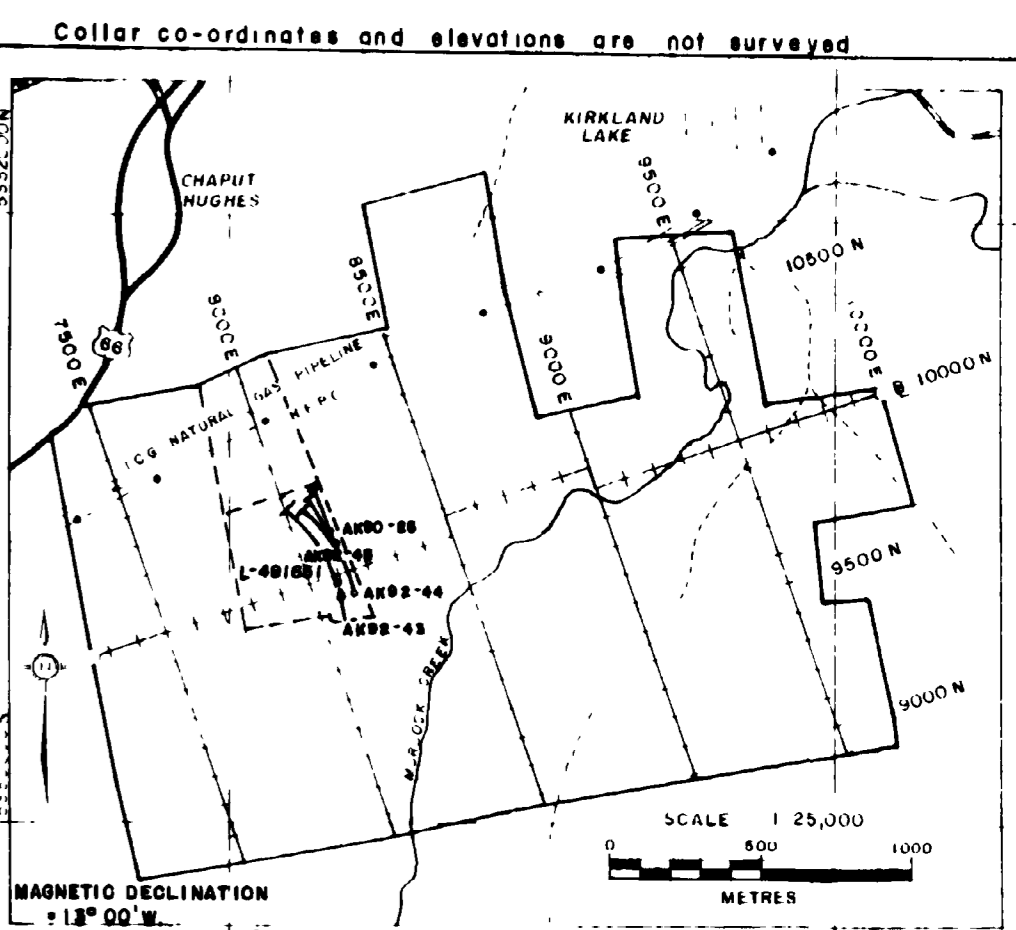
SYMBOLS

Bedding, contacts	1:12 A/L/A
Breccia	1:10
Faring direction	1:10
Foliation	1:10
Fault, fault zone	1:10
Drag folding	1:10
Pyrite Mineralization	1:10

ABBREVIATIONS

ppp - quartz porphyry	fp - feldspar porphyry	qv - quartz vein
omq - omphacite	isp - iron sulfide	ser - sericite
amp - amphibole	gf - graphite	sil - siliceous
onk - onkariite	hem - hematite	sp - sphalerite
dx - breccia	lam - laminated	sh - shear zone
ch - chlorite	m - massive	sz - shear zone
cb - carbonate	mag - magnetite	trc - trachoidal
cl - chlorite	pb - galena	vor - vesicular
cp - chalcopryite	py - pyrite	vbs - vesicular
fc - fracture	mu - molybdenite	vg - visible gold
fz - fault zone	bl - bleached	

NOTE: Holes AK 92-39A, 43, 44 and 45 are plotted according to downhole directional survey data (Sperry Sun). Due to hole deviation downhole measurements will appear foreshortened.



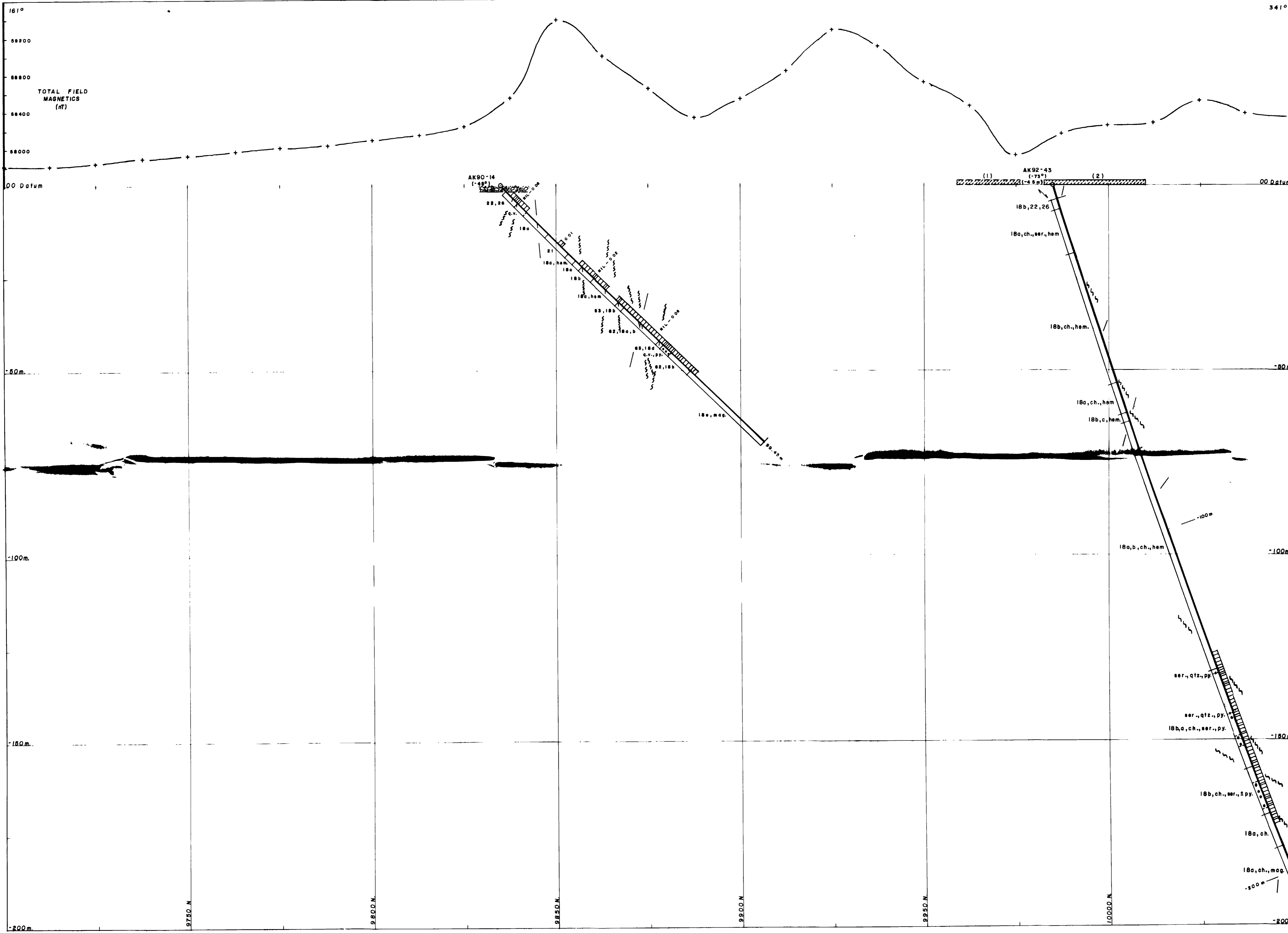
BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8100E
HOLES AK90-43
AK92-44 and AK92-45

PROJECT No. 75-10-28
DATE BY W. Benham / M. Masson
DRAWN BY B.H. Madill, Tech
DATE September, 1992

SCALE 1:800



LEGEND

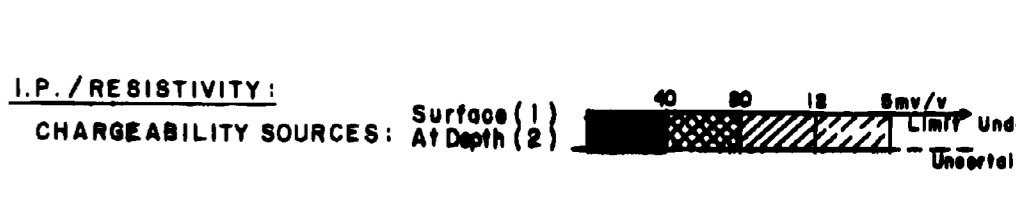
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	23 Siltstone
64 Silicic	24 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
412 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Black Tuff
462 Mafic Syenite	18d Lithic Tuff
463 Feldspar Porphyry	18e Monolithic Tuff

SYMBOLS

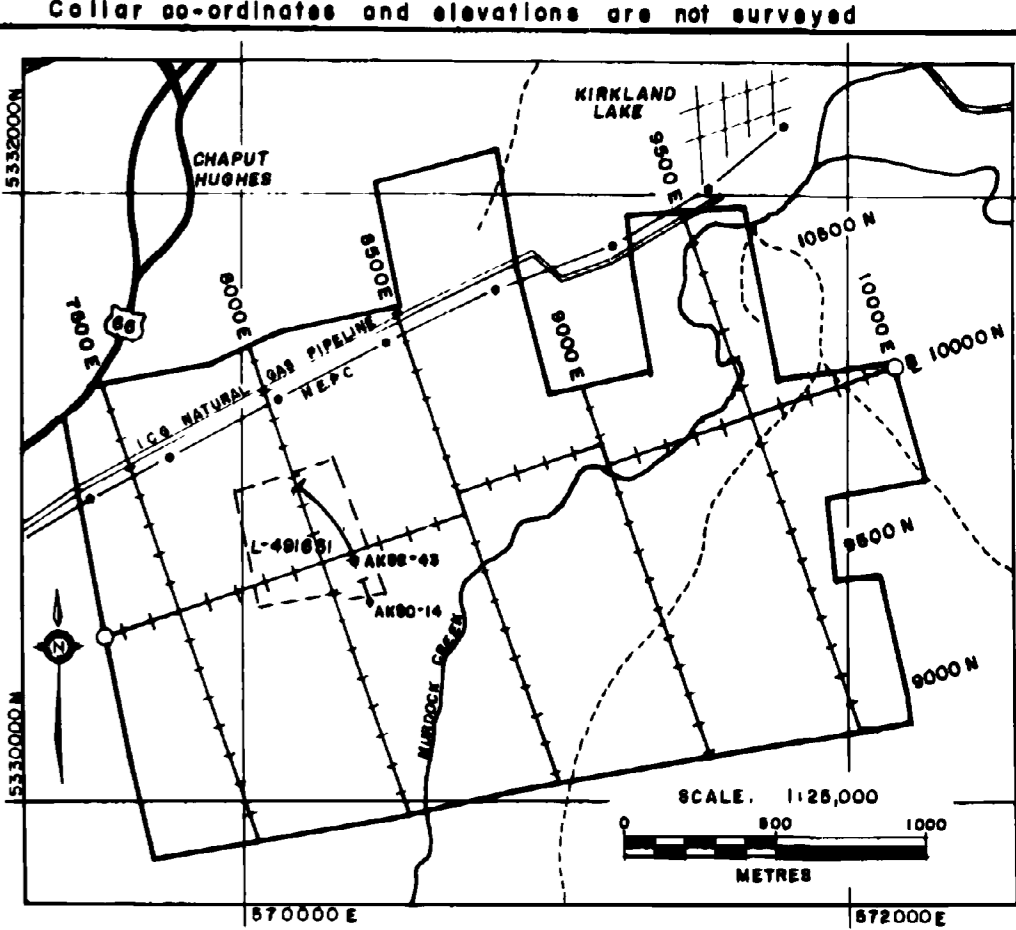
	Bedding, contacts
	Breccia
	Facing direction
	Foliation
	Fault, Fault Zone
	Drag folding
	Pyrite Mineralization

ABBREVIATIONS

agg - augite porphyritic	fp - feldspar porphyritic	qv - quartz vein
amg - amygdales	fsp - feldspar	ser - sericitic
amp - amphibole	gf - graphitic	sil - silicic
ank - ankerite	hem - hematite	sp - sphalerite
bx - breccia	lam - laminated	sh - sheared
ca - calcite	m - massive	sz - shear zone
cb - carbonate	mag - magnetite	trc - trachoidal
ch - chlorite	pb - galena	var - variolitic
cp - chloropyrite	py - pyrite	ves - vesicular
fc - fractured	mo - molybdenite	vg - visible gold
fz - fault zone		



NOTE: Hole AK92-43 is plotted according to downhole directional survey data. (Sperry Sun)
Due to hole deviation downhole measurements will appear foreshortened.



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8100E
HOLES AK90-14
and AK92-43

PROJECT No. 76-JV-28	DATA BY: W. Benham
NTS: 42 A/1	DRAWN BY: B.H. Madill, Tech.
DRAWING No: D.C.-007	DATE: Revised July 1992

SCALE: 1:500



370

LEGEND

60 ALTERATION	20 SEDIMENTS
[61] Siliceous	[21] Conglomerate
[62] Sulfidic	[22] Graywacke
[63] Hematitic	[25] Siltstone
[64] Sulfidic	[26] Mudstone
[65] Carbonatized	
40 INTRUSIVES	10 VOLCANICS
[41] Andesite	[18] Trachytes
[42] Comphyry	[18a] Basalt
[46] Syenite	[18b] Lapilli Tuff
[461] Alkali Syenite	[18c] Block Tuff
[462] Mafic Syenite	[18d] Lithic Tuff
[465] Feldspar Porphyry	[18e] Monolithic Tuff

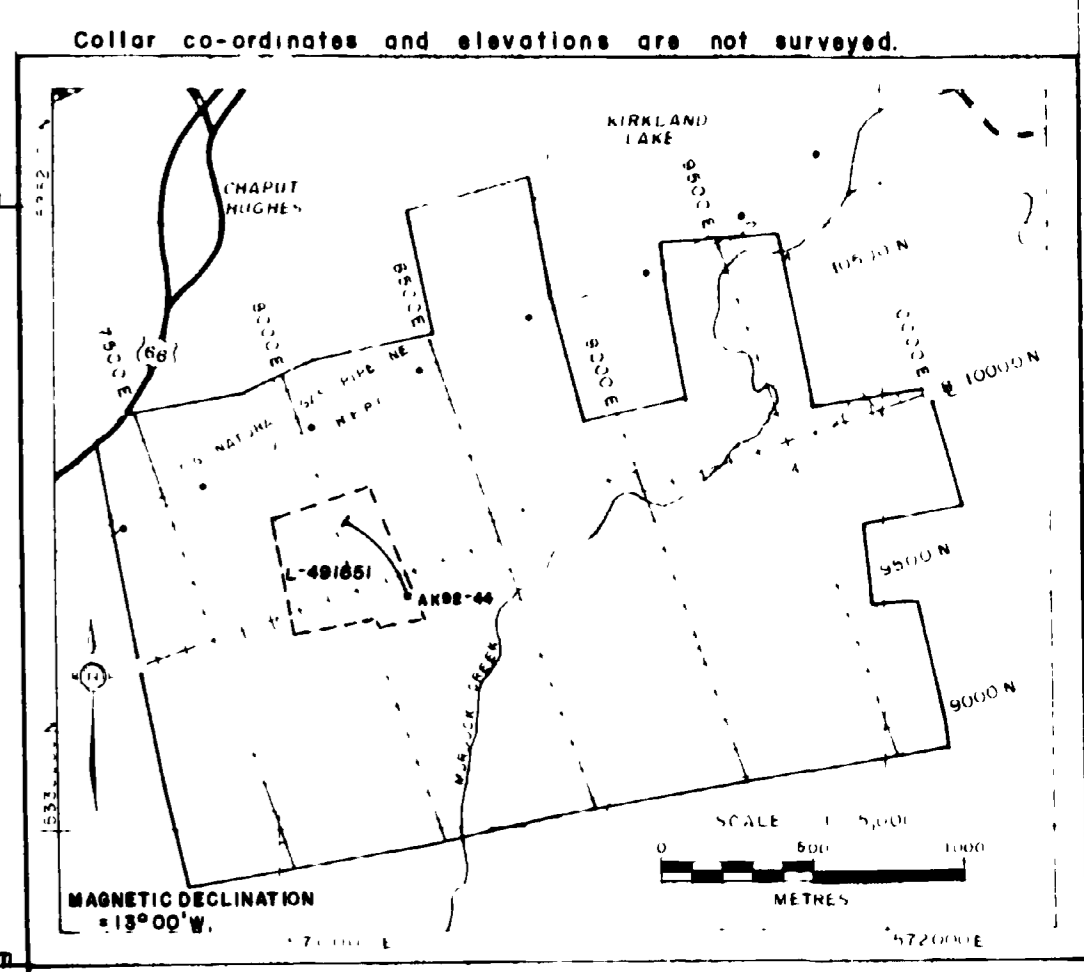
SYMBOLS

---	Bedding, contacts
△	Breccia
→	Flowing direction
→	Indication
---	Fault, fault zone
~	Drag folding
H	Pyrite Mineralization

ABBREVIATIONS

amp	amphibolite	epg	feldspar porphyry	qv	quartz vein
ank	ankite	glt	graphite	sil	siltstone
bx	breccia	hem	hematite	sp	schistosity
ca	calcite	lim	limonite	sh	shale
cl	calcite	m	massive	sz	shear zone
clb	carbonate	mg	magnetite	trc	trace mineral
ch	chert	pb	galena	vif	visible iron
cp	compaction	pk	pyrite	vgs	visible gold
fr	fracture	mu	muonite	vg	visible gold
fz	fault zone				

NOTE: Hole AK92-44 is plotted according to downhole directional survey data. (Sperry Sun)
Due to hole deviation downhole measurements will appear foreshortened.



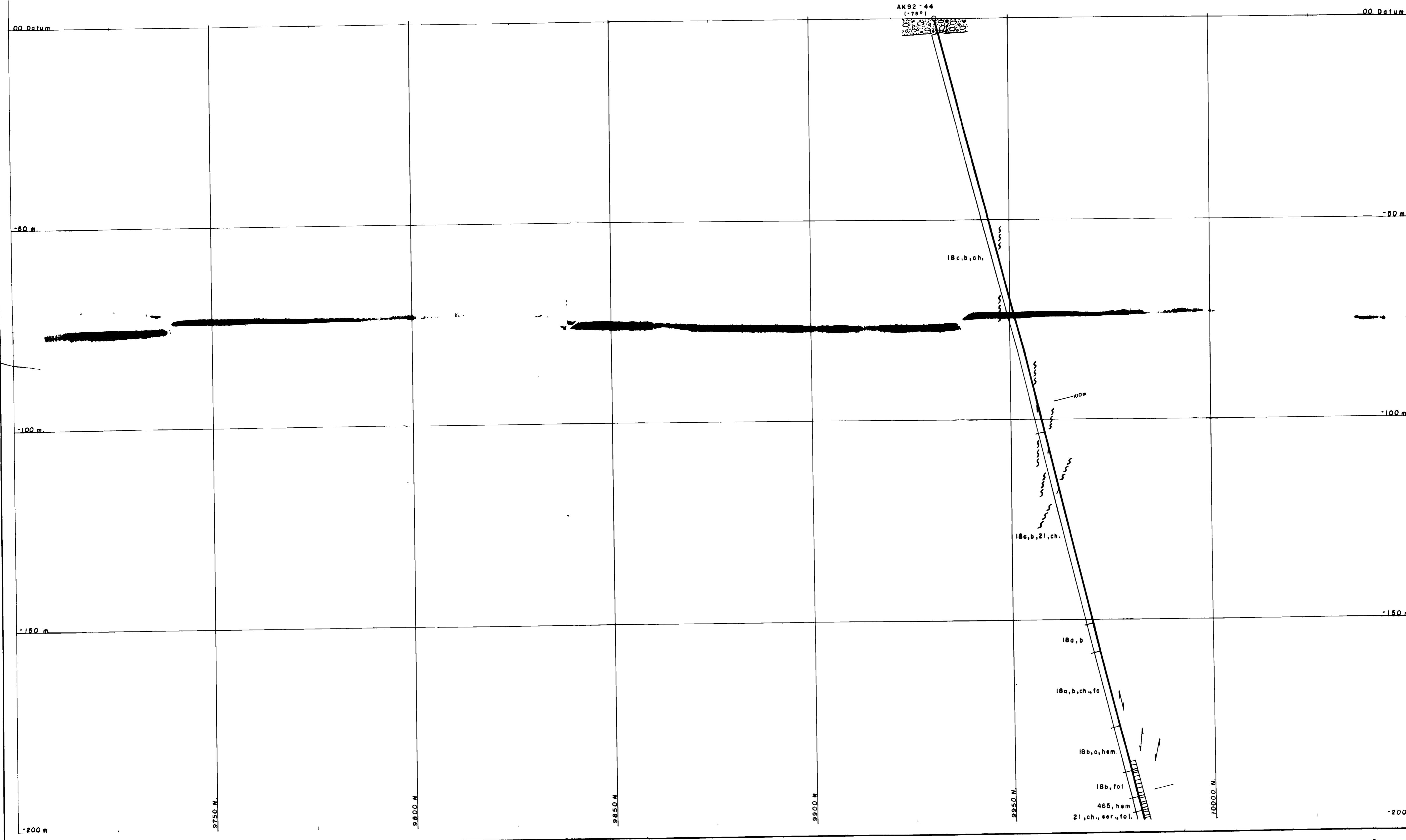
BATTLE MOUNTAIN (CANADA) INC.

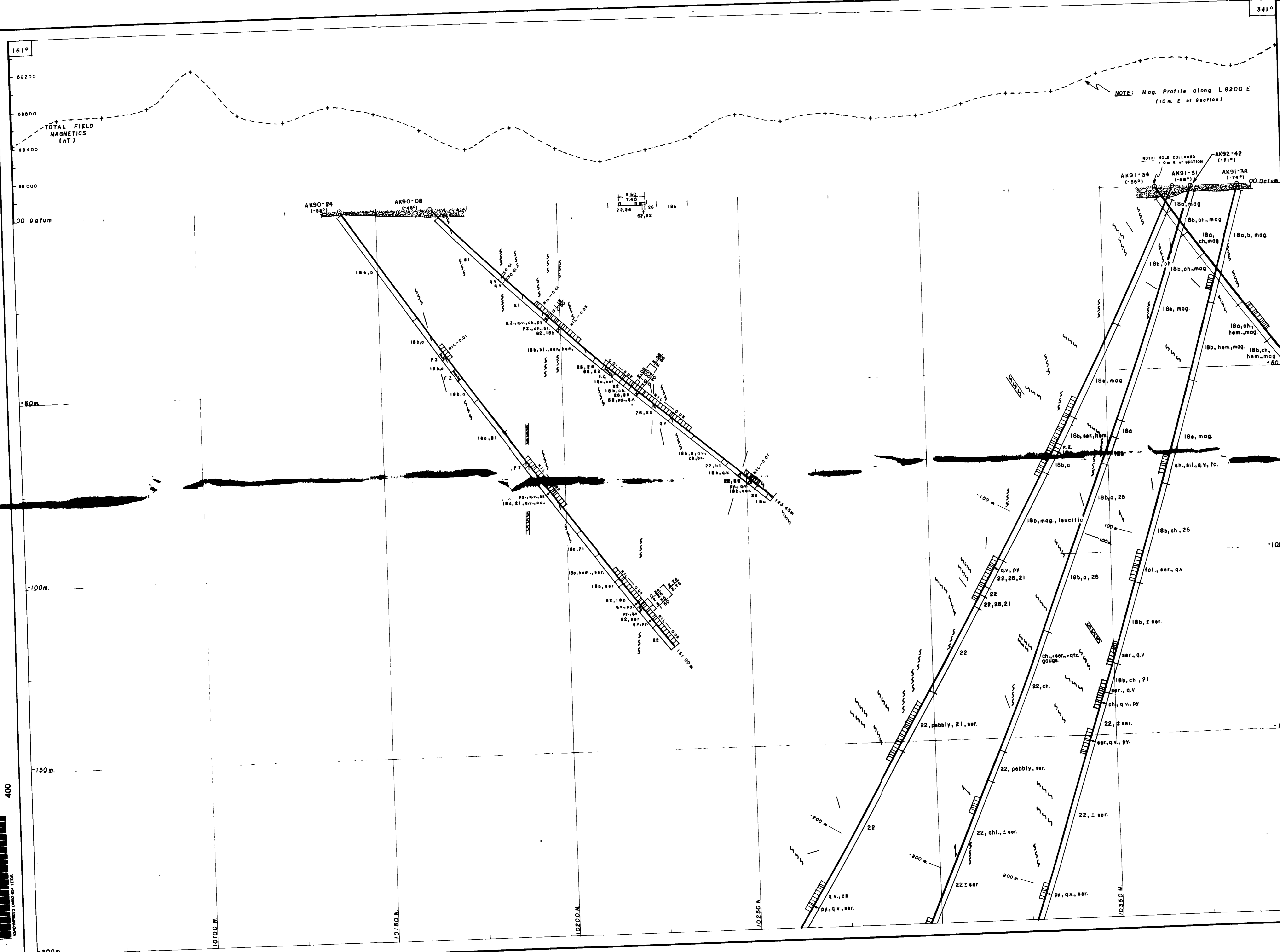
KIRKLAND LAKE PROJECT
Queenston Mining Inc
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8150E
HOLE AK92-44

PROJECT NO. 75 JV-28	DATA BY W. Benham
N.T.S.	DRAWN BY B.H. Madill, Tech
DRAWING NO. DC-066-1 (SHEET 1 of 2)	DATE September 1992

SCALE 1:1800





LEGEND

60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	23 Siltstone
64 Siliceous	24 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
42 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Block Tuff
462 Mafic Syenite	18d Lithic Tuff
463 Feldspar Porphyry	18e Monolithic Tuff
	18f Flow

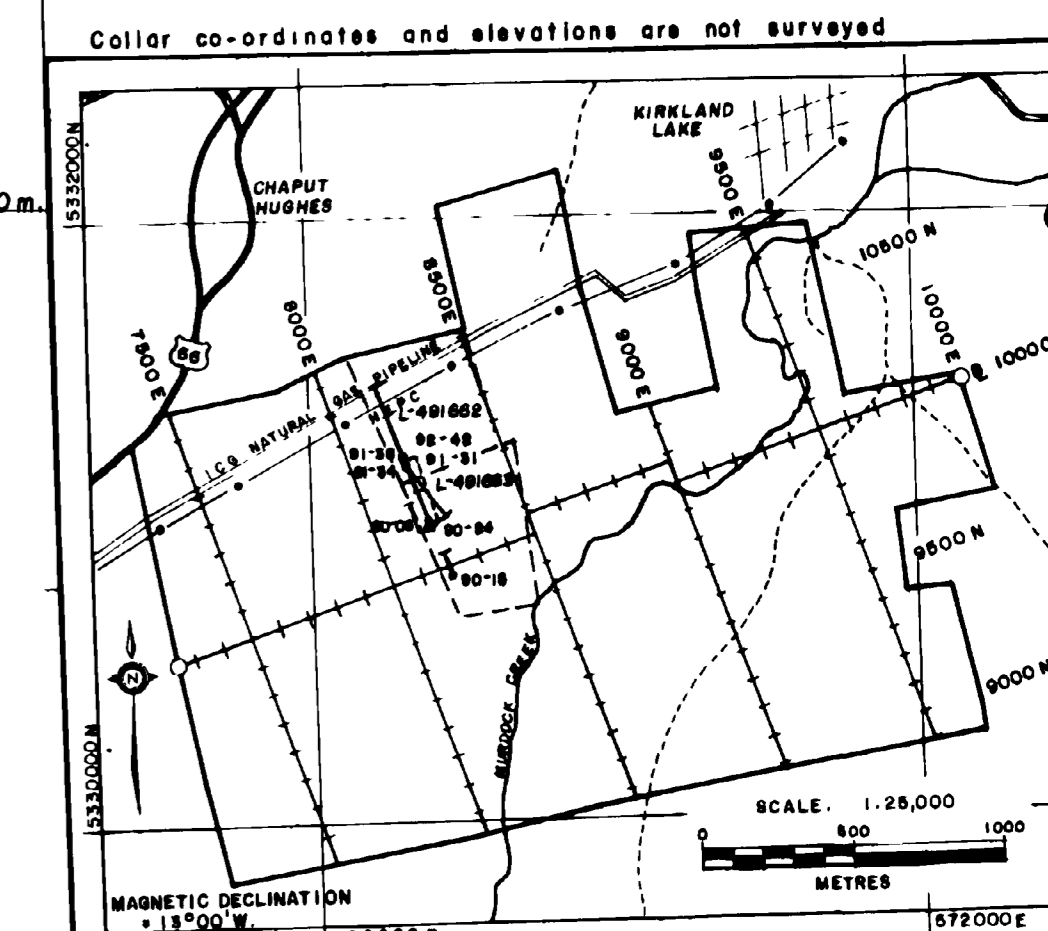
SYMBOLS

- Bedding, contacts
- Breccia
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization

ABBREVIATIONS

agg - augite porphyritic	fp - feldspar porphyritic	qv - quartz vein
amg - amygdules	fsp - feldspathic	ser - sericitic
amp - amphibolite	gf - graphitic	sil - siliceous
ank - ankaramite	ham - hematite	sp - sphalerite
br - breccia	lam - laminated	sh - sheared
ca - calcite	m - massive	sz - shear zone
cb - carbonate	mag - magnetite	trc - trachyte
ch - chlorite	pb - galena	var - varietal
cp - chalcopryite	py - pyrite	ves - vesicular
fc - fractured	mo - molybdenite	vg - visible gold
fz - fault zone	bl - bleached	
fol - foliated		

NOTE: Holes AK91-31, 38 and AK92-42 are assumed to be on section. They have not been according to downhole directional survey data (Sperry Sun) therefore the holes are not foreshortened.



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
 Queenston Mining Inc.
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY

SECTION 8190E
 HOLES AK90-08, 24,
 and AK91-31, 34, 38 and AK92-42

PROJECT No. 75-JV-28	DATA BY: W. Benham, M. Masson
NTS: 42 A/1	DRAWN BY: B.H. Madill, Tech.
DRAWING No. DC-010-1 (SHEET 1 of 3)	DATE: Revised July, 1992

SCALE: 1:500



LEGEND

60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	10 VOLCANICS
40 INTRUSIVES	18 Trachytes
41 Diabase	18a Ash Tuff
412 Lamprophyre	18b Lapilli Tuff
46 Syenite	18c Black Tuff
461 Augite Syenite	18d Lithic Tuff
462 Mafic Syenite	18e Monolithic Tuff
468 Feldspar Porphyry	18f Flow

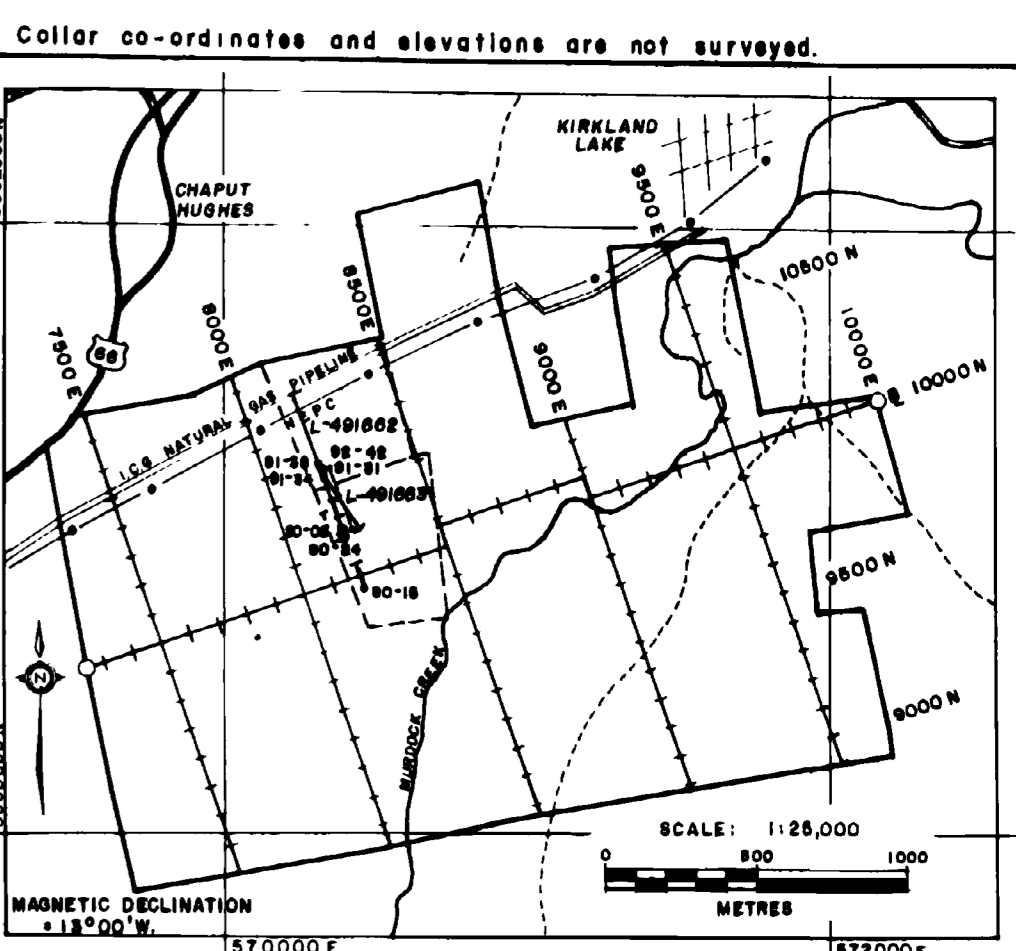
SYMBOLS

Bedding, contacts	1:50 3/1 1/4
Breccia	2:0 1:0
Facing direction	3:0 2:0
Foliation	4:0 3:0
Fault, Fault Zone	5:0 4:0
Drag folding	6:0 5:0
Pyrite Mineralization	7:0 6:0

ABBREVIATIONS

app - augite porphyritic	fp - feldspar porphyritic	qv - quartz vein
amg - amygdales	fsp - feldspathic	ser - sericitic
amp - amphibolite	gf - graphite	sil - silicic
cnk - cancrinite	ham - hematite	sp - sphalerite
br - breccia	lam - laminated	sh - shales
ca - calcite	m - massive	sz - shear zone
cb - carbonates	mag - magnetite	trc - trachoidal
ch - chlorite	gal - galena	var - variolitic
cp - chloropyrite	py - pyrite	vas - vasclastic
fc - fractured	mo - molybdenite	vg - visible gold
fz - fault zone	alb - albite	bl - bleached

NOTE: Holes AK91-31, 38 and AK92-42 are assumed to be on section. They have not been according to down hole directional survey data (Sperry Sun) therefore the holes are not foreshortened.



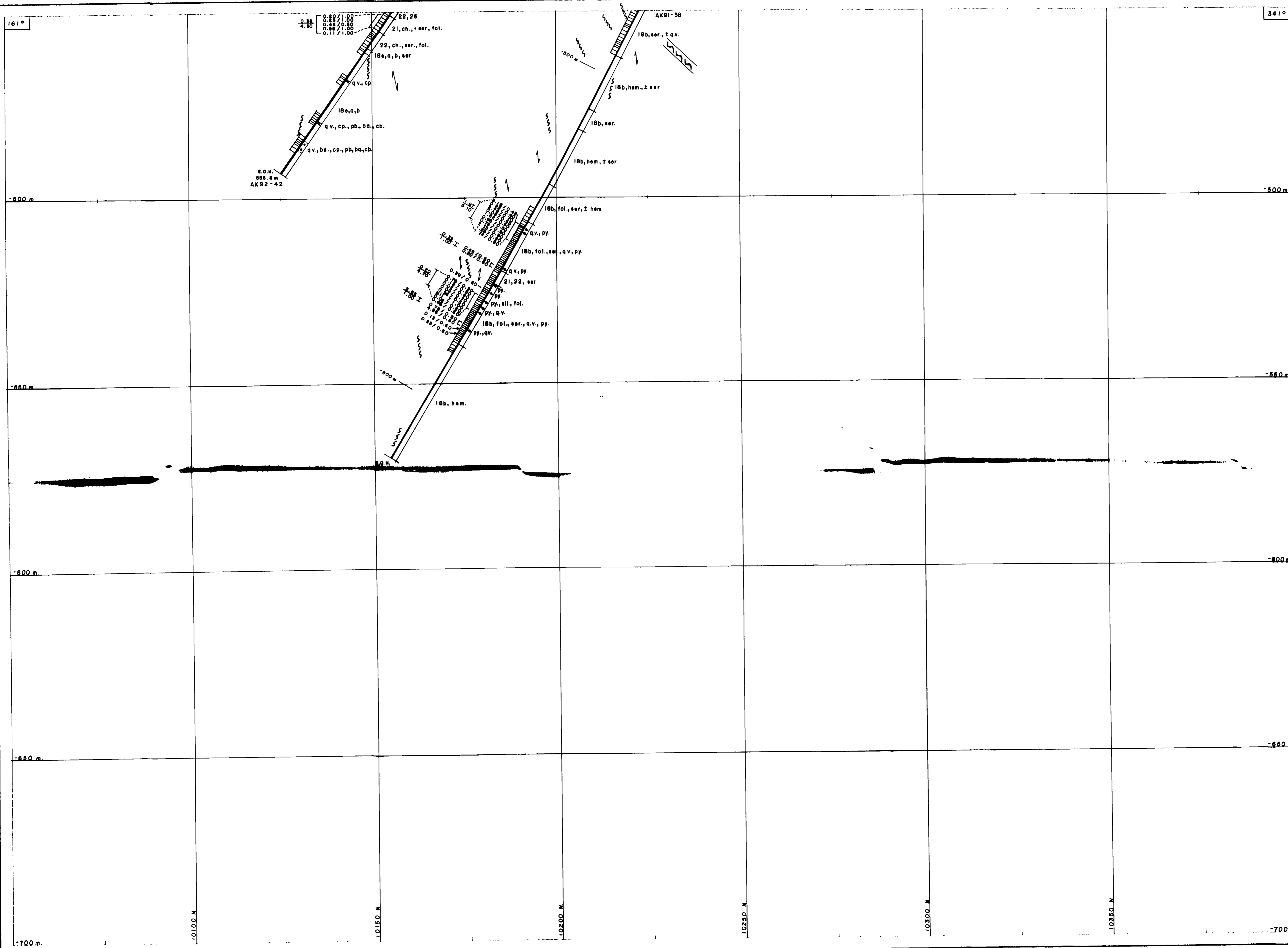
BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8190 E
HOLES AK91-31, 38
and AK92-42

PROJECT No.: 75-JV-28	DATA BY: M. Mason, W. Benham
NTS: 42 A/1	DRAWN BY: B.H. Madill, Tech.
DRAWING No: DC-010-2 (SHEET 2 of 3)	DATE: Revised July, 1992

SCALE: 1:1500



LEGEND

60 ALTERATION	20 SEDIMENTS
61 Chlorite	21 Conglomerate
62 Sericite	22 Graywacke
63 Hematite	25 Siltstone
64 Silica	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachyte
412 Lamprophyre	18a Ash tuff
46 Syenite	18b Lapilli tuff
461 Augite Syenite	18c Block tuff
462 Mafic Syenite	18d Lithic tuff
465 Feldspar Porphyry	18e Monolithic tuff

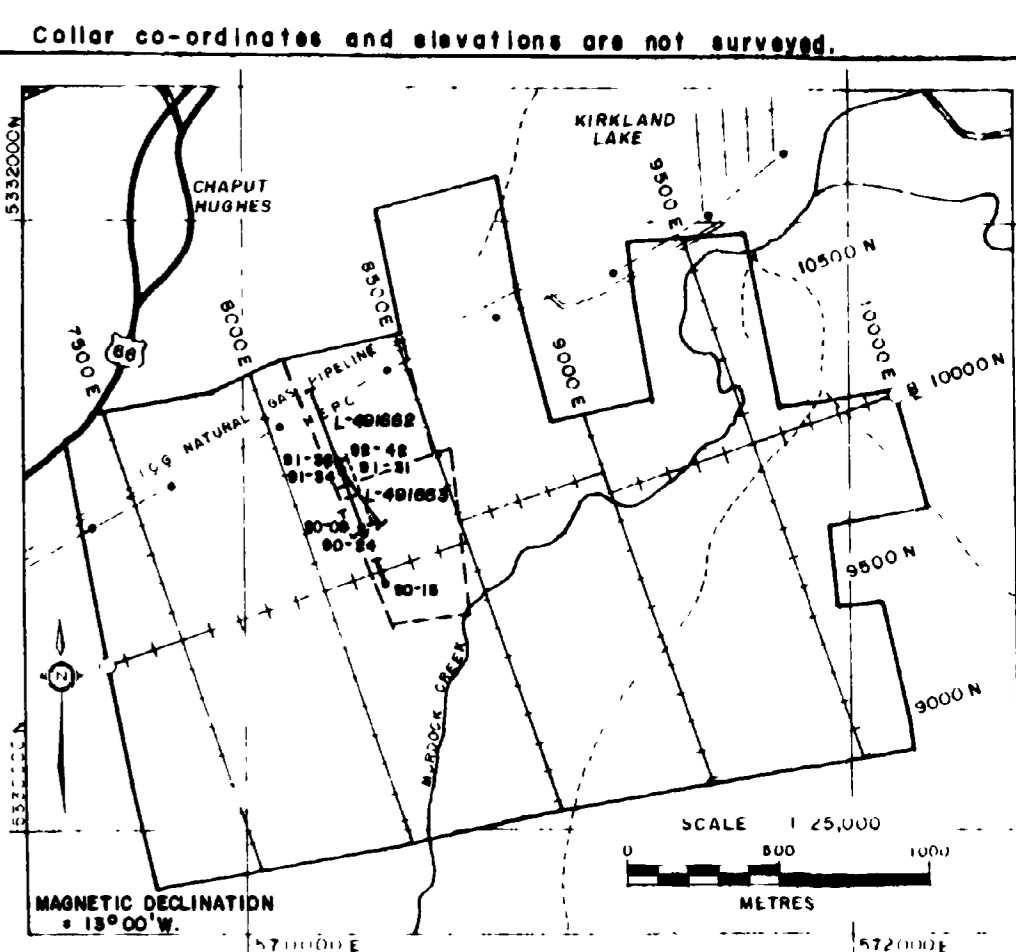
SYMBOLS

	Bedding, contacts
	Breccia
	Facing direction
	Foliation
	Fault, fault zone
	Drag folding
	Pyrite Mineralization

ABBREVIATIONS

agp - augite porphyritic	fp - feldspar porphyritic	qv - quartz vein
amg - amygdule	fsp - feldspathic	ser - sericitic
amp - amphibolite	gf - graphitic	sil - silicic
ank - ankerite	hem - hematite	sp - sphalerite
bx - breccia	lam - laminated	sh - sheared
ca - calcite	m - massive	sz - shear zone
cb - carbonate	mag - magnetite	trc - trachoidal
ch - chlorite	pb - galena	var - varietal
cp - chalcopyrite	py - pyrite	ves - vesicular
fc - fractured	mo - molybdenite	vg - visible gold
fz - fault zone	ba - barite	

NOTE: Holes AK91-38 and AK92-42 are assumed to be on a section. They have not been according to downhole directional survey data (Sperry Sun) therefore the holes are not foreshortened.



BATTLE MOUNTAIN (CANADA) INC.

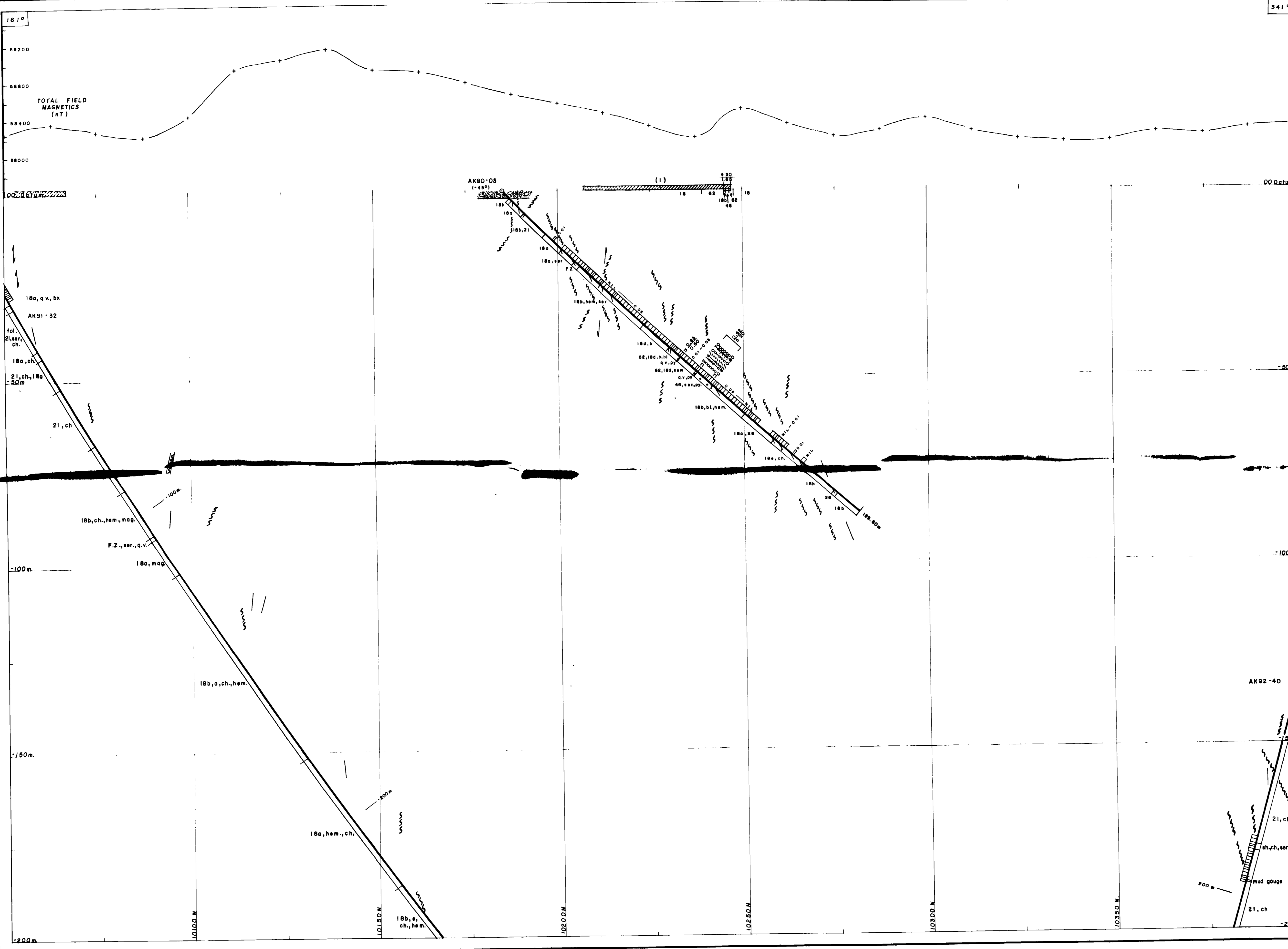
KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8190E
HOLES AK91-38
and AK92-42

PROJECT No. 75-10-28	DATA BY M. Mosson, W. Benham
NTS	DRAWN BY B.H. Madill, Tech.
DRAWING No. DC-010-3 (SHEET 3 of 3)	DATE Revised July, 1982

SCALE 1:800





LEGEND

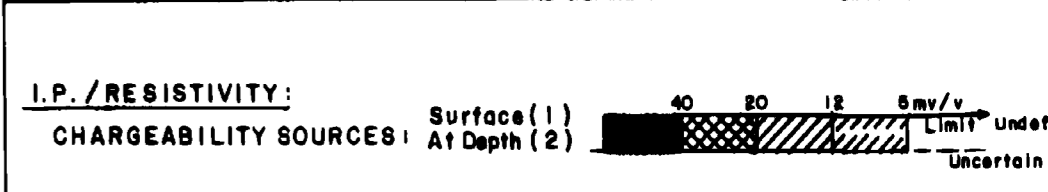
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hamatitic	23 Siltstone
64 Silicic	24 Mudstone
65 Carbonatized	10 VOLCANICS
40 INTRUSIVES	18 Trachytes
41 Diabase	18a Ash Tuff
42 Lamprophyre	18b Lapilli Tuff
46 Syenite	18c Block Tuff
461 Augite Syenite	18d Lithic Tuff
462 Mafic Syenite	18e Monolithic Tuff
463 Feldspar Porphyry	

SYMBOLS

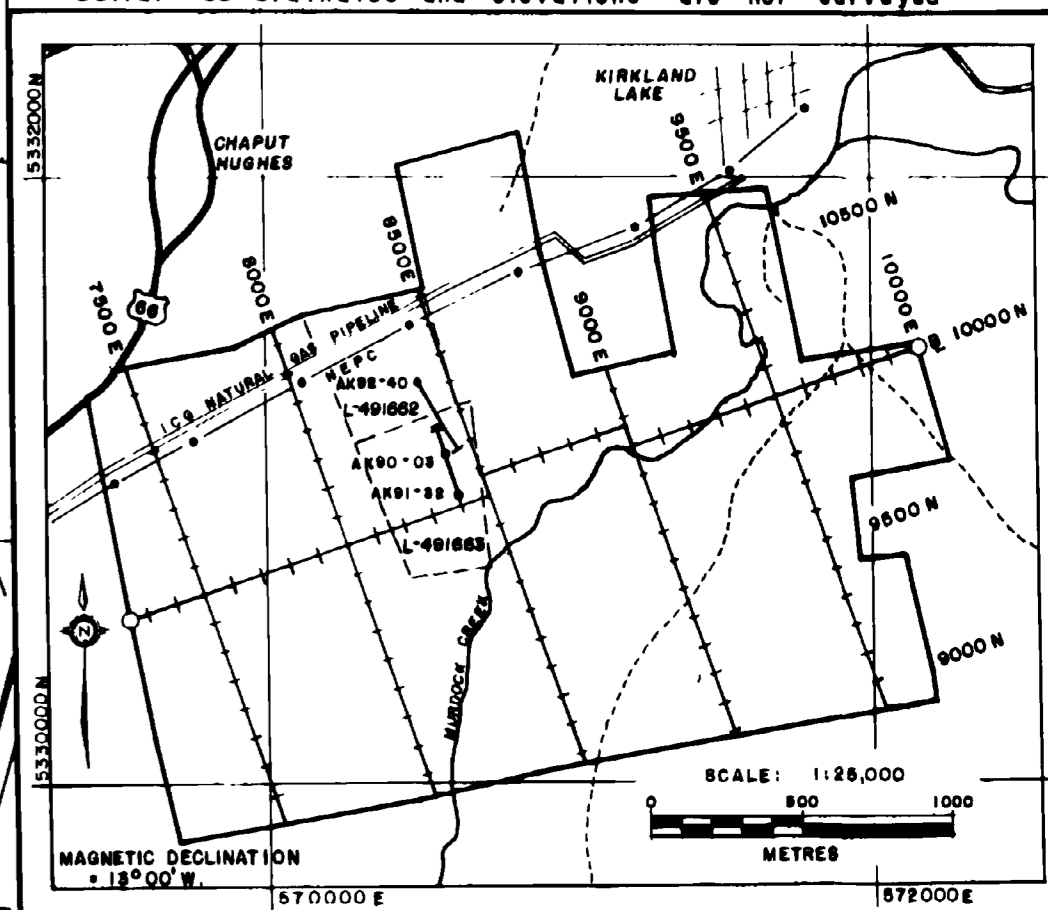
	Bedding, contacts
	Breccia
	Facing direction
	Foliation
	Fault, Fault Zone
	Drag folding
	Pyrite Mineralization

ABBREVIATIONS

agp - augite porphyritic	fp - feldspar porphyritic	qv - quartz vein
amg - amygdales	fsp - feldspathic	ser - sericitic
amp - amphibolite	gf - graphitic	sil - silicic
ank - ankerite	hem - hematite	sp - sphalerite
bx - breccia	lam - laminated	sh - sheared
cd - calcite	m - massive	sz - shear zone
cb - carbonates	mag - magnetite	trc - trachoidal
ch - chlorite	pb - galena	var - variolite
cp - chloropyrite	py - pyrite	ves - vesicular
fc - fractured	mo - molybdenite	vg - visible gold
fz - fault zone	bl - bleached	



Collar co-ordinates and elevations are not surveyed



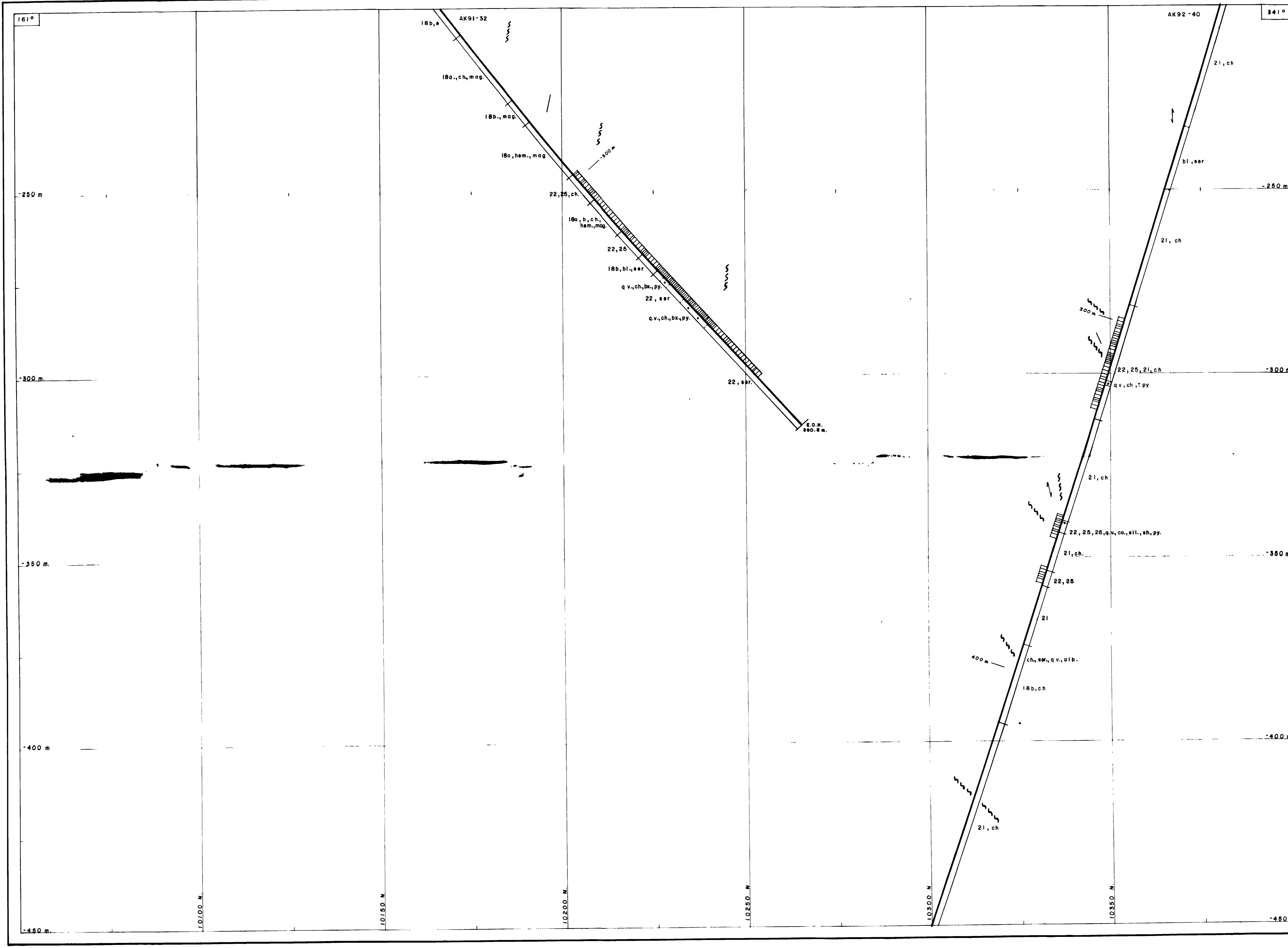
BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8400E
HOLES AK90-03, AK91-32 and AK92-40

PROJECT No: 75-JV-28	DATA BY: W. Benham
NTS: 42 A/1	DRAWN BY: B.H. Madill, Tech.
DRAWING No: DC-017-1 (SHEET 1 of 3)	DATE: May, 1992

SCALE: 1:1500



LEGEND

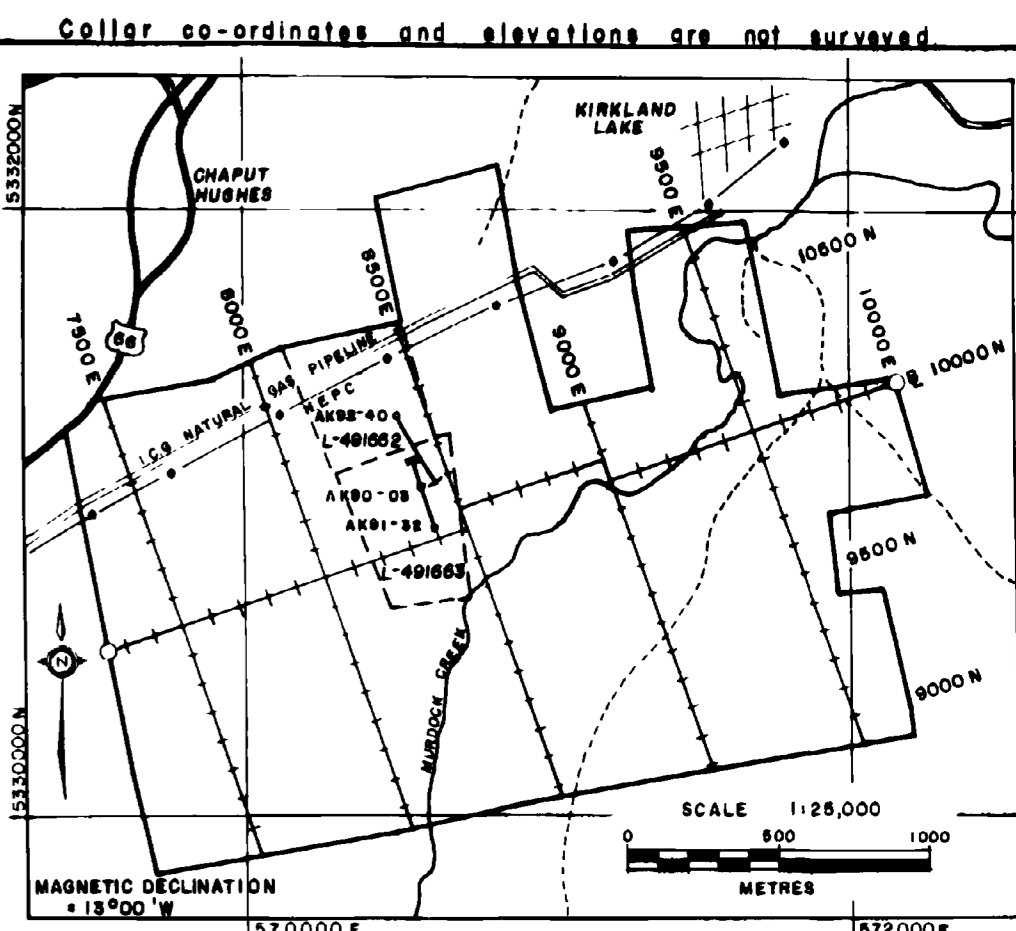
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	10 VOLCANICS
40 INTRUSIVES	18 Trachytes
41 Diabase	18a Ash Tuff
42 Lamprophyre	18b Lapilli Tuff
46 Syenite	18c Block Tuff
461 Augite Syenite	18d Lithic Tuff
462 Mafic Syenite	18e Monolithic Tuff
465 Feldspar Porphyry	

SYMBOLS

Bedding, contacts	Pyrite Mineralization
Breccia	
Facing direction	
Foliation	
Fault, Fault Zone	
Drag folding	

ABBREVIATIONS

agg - augite porphyritic	fp - feldspar porphyritic	qv - quartz vein
amg - amygdules	fsp - feldspathic	ser - sericitic
amp - amphibolite	gf - graphitic	sil - siliceous
ank - ankerrite	hem - hematite	sp - sphalerite
bx - breccia	lam - laminated	sh - sheared
ca - calcite	m - massive	sz - shear zone
cb - carbonate	mag - magnetite	trc - trachoid
ch - chlorite	pb - galena	var - varietal
cp - chlorophyllite	py - pyrite	ves - vesicular
fc - fractured	mo - molybdenite	vg - visible gold
fz - fault zone	alb - albite	



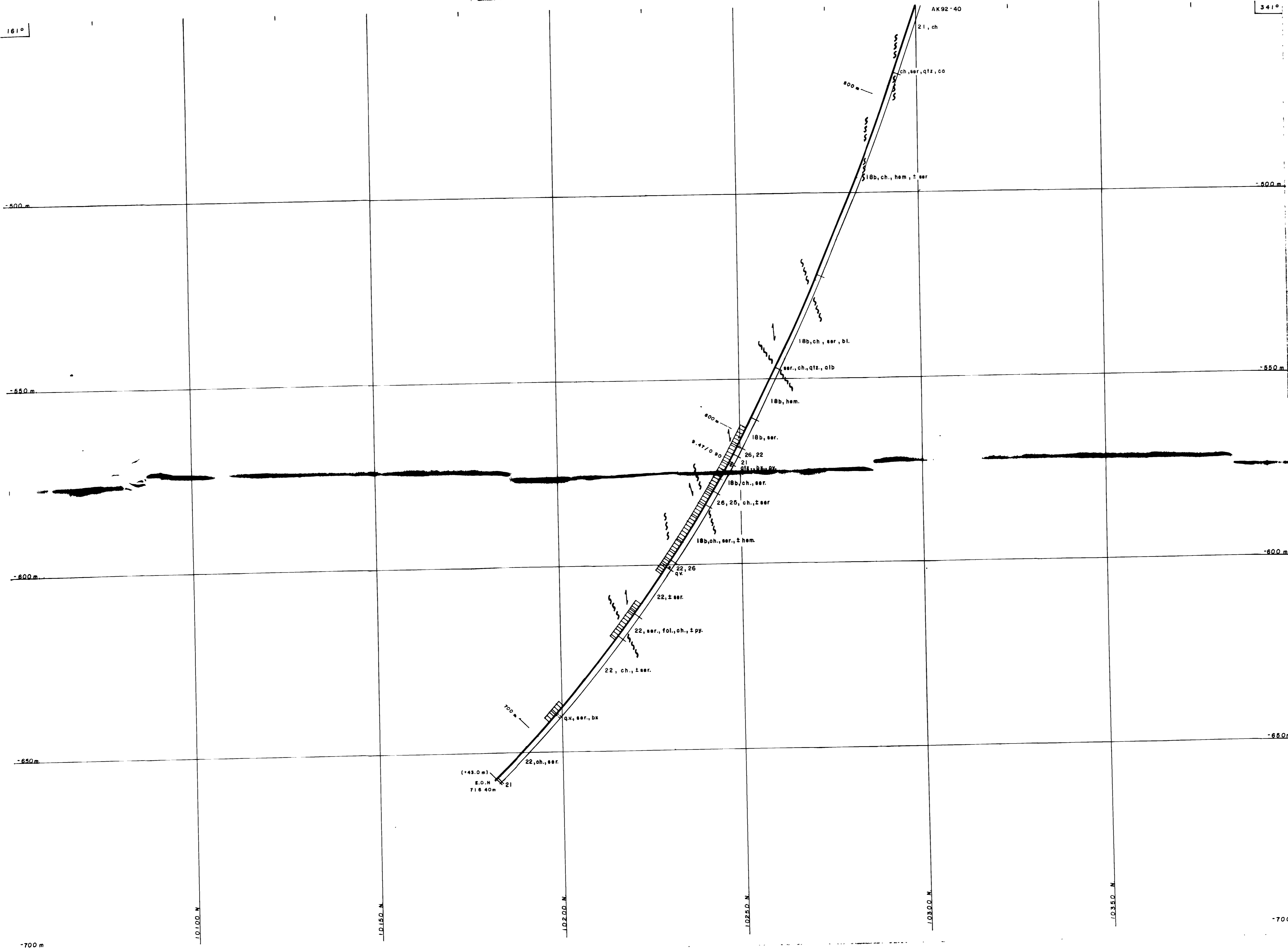
BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8400 E
HOLES AK91-32
and AK92-40

PROJECT No 76-JV-28	DATA BY: M. Masson, W. Benham
NTS. 42 A/1	DRAWN BY: B.H. Madill, Tech
DRAWING No: DC-D17-2 (SHEET 2 of 3)	DATE: May, 1982

SCALE: 1:1500



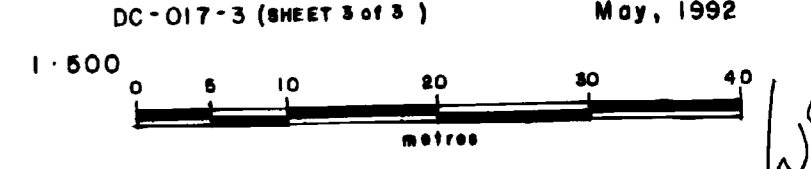
qtz. - quartz
bl. - bleached
alb - albite
fol. - foliated

Collar co-ordinates and elevations are not surveyed.

MAGNETIC DECLINATION
+13°00' W.

SECTION 8400E
HOLE AK92-40

M. Masson, W. Benham
B.H. Madill, Tech
May, 1992



(*43.0 m)
E.O.N
71 8 40m



161°

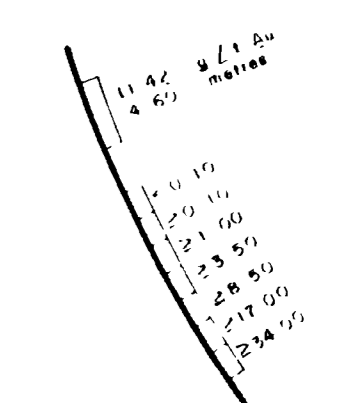
341°

LEGEND

- | | |
|-------------------------|-----------------------|
| 60 ALTERATION | 20 SEDIMENTS |
| [61] Chlorite | [21] Conglomerate |
| [62] Sericite | [22] Graywacke |
| [63] Hematite | [23] Siltstone |
| [64] Siderite | [24] Mudstone |
| [65] Carbonatized | |
| 40 INTRUSIVES | 10 VOLCANICS |
| [41] Diabase | [10] Trachyte |
| [42] Lamprophyre | [10a] Ash tuff |
| [46] Syenite | [10b] Lapilli tuff |
| [46a] Augite Syenite | [10c] Block tuff |
| [46b] Mafic Syenite | [10d] Lithic tuff |
| [46c] Feldspar Porphyry | [10e] Monolithic tuff |

SYMBOLS

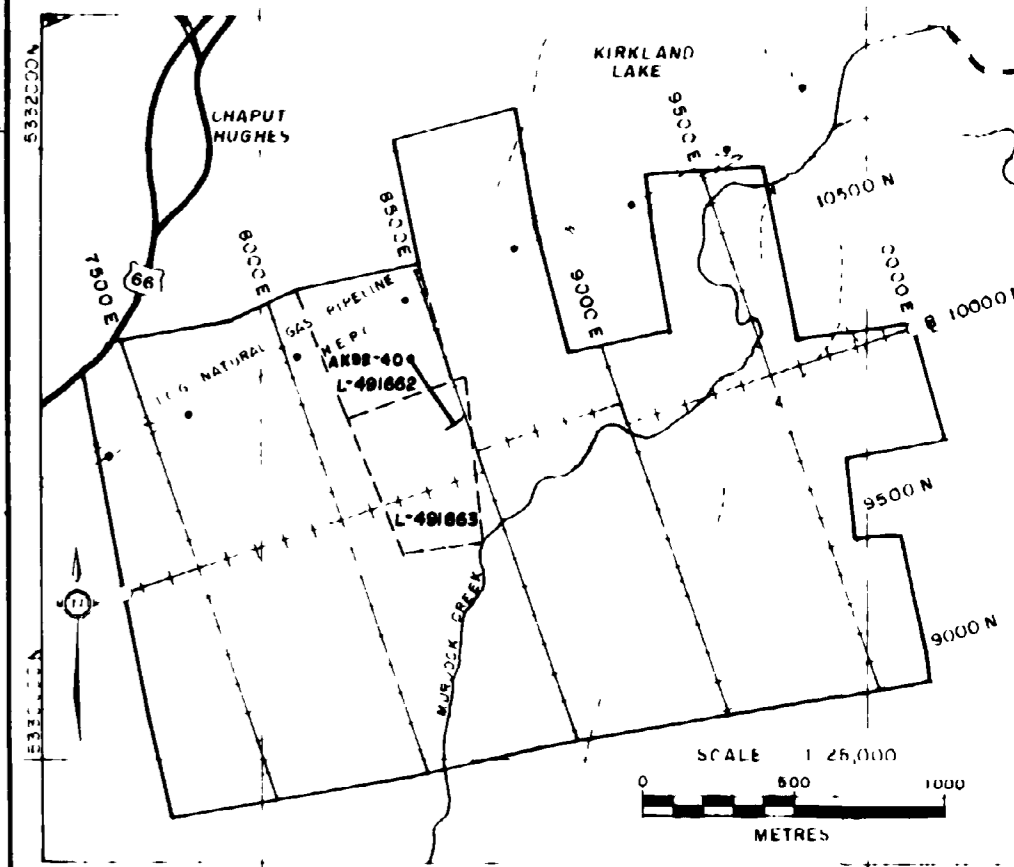
- Bedding, contacts
- Break
- Facing direction
- Substation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization



ABBREVIATIONS

agp - augite porphyry	fp - feldspar porphyry	qv - quartz vein
amg - amphibolite	fsp - feldspathic	scr - schist
amp - amphibole	qt - quartzite	sl - siltstone
ank - ankerite	hem - hematite	sp - sandstone
bx - breccia	lum - lamination	sh - shales
cd - calcite	m - massive	sz - shear zone
cb - carbonate	mag - magnetite	trc - trace fossil
ch - chlorite	pb - galena	vor - vugular
cp - chlorophane	py - pyrite	ves - vesicular
fr - fracture	md - mudstone	vg - veinlike gold
fz - fault zone	bl - bleached	qtz - quartz
alb - albite		

Collar co-ordinates and elevations are not surveyed

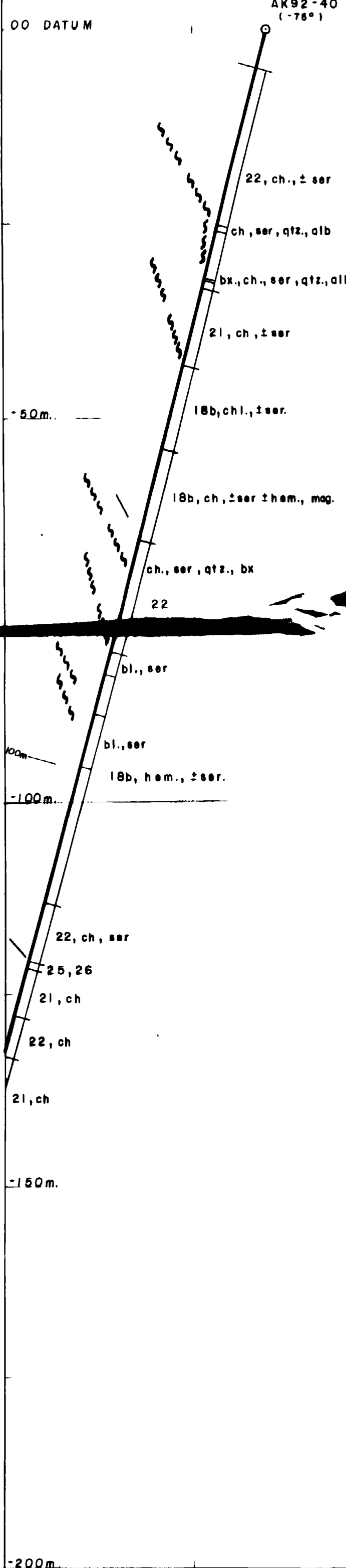
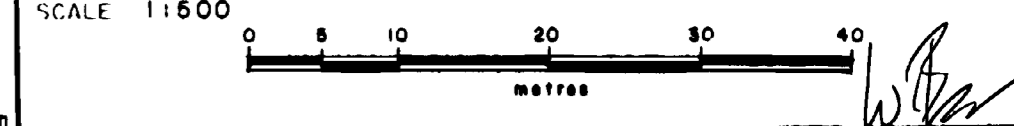


BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
 Queenston Mining Inc
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY

SECTION 8400
 HOLE AK92-40

PROJECT No	75 - JV - 20	DATA BY	M. Masson / W. Benham
NTS	4 / A / 1	DRAWN BY	B. M. Madill, Tech
DRAWING No	DC-065	DATE	May, 1992



460
UNIVERSITY OF TORONTO LIBRARY

251°

071°

LEGEND

(Hole No.)
 31 ○ $\frac{5.15}{9.70} \left(\frac{g/t Au}{metres} \right)$ 43 ○? Interpreted location of zone uncertain

2.98/5.03/45m
 Surface Channel Sampling
 g/t Au/width/length

"102" ZONE

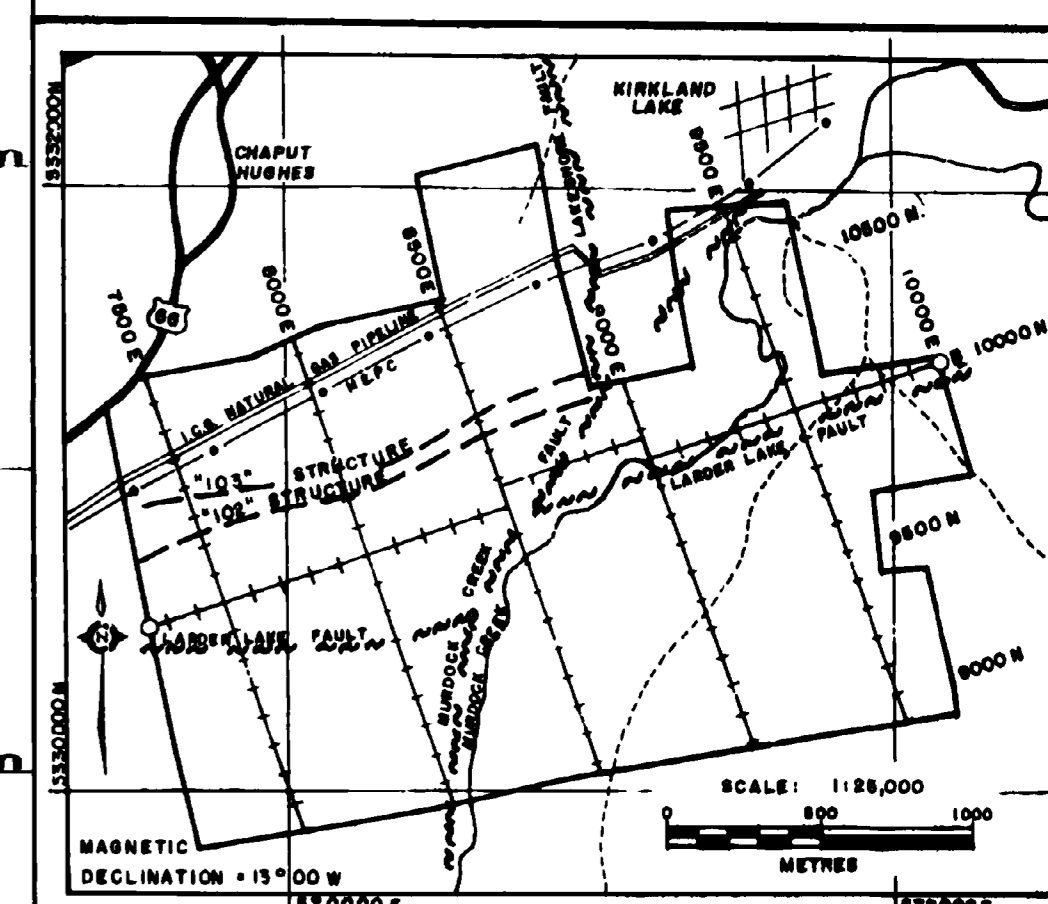
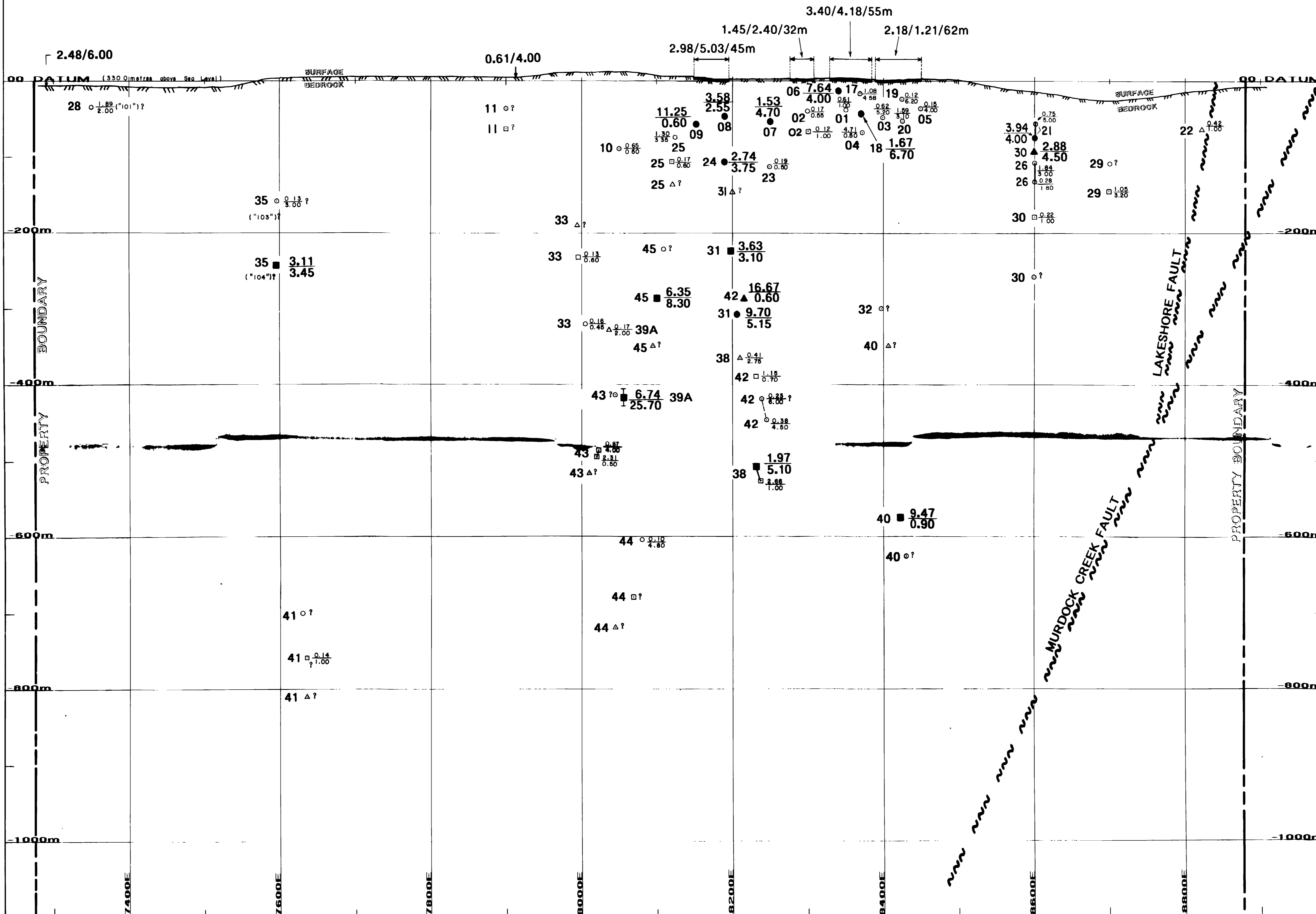
- >6.00g/t Au x metres
- No Significant Intersection

"103" ZONE

- >6.00g/t Au x metres
- No Significant Intersection

"104" ZONE

- ▲ >6.00g/t Au x metres
- △ No Significant Intersection

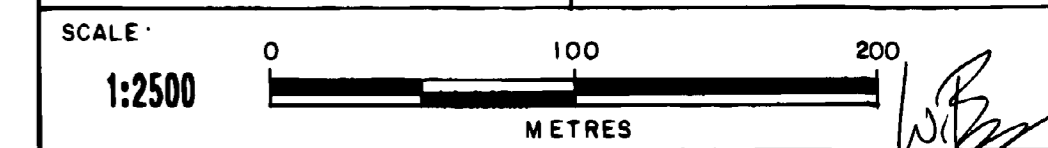


BATTLE MOUNTAIN (CANADA) INC.



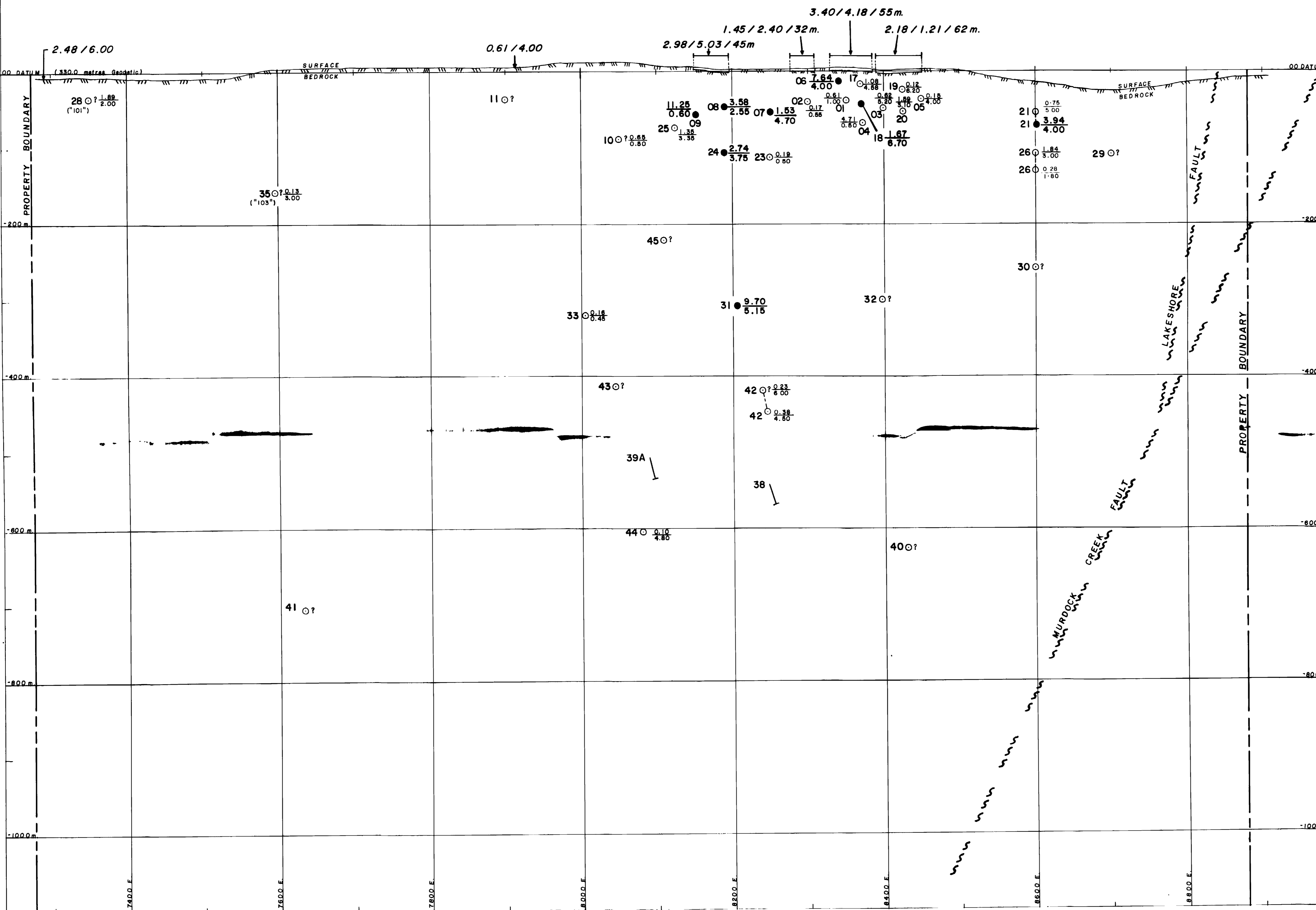
KIRKLAND LAKE PROJECT
 Queenston Mining Inc.
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY
 "102"/"103"/"104" AU ZONES
 LONGITUDINAL SECTION

PROJECT No.	75-JV-28	DATA BY:	W. Benham / M. Masson
NTS	42 A / 1	DRAWN BY:	B.H. Modill, Tech.
DRAWING No.	DL-008	DATE	Revised Sept., 1992



251°

071°



LEGEND

- | | |
|------------------------------------|---------------------|
| 60 ALTERATION | 20 SEDIMENTS |
| 61 Chloritic | 21 Conglomerate |
| 62 Sericitic | 22 Graywacke |
| 63 Hematitic | 23 Siltstone |
| 64 Silicic | 24 Mudstone |
| 65 Carbonatized | 10 VOLCANICS |
| 40 INTRUSIVES | 11 Trachytes |
| 41 Diabase | 11a Ash Tuff |
| 42 Lamprophyre | 11b Lapilli Tuff |
| 43 Syenite | 11c Block Tuff |
| 43a Augite Syenite | 11d Lithic Tuff |
| 43b Mafic Syenite | 11e Monolithic Tuff |
| 43c Feldspar Porphyry | 11f Flow |
| 43d Hornblende - Feldspar Porphyry | |

(Hole No.)
 31 @ 9.70 (g/t Au)
 MIDPOINT OF INTERSECTION 5.15 (metres)

32 @? Interpreted location of zone uncertain.

2.98/5.03/45m (g/t Au/width/length)

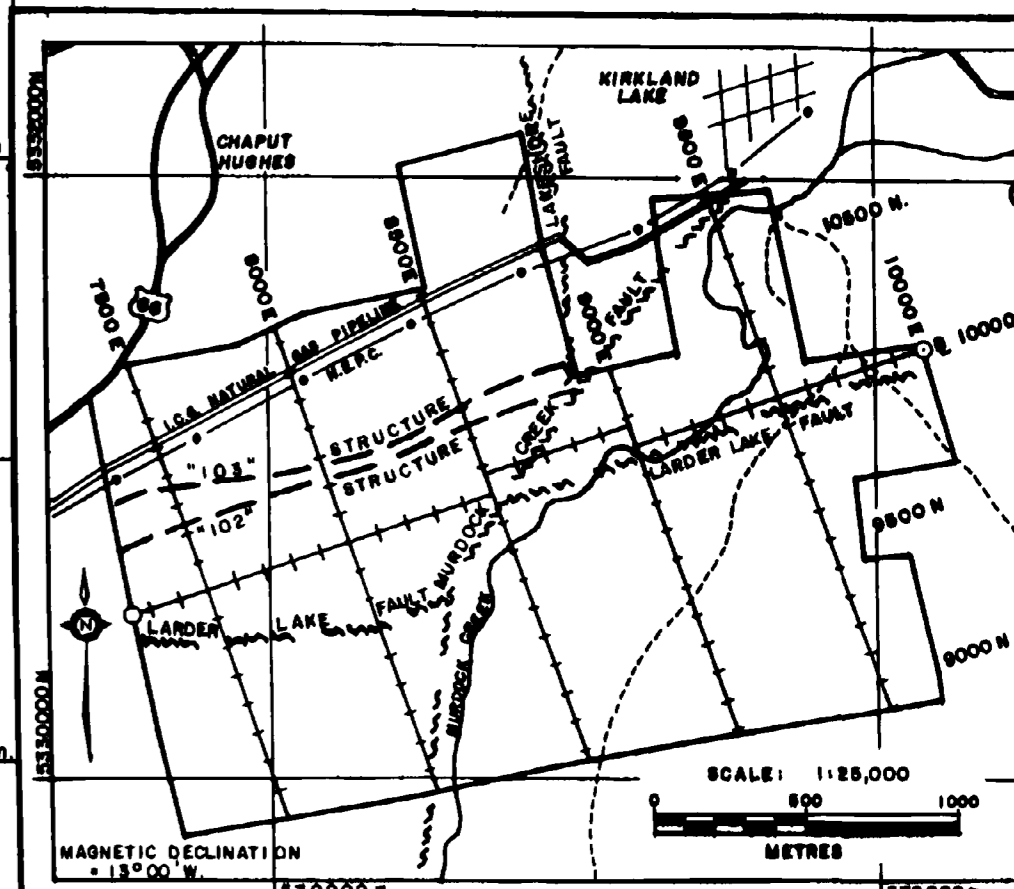
SURFACE CHANNEL SAMPLING

"102" ZONE

● > 6.00 g/t Au x metres

○ No Significant Intersection

38 | Hole too short to intersect the "102" zone



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
 Queenston Mining Inc.
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY
"102" ZONE
 LONGITUDINAL SECTION

PROJECT No.: 75-JV-28	DATA BY: W. Benham/M. Masson
NTS 42 A/1	DRAWN BY: B.H. Madill
DRAWING No.: DL-006	DATE: Revised Sept., 1992

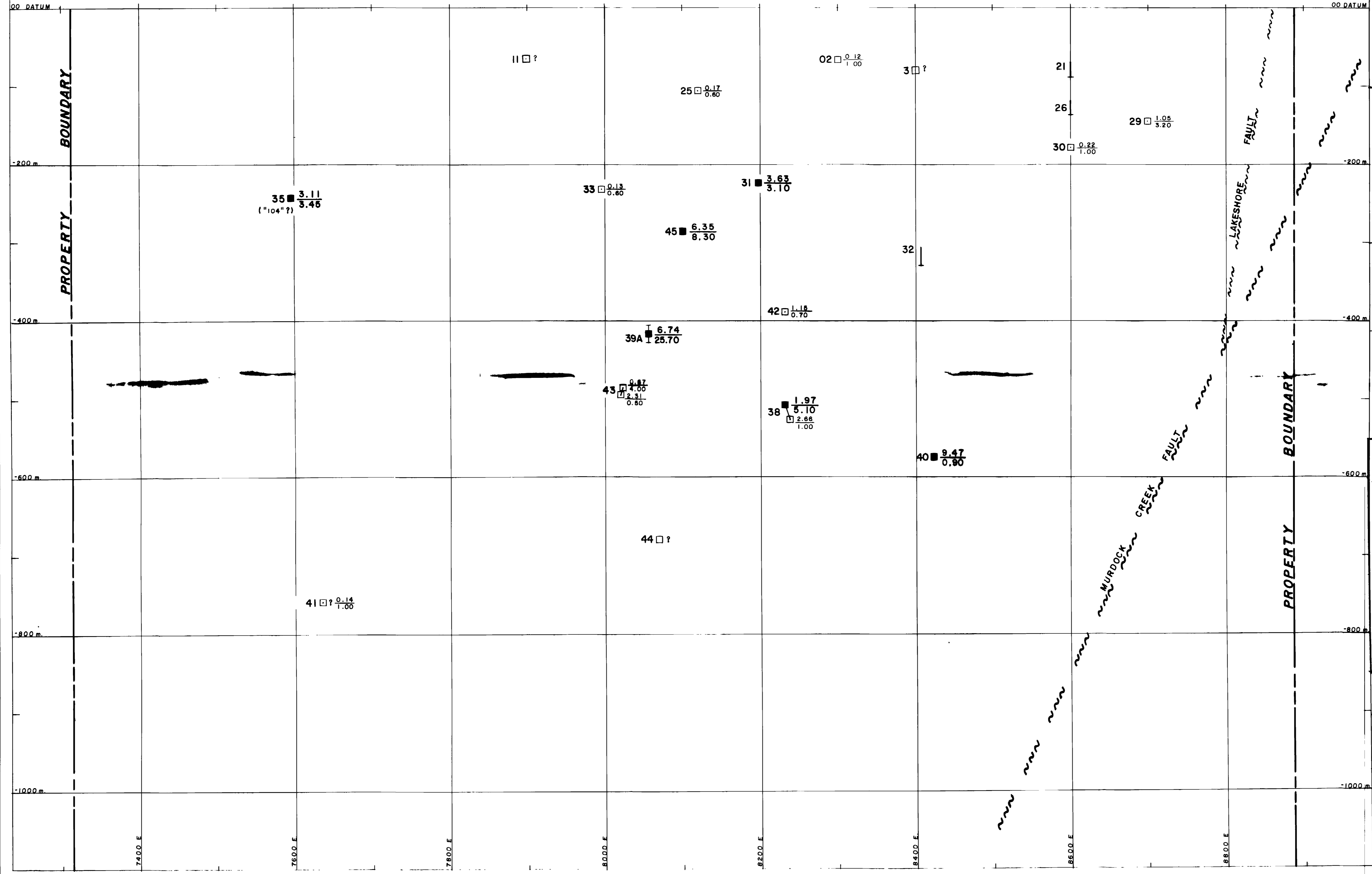
SCALE: 1:2500

251°

071°

LEGEND

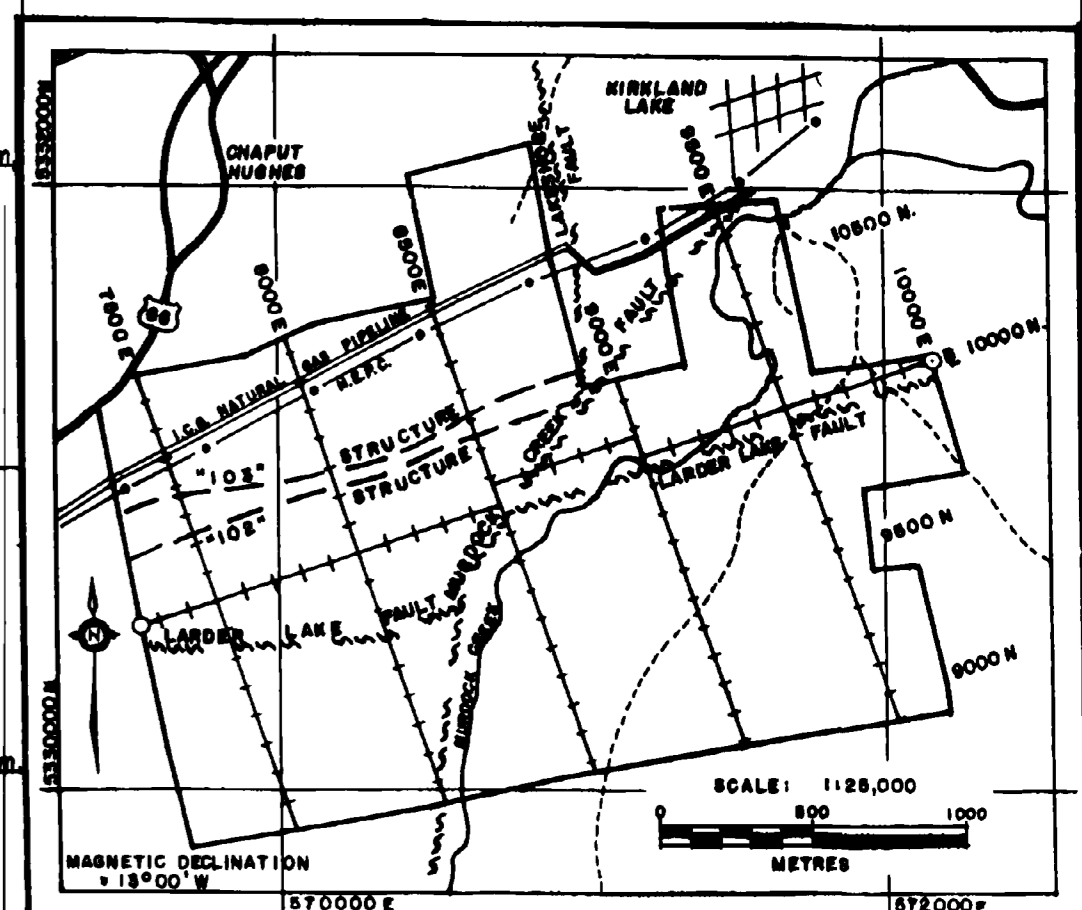
- | | |
|----------------------------------|---------------------|
| 60 ALTERATION | 20 SEDIMENTS |
| 61 Chloritic | 81 Conglomerate |
| 62 Sericitic | 82 Graywacke |
| 63 Hematitic | 83 Siltstone |
| 64 Silicic | 84 Mudstone |
| 65 Carbonatized | 10 VOLCANICS |
| 40 INTRUSIVES | 18 Trachytes |
| 41 Diabase | 18a Ash Tuff |
| 42 Lamprophyre | 18b Lapilli Tuff |
| 46 Syenite | 18c Block Tuff |
| 461 Augite Syenite | 18d Lithic Tuff |
| 462 Mafic Syenite | 18e Monolithic Tuff |
| 460 Feldspar Porphyry | 18f Flow |
| 465 Hornblende-Feldspar Porphyry | |



(Hole No.)
 31 $\frac{3.63}{3.10}$ (g/t Au)
 MIDPOINT OF INTERSECTION
 44? Interpreted location of zone uncertain.

"103" ZONE
 ■ > 6.00 g/t Au x metres
 □ No Significant Intersection

32 | Hole too short to intersect the "103" zone



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
 Queenston Mining Inc.
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY
 "103" ZONE
 LONGITUDINAL SECTION

PROJECT No: 75-JV-28 DATA BY: W. Benham/M. Masson
 NTS: 42A/1 DRAWN BY: B.H. Madill
 DRAWING No: DL-007 DATE: Revised Sept., 1992
 SCALE: 1:2500

490

251°

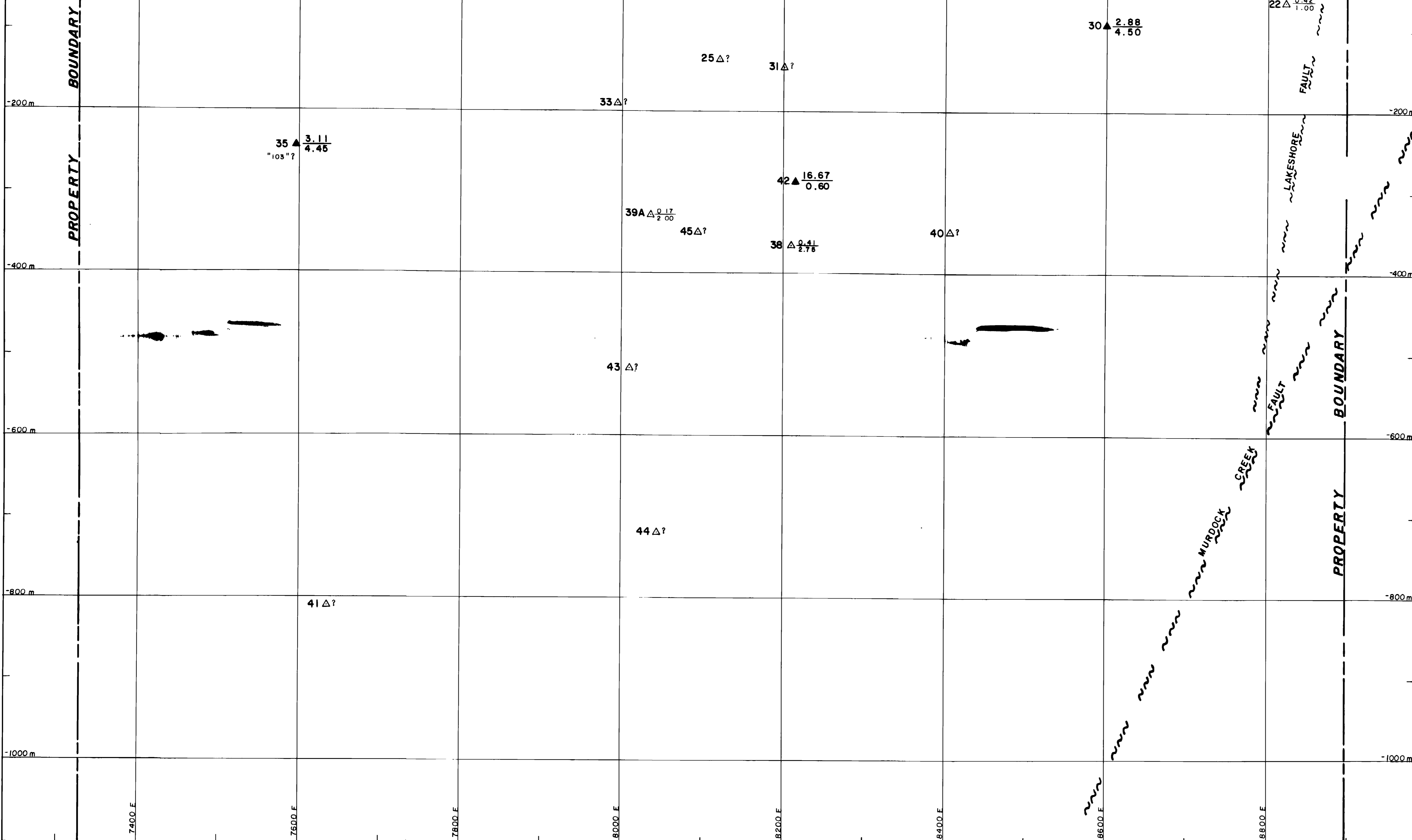
071°

00 DATUM (330.0 metres Geodetic)

00 DATUM

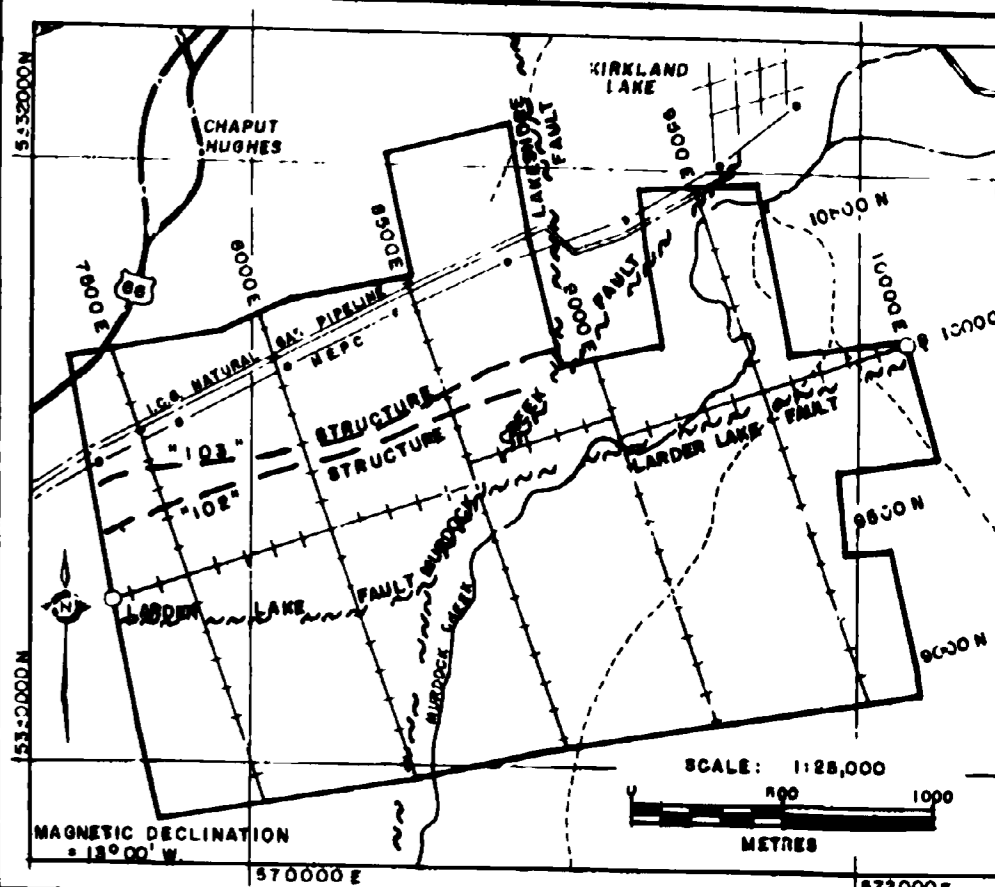
LEGEND

- | | |
|-----------------------------------|---------------------|
| 60 ALTERATION | 20 SEDIMENTS |
| 61 Chloritic | 21 Conglomerate |
| 62 Sericitic | 22 Greywacke |
| 63 Hematitic | 23 Siltstone |
| 64 Siliceo | 24 Mudstone |
| 65 Carbonatized | 10 VOLCANICS |
| 40 INTRUSIVES | 11 Trachytes |
| 41 Diabase | 12a Ash Tuff |
| 42 Lamprophyre | 12b Lapilli Tuff |
| 43 Syenite | 12c Block Tuff |
| 44 Augite Syenite | 12d Lithic Tuff |
| 45 Mafic Syenite | 12e Monolithic Tuff |
| 46 Feldspar Porphyry | 12f Flow |
| 47 Hornblende - Feldspar Porphyry | |



(Hole No)
 30 $\frac{2.88}{4.50}$ (g/t Au)
 MIDPOINT OF INTERSECTION
 41 Δ ? Interpreted location of zone uncertain.

"104" ZONE
 ▲ > 600 g/t Au x metres
 Δ No Significant Intersection



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
 Queenston Mining Inc.
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY

"104" ZONE
 LONGITUDINAL SECTION

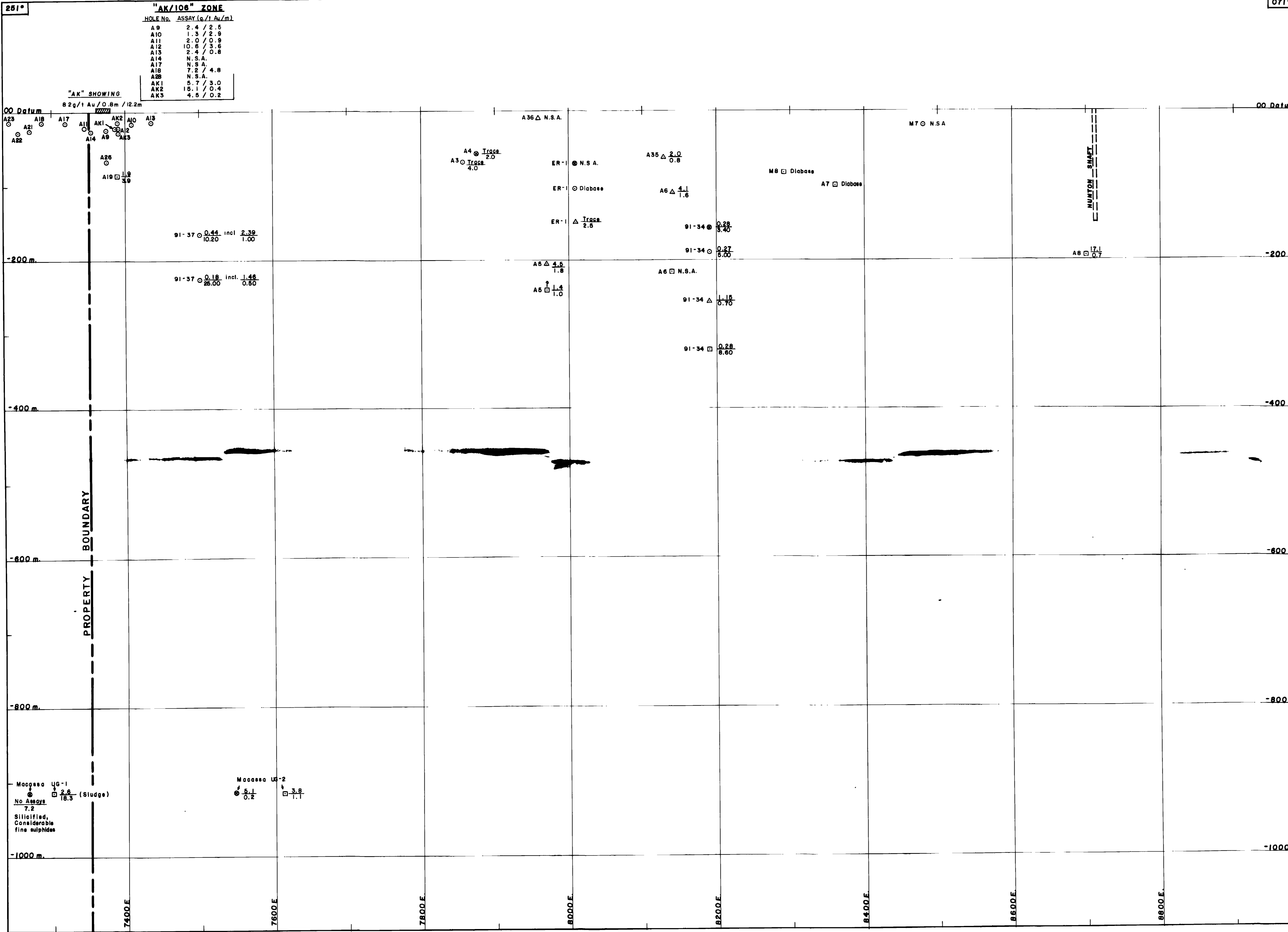
PROJECT No. 76-JV-28	DATA BY: W. Benham/M. Mason
NTS 42 A / 1	DRAWN BY: B. N. Modill
DRAWING No. DL-010	DATE: September 1992

SCALE: 1:2500

50 0 50 100 METRES

W.B.

500



"AK/106" ZONE

HOLE No.	ASSAY (g/t Au/m)
A9	2.4 / 2.5
A10	1.3 / 2.9
A11	2.0 / 0.9
A12	10.6 / 3.6
A13	2.4 / 0.8
A14	N.S.A.
A17	N.S.A.
A18	7.2 / 4.8
A28	N.S.A.
AK1	5.7 / 3.0
AK2	15.1 / 0.4
AK3	4.5 / 0.2

"AK" SHOWING
8.2 g/t Au / 0.8m / 12.2m

LEGEND

- | | |
|---------------------------------|---------------------|
| 60 ALTERATION | 20 SEDIMENTS |
| 61 Chloritic | 21 Conglomerate |
| 62 Sericitic | 22 Graywacke |
| 63 Hematitic | 23 Siltstone |
| 64 Siliceous | 24 Mudstone |
| 65 Carbonatized | 10 VOLCANICS |
| 40 INTRUSIVES | 18 Trachytes |
| 41 Diabase | 18a Ash Tuff |
| 41a Lamprophyre | 18b Lapilli Tuff |
| 41b Syenite | 18c Block Tuff |
| 42 Augite Syenite | 18d Lithic Tuff |
| 43 Mafic Syenite | 18e Monolithic Tuff |
| 44 Feldspar Porphyry | 18f Flow |
| 45 Hornblende-Feldspar Porphyry | |

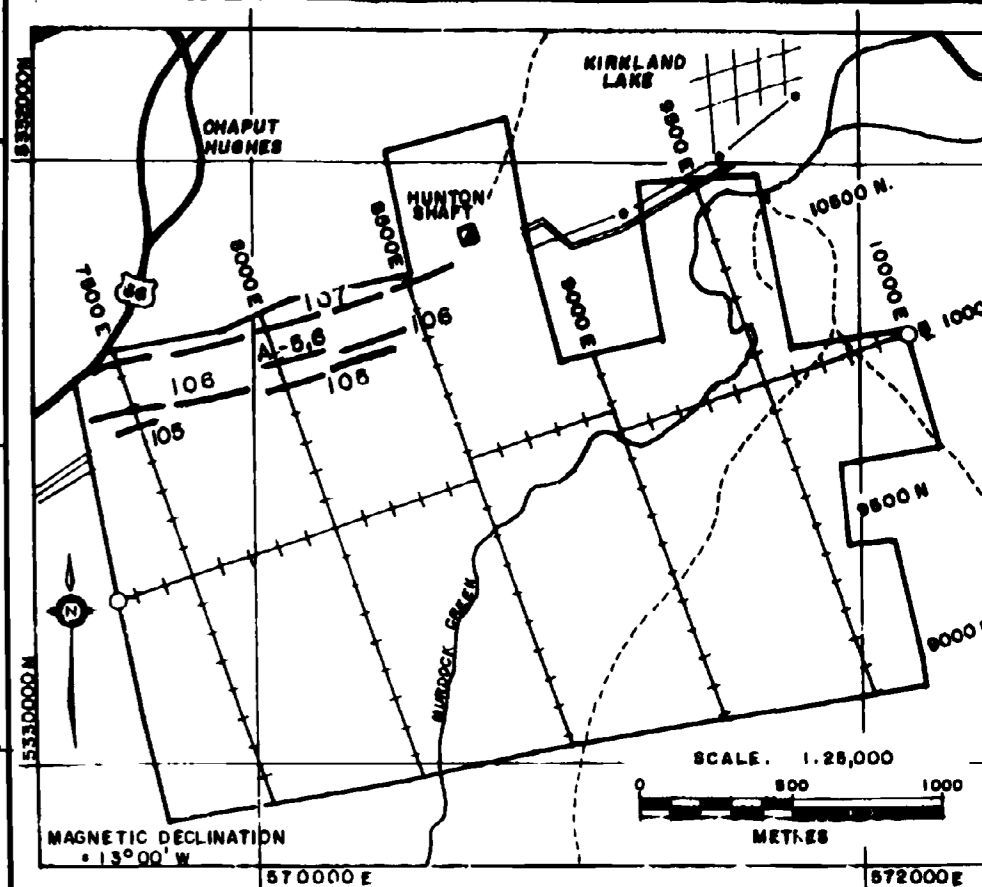
(Hole No.)
91-37 $\frac{0.44}{10.20}$ g/t Au metres
MIDPOINT of INTERSECTION

DRILL HOLES
A3 to A56 AMALGAMATED KIRKLAND MINES LTD., 1939, 40
UG-1, 2 MACASSA MINES LTD., 1940
M7, 8 MAYFIELD EXPLORATIONS LTD., 1972
AK 1 LAMPE RESOURCES LTD., 1981
AK2, 3 EDEN ROC MINERAL CORP., 1983
ER-1 EDEN ROC MINERAL CORP., 1983
91-34, 37 BATTLE MOUNTAIN(CANADA) INC., 1991

GOLD ZONES	g/t Au x metres
⊕ "105" ZONE	○ + 50
○ "106" ZONE	○ 40-50
△ "A-5,6" ZONE	○ 30-40
□ "107" ZONE	○ 20-30
	○ 10-20
	○ 3-10
	○ 0-3

N.S.A. - No Significant Assays

NOTE: Except for holes 91-34 and 91-37
Collar co-ordinates and elevations are not surveyed

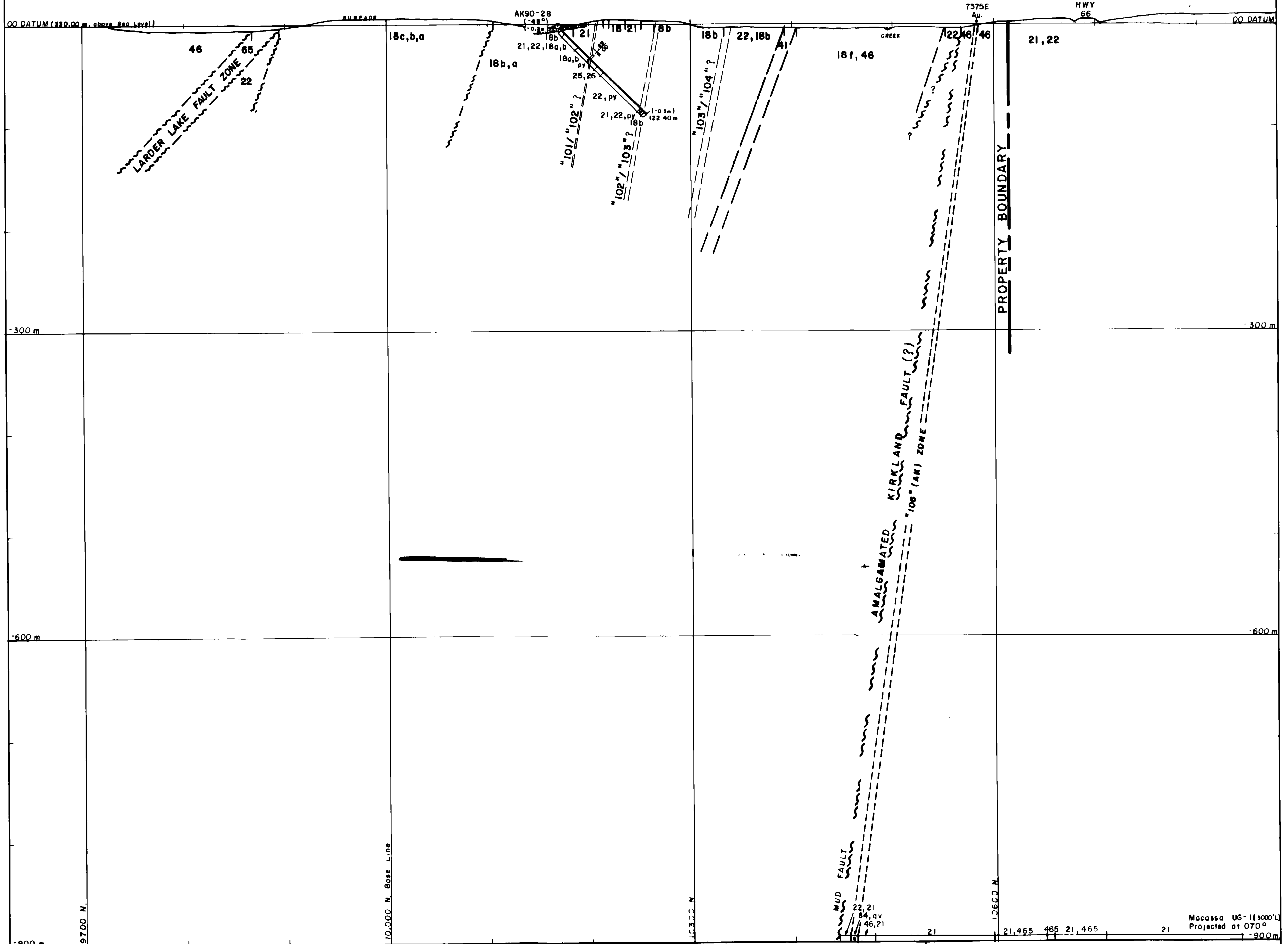


BATTLE MOUNTAIN (CANADA) INC.
A 5 6 107 106 105

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY
"105"; "106"; "A-5,6"; "107" STRUCTURES
LONGITUDINAL SECTION

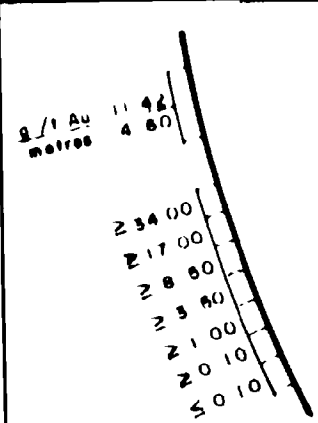
PROJECT No. 75-JV-28	DATA BY: W. Benham
NTS 42 A / 1	DRAWN BY: B.H. Madill, Tech.
DRAWING No DL-009	DATE: April 1992

SCALE 1:2500



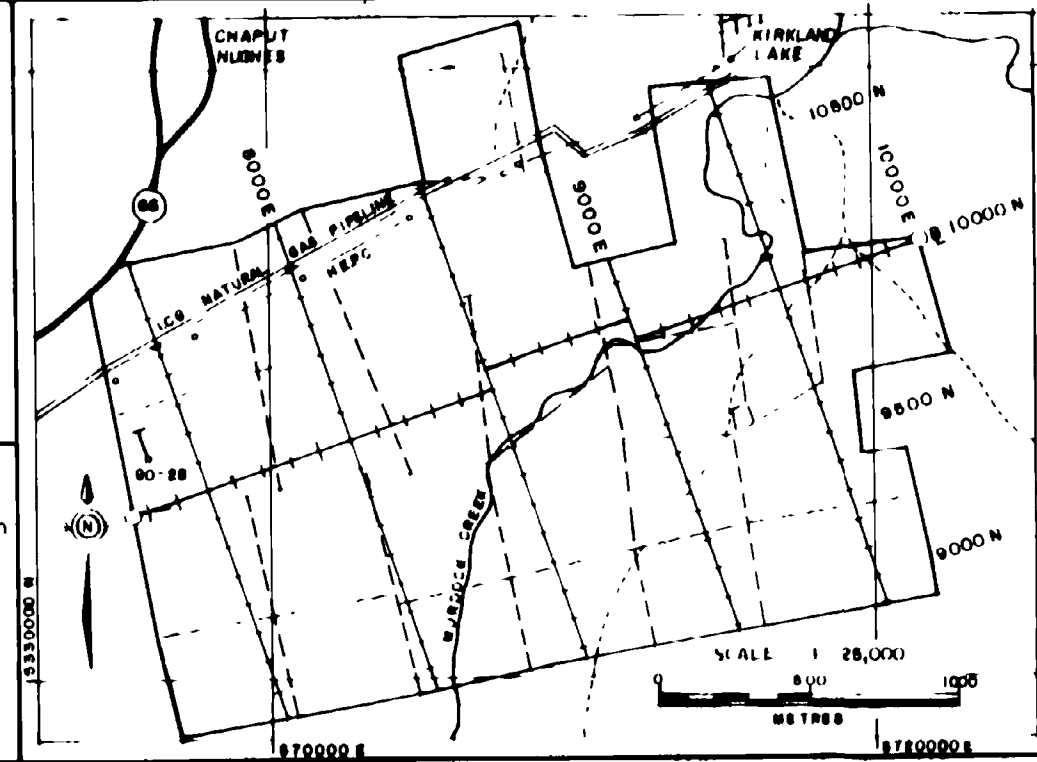
LEGEND	
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonalized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
42 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Black Tuff
462 Mafic Syenite	18d Lithic Tuff
465 Feldspar Porphyry	18e Monolithic Tuff
466 Hornblende - Feldspar Porphyry	18f Flow

SYMBOLS	
	Bedding/Contacts
	Breccia
	Facing direction
	Foliation
	Fault, Fault Zone
	Drag folding
	Pyrite Mineralization



ABBREVIATIONS
cp - Chalcopyrite
mo - Molybdenite
gf - Graphitic
mag - Magnetite
pb - Galena
qv - Quartz Vein
sh - Sheared
vg - Visible Gold

NOTES
 1) Magnetic Declination = 13° 00' West



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
 Queenston Mining Inc
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY

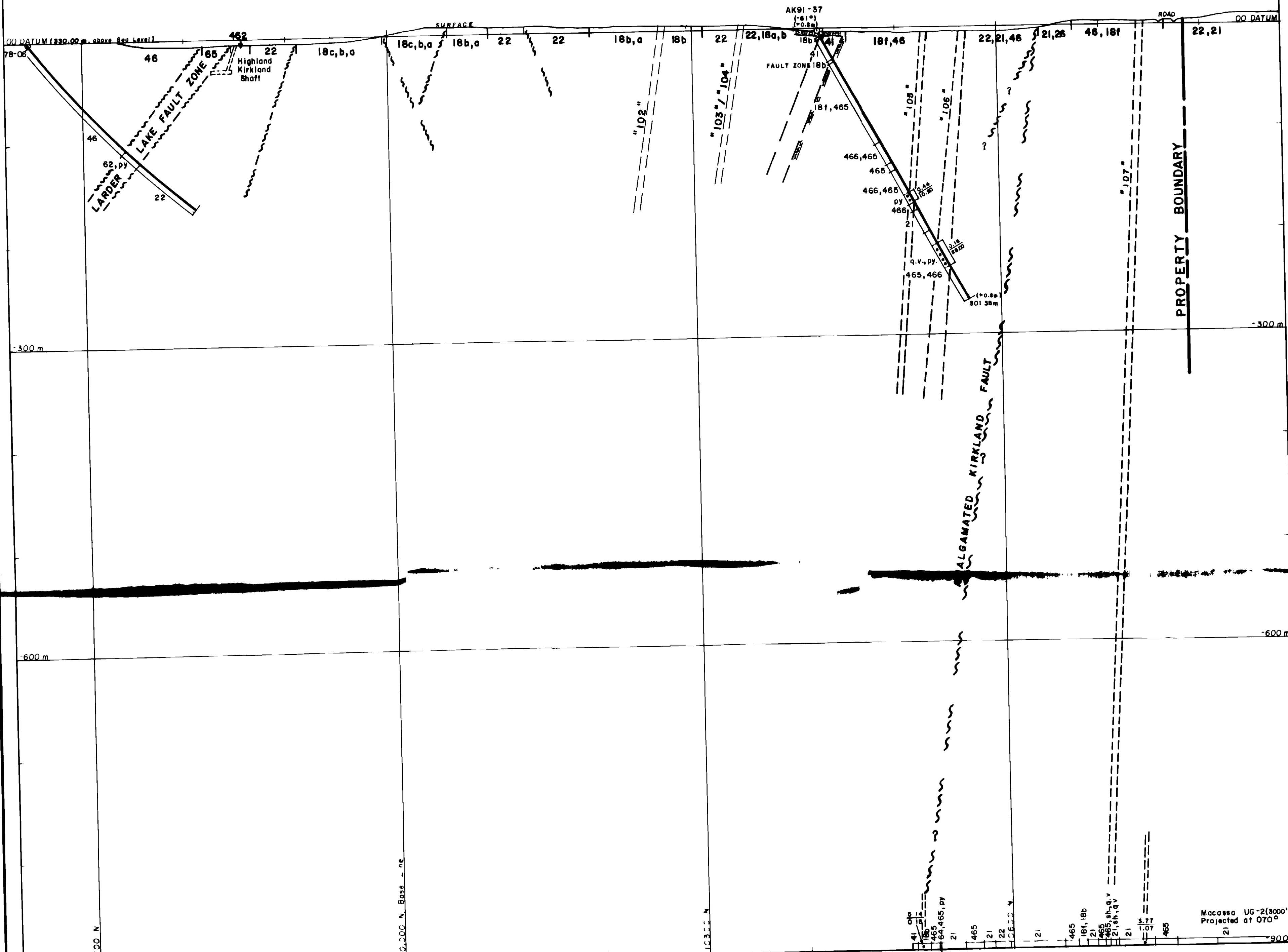
SECTION 7350E
 HOLE AK90-28

PROJECT No 78-JV-28	DATA BY W Benham / M Masson
NTS 42 A / 1	DRAWN BY B H Madill, Tech
DRAWING No DC-045	DATE April, 1992

SCALE: 1:25000

[Signature]





LEGEND

60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
412 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Block Tuff
462 Mafic Syenite	18d Lithic Tuff
465 Feldspar Porphyry	18e Monolithic Tuff
466 Hornblende - Feldspar Porphyry	18f Flow

SYMBOLS

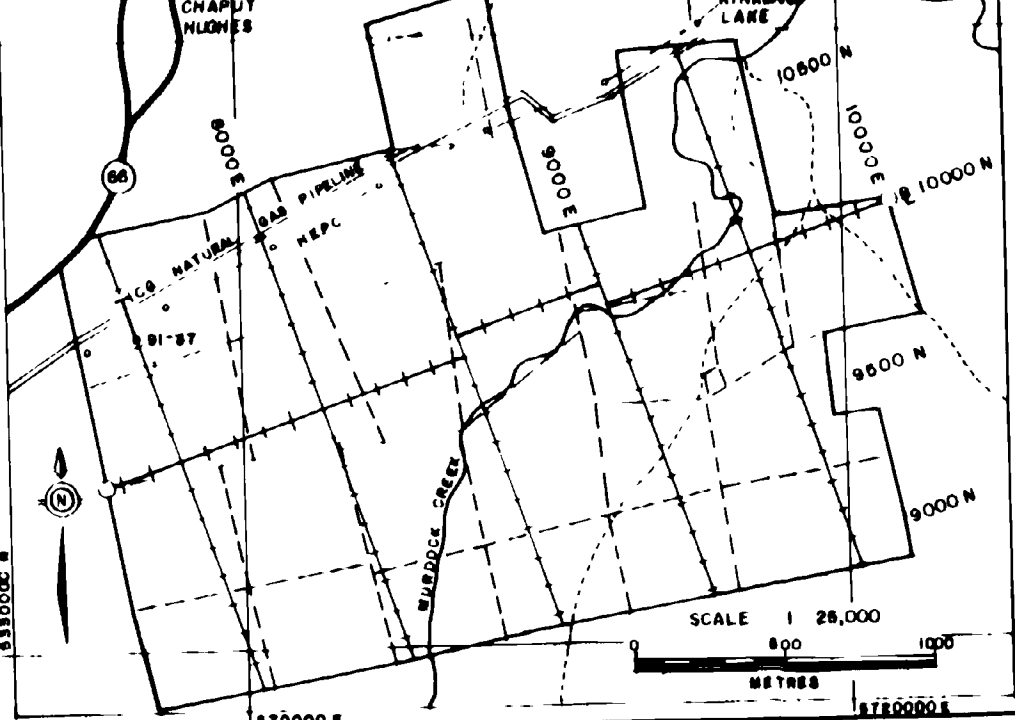
- Bedding, Contact
- Breccia
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization

ABBREVIATIONS

- cp - Chalcopyrite
- mo - Molybdenite
- gf - Graphitic
- mag - Magnetite
- pb - Galena
- qv - Quartz Vein
- sh - Sheared
- vg - Visible Gold

NOTES

1) Magnetic Declination = 13°00' West



BATTLE MOUNTAIN (CANADA) INC.

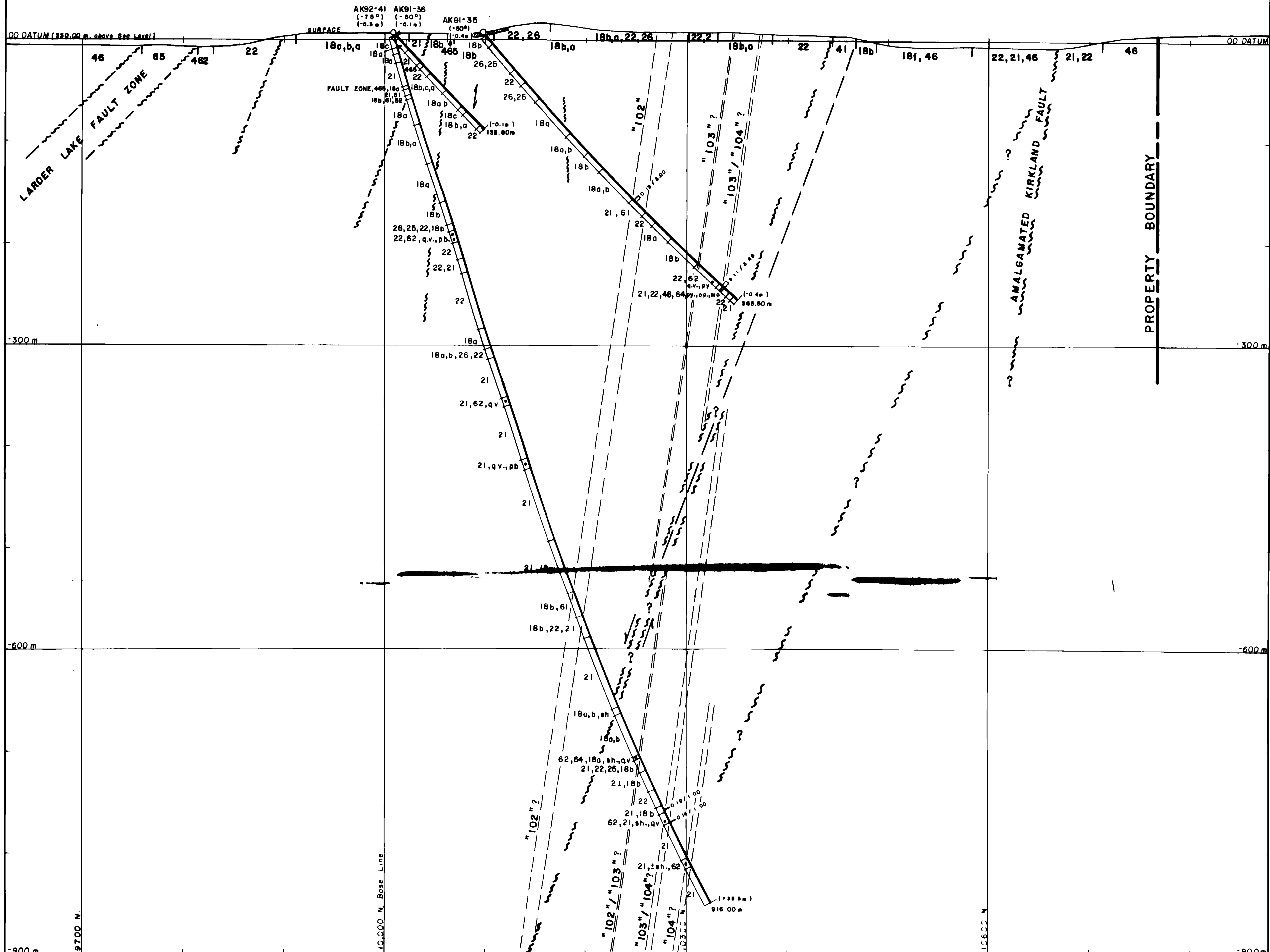
KIRKLAND LAKE PROJECT
 Queenston Mining Inc
 ONTARIO
AMALGAMATED KIRKLAND PROPERTY
SECTION 7500E
 HOLE AK91-37

PROJECT No: 75-JV-28	DATA BY: W Benham / M Masson
NTS: 42A / 1	DRAWN BY: B H Madill, Tech
DRAWING No: DC-046	DATE: April, 1992

SCALE: 1:2500

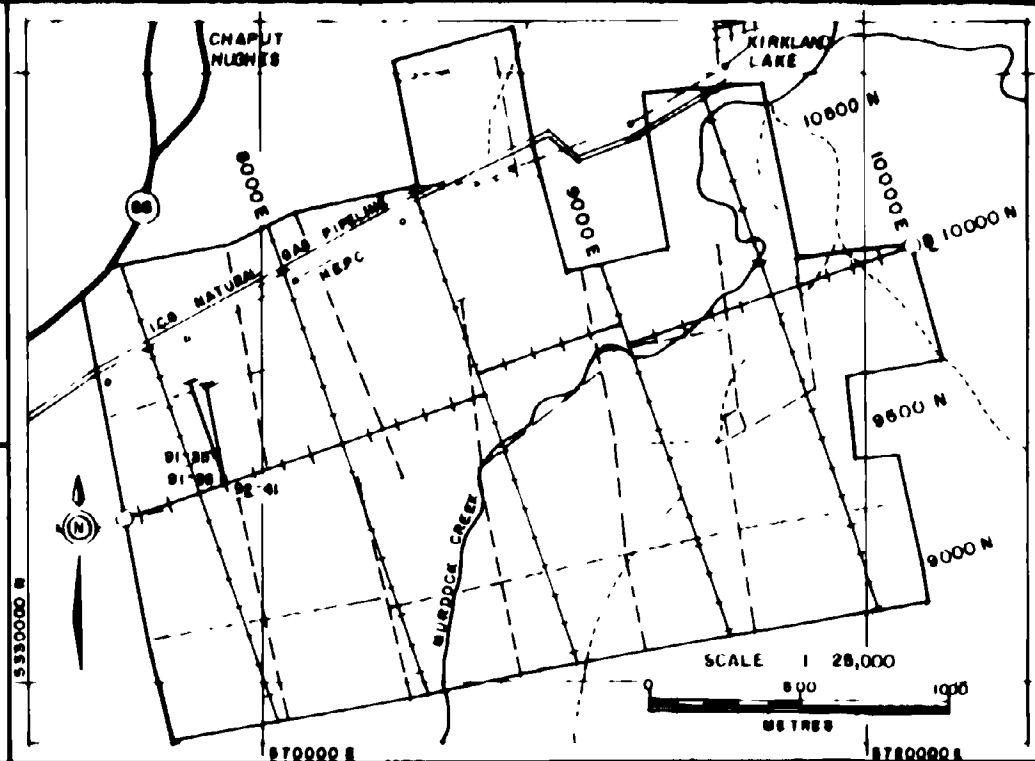
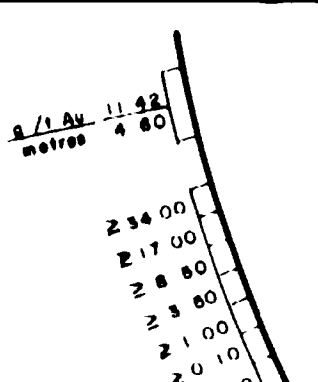
0 50 100 METRES





LEGEND	
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	23 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18a Ash Tuff
42 Lamprophyre	18b Lapilli Tuff
46 Syenite	18c Block Tuff
461 Augite Syenite	18d Lithic Tuff
462 Mafic Syenite	18e Monolithic Tuff
465 Feldspar Porphyry	18f Flow
466 Hornblends - Feldspar Porphyry	

SYMBOLS	
	Bedding, Contacts
	Breccia
	Paving direction
	Fault, Fault Zone
	Drag folding
	Pyrite Mineralization



ABBREVIATIONS	
cp	Chalcopyrite
mo	Molybdenite
gf	Graphitic
mag	Magnetite
pb	Galena
q v	Quartz Vein
sh	Sheared
v g	Visible Gold

NOTES

1) Magnetic Declination = 15° 00' West

BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc
ONTARIO

AMALGAMATED KIRKLAND PROPERTY

SECTION 7600E
HOLE AK91-35 & 36,
and AK92-41

PROJECT No 78-JV-78	DATA BY W Benham / M Mason
NTS 424 / 1	DRAWN BY B H Madill, Tech
DRAWING No DC-047	DATE April, 1992
SCALE: 1:25,000	

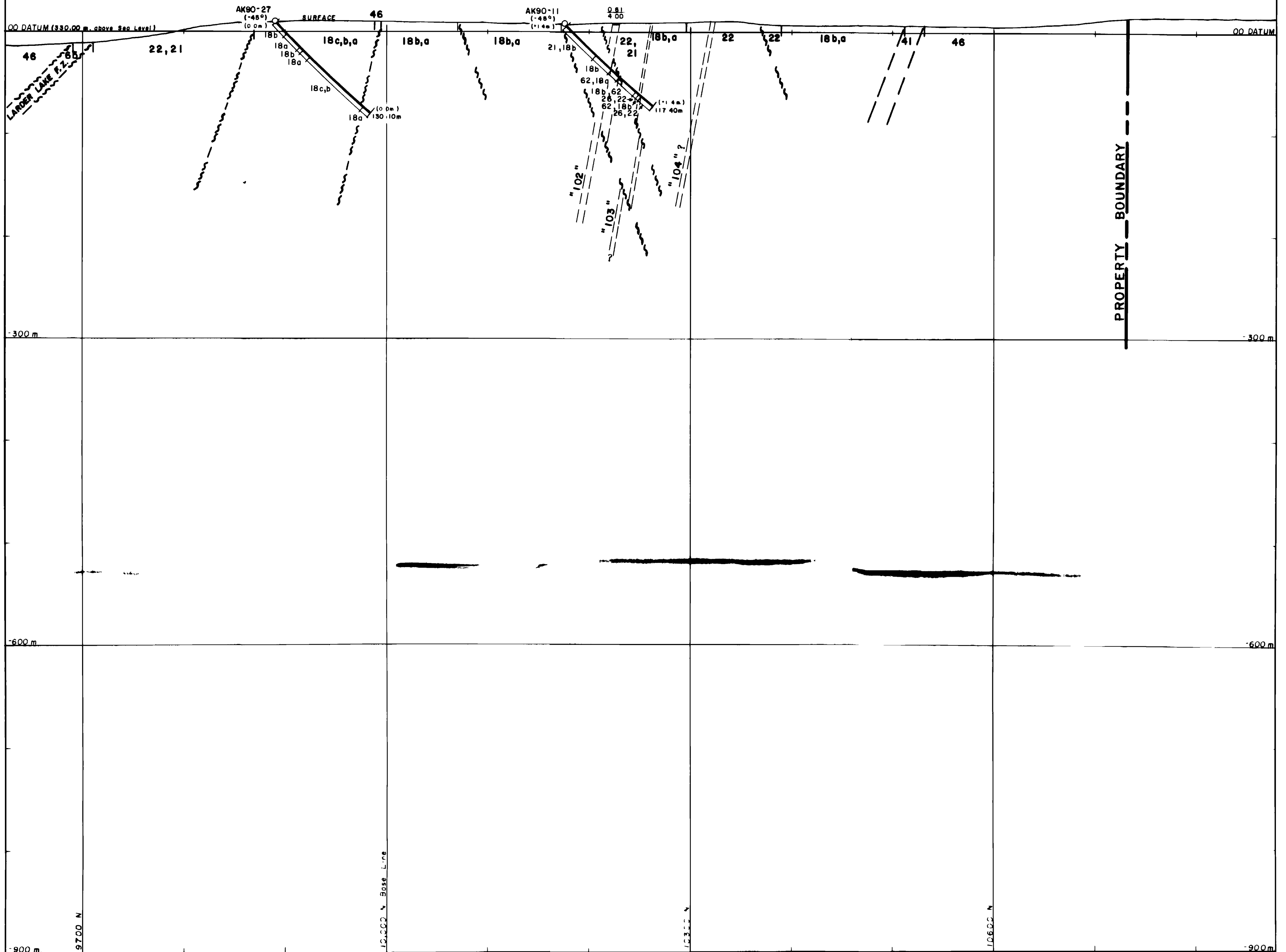
SCALE 1:25,000
METRES

W.B.



161°

341°



LEGEND

60 ALTERATION

- 61 Chloritic
- 62 Sericitic
- 63 Hematitic
- 64 Silicic
- 65 Carbonatized

40 INTRUSIVES

- 41 Diabase
- 412 Lamprophyre
- 46 Syenite
- 461 Augite Syenite
- 462 Mafic Syenite
- 465 Feldspar Porphyry
- 466 Hornblende - Feldspar Porphyry

20 SEDIMENTS

- 21 Conglomerate
- 22 Graywacke
- 25 Siltstone
- 26 Mudstone

10 VOLCANICS

- 18 Trachytes
- 18a Ash Tuff
- 18b Lapilli Tuff
- 18c Block Tuff
- 18d Lithic Tuff
- 18e Monolithic Tuff
- 18f Flow

SYMBOLS

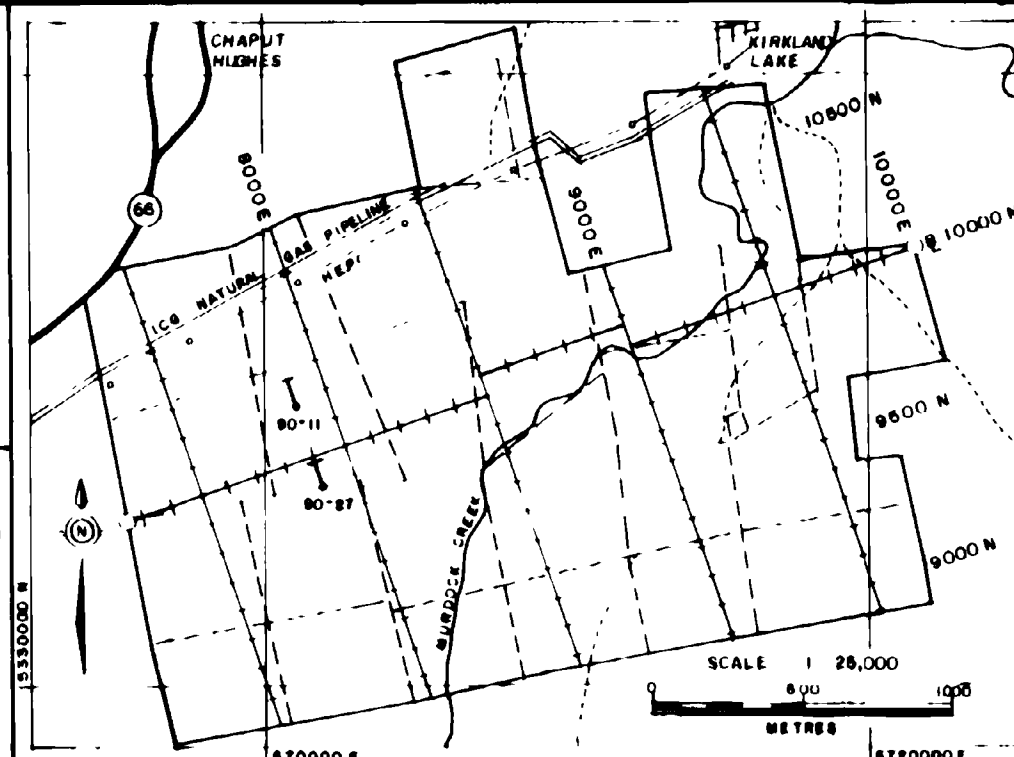
- Bedding, Contacts
- Breccia
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization

ABBREVIATIONS

- cp - Chalcopyrite
- mo - Molybdenite
- gf - Graphitic
- mag - Magnetite
- pb - Galena
- qv - Quartz Vein
- sh - Sheared
- vq - Visible Gold

NOTES

- 1) Magnetic Declination - 15° 00' West



BATTLE MOUNTAIN (CANADA) INC.



KIRKLAND LAKE PROJECT
 Queenston Mining Inc
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY
SECTION 7900E
 HOLE AK90-11&27

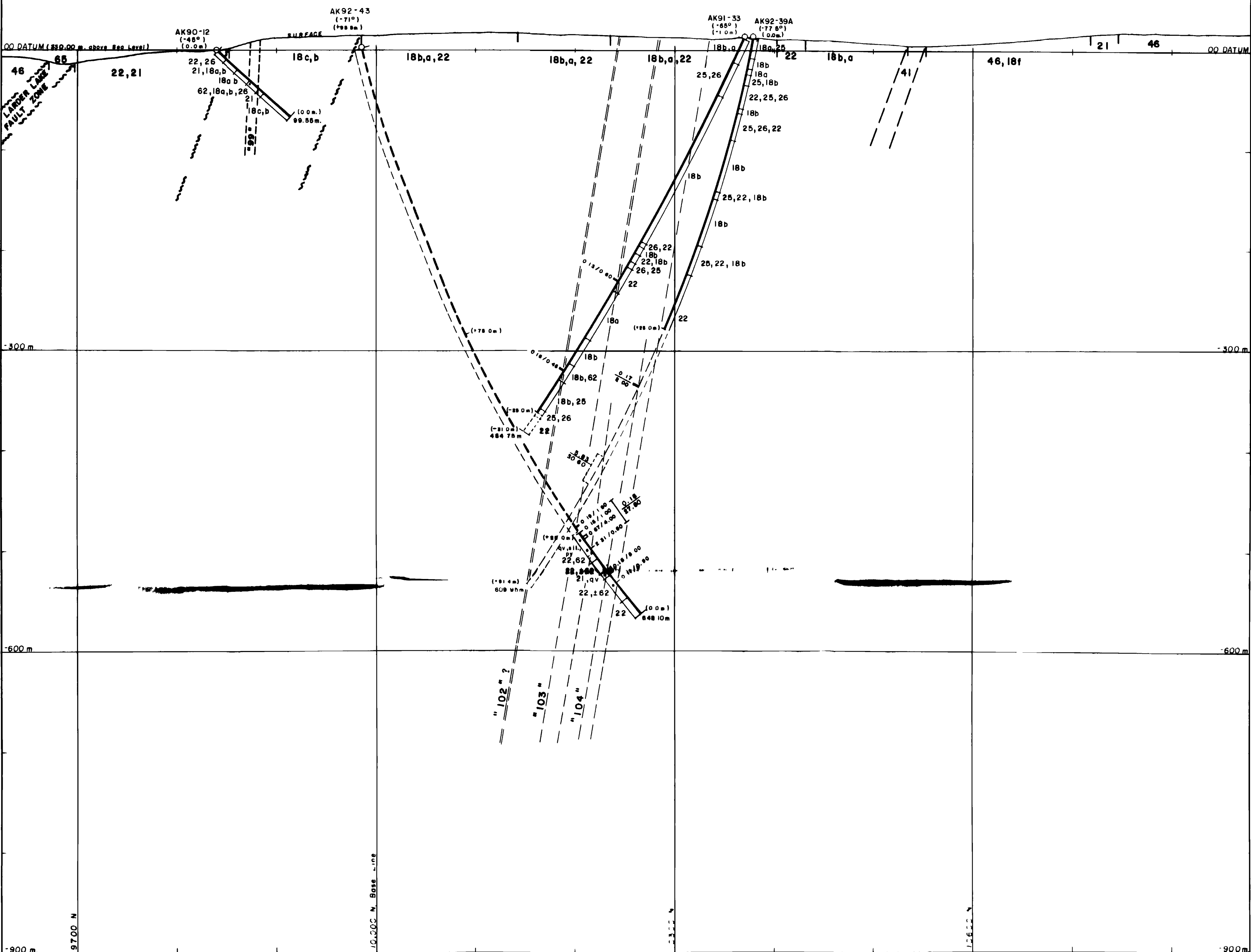
PROJECT No 78-JV-28 DATA BY: W Benham / M Mason

NTS 48 A / 1 DRAWN BY: B H Madill, Tech.

DRAWING No DC-048 DATE: April, 1992

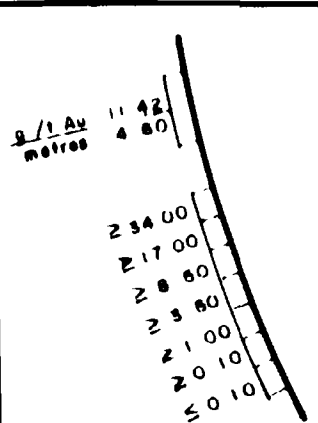
SCALE: 1:2500





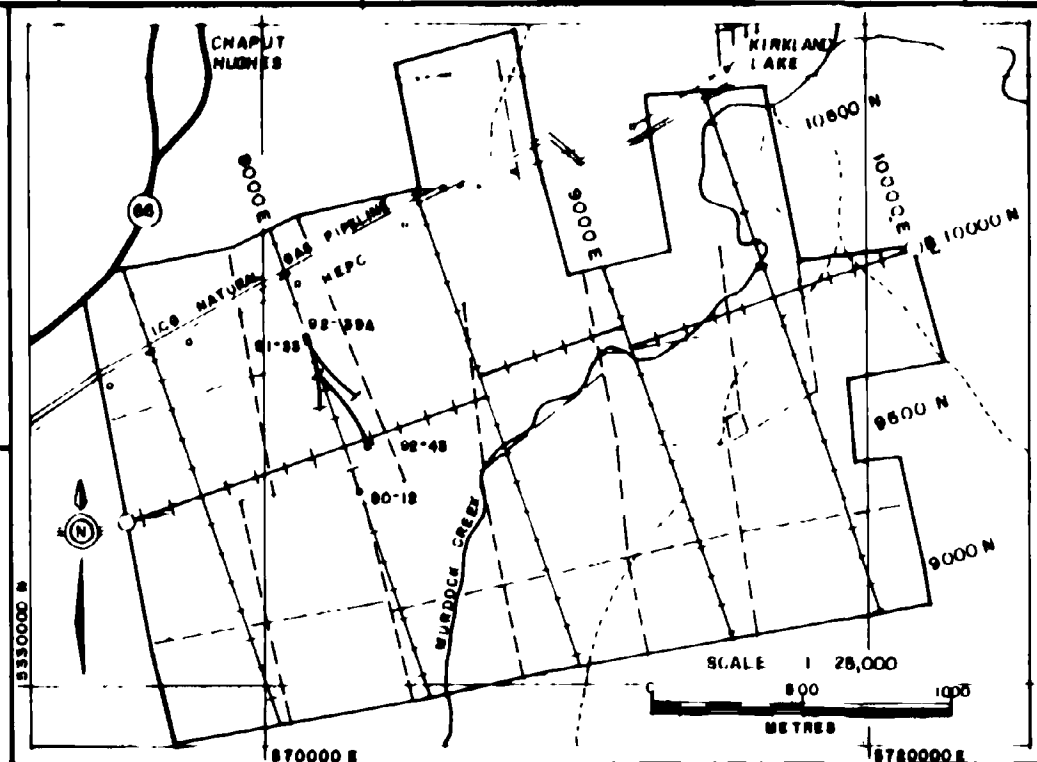
LEGEND	
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
412 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Block Tuff
462 Mafic Syenite	18d Lithic Tuff
465 Feldspar Porphyry	18e Monolithic Tuff
466 Hornblende - Feldspar Porphyry	18f Flow

SYMBOLS	
	Bedding/Contacts
	Breccia
	Folding direction
	Foliation
	Fault, Fault Zone
	Drag folding
	Pyrite Mineralization



ABBREVIATIONS	
cp	- Chalcopyrite
mo	- Molybdenite
gf	- Graphitic
mag	- Magnetite
pb	- Galena
qv	- Quartz Vein
sh	- Sheared
vg	- Visible Gold

NOTES
1) Magnetic Declination = 13°00' West



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

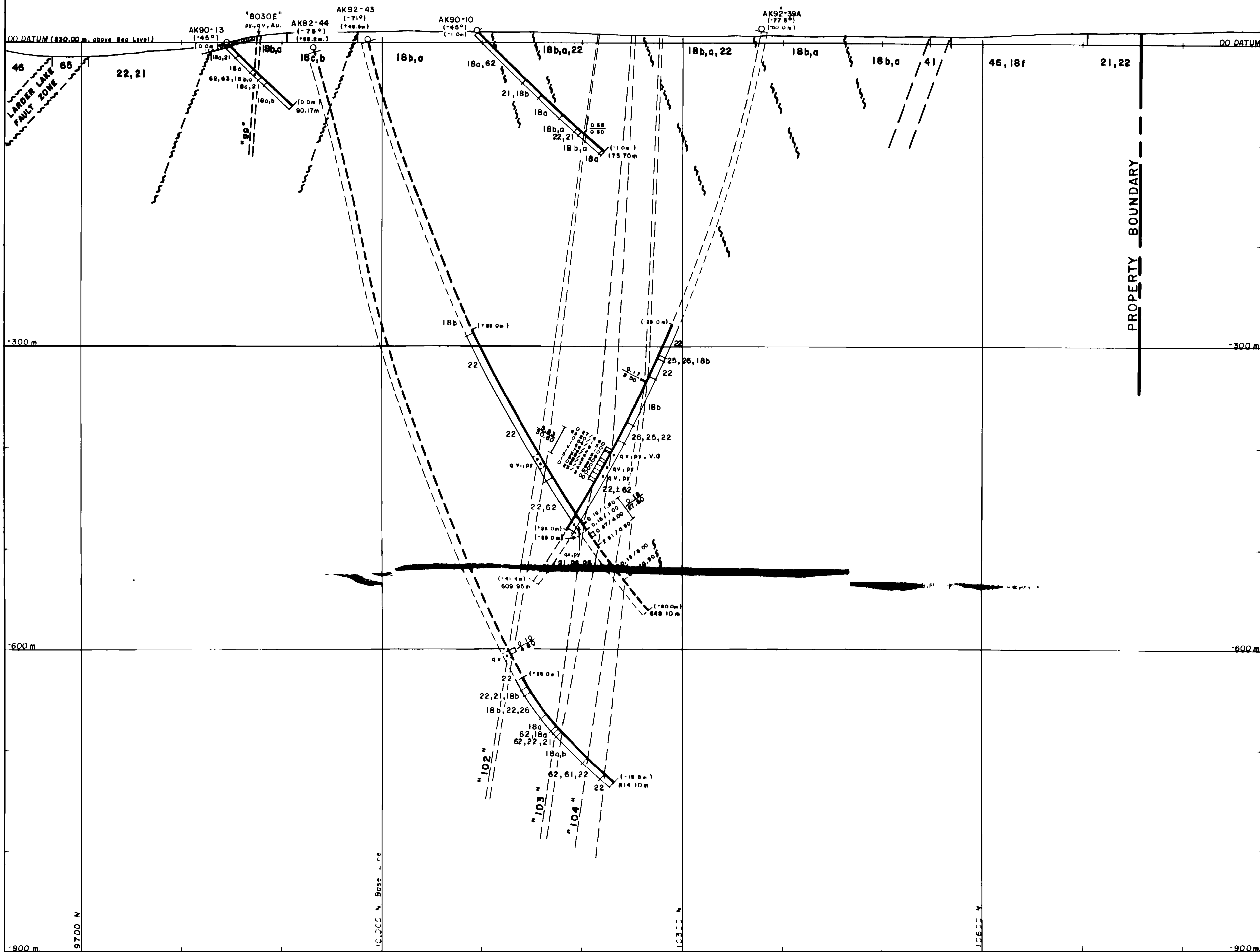
SECTION 8000E
HOLE AK90-12 • AK91-33
• AK92-39A • 43

PROJECT No	78-JV-28	DATA BY:	W Benham / M Masson
NTS	42A / 1	DRAWN BY:	B H Madill, Tech
DRAWING No	DC-049	DATE:	Revised July, 1992

SCALE: 1:2500

50 0 50 100 METRES





LEGEND

60 ALTERATION

- 61 Chloritic
- 62 Sericitic
- 63 Hematitic
- 64 Silicic
- 65 Carbonatized

40 INTRUSIVES

- 41 Diabase
- 42 Lamprophyre
- 46 Syenite
- 461 Augite Syenite
- 462 Mafic Syenite
- 465 Feldspar Porphyry
- 466 Hornblende - Feldspar Porphyry

20 SEDIMENTS

- 21 Conglomerate
- 22 Graywacke
- 25 Siltstone
- 26 Mudstone

10 VOLCANICS

- 18 Trachytes
- 18a Ash Tuff
- 18b Lapilli Tuff
- 18c Block Tuff
- 18d Lithic Tuff
- 18e Monolithic Tuff
- 18f Flow

SYMBOLS

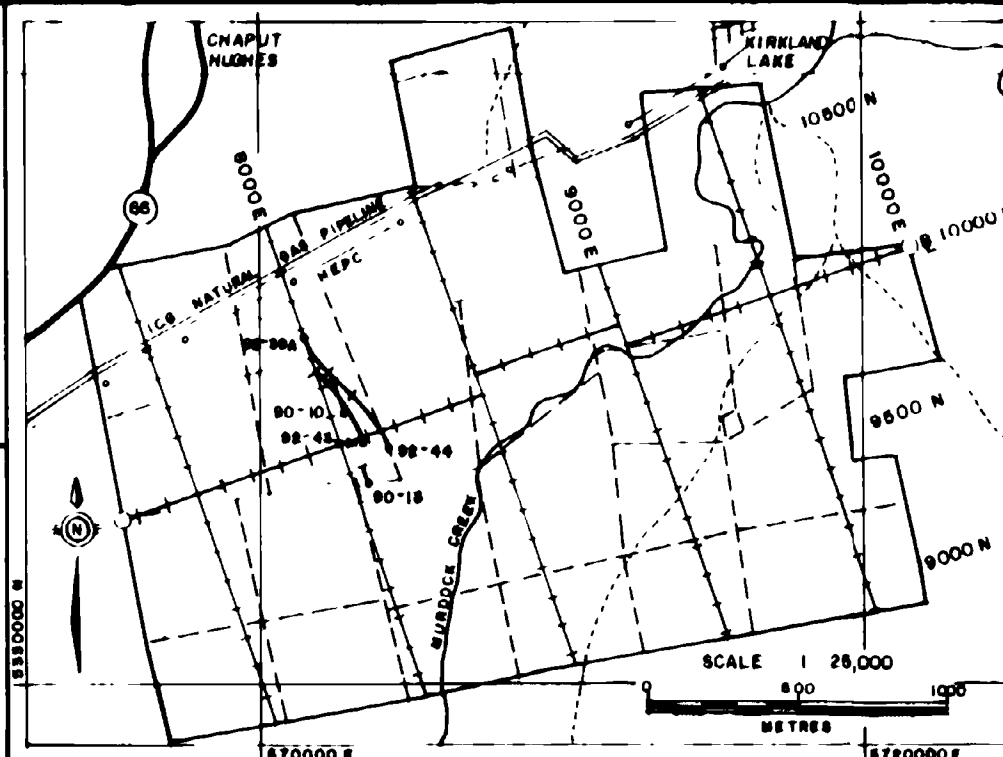
- Wedge, Contacts
- Braccia
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization

ABBREVIATIONS

- cp - Chalcopyrite
- mo - Molybdenite
- gf - Graphitic
- mag - Magnetite
- pb - Galena
- qv - Quartz Vein
- sh - Sheared
- vg - Visible Gold

NOTES

1) Magnetic Declination = 13° 00' West



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc
ONTARIO

AMALGAMATED KIRKLAND PROPERTY

SECTION 8050E

HOLE AK90-10 & 13
AK92-39A, 43 & 44

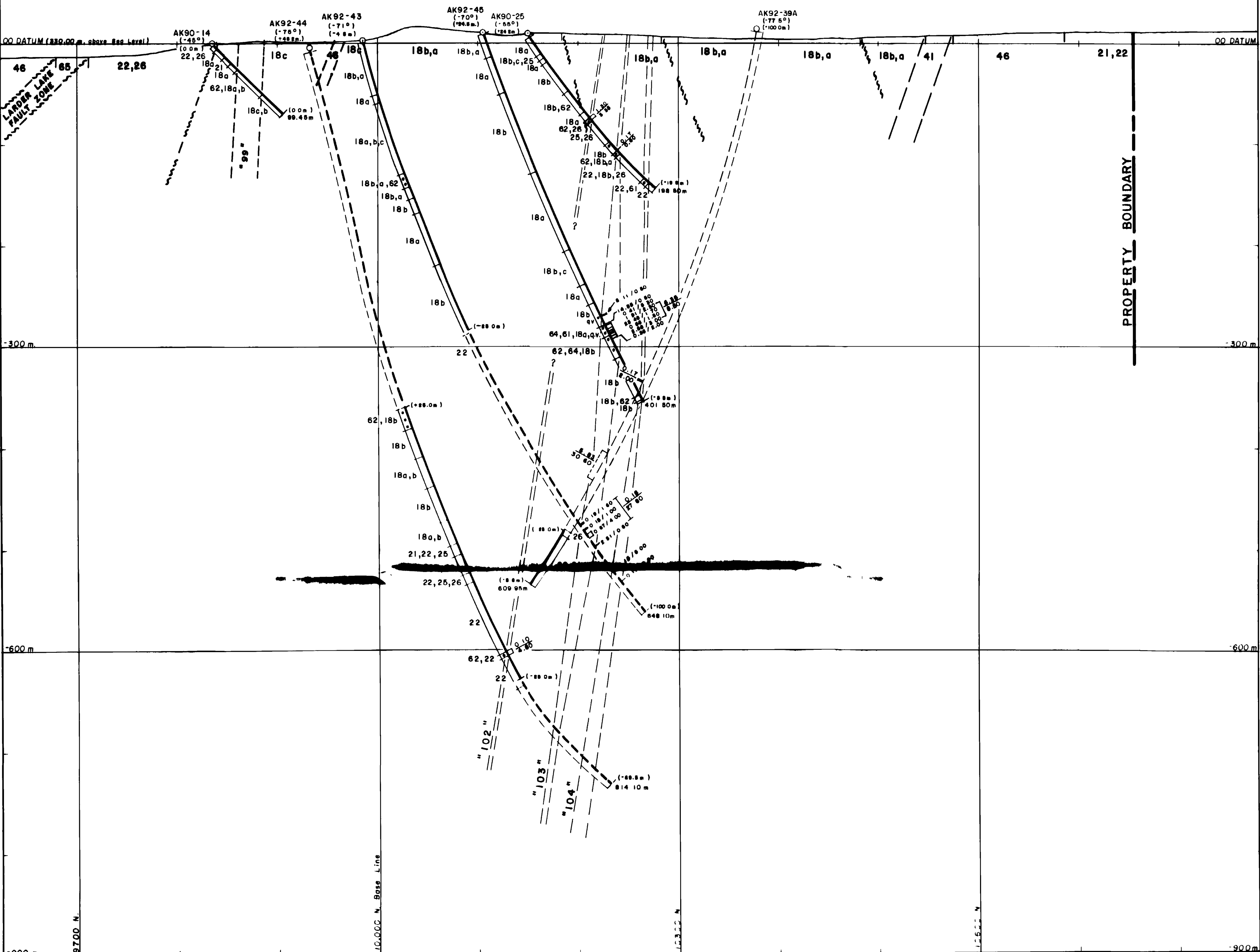
PROJECT No: 75-JV-28 DATA BY: W. Benham / M. Masson

N.T.S. 42 A / 1 DRAWN BY: B. H. Madill, Tech

DRAWING No: DC-050 DATE: Revised Sept., 1992

SCALE: 1:2500

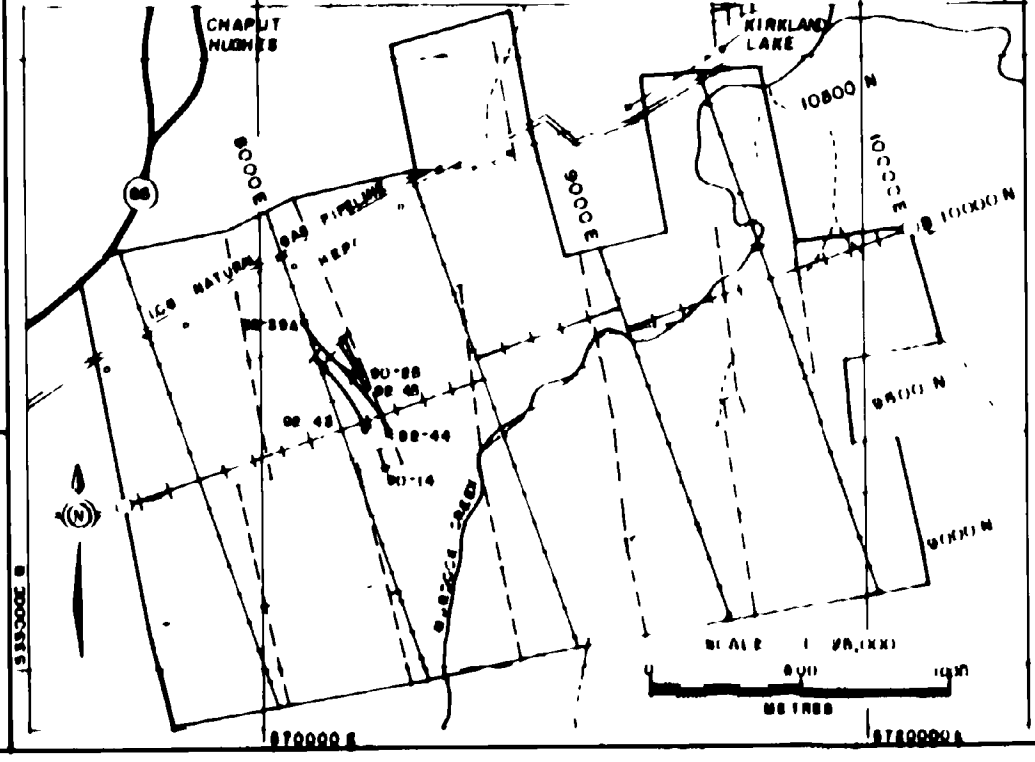




LEGEND	
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
42 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Block Tuff
462 Mafic Syenite	18d Lithic Tuff
463 Feldspar Porphyry	18e Monolithic Tuff
465 Hornblende - Feldspar Porphyry	18f Flow

SYMBOLS	
	Bedding/Contacts
	Breccia
	Facing direction
	Foliation
	Fault, Fault Zone
	Drag folding
	Pyrite Mineralization

ABBREVIATIONS	
cp	Chalcopyrite
mo	Molybdenite
gf	Graphitic
mag	Magnetite
qb	Galena
qv	Quartz Vein
sh	Sheared
vg	Visible gold



NOTES
 1) Magnetic Declination = 15° 00' West

BATTLE MOUNTAIN (CANADA) INC

KIRKLAND LAKE PROJECT
 Queenston Mining Inc
 (ONTARIO)
 AMALGAMATED KIRKLAND PROPERTY

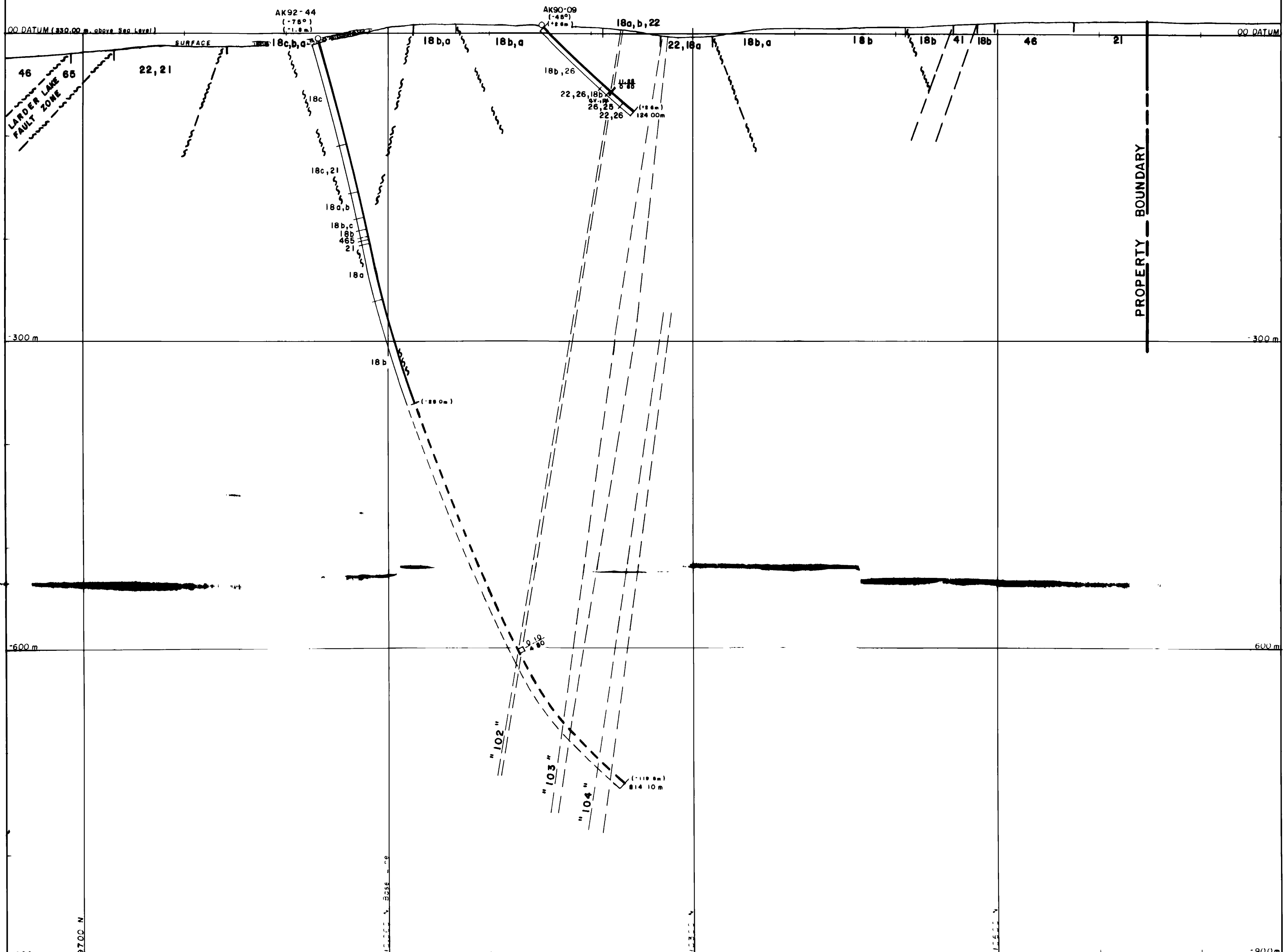
SECTION 8100E
 HOLE AK90-14 & 25
 & AK92-49A, 43 & 45

PROJECT No	78 IV 28	DATA BY	W Henham / M Masson
NTS	48A / 1	DRAWN BY	R H Madill, Tech
DRAWING No	DC-051	DATE	Revised Sept., 1992

SCALE 1:25000

METRES

W.H.



LEGEND

60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Sillicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
42 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Block Tuff
462 Mafic Syenite	18d Lithic Tuff
465 Feldspar Porphyry	18e Monolithic Tuff
466 Hornblende - Feldspar Porphyry	18f Flow

SYMBOLS

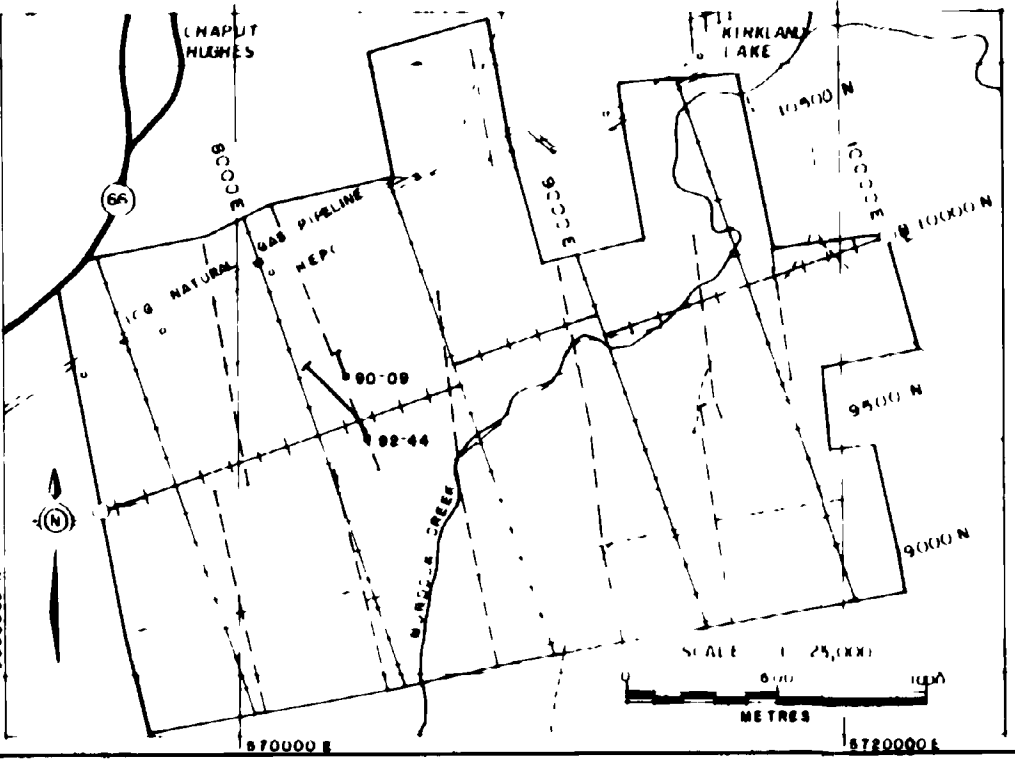
- △ Heading, Contacts
- Breccia
- Facing direction
- ~ Foliation
- - - Fault, Fault Zone
- ~ ~ ~ Drag folding
- Pyrite Mineralization

ABBREVIATIONS

- cp Chalcopyrite
- mu Molybdenite
- gf Graphitic
- mq Magnetite
- pb Galena
- qv Quartz Vein
- sh Sheared
- vq Visible gold

NOTES

1) Magnetic Declination 15° 00' West



BATTLE MOUNTAIN (CANADA) INC

KIRKLAND LAKE PROJECT
 Queenston Mining Inc
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY

SECTION 8150E
 HOLE AK90-09
 & AK92-44

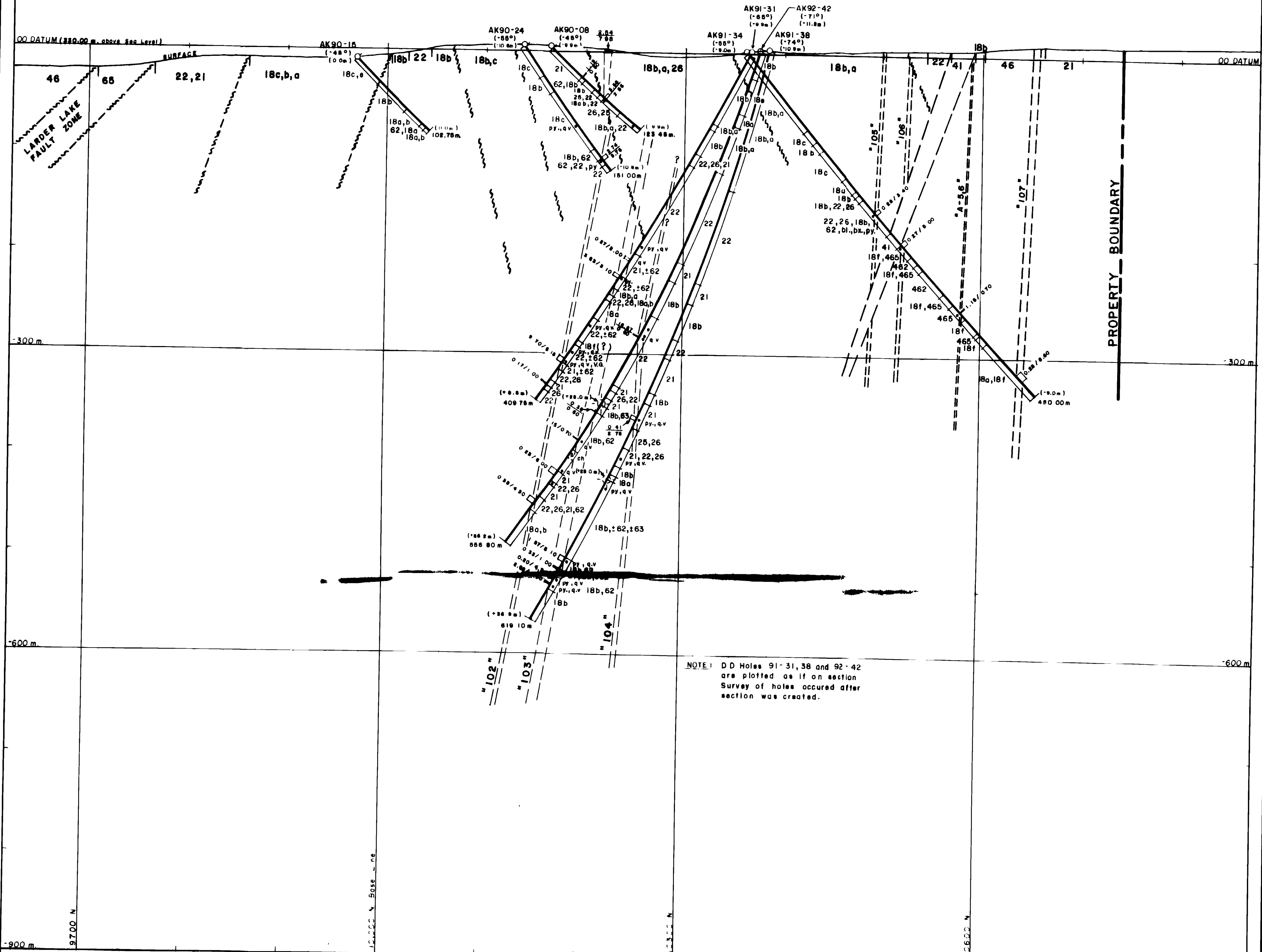
PROJECT No 78-JV-78	DATA BY W Benham / M Masson
NTS 48 A / 1	DRAWN BY B. H. Madill, Tech
DRAWING No DC-052	DATE Revised Sept., 1992

SCALE 1:2500

METRES

W.B.





LEGEND

60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Sillicic	26 Mudstone
65 Carbonalized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
42 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Block Tuff
462 Mafic Syenite	18d Lithic Tuff
465 Feldspar Porphyry	18e Monolithic Tuff
466 Hornblende - Feldspar Porphyry	18f Flow

SYMBOLS

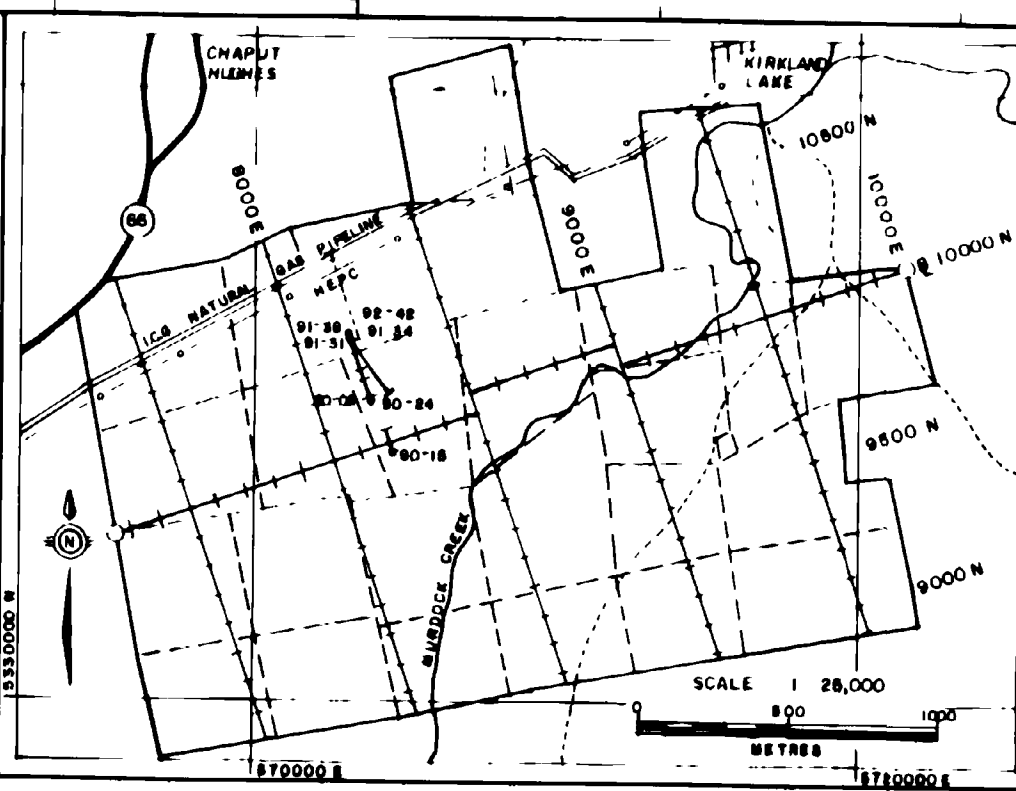
- Bedding, Contacts
- Breccia
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization

ABBREVIATIONS

- cp - Chalcopyrite
- mo - Molybdenite
- gf - Graphitic
- mag - Magnetite
- pb - Galena
- qv - Quartz Vein
- sh - Sheared
- vg - Visible Gold
- ch - Chloritic

NOTES

1) Magnetic Declination = 15° 00' West



BATTLE MOUNTAIN (CANADA) INC.

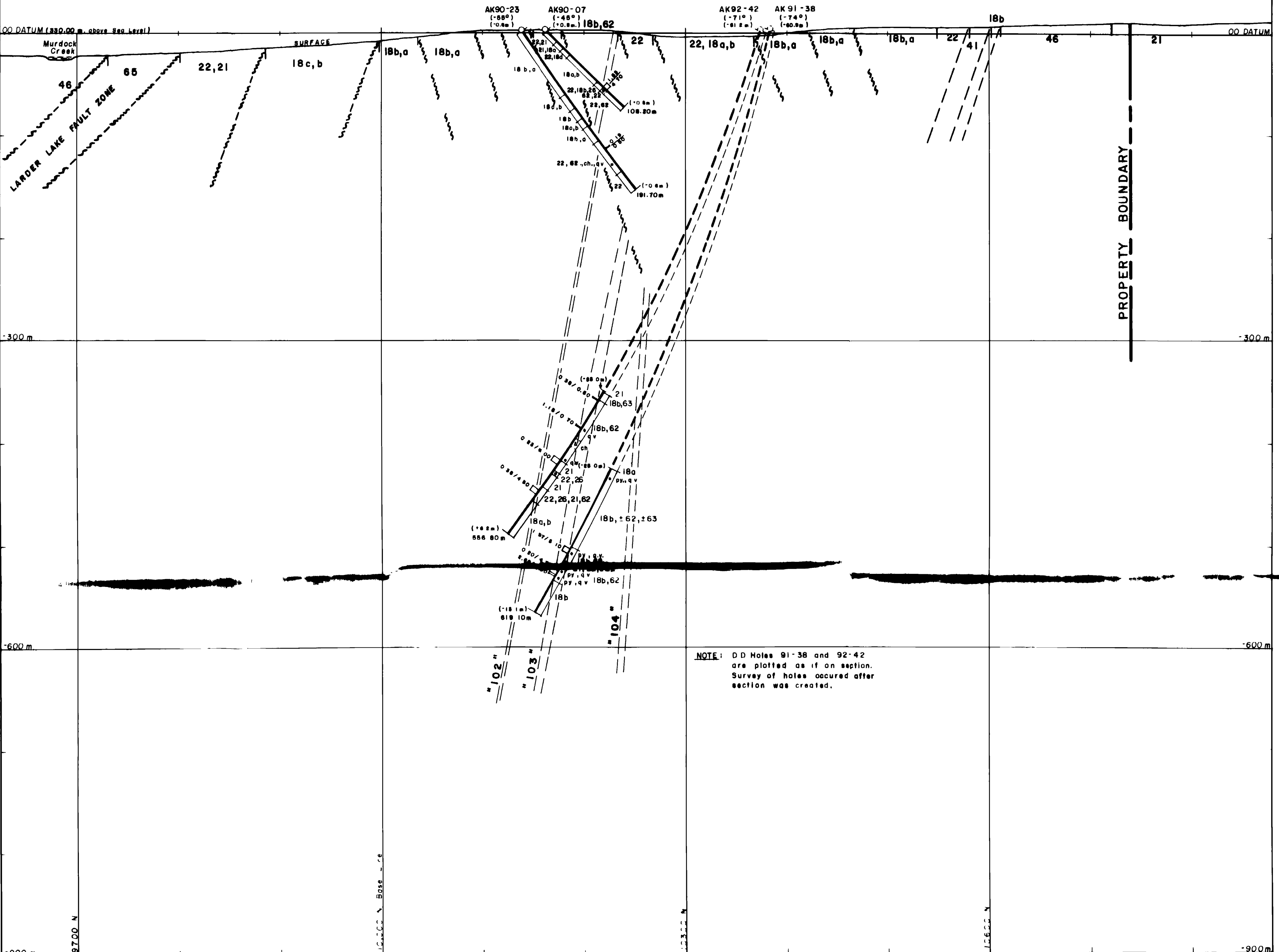
KIRKLAND LAKE PROJECT
Queenston Mining Inc
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8200E
HOLES AK90-08, 15, 24,
and AK91-31, 34, 38 and AK92-42

PROJECT No: 78-JV-28	DATA BY: W Benham / M. Masson
NTS: 48A / 1	DRAWN BY: B H Madill, Tech
DRAWING No: DC-053	DATE: Revised Sept., 1992
SCALE: 1:2500	

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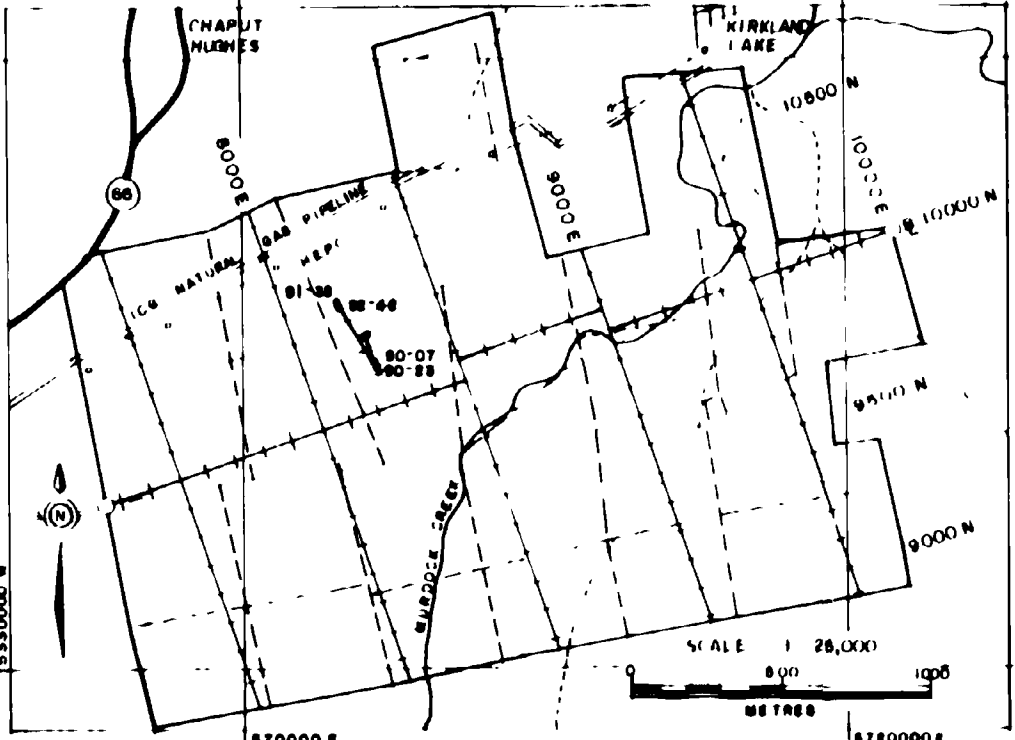


LEGEND	
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
42 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Block Tuff
462 Mafic Syenite	18d Lithic Tuff
465 Feldspar Porphyry	18e Monolithic Tuff
466 Hornblende - Feldspar Porphyry	18f Flow

SYMBOLS	
	Bedding/contact
	Breccia
	Facing direction
	Foliation
	Fault, Fault Zone
	Drag folding
	Pyrite Mineralization

ABBREVIATIONS	
cp	Chalcopyrite
mo	Molybdenite
gf	Graphitic
mag	Magnetite
pd	Galena
qv	Quartz Vein
sh	Sheared
vq	Visible Gold

NOTES	
1)	Magnetic Declination = 13°00' West



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

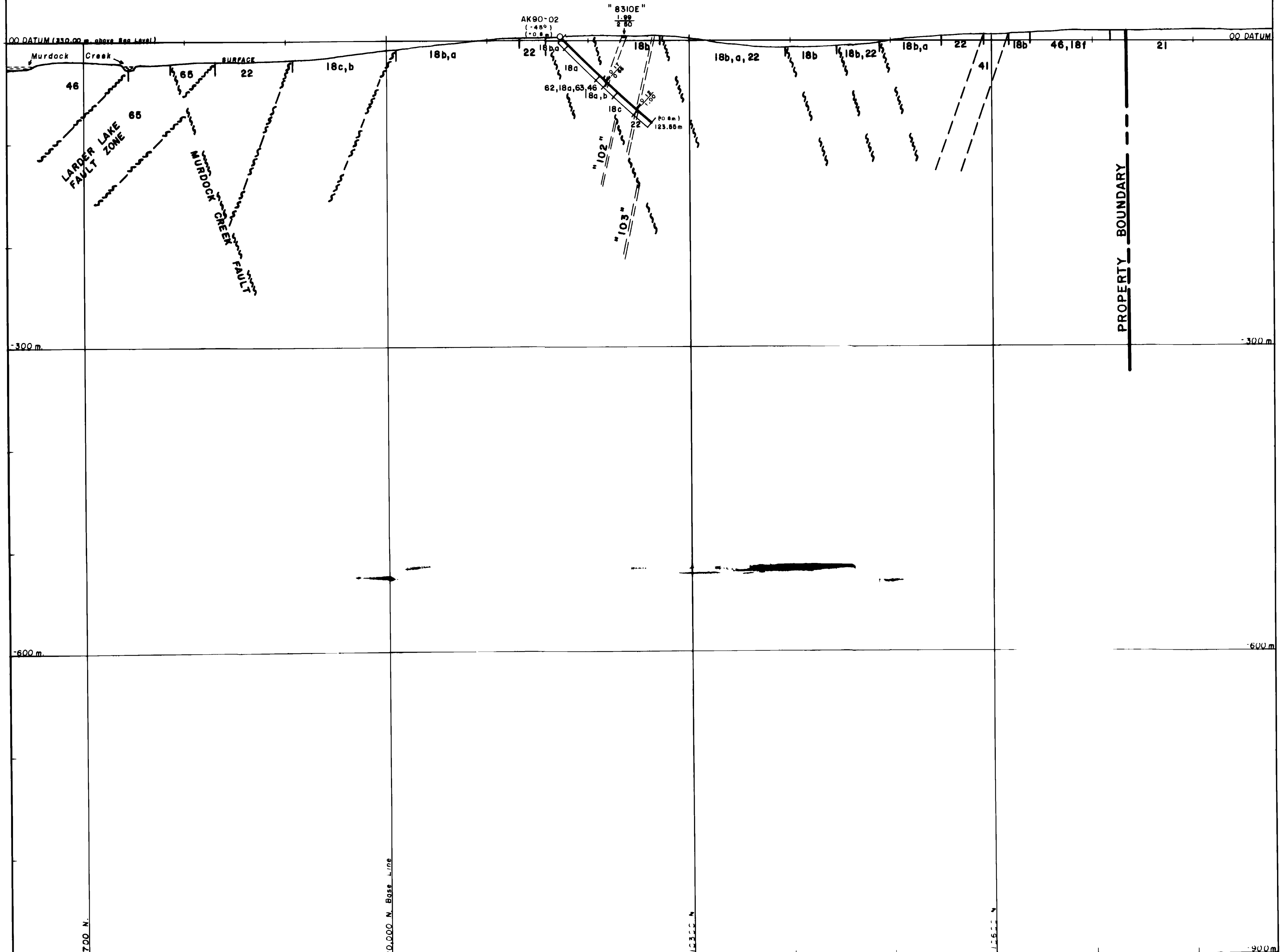
SECTION 8250E
HOLES AK90-07 & 23,
AK91-38 and AK92-42

PROJECT No	78-JV-78	DATA BY	W. Benham / M. Mason
NTS	42A / 1	DRAWN BY	B.H. Madill, Tech
DRAWING No	DC-054	DATE	Revised Sept., 1992

SCALE: 1:25,000

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LEGEND

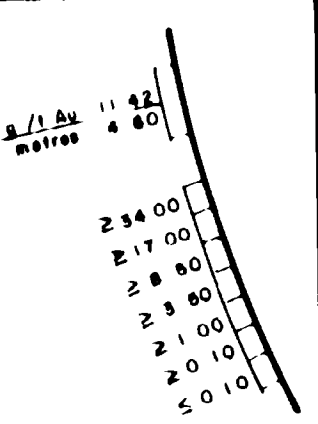
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61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	23 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
412 Lamprophyre	18a Ash Tuff
45 Syenite	18b Lapilli Tuff
451 Augite Syenite	18c Block Tuff
452 Mafic Syenite	18d Lithic Tuff
455 Feldspar Porphyry	18e Monolithic Tuff
456 Hornblende-Feldspar Porphyry	18f Flow

SYMBOLS

- Bedding, Contacts
- Breccia
- Folding direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization

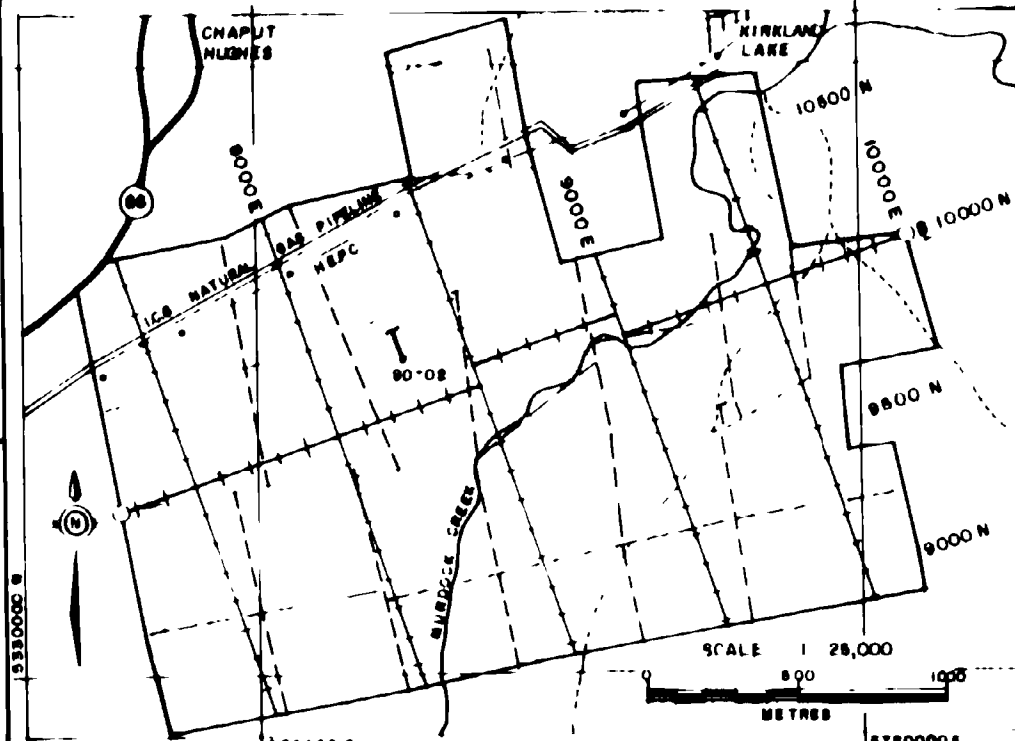
ABBREVIATIONS

- cp - Chalcopyrite
- mo - Molybdenite
- gf - Graphitic
- mag - Magnetite
- pb - Galena
- qv - Quartz Vein
- sh - Sheared
- vg - Visible Gold



NOTES

1) Magnetic Declination = 15° 00' West



BATTLE MOUNTAIN (CANADA) INC

KIRKLAND LAKE PROJECT
 Queenston Mining Inc
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY

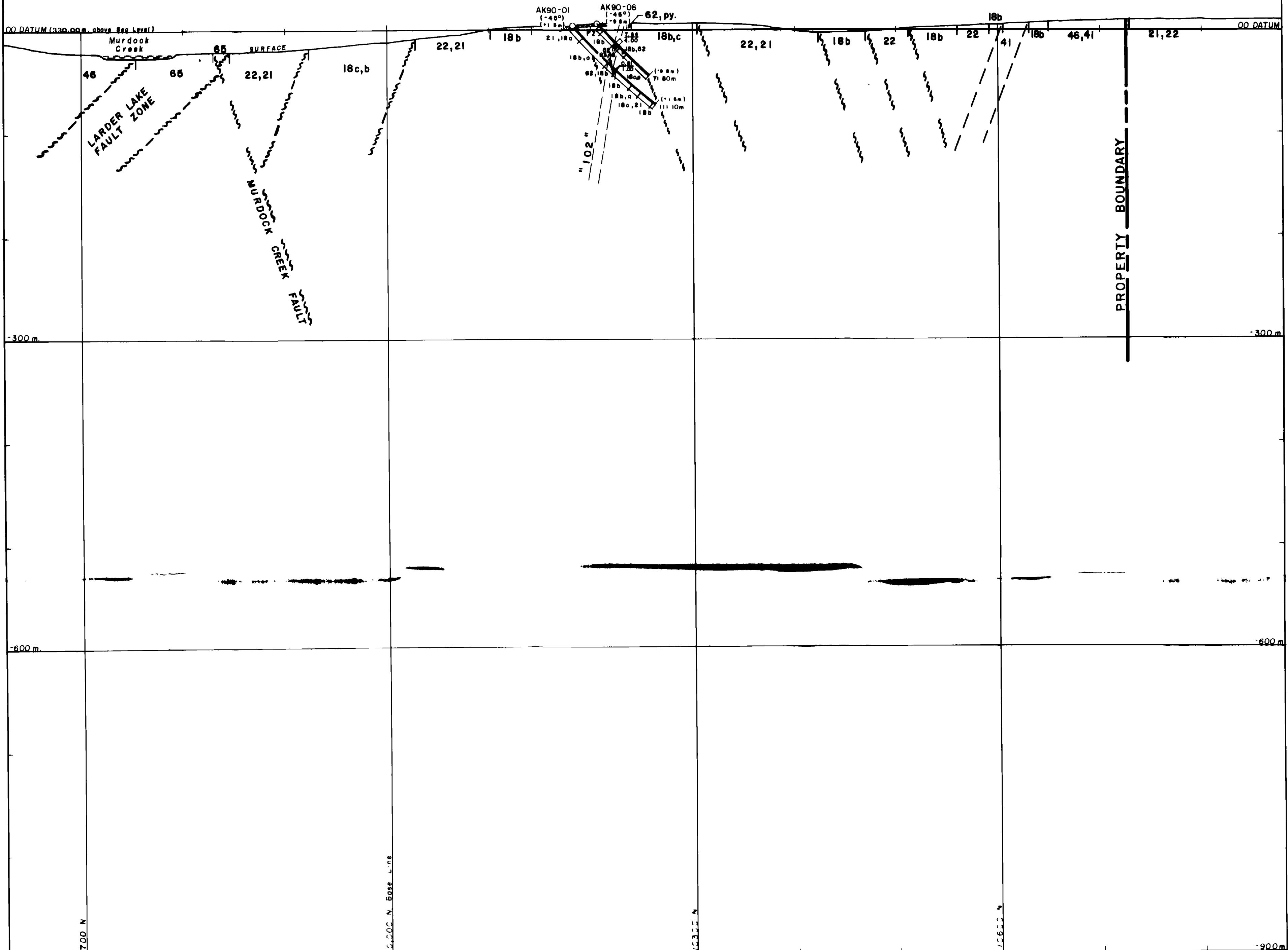
SECTION 8300 E
 HOLE AK90-02

PROJECT No. 78-JV-78	DATA BY. W. Benham / M. Mason
NTS 48A / 1	DRAWN BY B. H. Madill, Tech
DRAWING No. DC-055	DATE April, 1992

SCALE: 1:2500

W.B.



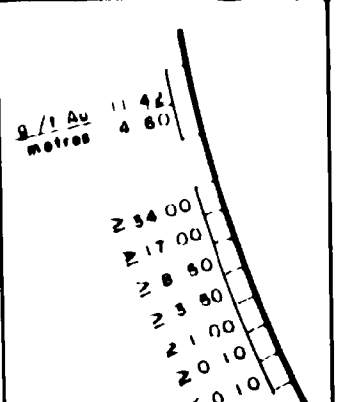


LEGEND

60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
412 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Block Tuff
462 Mafic Syenite	18d Lithic Tuff
465 Feldspar Porphyry	18e Monolithic Tuff
466 Hornblende - Feldspar Porphyry	18f Flow

SYMBOLS

- Bedding, Contacts
- Breccia
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization

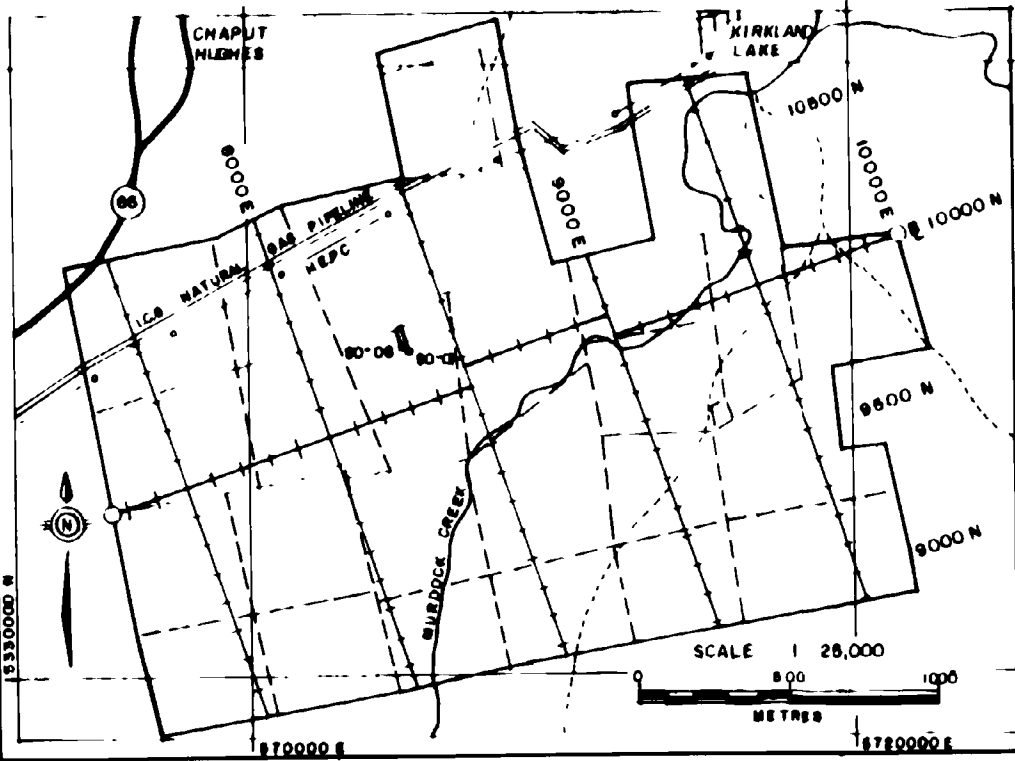


ABBREVIATIONS

- cp - Chalcopyrite
- mo - Molybdenite
- gf - Graphitic
- mag - Magnetite
- pb - Galena
- qv - Quartz Vein
- sh - Sheared
- vg - Visible Gold

NOTES

1) Magnetic Declination = 13° 00' West



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
 Queenston Mining Inc
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY

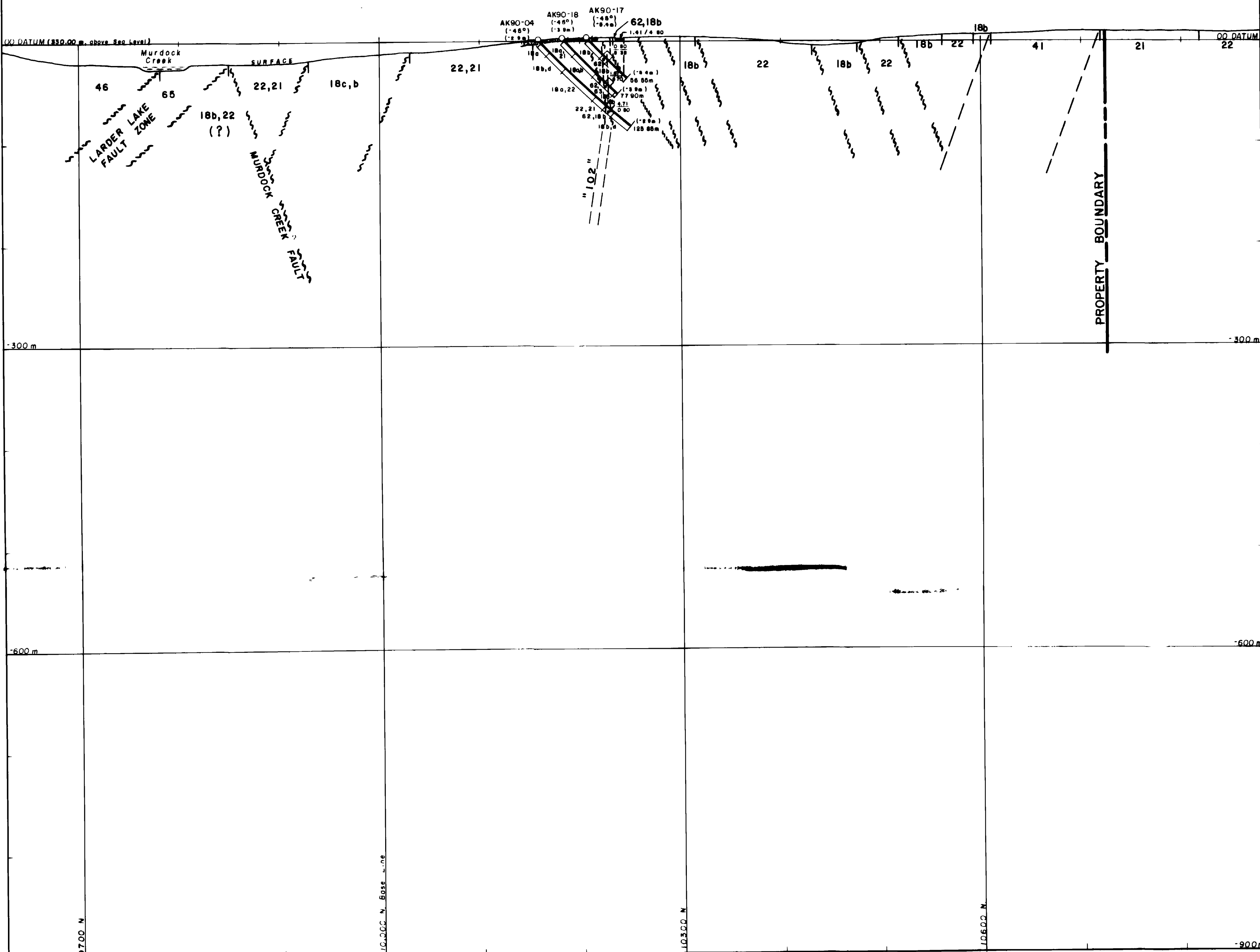
SECTION 8350 E
 HOLES AK90-01 & 06

PROJECT No. 78-JV-28	DATA BY. W. Benham / M. Masson
NTS 48A / 1	DRAWN BY B. H. Madill, Tech
DRAWING No. DC-056	DATE. April, 1992

SCALE: 1:2500

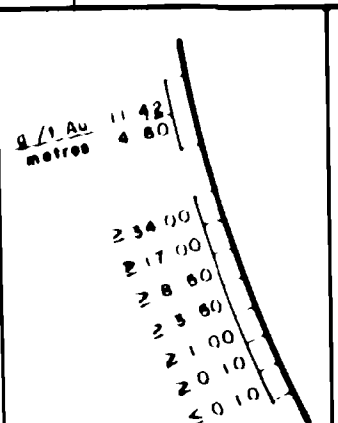
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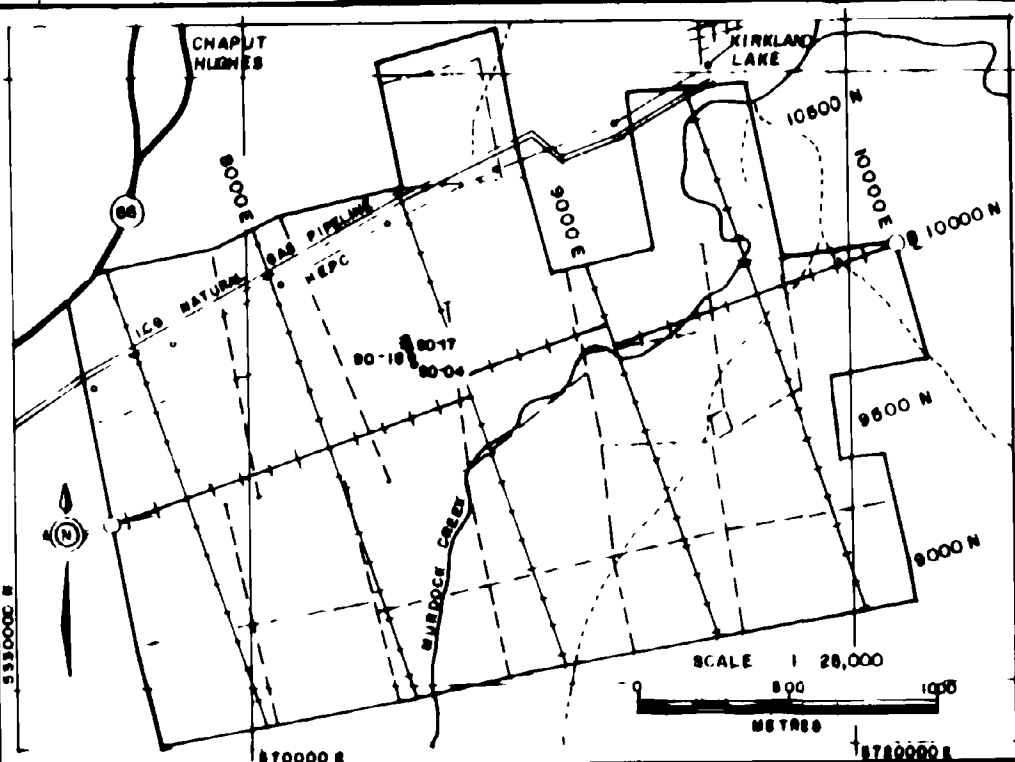
LEGEND	
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
42 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Block Tuff
462 Mafic Syenite	18g Lithic Tuff
465 Feldspar Porphyry	18e Monolithic Tuff
466 Hornblende - Feldspar Porphyry	18f Flow

SYMBOLS	
	Bedding/Contacts
	Breccia
	Facing direction
	Foliation
	Fault, Fault Zone
	Drag folding
	Pyrite Mineralization



ABBREVIATIONS	
cp	Chalcopyrite
mo	Molybdenite
gf	Graphite
mag	Magnetite
pb	Galena
qv	Quartz Vein
sh	Sheared
vq	Visible vein

NOTES
 1) Magnetic Declination = 13°00 West



BATTLE MOUNTAIN (CANADA) INC.

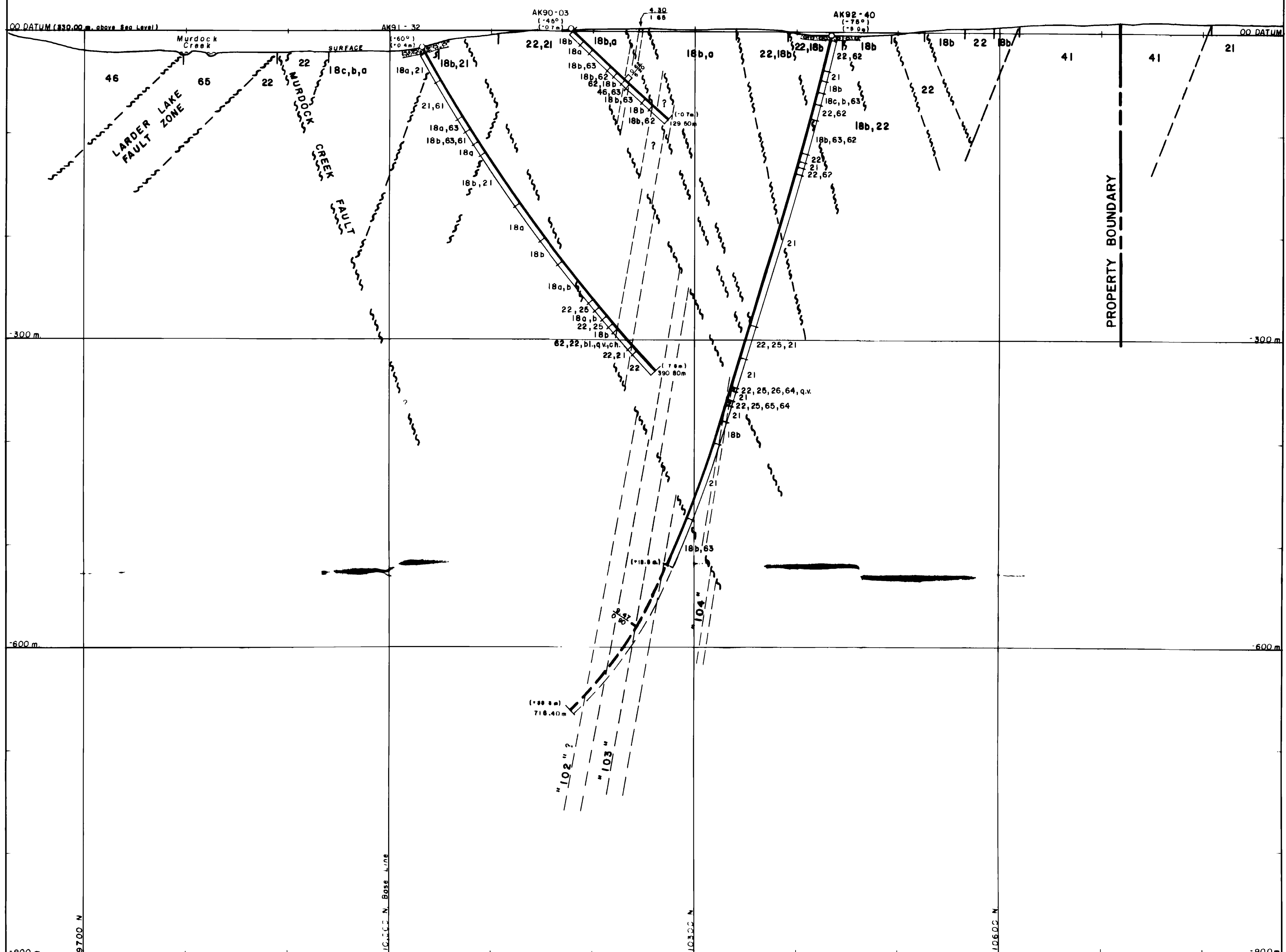
KIRKLAND LAKE PROJECT
 Queenston Mining Inc
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY

SECTION 8375E
 HOLES AK90-04,17,18

PROJECT No. 78-JV-28	DATA BY: W Benham/M Mason
NTS 42A/1	DRAWN BY: B.H. Madill, Tech.
DRAWING No. DC-057	DATE: April, 1992

SCALE: 1:2500

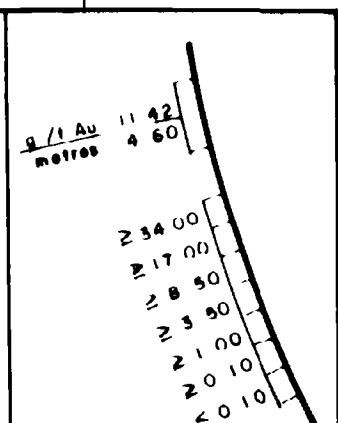




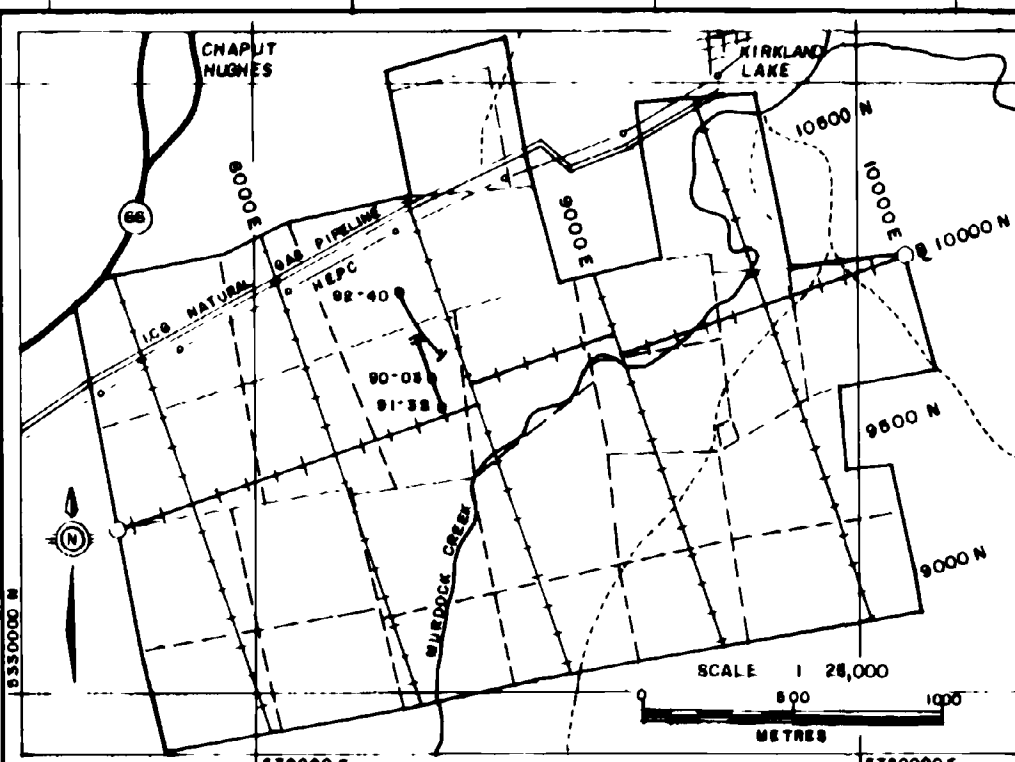
LEGEND	
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
42 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Block Tuff
462 Mafic Syenite	18d Lithic Tuff
465 Feldspar Porphyry	18e Monolithic Tuff
466 Hornblende - Feldspar Porphyry	18f Flow

SYMBOLS	
	Bedding, Contacts
	Breccia
	Facing direction
	Foliation
	Fault, Fault Zone
	Drag Folding
	Pyrite Mineralization

ABBREVIATIONS	
cp	Chalcopyrite
mo	Molybdenite
gf	Graphitic
mag	Magnetite
pb	Galena
qv	Quartz Vein
sh	Sheared
vg	Visible Gold



NOTES
1) Magnetic Declination = 13° 00' West



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8400 E
HOLES AK90-03,
AK91-32 and AK92-40

PROJECT No. 78-JV-28	DATA BY: W Benham / M Masson
N.T.S. 48A / 1	DRAWN BY: B H Madill, Tech.
DRAWING No. DC-058	DATE: April, 1992

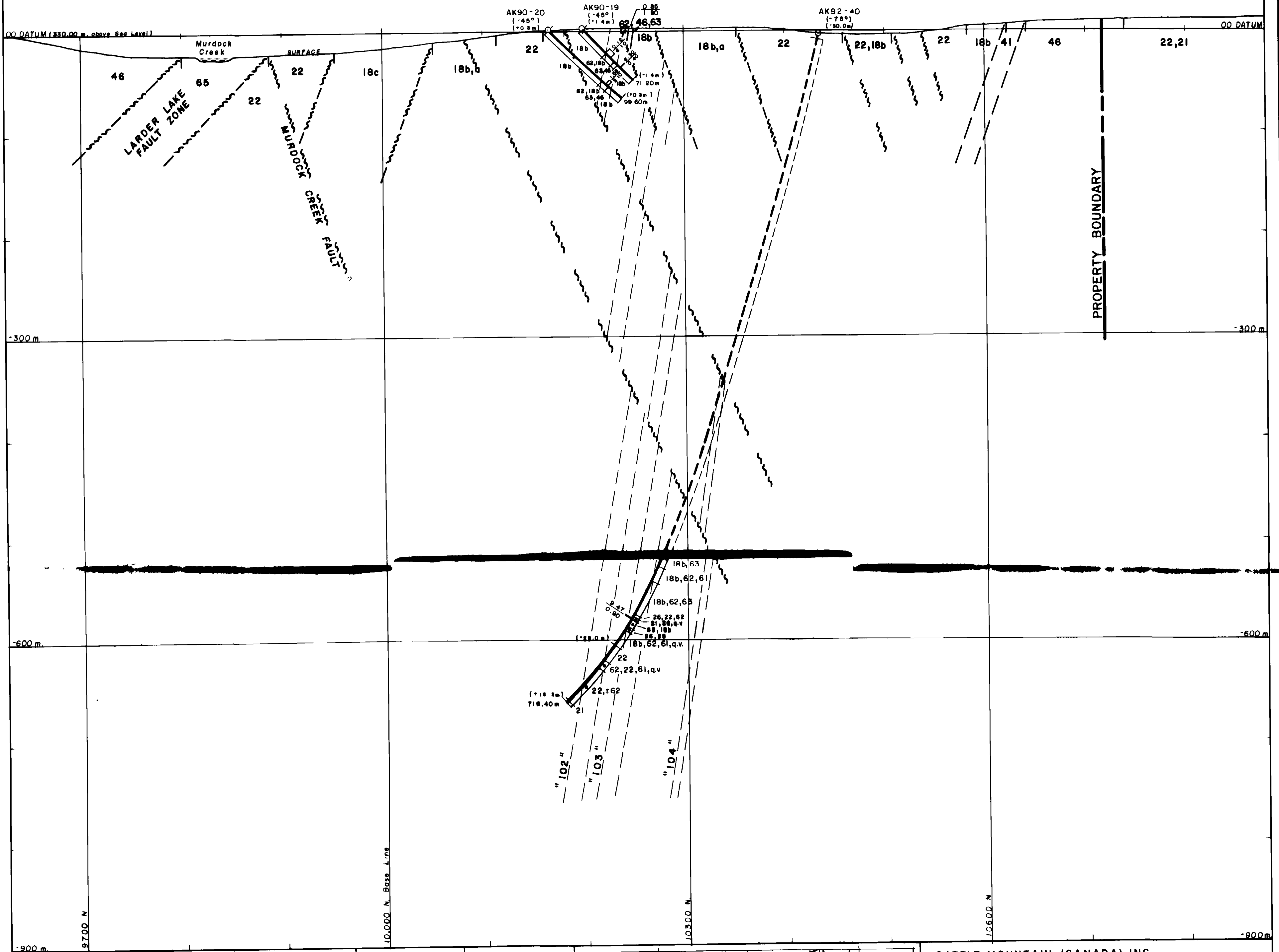
SCALE: 1:2500

W Benham



161°

341°



60 ALTERATION

- 61 Chloritic
- 62 Sericitic
- 63 Hematitic
- 64 Silicic
- 65 Carbonatized

40 INTRUSIVES

- 41 Diabase
- 412 Lamprophyre
- 46 Syenite
- 461 Augite Syenite
- 462 Mafic Syenite
- 465 Feldspar Porphyry
- 466 Hornblende - Feldspar Porphyry

20 SEDIMENTS

- 21 Conglomerate
- 22 Graywacke
- 25 Siltstone
- 26 Mudstone

10 VOLCANICS

- 18 Trachytes
- 18a Ash Tuff
- 18b Lapilli Tuff
- 18c Block Tuff
- 18d Lithic Tuff
- 18e Monolithic Tuff
- 18f Flow

SYMBOLS

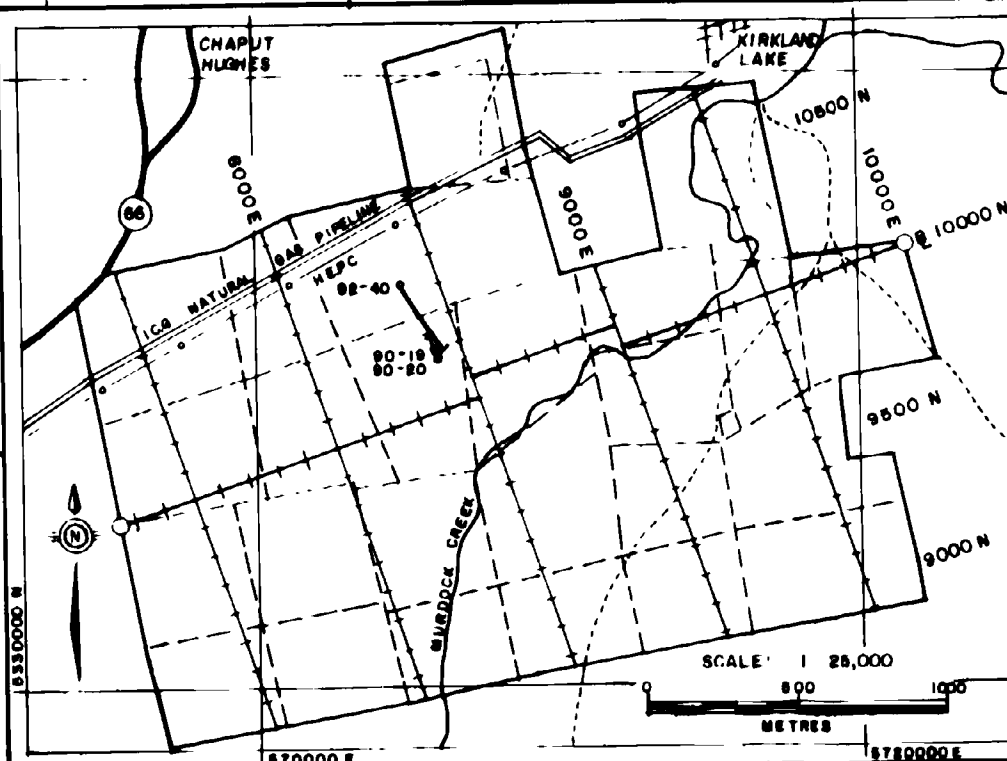
- Bedding, Contacts
- Braccio
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization

ABBREVIATIONS

- cp - Chalcopyrite
- mo - Molybdenite
- qt - Graphitic
- mag - Magnetite
- pb - Galena
- qv - Quartz Vein
- sh - Sheared
- vg - Visible Gold

NOTES

- 1) Magnetic Declination = 15° 00' West



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8425 E

HOLES AK90-19 & 20
and AK92-40

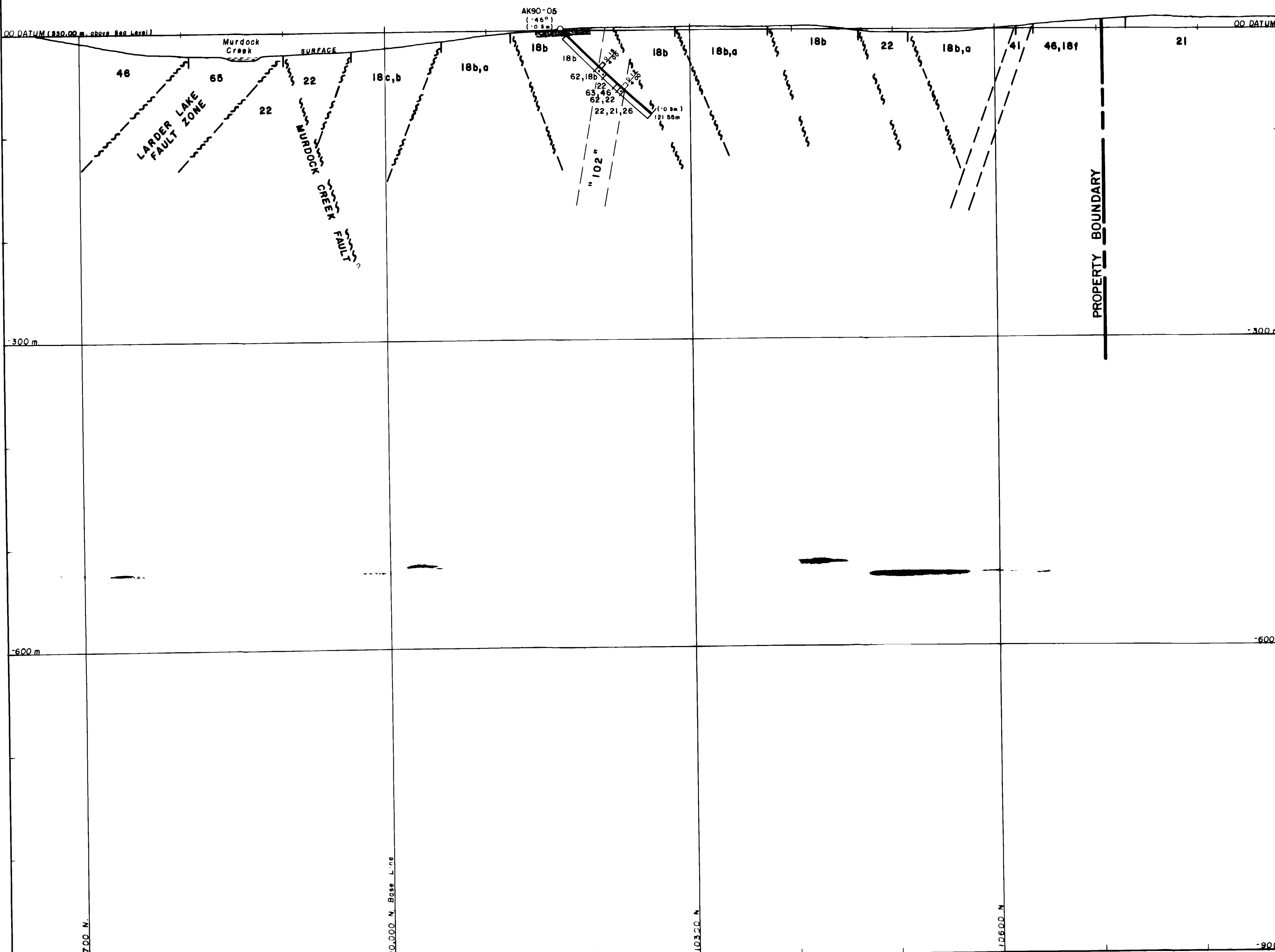
PROJECT No 78-JV-28 DATA BY: W Benham / M. Masson

NTS. 48 A / 1 DRAWN BY: B. H. Madill, Tech

DRAWING No: DC-059 DATE: March 1992

SCALE: 1:2500



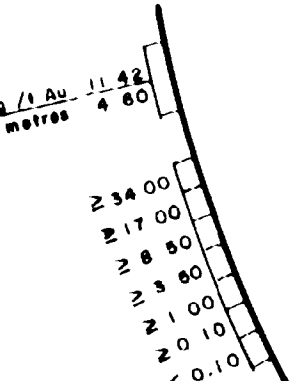


LEGEND

60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
412 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Black Tuff
462 Mafic Syenite	18d Lithic Tuff
465 Feldspar Porphyry	18e Monolithic Tuff
466 Hornblende - Feldspar Porphyry	18f Flow

SYMBOLS

- Bedding, Contact
- Breccia
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization

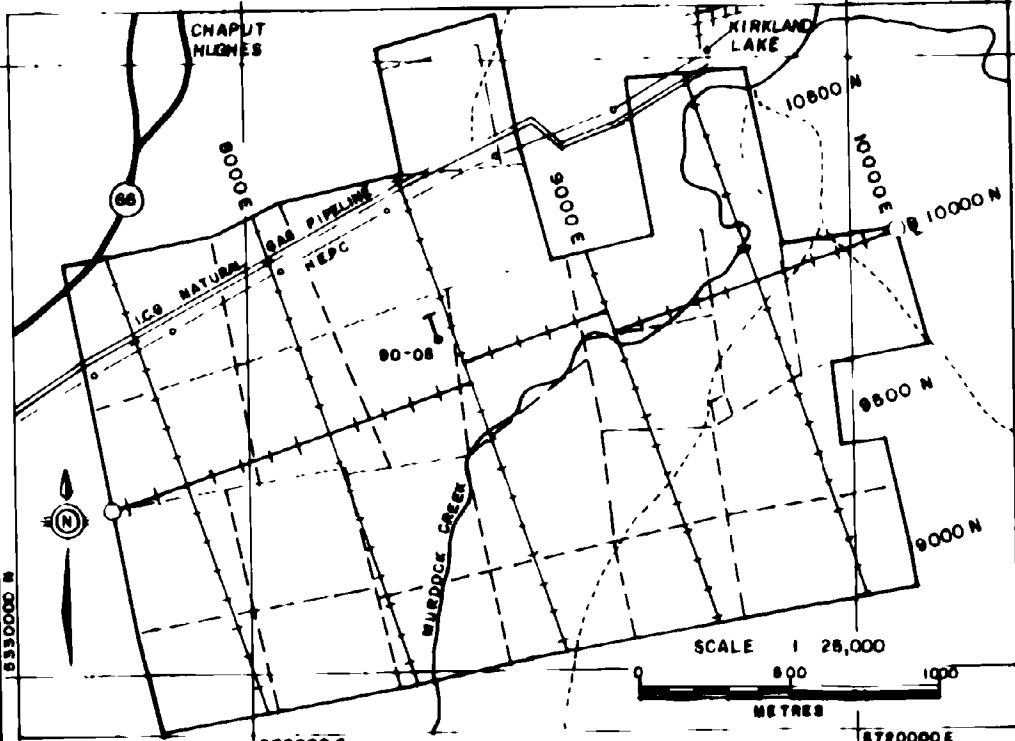


ABBREVIATIONS

- cp - Chalcopyrite
- mo - Molybdenite
- gf - Graphitic
- mag - Magnetite
- pb - Galena
- qv - Quartz Vein
- sh - Sheared
- vg - Visible Gold

NOTES

1) Magnetic Declination = 13° 00' West



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

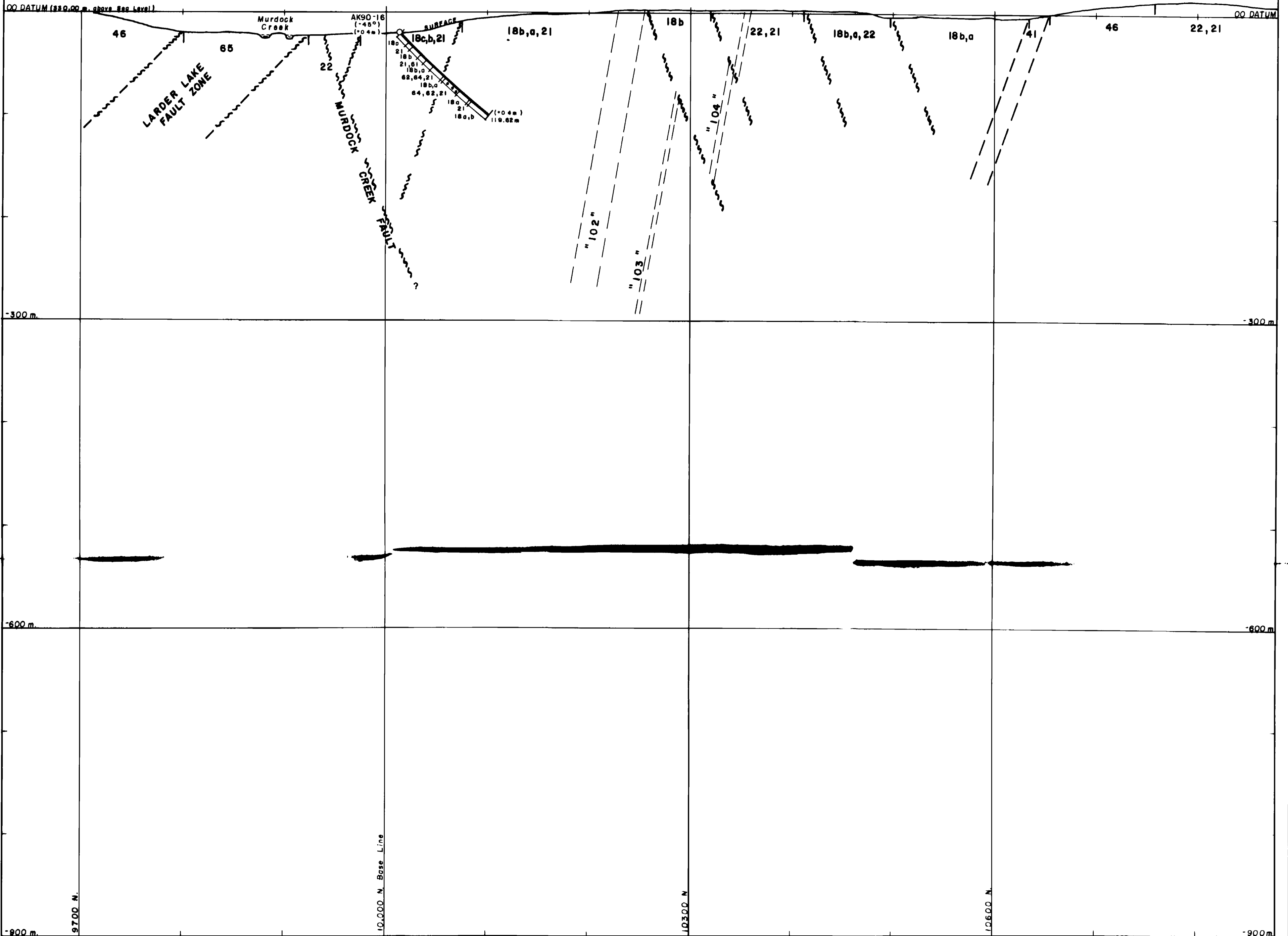
SECTION 8450 E
HOLE AK90-05

PROJECT No: 78-JV-28	DATA BY: W. Benham / M. Masson
NTS: 48 A / 1	DRAWN BY: B. H. Madill, Tech.
DRAWING No: DC-060	DATE: March 1992

SCALE: 1:25,000

0 50 100 METRES





LEGEND

60 ALTERATION

- 61 Chloritic
- 62 Sericitic
- 63 Hematitic
- 64 Silicic
- 65 Carbonatized

40 INTRUSIVES

- 41 Diabase
- 42 Lamprophyre
- 46 Syenite
- 461 Augite Syenite
- 462 Mafic Syenite
- 466 Feldspar Porphyry
- 465 Hornblende - Feldspar Porphyry

20 SEDIMENTS

- 21 Conglomerate
- 22 Graywacke
- 23 Siltstone
- 26 Mudstone

10 VOLCANICS

- 18 Trachytes
- 18a Ash Tuff
- 18b Lapilli Tuff
- 18c Block Tuff
- 18d Lithic Tuff
- 18e Monolithic Tuff
- 18f Flow

SYMBOLS

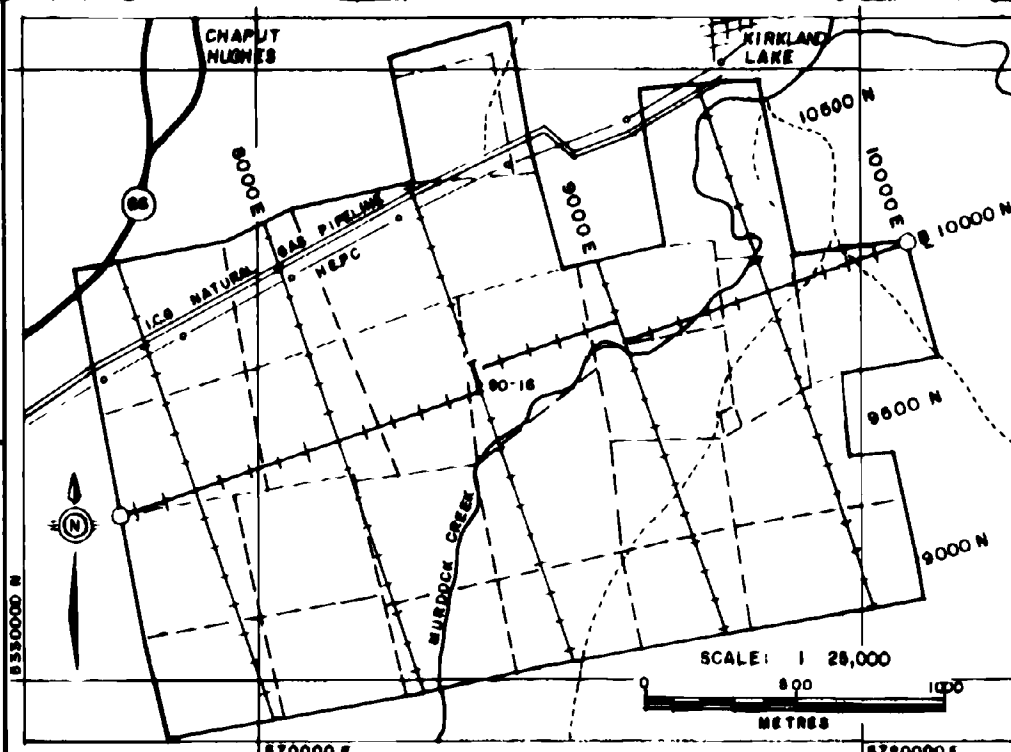
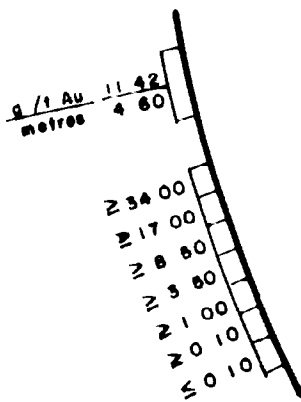
- Bedding, Contacts
- Breccia
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization

ABBREVIATIONS

- cp - Chalcopyrite
- mo - Molybdenite
- gf - Graphitic
- mag - Magnetite
- pb - Galena
- qv - Quartz Vein
- sh - Sheared
- vq - Visible Gold

NOTES

1) Magnetic Declination = 13° 00' West



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT

Queenston Mining Inc
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8500E

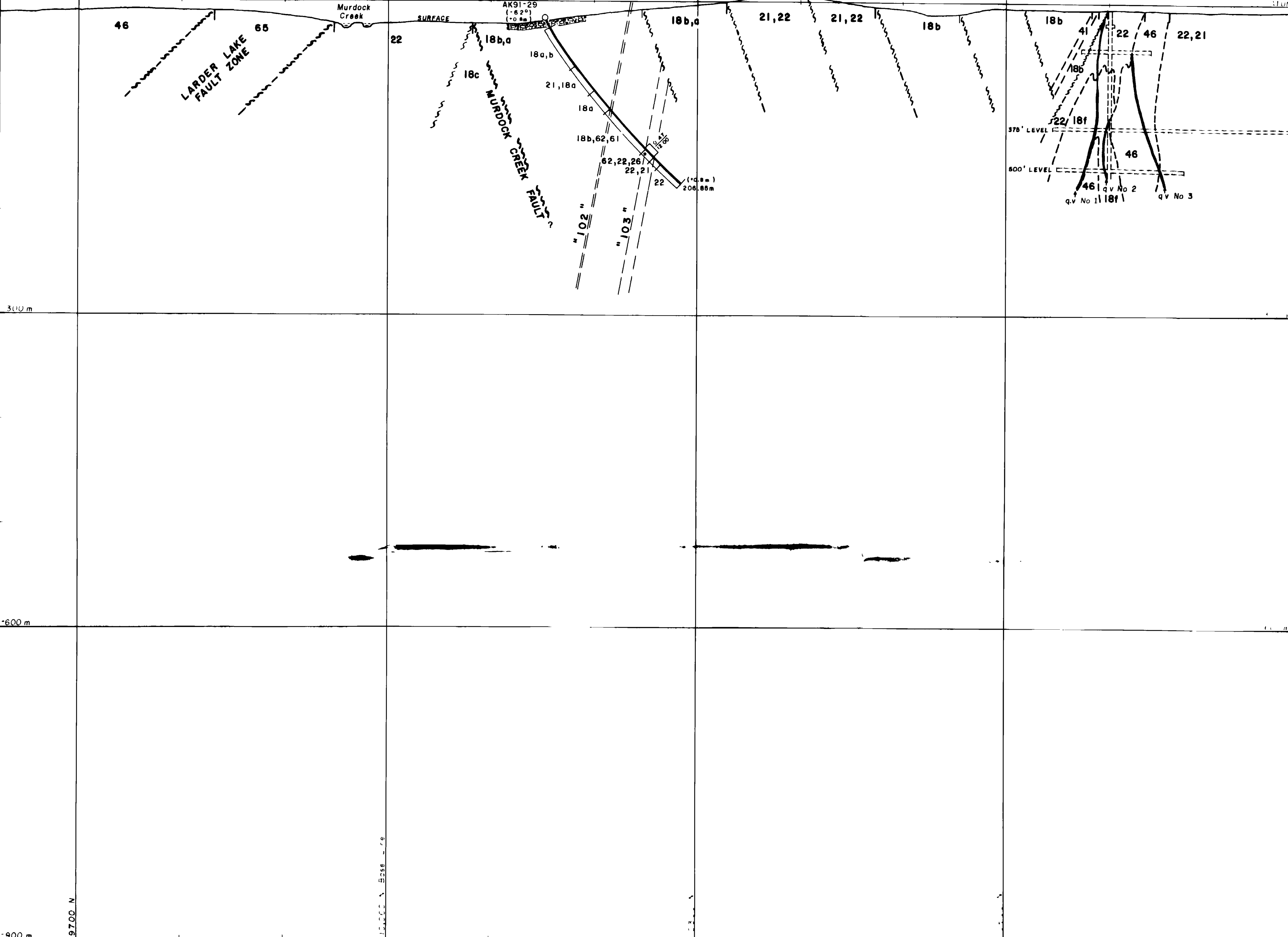
HOLE AK90-16

PROJECT No. 78-JV-28	DATA BY: W Benham / M Masson
NTS 42 A / 1	DRAWN BY: BH Madill, Tech
DRAWING No. DC-061	DATE: March 1992

SCALE: 1:2500

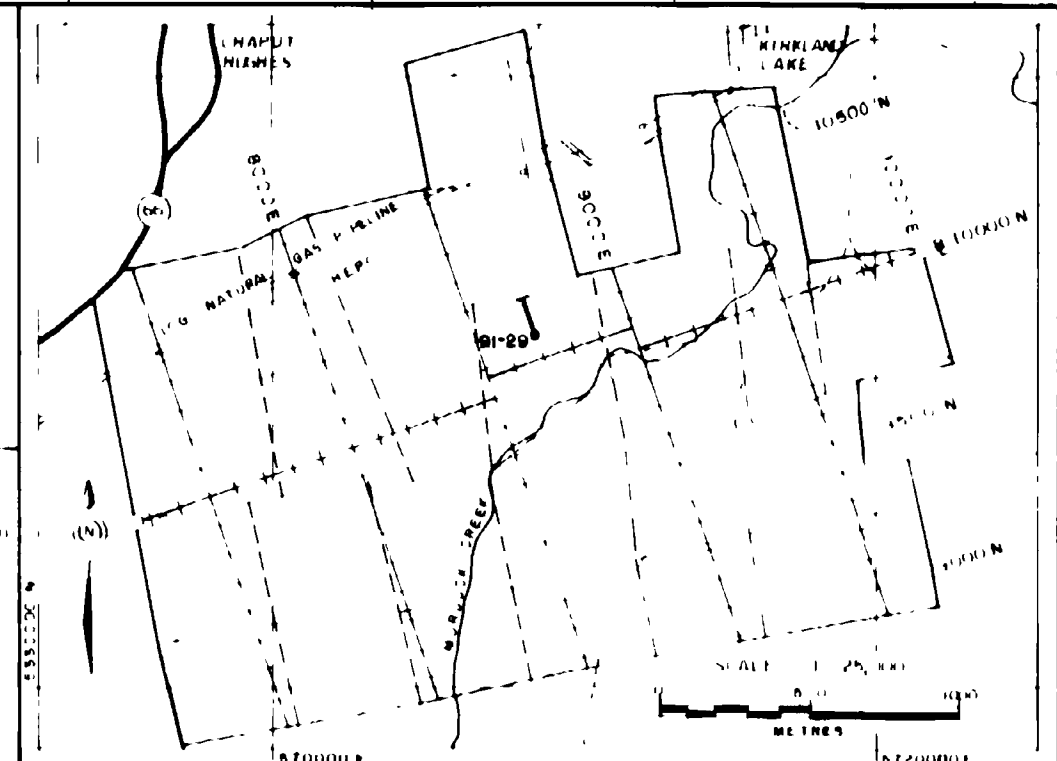


ALL ELEVATIONS (330 m above Sea Level)



60 ALTERATION		20 SEDIMENTS	
61	Chloritic	21	Conglomerate
62	Sericitic	22	Graywacke
63	Hematitic	25	Siltstone
64	Silicic	26	Mudstone
65	Carbonatized		
40 INTRUSIVES		10 VOLCANICS	
41	Diabase	18	Trachytes
412	Lamprophyre	18a	Ash Tuff
46	Syenite	18b	Lapilli Tuff
461	Augite Syenite	18c	Black Tuff
462	Mafic Syenite	18d	Lithic Tuff
465	Feldspar Porphyry	18e	Monolithic Tuff
466	Hornblende - Feldspar Porphyry	18f	Flow

SYMBOLS		ABBREVIATIONS	
	Bedding/contour line	cp	Chalcopyrite
	Breccia	ml	Molybdenite
	Facing direction	gf	Graphitic
	Foliation	mag	Magnetite
	Fault/Fault Zone	pb	Galena
	Drag folding	qv	Quartz Vein
	Pyrite Mineralization	sh	Shearlet
		v	Visible hole
NOTES		1) Magnetic Declination 15' 00" West	



BATTLE MOUNTAIN (CANADA) INC

KIRKLAND LAKE PROJECT
 Warminster Mining Inc
 (ONTARIO)
 AMALGAMATED KIRKLAND PROPERTY

SECTION 8700E
 HOLE AK91-29

PROJECT No. 75-10-11-1
 N.T.S. 12
 DRAWING No. DC-063
 SCALE 1:1000

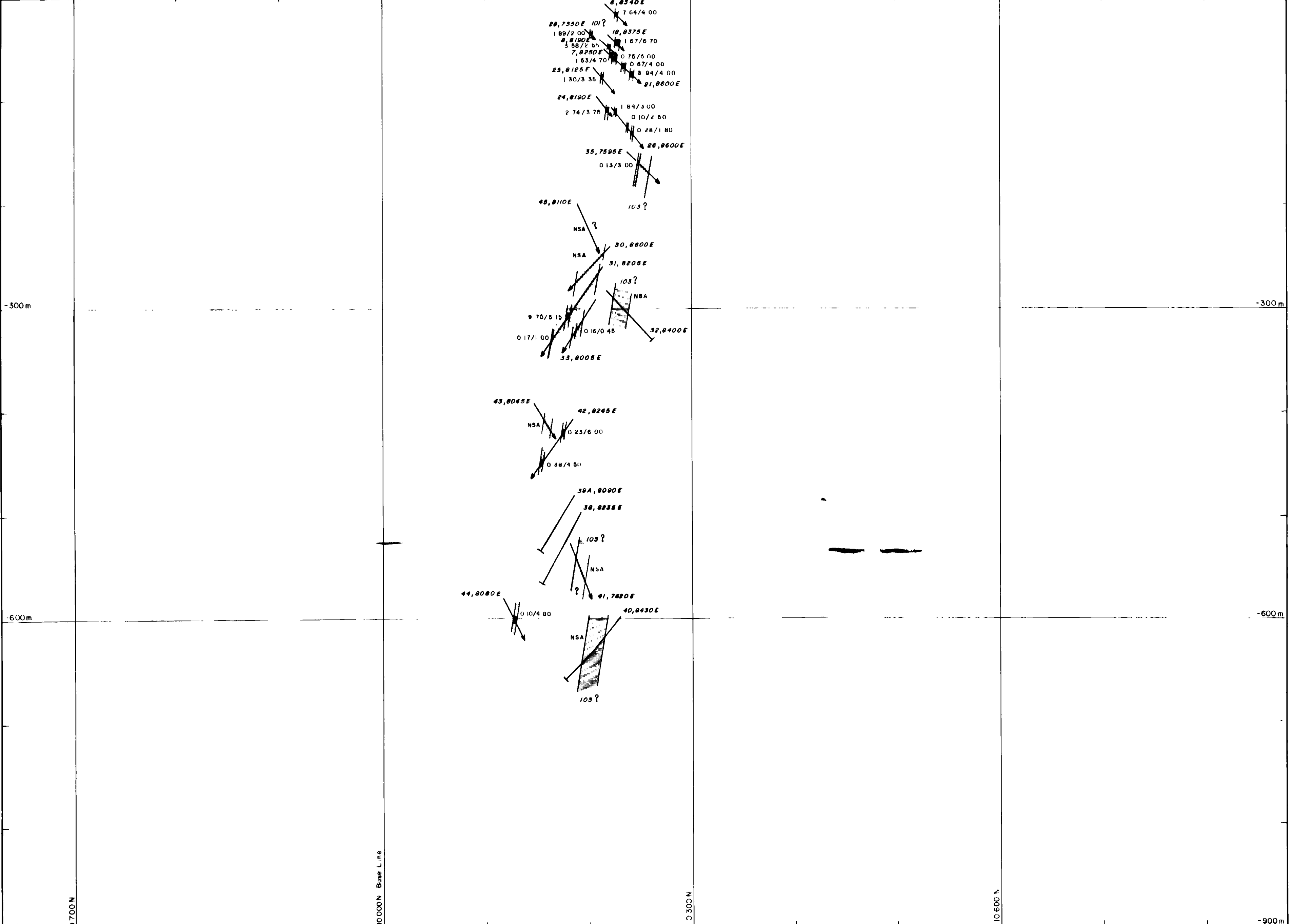
DATA BY W. Benham / M. Masson
 DRAWN BY B.H. Madill, Tech
 DATE March 1992

W.B.

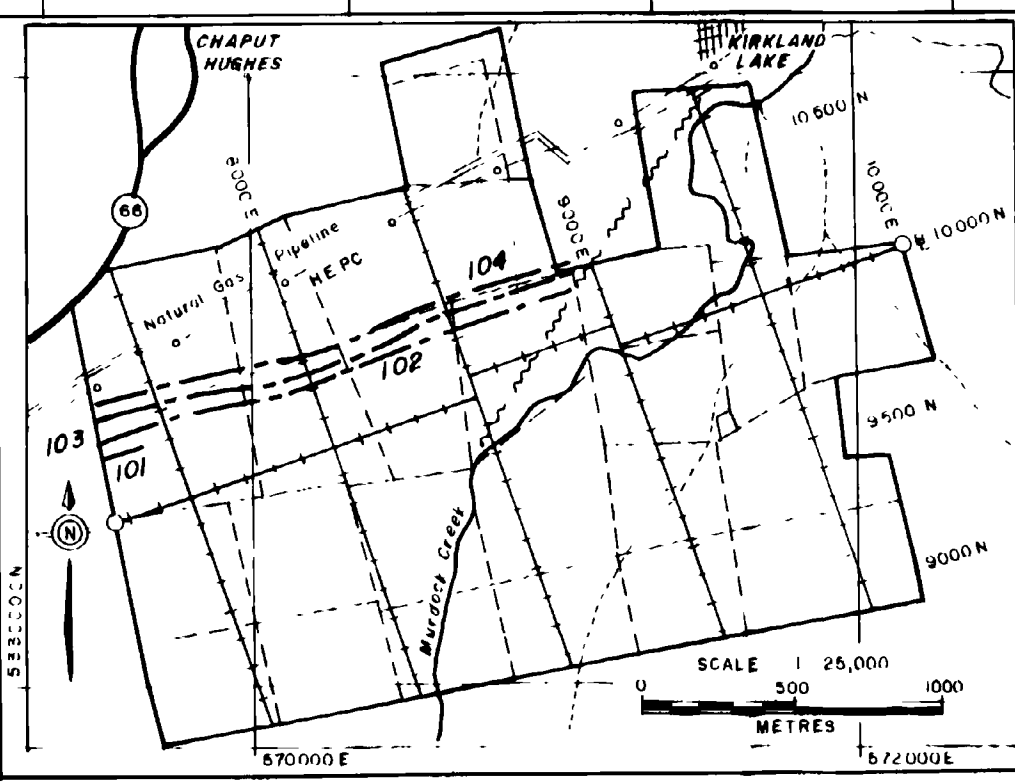
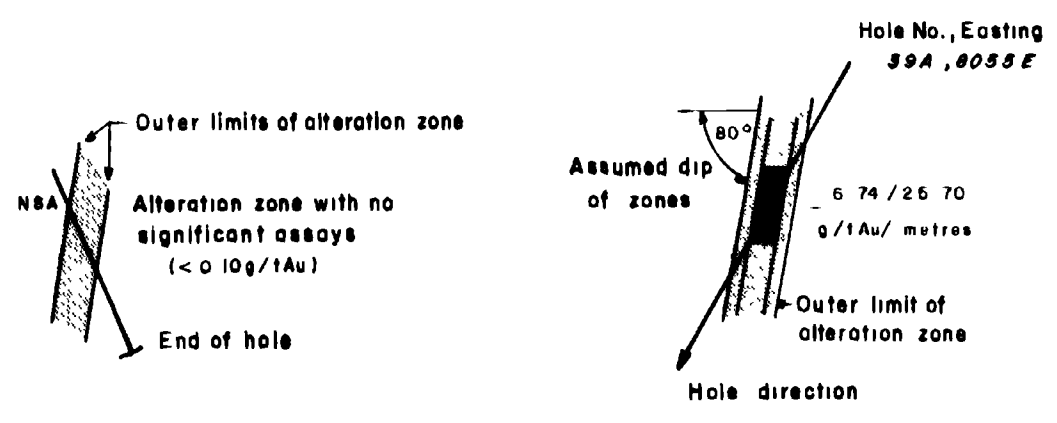



00 DATUM (330 (10 m above Sea Level))

00 DATUM



LEGEND




BATTLE MOUNTAIN (CANADA) INC. 

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY
COMPOSITE CROSS SECTION
"102" ZONE

PROJECT No	75-JV-2A	DATA BY	T.J. Bottrill/W. Benham
NTS	42A/1	DRAWN BY	E. Benham
DRAWING No	DC-067	DATE	October, 1992

SCALE 1:2500

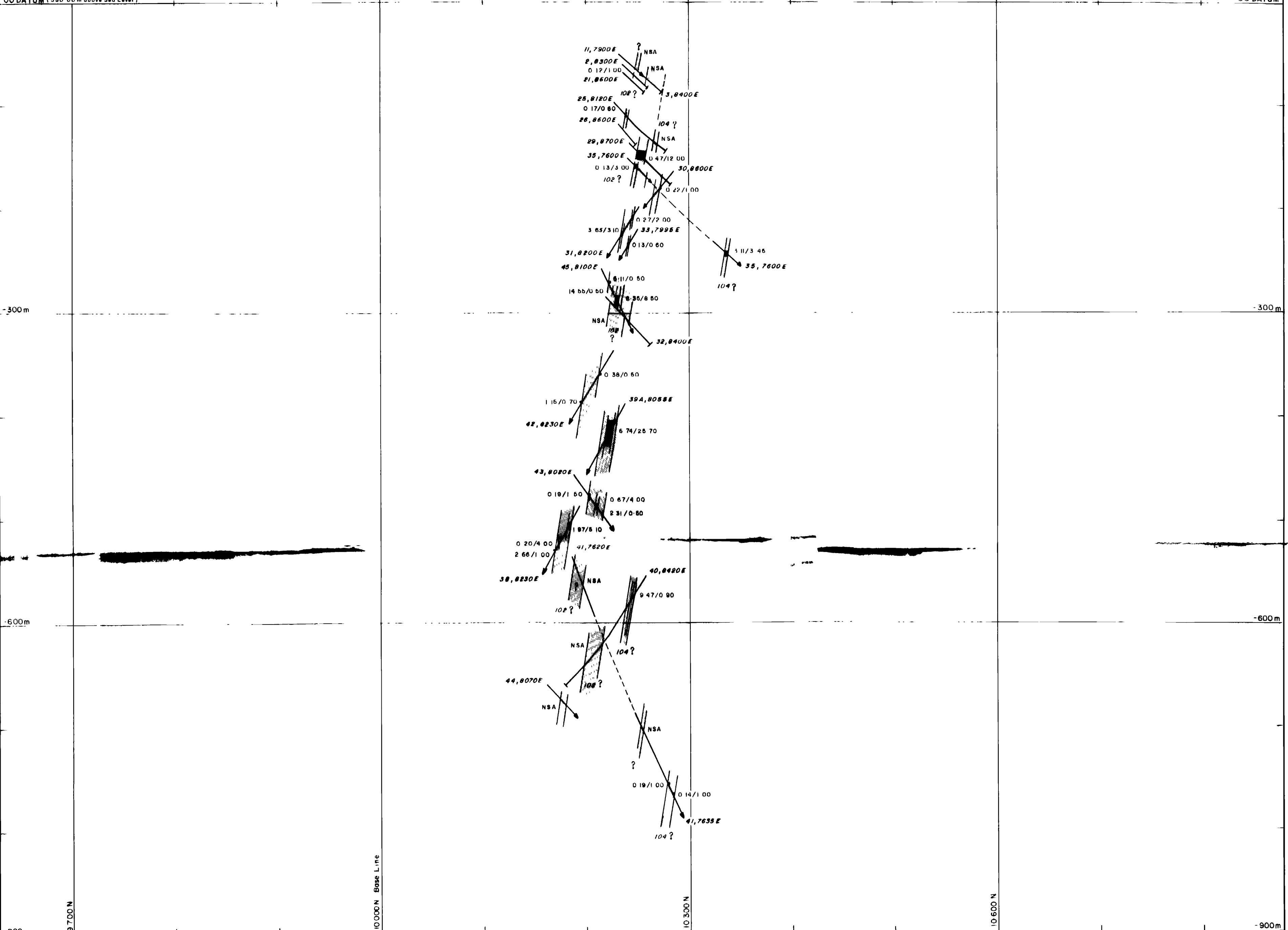


W.B.

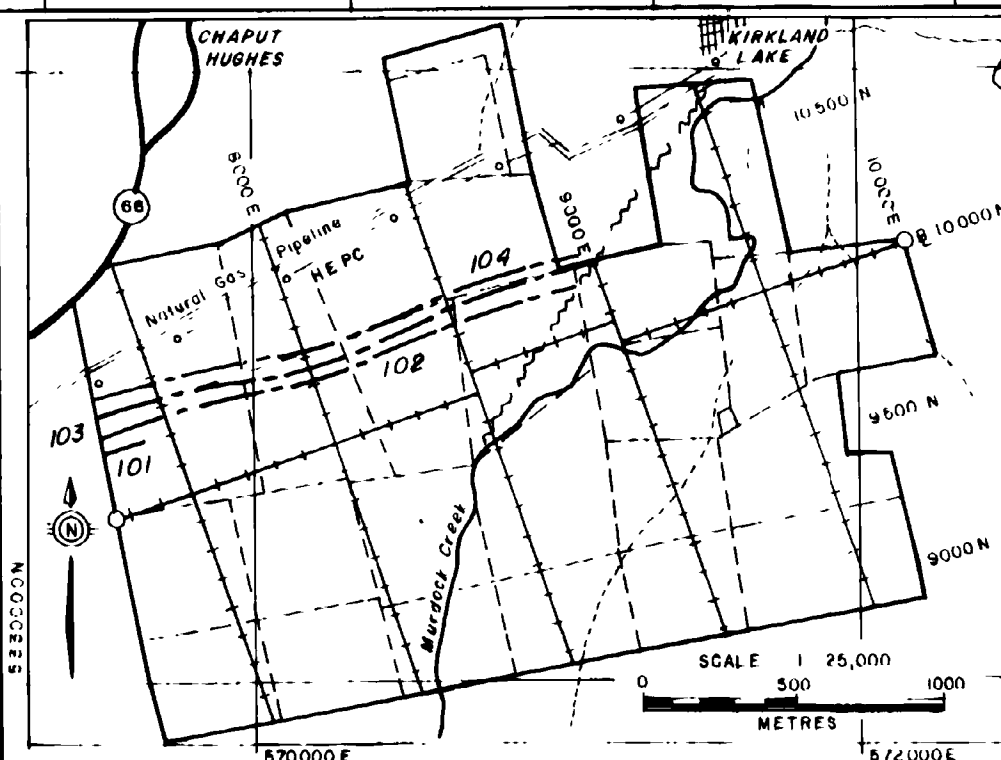
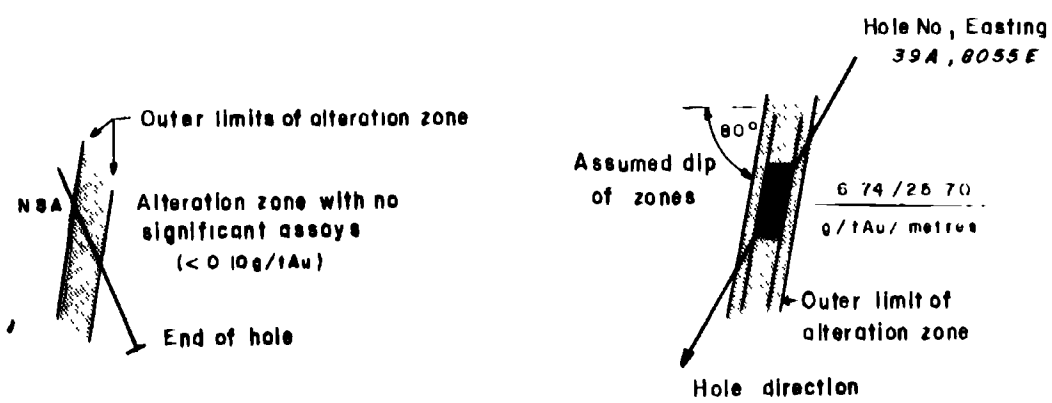


00 DATUM (330.00 m above Sea Level)

00 DATUM



LEGEND



BATTLE MOUNTAIN (CANADA) INC



KIRKLAND LAKE PROJECT
 Queenston Mining Inc
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY
COMPOSITE CROSS SECTION
"103" ZONE

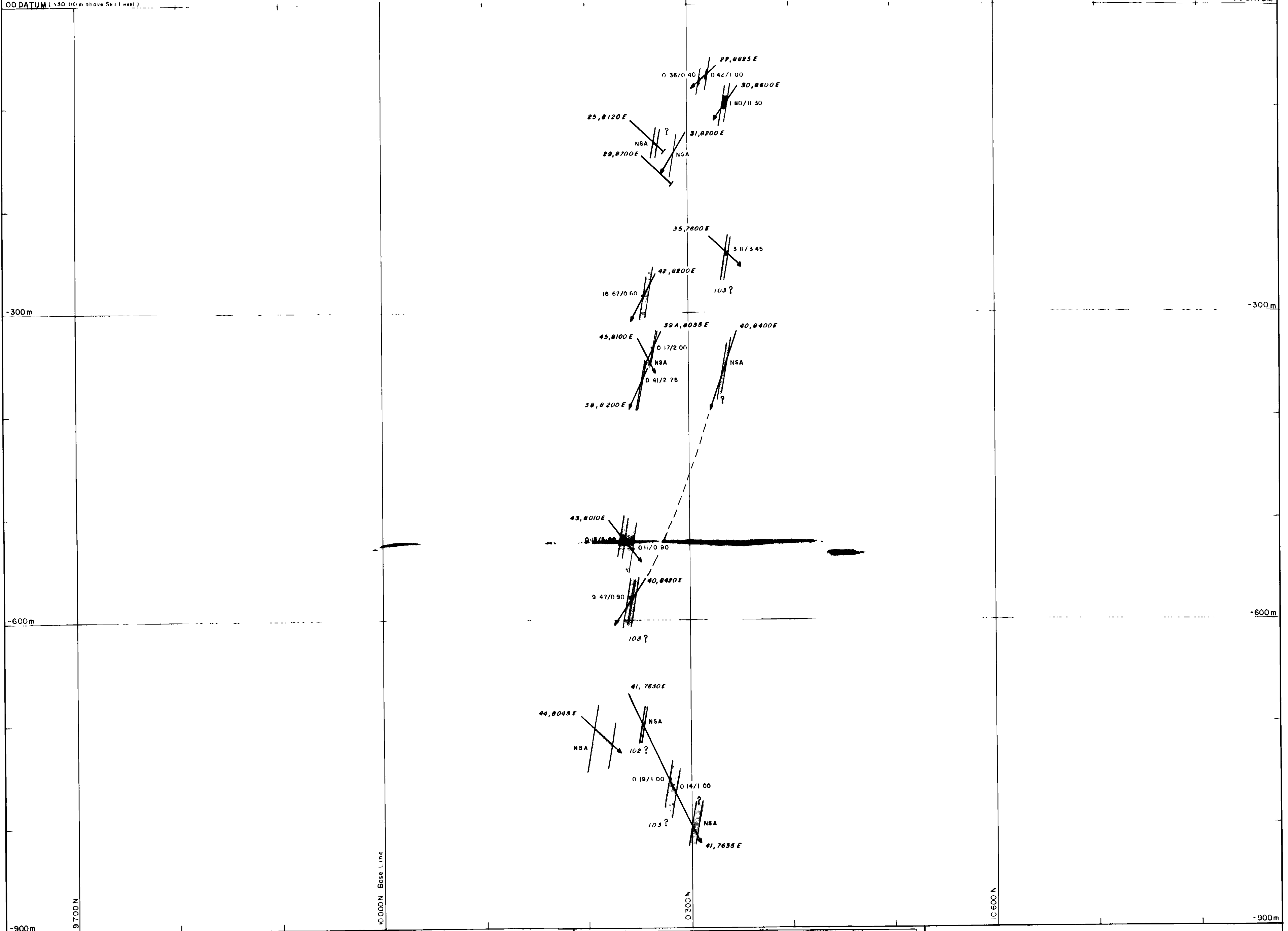
PROJECT No. 75 - JV - 28	DATA BY T.J. Batrill / W. Benham
NTS 42 A / 1	DRAWN BY E. Benham
DRAWING No. DC - 068	DATE October, 1992

SCALE 1 2500

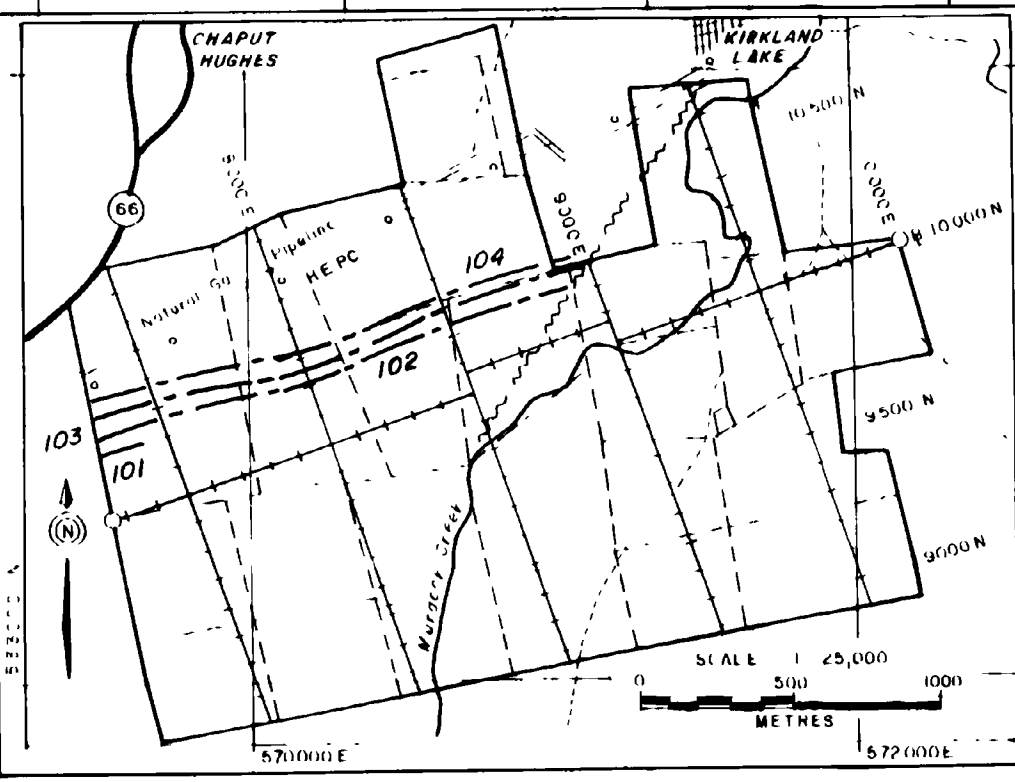
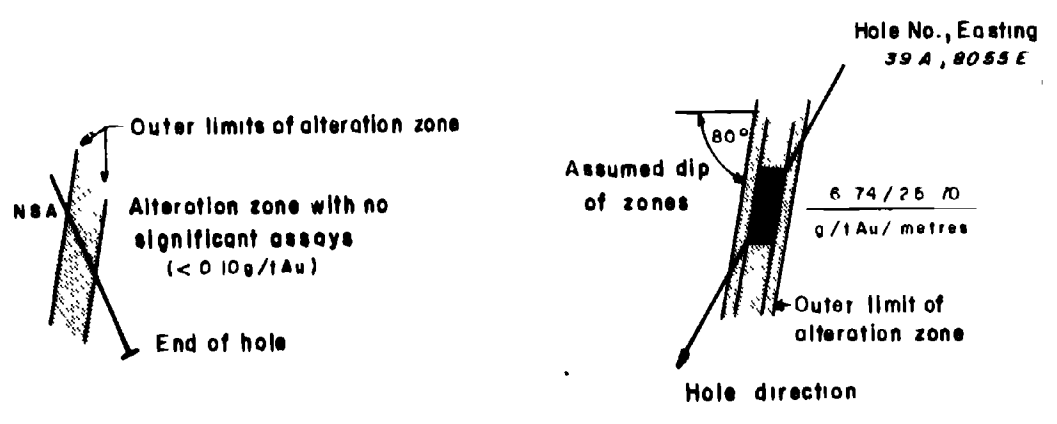


00 DATUM (1.50 (10m above Sea Level))

00 DATUM



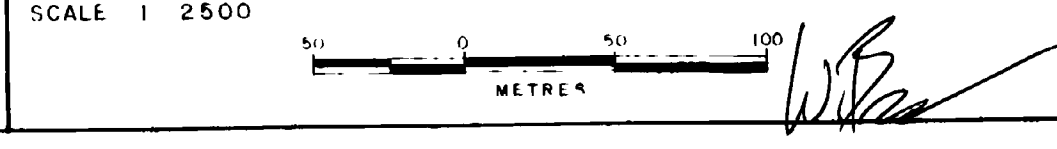
LEGEND



BATTLE MOUNTAIN (CANADA) INC
BATTLE MOUNTAIN GOLD COMPANY

KIRKLAND LAKE PROJECT
 Queenston Mining Inc
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY
COMPOSITE CROSS SECTION
"104" ZONE

PROJECT No	75-JV-28	DATA BY	T.J. Bottrill/W. Benham
NTS	42A/1	DRAWN BY	E. Benham
DRAWING No	DC-069	DATE	October, 1992



00 DATUM (330.00m above Sea Level)

00 DATUM

-300m

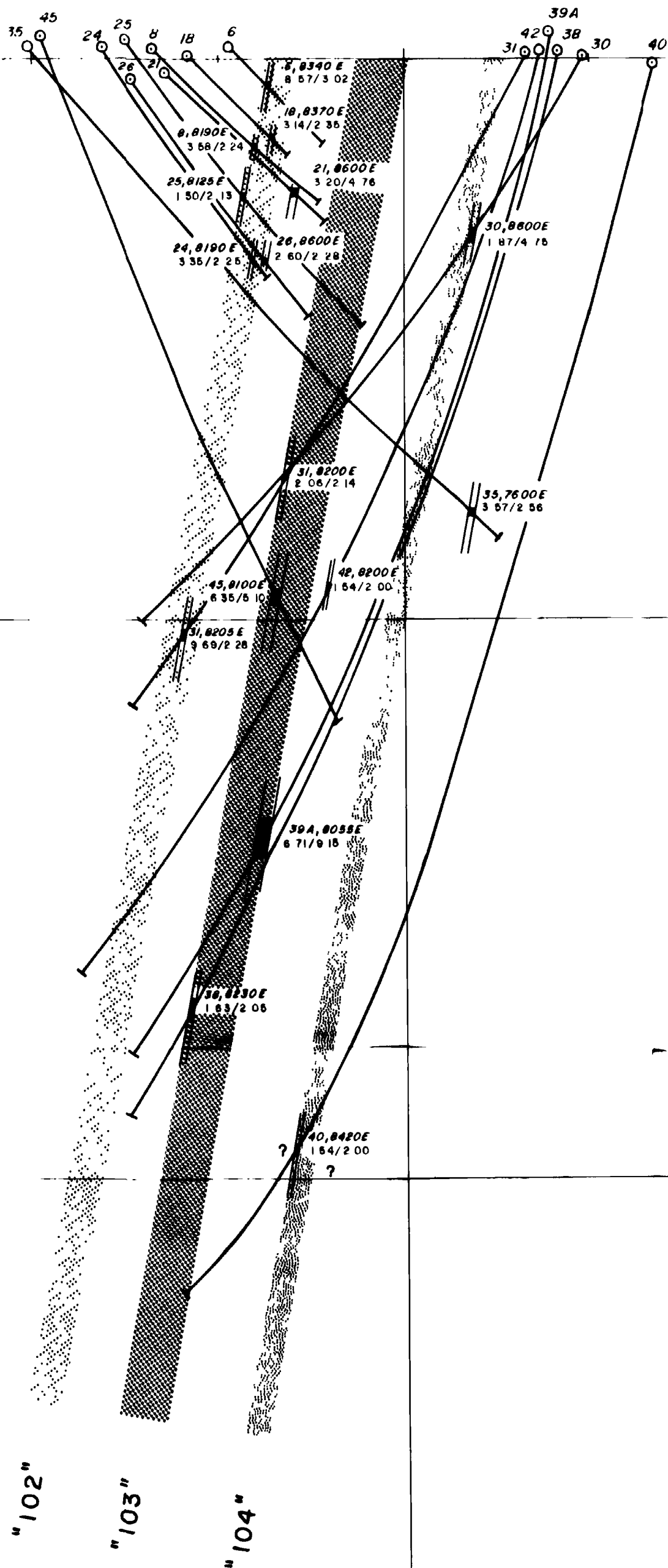
-300m

-600m

-600m

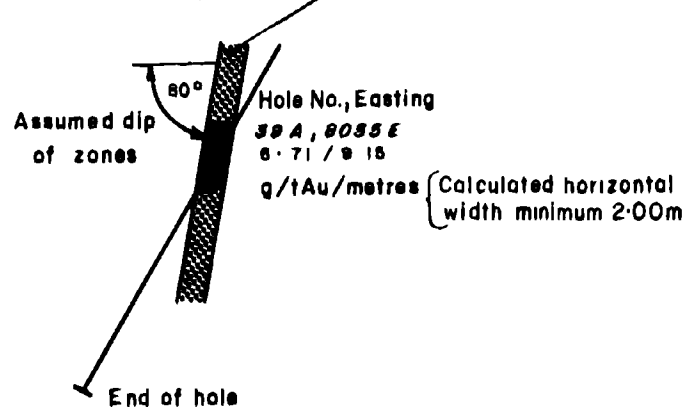
-900m

-900m



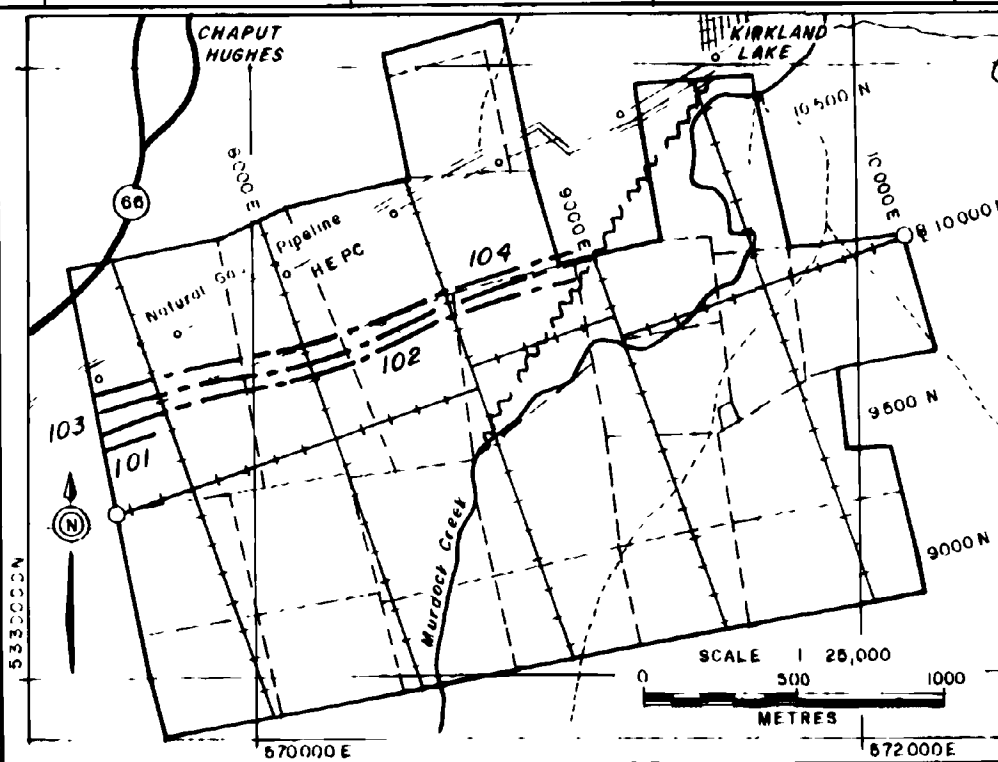
LEGEND

"103" Gold Zone/Structure



DRILL HOLES NOT SHOWN

Hole No.	Easting	g/tAu/m	Depth	Zone
7	8250	2.04/3.02	51	102
9	8150	2.92/2.03	55	102
20	8425	1.94/2.16	51	102
17	8370	1.26/2.56	17	102
28	7350	1.57/2.00	33	101



BATTLE MOUNTAIN (CANADA) INC



KIRKLAND LAKE PROJECT
 Queenston Mining Inc.
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY
COMPOSITE CROSS SECTION
 WITH > 3.00 GRAM-METRES HORIZONTAL WIDTH
 "102 / 103 / 104" Au ZONES

PROJECT No 75 - JV - 28 , DATA BY 1 J. Bottrill / W Benham

NTS 42 A / 1 DRAWN BY E. Benham

DRAWING No. DC - 073 DATE : October, 1992

SCALE 1 2500



W Benham



42A01NE075 DM82-081 TECK