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REPORT ON OVERBURDEN STRIPPING OUTCROP WASHING AND CHANNEL SAMPLING AMALGAMATED KIRKLAND PROPERTY (JULY - DECEMBER, 1989)

TECK TOWNSHIP, LARDER LAKE MINING DIVISION ONTARIO, CANADA

VOLUME 1

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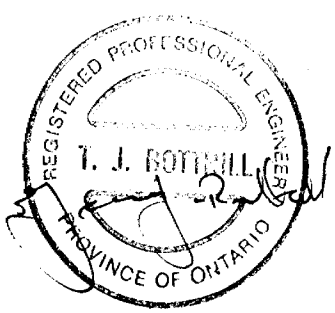
Kirkland Lake, Ontario
May, 1990

Terence J. Bottrill, P. Eng.



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1.0 SUMMARY

A comprehensive gold exploration program was carried out on the Amalgamated Kirkland Property located in the Larder Lake Mining Division, northeastern Ontario, by Battle Mountain (Canada) Inc.(BMCI). Geological mapping, prospecting, overburden stripping, outcrop washing, and channel sampling programs were completed during the 1989 field season. This program was part of BMCI's larger gold exploration project covering six properties in the Kirkland Lake area. All of the properties are presently held by BMCI under an option agreement with Queenston Mining Inc. (formerly HSK Minerals Ltd.) dated June 15,1989.

The exploration program led to the discovery of one new gold showing and the rediscovery of an unpublished historic showing. One showing (7290E) averaged 2.48 g/t Au over 6 metres, including 4.03 g/t over 2.0 metres, while the other (8350E) averaged 2.22 g/t Au across 6.0 metres including 5.0 g/t Au over 1.5 metres and 2.71 g/t over 1.5 metres. The 8350E zone was traced northeastward along strike for 50 metres. Both showings are located within very strong zones of deformation and alteration with good potential for continuity along strike.

From the results obtained to date, it is concluded that detailed mapping, followed by stripping of long narrow trenches perpendicular to the trend of the Kirkland Lake main break, proved to be a cost effective approach to locating new auriferous structures and the rediscovery of an historic showing, both with very encouraging assay results.

Further stripping is recommended to trace and sample the zones along strike, to be followed by diamond drilling.

2.0 INTRODUCTION

This report summarizes the overburden stripping, outcrop washing, and channel sampling program carried out by Battle Mountain (Canada) Inc. ("BMCI") during the 1989 field season from July 08 to December 12, 1989, on the Amalgamated Kirkland property. This program is part of BMCI's larger gold exploration project covering six properties in the Kirkland Lake area. All of the properties are presently held by BMCI under an option agreement with Queenston Mining Inc. (formerly HSK Minerals Ltd.) dated June 15, 1989.

The trenching program included the removal of overburden in strips 3 to 5 metres wide and up to 600 metres long. The strips were orientated perpendicular to the regional structure which parallels the Kirkland Lake Main Break and subsidiary structures which host all past and present producing mines.

Detailed geological mapping was followed by rock sampling. Initially, systematic sampling was carried out along the entire length of the trench. Later, because of time constraints, this was revised to sampling of only the most intensely deformed and altered zones. The geology and assay results for each trench are described briefly.

2.1 Location and access

The Amalgamated Kirkland property is located in the Larder Lake Mining Division and lies in the southeast quarter of Teck Township, immediately south and west of the town of Kirkland Lake (NTS 42A/1; UTM 538800E/568600N; See Fig. 1).

Access to the northeastern part of the property is provided by Main and Earl streets and to the northwest through Government Road West (Chaput Hughes) and the Industrial Plaza on Highway 66.

A right of way for the hydro and natural gas lines crosses the northern part of the property and provides excellent access year round for heavy equipment. Access to the southeast part is limited to partly overgrown, abandoned hydro lines. Murdock Creek crosses the property in a southwesterly direction, in approximately the centre. It results in roundabout routes for heavy machinery or by canoe for personnel.

2.2 Regional Geology

The Kirkland Lake area is situated in the central part of the Archean, Abitibi Greenstone Belt, on the south limb of a major east-west trending, east plunging synclinorium which is located approximately at the mid point between the Round Lake and Lake Abitibi Batholiths. The northern and southern limbs of this synclinorium are wide E-W trending deformation zones known as the Porcupine/Destor and Cadillac/Larder Lake Breaks, respectively. The Cadillac/Larder Lake deformation zone can be traced from Val d'Or, Quebec to the Matachewan area in Ontario and lies immediately south of Kirkland Lake. The trace of the more specific and historically referenced Larder Lake Break runs through the centre of the Amalgamated Kirkland Property. All the historically significant and presently significant gold producing gold mines were located within the wider deformation zone to the north of the historical Larder Lake "Break", mostly along a sub-parallel structure known as the Kirkland Lake Main Break (see Figures 2 and 3).

2.3 Amalgamated Kirkland Property

The property consists of twenty seven contiguous unpatented mining claims (see Figure 4 and Table I). This group of claims differs from the historical group of the same name noted in Thompson (1950). The present Amalgamated Kirkland claim group includes part of the former Amalgamated Kirkland and Florena properties.

2.4 Grid

A grid was established over the entire property to tie-in all the field work. The base line and all turn offs for the lines were cut under survey control. The base line was started from post number 1 of claim 495229 on a bearing of 072° (True North) and terminated on post number 4 of claim 477300. Lines were turned off 100 metres apart and stations established at 25 metre intervals. Line deviations were measured along the perimeter of the property (see Figure 5).

2.5 Previous work

The Amalgamated Kirkland property has had a long history of exploration. Numerous programs consisting of geological mapping, hand and power trenching, geochemical sampling, geophysical surveys, and diamond drilling have been carried out over a number of years. The historical exploration has not been systematic; instead it has been concentrated on specific claims or known showings. The following is a brief list of companies which have carried out work on the property:

1) Highland Kirkland Mines Ltd (1911-1924 & 1936-1937)
2) Amalgamated Kirkland Gold Mines Ltd (1939-1940)
3) Frobisher Exploration Co. (1972)
4) Mayfield Exploration and Development Ltd. (1972)
5) Orme Prospecting Syndicate (1973)
6) Kerr Addison Mines Ltd. (1974)
7) Newmont Exploration of Canada Limited (1978)
8) Lampe Resources Ltd. (1983)
9) Eden Roc Mineral Corporation (1983-1984)
10) Accord Resources Ltd. (1986)

2.6 Overburden Stripping

The Overburden stripping was carried out with a backhoe excavator, using a toothless bucket, excavating to bedrock. A line was flagged for the backhoe operator to follow, along which he removed the overburden in a strip 3 to 5 metres wide and up to 600 metres long. On occasions the area stripped reached up to 25 m wide and depths up to 6 m were excavated. To prevent dangerous conditions, deep parts were slopped back if bedrock was exposed, or filled in if bedrock was not reached. Ends of trenches along the powerline were fenced off to restrict access. See Appendix I for the equipment used.

2.7 Outcrop Washing

After the bedrock surface was cleared of overburden a 3 man washing crew set up 2 to 3 high pressure pumps to wash the rock surface and remove the remaining clay cover. Because of the unusually dry summer, water had to be pumped up to one kilometre to the working area. A number of deep trenches, where bedrock was not exposed, were left open and used as sumps for water supply. See Appendix I for the equipment used.

2.8 Mapping

The trenches were surveyed and geologically mapped at a scale of 1:500. Particular care was taken to identify alteration zones, alteration type, trend and tectonic fabrics. During the mapping of trenches the geologist would outline selected areas for sampling. Sample lengths ranged from less than 0.5 m to 1.5 m. Rugged areas were grab or chip sampled.

2.9 Sampling

During the early part of the sampling program all exposures in trenches were sampled systematically, wherever possible. A combination of chip and channel sampling was used where appropriate. Due to time constraints, because of weather conditions in late fall, this was revised to channel sampling only the most intensely sheared and altered zones and grab sampling of other lower priority zones. See Appendix I for the equipment used.

2.10 Assaying

All assaying was done by Swastika Laboratories Ltd. using standard sample preparation and assaying techniques (see Appendix III for further details). Since the laboratory reports all of the internal assay rechecks, no systematic check samples were sent in during the program. At BMCI's request, all samples greater than 1000 ppb were reassayed using a one assay ton aliquot. After the sampling program was completed, all (70) samples over 1000 ppb Au were rechecked at Bondar Clegg Laboratories in Ottawa. As a further check, 68 samples with results ranging from less than 1000 ppb to the detection limit were re-analyzed by Bondar-Clegg. The results from all of the check assays were well within acceptable limits.

2.11 Personnel

A total of 4 geologists and 8 labourers were employed during the program. The geologists carried out the detailed mapping of each trench as well as supervising, on a part time basis, the progress of the samplers, washers, and the backhoe operator.

In general a sampling crew consisted of two labourers who were alternating between operating the rock saw and collecting the channel sample. A washing crew consisted of 2 to 3 labourers, where 2 of them operated pumps and an experienced person prepared the sites ahead of the washing. A maximum of 2 sampling and 2 washing crews were used at any one time during the period from August 15, 1989 to December 15, 1989. See Appendix II for a complete list of personnel which participated in the various aspects of the work described in this report.

3.0 DISCUSSION

The results of the mapping and sampling programs are described separately for each trench. The brief description includes rock unit lithology, stratigraphic relationships, structural features, alteration assemblages, and anomalous assays. The corresponding trench geology maps show the location of interpreted deformation/alteration zones. The assay plans show the location, sample number and gold assays of all samples taken in in 1989. The individual trench descriptions are organized in ascending grid easting, i.e., from 7200E to 9300E.

3.1 TRENCH AK7290E **DRAWING NUMBER: 69327 30645 GEOLOGY & ASSAY**

Claim Number: L491183 Area Stripped of Overburden: 192 m^2

Grid Location: From 7290E-10258N to 7299E-10194N

Purpose: To investigate an historic rock trench with a strongly bleached zone and disseminated pyrite

Number of Assays: 28 Sample Type: 28 Channel

Significant Assays: 2.48 g/t Au over 6.0 m
(incl. 4.03 g/t Au over 2.0 m)

Geology:

From 10243N to 10213N: Trachytic lapilli tuff

This unit contains 10-20%, 3-30 mm, subangular to subrounded fragments, of which 5-10% are chloritic mafic fragments, 5-10% trachytic fragments, together with occasional well rounded quartz-feldspar porphyry cobbles. A pervasive ankerite and sericite alteration increases in intensity from north to south from moderate to strong, with an associated fine grain pyritization in the core of the altered zone. Similarly, a penetrative foliation increases from weak to strong in the core of the zone striking 040° -045°, dipping 70°S. It is well defined by the alignment of sericite along slip-planes.

From 1019N to 10213N: Polymictic pebble-conglomerate

This is a polymictic, matrix-supported pebble-conglomerate, with up to 30% pebbles (4-40 mm, average 10 mm, angular to subrounded) composed of up to 20% sericitized trachytic pebbles, 10% chloritic mafic pebbles, and <1% jasper pebbles. Sericite and ankerite alteration is weak in this unit.

Assay Results:

Assays of 2.48 g/t Au over 6.0 m (10217N-10223N) or 4.03 g/t Au over 2.0 m were obtained from channel samples collected over the altered zone. Gold mineralisation is hosted in strongly foliated (041°/70°S) trachytic lapilli-tuff (?) with strong ankerite and sericite alteration and 1-4% fine-grained disseminated pyrite. An historic rock trench was located over this zone between 10208N-10233N.

3.2 TRENCH AK7400E **DRAWING NUMBER: 69327 30645 GEOLOGY & ASSAY**

Claim Numbers: L491183 Area Stripped of Overburden: 409m^2
L491182 Area Stripped of Overburden: 250m^2

Grid Location: Line 7400E, from 7397E-10348N to 7372E-10207N

Purpose: To locate and test the eastern extension of the mineralized zone in trench 7290E

Number of Assays: 48 Sample Type: 48 Channel

Significant Assays: None

Geology:

From 10275N to 10312N: Ash- and lapilli-tuff

The rock unit contains 10-20% fragments, and has undergone a strong sericitic and moderate ankeritic alteration .

From 10230N to 10251N: Pebbly arenite

This unit contains minor interbedded pebble conglomerate, as well as strong sericitic and moderate ankeritic alteration.

Total magnetic field strength (TMFS) (Atkinson, 1979) peaks at 1196 nT at 10275N and decreases to 850 nT at 10242N. This is interpreted to reflect the contact between more magnetic trachytic-tuff to the north and arenite/conglomerate to the south. The TMFS remains constant at 850 nT until 10220N where it begins to decrease slowly to 800 nT at 10205N.

Assay Results:

The eastern extension of the 7290E trench (2.2 g/t Au over 6 m) is projected to cross the 7400E trench between 10250N-10277N in an area of thick overburden. This is based on the inferred trachyte/sediment contact and the decrease in TMFS.

3.3 TRENCH AK7435E **DRAWING NUMBER: 69500 30387**
GEOLOGY & ASSAY

Claim Numbers: L477300
L491183

Area Stripped of Overburden: 449m^2
Area Stripped of Overvurden: 131m^2

Grid Location: From 10008N to 9893N

Purpose: To sample and provide a continuous exposure across the Larder Lake Break

Number of Assays: 7 Sample Type: 7 Channel

Significant Assays: None

Geology:

From 9972N to 10000N: Polymictic-conglomerate

This unit contains 20-70% cobbles of varying angularity, ranging in size from 0.5 to 45 cm. Bedding, defined by alternating chlorite-rich and sericite-rich bands, strikes 035°. Stratigraphic tops are to the southeast, based on the southward decrease in the proportion of cobbles (70% to 20%) and the decrease in cobble size (45 cm to 0.5 cm).

From 9966N to 9972N: Leucocratic syenite

This unit is fine grained, massive and contains 30% chlorite and 2% magnetite. Contacts with the conglomerates on either side appear to be sheared and/or faulted.

From 9947N to 9966N: Polymictic-conglomerate

This unit contains 20-30% cobbles. There is a sericite-chlorite schist trending 056°/70°S at 9947N.

From 9926N to 9947N: Graywacke

This graywacke is predominantly fine-grained, dark green, strongly chloritized, and moderately sericitized. Bedding is defined by a pebble-conglomerate band at 9933N, striking 024°.

From 9917N to 9926N: Trachytic lapilli-tuff

This unit contains 20%, 3-10 mm, subangular to angular trachytic fragments. The matrix is a dark green colour, weakly magnetic, and moderately chloritic and sericitic.

The total magnetic field strength profile (Atkinson, 1979) indicates two peaks of 1600 nT at 9978N and 9928N which represent the weakly magnetic syenite dike and the sediment/ volcanic contact respectively.

3.4 TRENCH AK7545E **DRAWING NUMBER: 69693 30275**
GEOLOGY & ASSAY

Claim Numbers: L477300 Area Stripped of Overburden: 570m^2
L477299 Area Stripped of Overburden: 30m^2

Grid Location: From 7515E-9809N to 7616E-9781N and
From 7542E-9828N to 7540E-9746N

Purpose: To sample and interpret significance of Auriferous zone near old shaft

Number of Assays: 7 Sample Type: 7 Channel

Significant Assays: 2 anomalous channnel samples, both 110 ppb Au.

Geology:

From 9800N to 9825N: Feldspathic-arenite

This is a medium-grained, greenish-beige, brecciated feldspathic-arenite with strong sericite and ankerite alteration and 1-2% pyrite

From 9746N to 9800N: Leuco-meso syenite

This syenite is fine to medium grained, medium-dark red with 1-3% pyrite, 0-5% magnetite, and weak to moderate ankerite alteration. The syenite exhibits a chilled margin, an increase in foliation intensity (107°) and sericite alteration, as well as a decrease in mafic mineral content from south to north.

The total magnetic field strength profile (Atkinson, 1979) indicates a sharp drop in magnetite content in the syenite from 1200 nT at 9746N to 200 nT at 9775N.

Assay Results:

Seven channel samples were taken between 9795N and 9803N. Gold content ranged from nil to 110 ppb. The trench should be resampled over its entire north-south length.

3.5 TRENCH AK7625E **DRAWING NUMBER: 69532 30853**
GEOLOGY & ASSAY

Claim Number: L491182 Area Stripped of Overburden: 195m^2

Grid Location: From 1430N to 10340N

Purpose: To expose and sample the possible extension of a zone tested by the Amalgamated Kirkland shafts, which is located to the west of the property.

Number of Assays: Nil

Significant Assays: None

Geology:

All exposed rock in trench 7625E is sedimentary, consisting of coarse-grained to pebbly feldspathic-arenite, with minor interbeds of pebble-conglomerate striking 062°/80°S. The arenites contain 25 to 35% quartz. Clasts in the pebbly-arenites and pebble-conglomerates are well rounded and include trachyte, quartz-feldspar-porphyry, mafic volcanics, chlorite, and rare jasper. The pebble-conglomerates contain less than 25% pebbles.

There is weak, pervasive carbonate alteration throughout the exposed rocks. The magnetic profile (Atkinson, 1979) is flat, suggesting that unexposed areas are part of the same sedimentary unit. A moderate foliation, regional S_{1a} (?), strikes at 045°/70°S. There is minor quartz microveining, with rare pyrite, developed sub-parallel to this fabric. No samples were taken.

Kirkland Lake Project | Amalgamated Kirkland Property

3.6 TRENCH AK7825E | **DRAWING NUMBER: 69844 30552**
GEOLOGY & ASSAY

Claim Numbers: L491651 Area Stripped of Overburden: 597m^2
L477299 Area Stripped of Overburden: 25m^2

Location: From 10085N to 9885N

Purpose: To expose and sample a shear zone with carbonate and sericite alteration

Number of Assays: 50 Sample Type: 47 Channel
3 Grab

Significant Assays: None

Geology:

From 10085N to 10027N: Feldspathic-arenite

This is a medium to coarse grained feldspathic-arenite, with pebbly interbeds and minor siltstone/mudstone. Polymictic, pebble-rich beds contain less than 2% jasper and quartz clasts. Bedding, which strikes 300-320°/80°E at the north end of the trench, is rotated to 170°/70°W at 10060N by a crosscutting, highly foliated zone. This buff coloured, 20 m wide zone is attributed to weak carbonate + sericite alteration. Two fabrics are discernable: S_{1a} 050°-060°/70°S and S_{1b} 015°/80°S.

From 10027N to 9980N: Syenite

The contact of the porphyritic syenite with the enclosing rocks is not exposed: however, it appears to parallel the regional, east-northeasterly trend. The syenite ranges from weakly to highly porphyritic and deep pink to red. Euhedral, tabular to equant feldspar phenocrysts range from 1 to 3 mm long. Inclusions of trachyte are minor, but appear to be orientated parallel to the margins of the body or dominant fabric direction and are highly foliated with weak sericite alteration and minor pyrite. Numerous quartz + carbonate veinlets crosscut the syenite; some veinlets parallel the regional fabric trends, while others are low angle, extensional features. There are traces of chalcopyrite, pyrite, and magnetite. Sericite alteration of the matrix is minimal.

From 9980N to 9935N: Trachytic-tuffs

The unit fines southward from block-lapilli-tuff at the north end of the trench to lapilli-ash tuff toward the south. Minor arenite bands are interbedded with the tuffs. The tuffs may contain sparse jasper clasts; however, the degree of angularity of trachytic clasts and the low (<5%) concentration of mafic clasts indicate a volcanic origin.

From 9935N to 9885N: Feldspathic-arenite

Medium to coarse grained feldspathic-arenites, with pebbly interbeds, predominate. A bleached, highly foliated zone, between 9935N and 9897N, is variably mineralised, with up to 3% fine, disseminated pyrite along cleavage planes. The alteration consists of strong, pervasive carbonate (ankerite), minor sericite, and rare green carbonate (mariposite). The earlier fabric strikes 045°/90°. Later shears trend 015°.

Between 9901N and 9897N a strong fabric ("C" ?) strikes 060°/55°S in a rusty, carbonate altered shear zone.

Assay Results:

Part of the altered shear zone was exposed at the south end of the trench. Channel samples from a shear zone at 9914N returned from 60 to 90 ppb Au only. Two grab samples from foliated and sericitized trachyte inclusions in the syenite porphyry at 10004 and 10009N returned 40 and 60 ppb Au respectively.

3.7 TRENCH AK7950E **DRAWING NUMBER: 69904 30914**
69904 30670
GEOLOGY & ASSAY

Claim Number: L491651 Area Stripped of Overburden: 1771m^2
L491650 Area Stripped of Overburden: 654m^2

Grid Location: From 10445N to 9945N

Purpose: To expose and sample possible structures parallel to the Kirkland Lake main break

Number of Assays: 25 Sample Type: 19 Channel
6 Grab

Significant Assays: None

Geology:

Alternating units of trachyte ash- to lapilli-tuff and coarse grained to pebbly feldspathic-arenites are separated by highly foliated, buff coloured deformation zones. Interbedded volcanic and sedimentary units are usually greater than 10 m thick. Bedding trends, outside of deformation/alteration zones, range between 115° and 160°. Rare facing directions i.e., soft sediment deformation faults and erosional scours, are to the east. Extensive bedding disruption and transposition occurs in the northeast trending deformation/alteration zones. These zones appear to trend between 040° and 060°. Strong fabrics within these zones strike 045° to 060° and dip 60° to 80°S which is approximately the regional S_{1a} strike and dip. Steeper fabrics, S_{1b} or S_2, crosscut the earlier fabric, striking 015 to 035° and are generally dipping subvertically or steeply to the north. These late cleavages or joints disrupt bedding less extensively than the earlier fabric.

Alteration accompanying the deformation zones is predominantly carbonate (ankerite), resulting in bleaching and a one to two centimetre thick orange rind on weathered surfaces. Some zones exhibit chloritic margins and sericitic cores with carbonate + quartz veinlets parallel to the foliation. Weakly disseminated pyrite is locally developed in these sericitic zones. Pervasive, weak sericite/muscovite alteration accompanied by sparse carbonate + quartz + pyrite veinlets occurs between 10315N and 10340N in a deep red coloured trachyte ash/lapilli tuff unit. A projected magnetic profile between 10020N and 10045N (Atkinson, 1979) displays a significant low which correlates with a wide zone of highly foliated/sheared and carbonate altered metasediments.

Assay Results:

The only significant assay to date occurs at 10320N (70 ppb Au). Samples from 10230N-10235N, which contain up to 5% disseminated, fine pyrite in highly foliated feldspathic-arenites to mudstones, are subanomalous (20 to 40 ppb Au). However, these samples are not chlorite or sericite altered.

3.8 TRENCH AK8050E **DRAWING NUMBER: 70086 30555 70120 30423 GEOLOGY & ASSAY**

Claim Number: L491651 Area Stripped of Overburden: 425m^2
L500058 Area Stripped of Overburden: 425m^2

Grid Location: From BL10000N to 9735N

Purpose: To extend trench 7950 soutward towards the Larder Lake break

Number of Assays: 22 Sample Type: 18 Channel
4 Grab

Significant Assays: 1 channel at 100/150 ppb Au
1 grab at 4660ppb/4.53g/t Au
4590ppb/4.66g/t Au

Geology:

From 10000N to 9950N: Trachytic ash- to blocky-tuff

The tuff is interbedded with minor bands of sediments. The contacts between the sedimentary and volcanic rocks strike 096° and are typically sheared with weakly developed sericitic alteration. The matrix of the trachytic rocks is dark green to black (chloritic) and weakly to moderately magnetic. Clasts are predominantly subangular to angular, red to pink trachyte. Minor, less than 10%, rounded mafic lithic clasts may occur. The volcanic clast size increases to the south of the first stripped area (9950N). The intervening ridge, composed of lapilli- to block-tuff, was not stripped.

From 9835N to 9900N: Feldspathic-arenite and mudstone

South of the ridge, pebbly arenite and mudstone predominate. Two narrow shear zones, striking 045° and 080° respectively, were found at 9885N. Both shears are narrow (10-20 cm) and exhibit weak to moderate sericite alteration ± quartz ± pyrite (<1%).

Assay Results:

A mineralised grab from the 045° trending shear returned assays of 4950 and 4660 ppb Au. However, the mineralised area is small and does not appear to continue. Finely bedded to laminated mudstone/graywacke units trend 070° immediately south of the shears. Further south the trend changes to 150°.

West plunging minor folds at the base of the trench may be related to drag folding associated with a major shear/breccia zone.

The shear/breccia zone occurs in pebbly-arenites to mudstones and is marked by quartz micro veining and a quartz-carbonate breccia containing 3-7% pyrite. A 1.0 m channel sample from the quartz-carbonate breccia assayed 100/150 ppb Au. It is possible that this zone is a minor splay of the Larder Lake Break which was shown (Thompson, 1950) to lie immediately south of the trench, in a topographic low.

3.9 TRENCH AK8350E **DRAWING NUMBER: 70189 31215**
70213 30968
69714 30725
70437 31069
GEOLOGY & ASSAY

Claim Number: L491662 Area Stripped of Overburden: 1136m^2
L491663 Area Stripped of Overburden: 1704m^2

Grid Location: From 10603N to 10020N

Purpose: To expose and sample possible structures parallel to the Kirkland Lake main break.

Number of Assays: 265 Sample Type: 209 Channel
11 Chip
48 Grab

Significant Assays: channel average 2.22g/t Au over 6.0m (incl. 5.00g/t Au over 1.5m and 2.71 g/t Au over 1.5m) 2 grabs 29.18 g/t Au and 11.45 g/t Au

Geology:

The contacts, where exposed, between alternating units of trachytic volcaniclastics and feldspathic-arenites in trench AK8350E are mostly tectonic.

From 10600N to 10580N: Trachytic ash- to lapilli-tuff

The unit is highly foliated, weakly carbonated, and moderately altered to chlorite + sericite. The alteration is not related to the east-west trending diabase dyke exposed at the north end of the trench. Finely laminated ash tuff beds within this unit are contorted and extensively disrupted.

From 10580N to 10560N: Feldspathic-arenite

This unit consists of coarse-grained feldspathic-arenite containing up to 30% detrital quartz with sparse polymictic pebbles. Jasper pebbles and grains are rare. Siltstone beds are either highly contorted or dislocated and frequently form trains of subangular to subrounded rip-up clasts. Pebbly-conglomerate beds are rare and thin.

From 10560N to 10515N: Trachytic ash-tuff

Moderately magnetic trachytic ash-tuff is variably (weakly to moderately) altered to carbonate + chlorite ± sericite. Two cleavages are recognized, S_{1a} (055°/75°S) and S_{1b} or S_2 (037°/75°S). Some faults, defined by thin (1-3 cm) chlorite-rich zones, trend 040° and dip subvertically. However, offsets about these structures appear to be variable, from negligible to substantial. Bedding, which was only rarely observed, trends 305°-340° with variable dips.

A highly foliated, but not schistose, carbonate + chlorite ± sericite alteration zone between 10535N and 10525N trends 040°. There is no significant sulphide mineralisation.

From 10515N to 10460N: Feldspathic-arenite

A coarsening northward sequence is found in this unit. Bedding is rarely observed, but where found is defined by scattered rip-up clasts of intraformational siltstone. Traces of jasper are present. Quartz content ranges from 10 to 35%. Weak carbonate alteration is pervasive.

From 10460N to 10440N: Sheared trachytic lapilli-tuff

A zone of highly foliated, carbonate ± sericite altered rock with traces of pyrite trending 035° is exposed between 10460N and 10445N. Immediately south of this zone, cross-beds in trachytic ash/lapilli tuff (?) strike 065°-080° and dip 80°-85°S.

From 10440N to 10405N: Thick overburden

The area between 10430N and 10415N is part of a major topographic lineament trending 050°. It was not excavated because of the deep overburden cover.

From 10400N to 10300N: Quartz-bearing feldspathic-arenite

In this unit, bedding strikes 120° to 180° and dip 60° to 80° to the southwest. Rare, unequivocal facing directions are to the west. The southern contact with trachyte tuff is obscured by a broad, weak carbonate alteration zone (10317N-10303N).

From 10303N to 10175N: Trachytic lapilli-tuffs

These tuffs are variably altered and sheared. A five to six metre wide zone of highly sulfidised, carbonate (ankerite) + sericite ± quartz altered lapilli-tuff between 10235N and 10240N strikes at 070° to 040°. A broad, symmetrical zone of carbonate + chlorite (propyllitic) and carbonate + sericite (phyllic) alteration surrounds the sulphide-rich rocks. The sericitic zone appears to be more widespread; however, this may be due to the difficulty of recognizing chloritic alteration of the matrix. Sulphide mineralisation is variable, 0 to 30%, and increases with sericite and possibly carbonate concentrations. Carbonate + quartz + sulphide material from the core zone has a blue colouration, in part due to finely disseminated galena. Low concentrations of TiO_2 indicates the presence of minerals other than ilmenite. Possible alternatives include molybdenite, graphite, and specular hematite. Subsequent deformation has sheared the mineralised zone. In places, brecciated sulphide clasts are seen within a carbonate matrix.

A thin syenite-porphyry intrudes the core zone and was subsequentially deformed (foliated and brecciated). Highly foliated parts are sulfidised (pyrite + minor chalcopyrite) while brecciated parts are filled with carbonate (calcite) + chlorite and rare pyrite.

Narrow, highly-foliated shear-zones, trending 020° to 030°, appear to offset the mineralised zone in a sinistral sense on a metre scale.

Detailed channel and grab sampling defined multiple, discontinuous lenses enriched in Au to 30 g/t. Average grades of 2 to 3 g/t Au over 5 metres are noted in the channel samples.

The progressive carbonate + phyllosilicate alteration of moderately magnetic trachytic rocks, over a width of 10 to 25 m, is accompanied by the increasing destruction of magnetite. Therefore, detailed magnetic profiles (5 m spacing) may identify similar alteration zones. Induced polarization surveys may be required to delineate zones of sulphide enrichment.

From 10175N to 10140N: Feldspathic-arenite

This unit is very coarse grained with rare interbeds of pebble-conglomerate, strike 260°-270° and dip 45°-55°N. From 10140N to 10025N, bedding strikes 290°-315° and dips subvertically to 60°N.

The bedding is defined by wispy, discontinuous cross-beds and by rare parallel-laminations. The quartz content is very low (<2%). Buff coloured carbonate ± sericite alteration zones trend 030° to 040° with minimal sulfides.

Assay Results:

The 8350E-10235N auriferous zone was discovered during a systematic grab sampling program of all alteration zones late in the fall. A single grab sample taken during the geological mapping and sampling program returned 3.43 g/t Au. Follow-up chip sampling over the altered zone gave an average of 2.89 g/t Au over 3.5 metres.

Following this result the decision was made late in the season to try and explore this area further. The auriferous zone was subsequently cleared of overburden for another 50 metres to the east. Very cold temperatures and heavy snow prevented washing or mapping of the outcrop, so that further work was restricted to two channels cut 10 metres apart, each 13 metres long and the collection of 45 grab samples. The two channels returned:

West Channel(8362E)		2.22 g/t Au over 6.0m
	including	2.71 g/t Au over 1.5m
	and	5.00 g/t Au over 1.5m
East Channel(8372E)		1.59 g/t Au over 6.0m
	and	1.44 g/t Au over 0.5m

From the 45 grab samples, 15 gave results greater than 100 ppb Au with three spectacular samples of 11.45 g/t Au at the east end of the clearing (8398E) and 29.18 and 34.9 g/t Au to the west (8356E and 8365E respectively).

3.10 TRENCH AK8850E **DRAWING NUMBER: 70436 31563**
70636 31319
GEOLOGY & ASSAY

Claim Number: L571358 Area Stripped of Overburden: 1080m^2
L500057 Area Stripped of Overburden: 1620m^2

Grid Location: From 10841N to 10317N

Purpose: To expose and sample possible structures parallel to the Kirkland Lake main break and Hunton Shaft zone

Number of Assays: 210 Sample Type: 120 Channel
90 Chip

Significant Assays: 580 ppb Au, 630 ppb Au/2.5 m at 10735N

Geology:

From 10785N to 10790N: Conglomerate

The conglomerate is polymictic, matrix-supported with interbedded (160°/55°S) graywacke/feldspathic-arenite. There is a dextral fault contact (070°/80°S) at 10785N with leucocratic syenite.

From 10734N to 10785N: Syenite

Leucocratic (15% mafic minerals), moderate-deep red colour, sometimes feldspar phyric (10-20%, 1-6 mm, euhedral) syenite.

There are short, 004°-018° trending, steeply eastward dipping, chlorite-coated joints. These may be extensional fractures resulting from and bounded by 226°-250° trending, steeply northward dipping dextral faults. The competent nature of the syenite may result in brecciation during deformation, as noted below in description of the Hunton Trench geology.

10751N, 8753E-8820E: Hunton Trench.

Leucocratic syenite is brecciated with weak to strong carbonate and moderate to strong sericite alteration. Minor chloritic mafic dykes (1-5 cm wide) are associated with the 250°/75°N striking dextral fault located in the eastern part of the trench.

Syenite is in fault contact (226°/80°N) with trachytic ash-tuff at 10734N.

From 10690N to 10734N: Trachytic ash-tuff

At 10734N, the unit is medium green coloured, brecciated, moderately carbonatised, strongly sericitised, moderately chloritised trachytic ash-tuff with 1-3% pyrite. Chlorite content decreases, and carbonate content increases, southward.

From 10702N to 10720N: Strongly carbonatised trachyte.

From 10690N to 10702N: Trachytic lapilli-tuff

This is a pale pink-beige, trachytic lapilli-tuff with dark green specks, which weathers a rusty brown-green colour. It is brecciated, moderately foliated 032°/65°S, strongly sericitised, moderately carbonatised, and weakly chloritised.

From 10520N to 10586N: Trachytic ash-tuff

This is weakly foliated 045°/80°S trachytic ash-tuff, lapilli-tuff and blocky-tuff with indeterminate, often sheared contacts. The contact with sedimentary rocks to the south is obscured by water.

At 10538N, there is a one metre wide sericite-carbonate schist at 180°/85°W.

From 10420N to 10500N: Feldspathic-arenite

This is a medium green, beige-brown weathering, coarse grained, massive feldspathic-arenite and pebble-arenite. Bedding, defined by pebble bands, ranges from 005°-013°, dipping 45°-90°E, with tops (defined by graded bedding) to the east. Moderate to strong sericite alteration, weak to moderate carbonate alteration, and a moderate foliation (striking 045°-055°, dipping 70°-80°S) all increase in intensity south of 10450N. The arenites are in fault contact with trachyte to the south.

At 10449N there is a bright green coloured, moderate to strongly carbonatatised, moderately foliated (045°/80°S) pebble-arenite.

From 10360N to 10420N: Trachytic lapilli- and blocky-tuff

This unit is relatively massive to weakly schistose (trending 220^0, dipping 75°-90°NW).

From 10345N to 10360N: Sheared and altered feldspathic-arenite

This is pale green, rusty brown weathering, sericite-calcite ± chlorite schist. A weak to moderate schistosity strikes 040°-055° and dips 75°S. More schistonse zones enclose massive blocks of sericitized quartz-arenite with an anastomosing pattern. This zone of schistosity is interpreted as the surface expression of the Murdock Creek Fault.

From 10335N to 10345N: Trachytic lapilli-tuff

This is dark green, massive trachytic lapilli-tuff with 25%, 5-30 mm, subangular fragments in a chloritic matrix.

Assay Results:

The 8850E trench was chip sampled over 2.5 m intervals. Channel samples were cut with a rock saw over the portion of the trench which could not be chip sampled. Channel samples were collected at 0.5 m and 1.0 m lengths.

With the exception of the trench interval from 10731N-10762N, background gold content range from nil to 20 ppb Au.

The gold assays from the anomalous zone, 10731N-10762N, range from 20 ppb to 630 ppb and are restricted to the syenite-trachyte contact. The highest assay of 580/630 ppb, over 2.5 m at 10735N, is at the fault contact (050°/80°S) between leucosyenite and trachytic ash tuff.

Additional stripping and detailed sampling of this anomalous zone is recommended. Stripping and sampling should be carried out by following the above mentioned contact west to the Hunton shaft area and east to the claim boundary between L524843 and L2903. Detailed channel sampling should be carried out on the 8850E trench in order to determine the controls on the gold mineralisation.

3.11 TRENCH 9300E **DRAWING NUMBER: 71180 31481 71175 31236 GEOLOGY & ASSAY**

Claim Number: L447912 Area Stripped of Overburden: 1566m^2
L447913 Area Stripped of Overburden: 1174m^2
off property Area Stripped of Overburden: 54m^2

Grid Location: From 9250E to 9350E and 10150N to 10350N

Purpose: To expose and sample a carbonate sericite alteration zone

Number of Assays: 36 Sample Type: 36 Channel

Significant Assays: None

Geology:

The 9300E trench is composed of five separate open-cuts, designated as the north, west, central, south, and east areas. These trenches were initially opened up during the construction of the new generating plant.

Alternating units of volcanic and sedimentary rock were exposed. Contacts between the units were either sheared, parallel to bedding, or separated by units of carbonate ± sericite ± chlorite alteration. Most contacts trend between 060° and 070° and dip steeply to the south. Less commonly, the contacts are interpreted as faults trending between 015° and 020°, the direction of the Lakeshore fault (Thompson, 1950).

Sedimentary rocks include pebble conglomerate, graywacke and feldspathic-arenite. Matrix supported pebble content in the conglomerates is typically 15-20%, with various types of lithic clasts. Volcanic rocks are dominantly trachytic ash-tuff and minor trachytic lapilli-tuff.

The north stripped area is underlain by trachytic-tuff to lapilli-tuff interbedded with graywacke and conglomerate beds up to five metres wide. One lapilli-tuff unit, in the southeast corner of the stripped area, is visually distinctive, is unaltered and contains 5% 2-4 mm white feldspar crystals. Contacts are weakly sheared, trending 050°, with no alteration.

The western area contains interbedded pebble conglomerate, arkose and trachytic tuff with rare lapilli sized fragments. A weak, penetrative, regional schistosity, striking 068°/74°S, is well defined.

The central area is dominated by a strongly carbonatized and sericitized trachytic ash-tuff in the centre of the trench. Northward, a massive silicified feldspathic-arenite unit is overlain by pebble-conglomerate unit. Bedding trends 066° and schistosities vary between 055°-060°. Southward the altered zone grades to a well laminated moderately-magnetic trachytic tuff. Grain gradation in one laminae indicated that tops are to the south.

The southern trench exposed a massive polymictic-conglomerate overlain and underlain by trachytic lapilli-tuff.

36 channel samples were collected from the most intensely carbonatized and sericitized zone in the central area. No significant assays were returned from the altered zone.

4.0 CONCLUSION & RECOMMENDATIONS

The detailed mapping, prospecting, stripping and channel sampling programs carried out on the Amalgamated Kirkland property led to the discovery of two gold showings. Channel samples over the 7290E trench returned 2.48 g/t Au over 6 metres including 4.03 g/t Au over 2.0 metres, while the 8350E trench west channel returned 2.22 g/t Au across 6.0 metres including 5.00 g/t over 1.5 metres, and 2.71 g/t Au over 1.5 metres. The 8350E zone was traced along strike grid east for 50 metres. Both showings are located on very strong zones of alteration and deformation with good potential for continuity along strike.

From the results obtained to date the detailed mapping, followed by stripping of long narrow trenches perpendicular to the Kirkland Lake main break trend, proved to be a cost effective approach to locating new auriferous structures and rediscovering an historic showing, with both areas returning very encouraging assays.

Further stripping should be done to trace and sample the zones along strike to be followed by drilling.

5.0 REFERENCES

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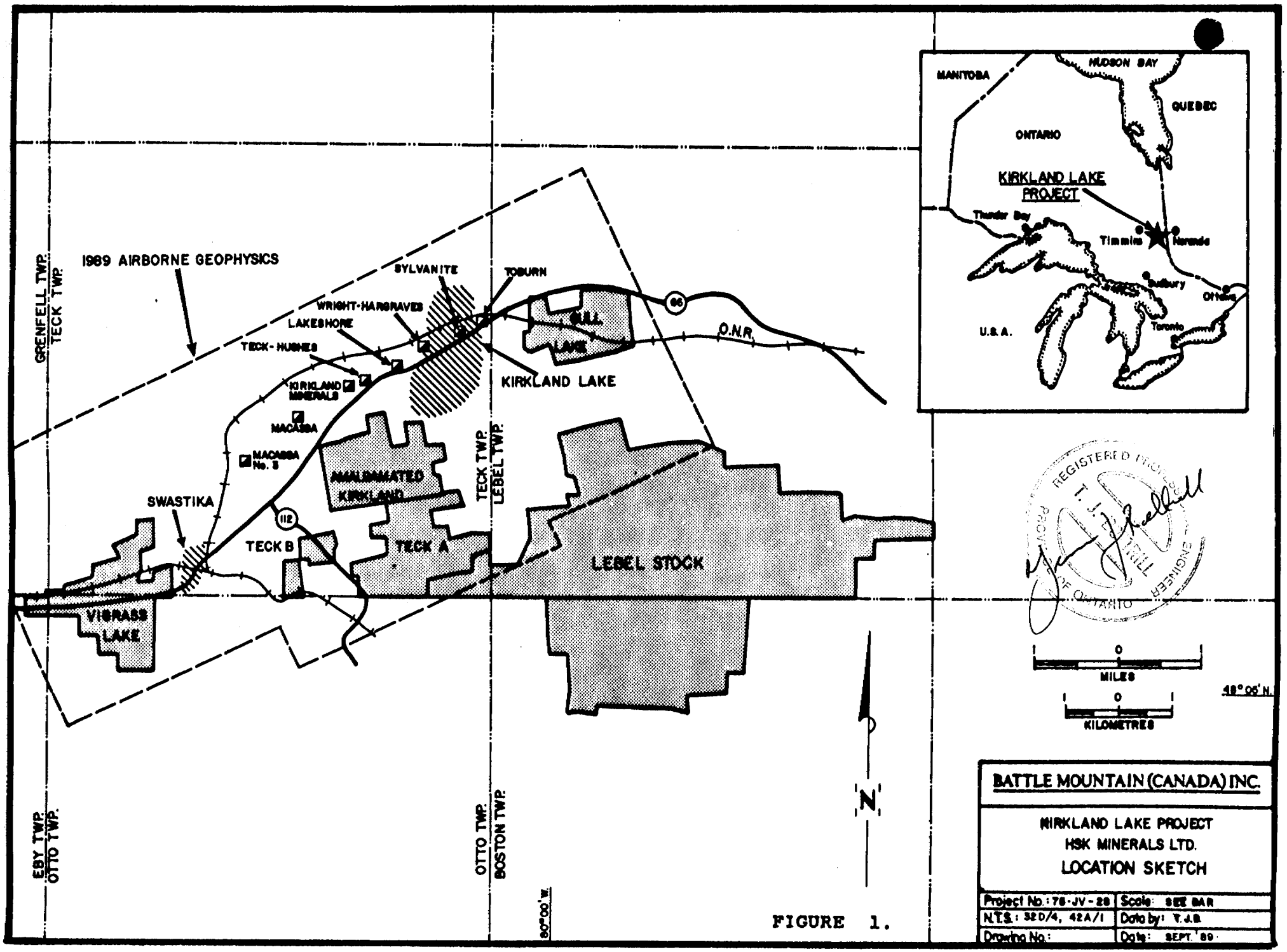
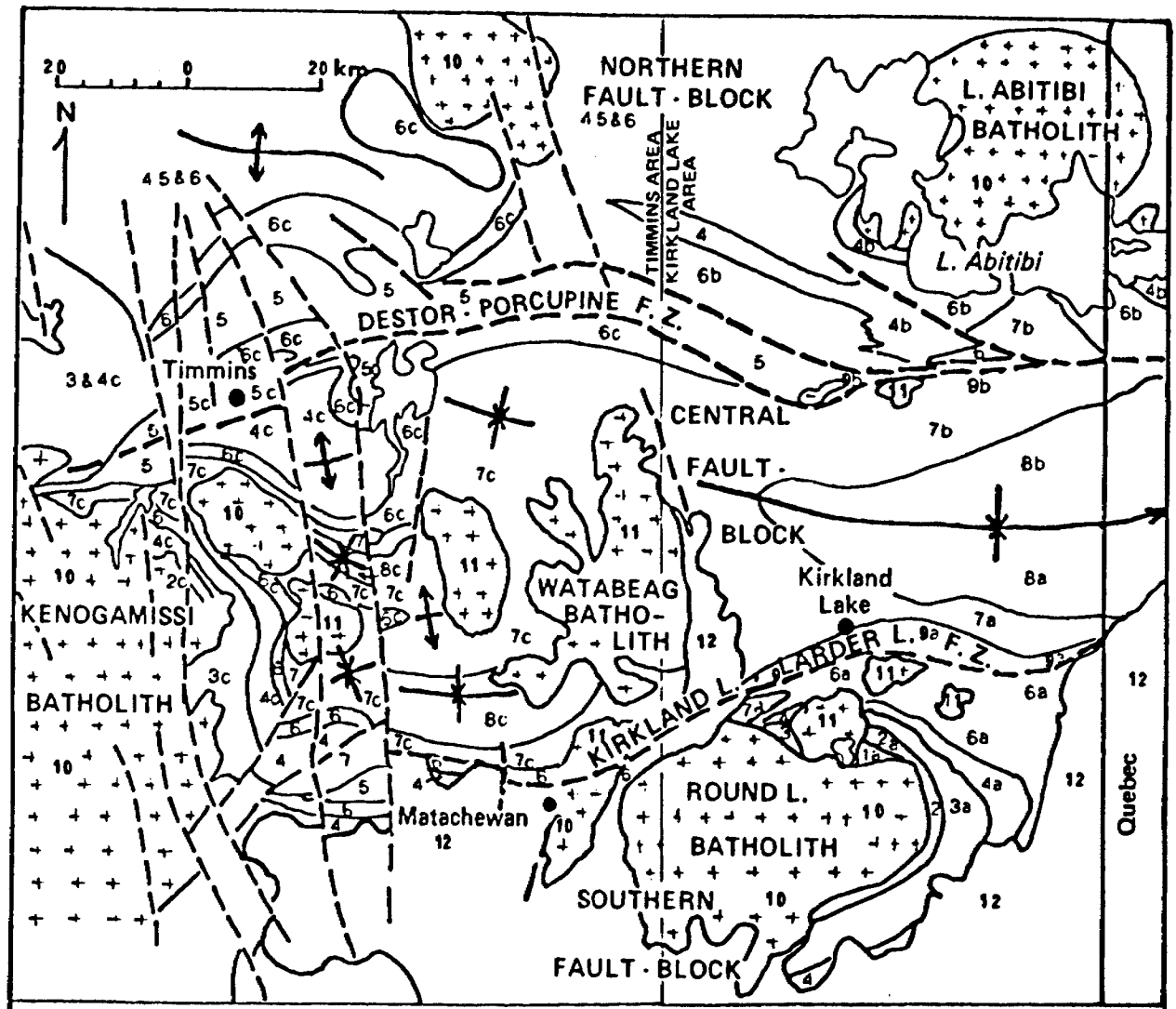


FIGURE 1.

BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
HSK MINERALS LTD.
LOCATION SKETCH

Project No.: 78-JV-28	Scale: SEE BAR
N.T.S.: 32D/4, 42A/1	Data by: T.J.B.
Drawing No.:	Date: SEPT. '89



LEGEND

Proterozoic

Keeweenawan diabase (not shown)

12 Cobalt Group

Archean

Matachewan diabase (not shown)

Granitic rocks

11 Granodiorite, monzonite, quartz monzonite, syenite

10 Massive to gneissic quartz diorite, tonalite, trondhjemite

Upper Supergroup

9 9a* Timiskaming Group, 9b** Destor - Porcupine Complex

8 8a, 8n, Blake River Group, 8c*** Blake River (Upper Fm., Tisdale Group)

7 7a, 7b, Kinojevis Group, 7c Kinojevis Group, (Middle Fm., Tisdale Group)

6 6a Larder Lake Group, 6b Stoughton-Roquemaure Group, 6c Lower Fm., Tisdale Group

5 5c Porcupine Group

Lower Supergroups

4 4a Skead Group, 4b Hunter Mine Group, 4c Upper Fm., Deloro Group

3 3a Catherine Group, 3c Middle Fm., Deloro Group

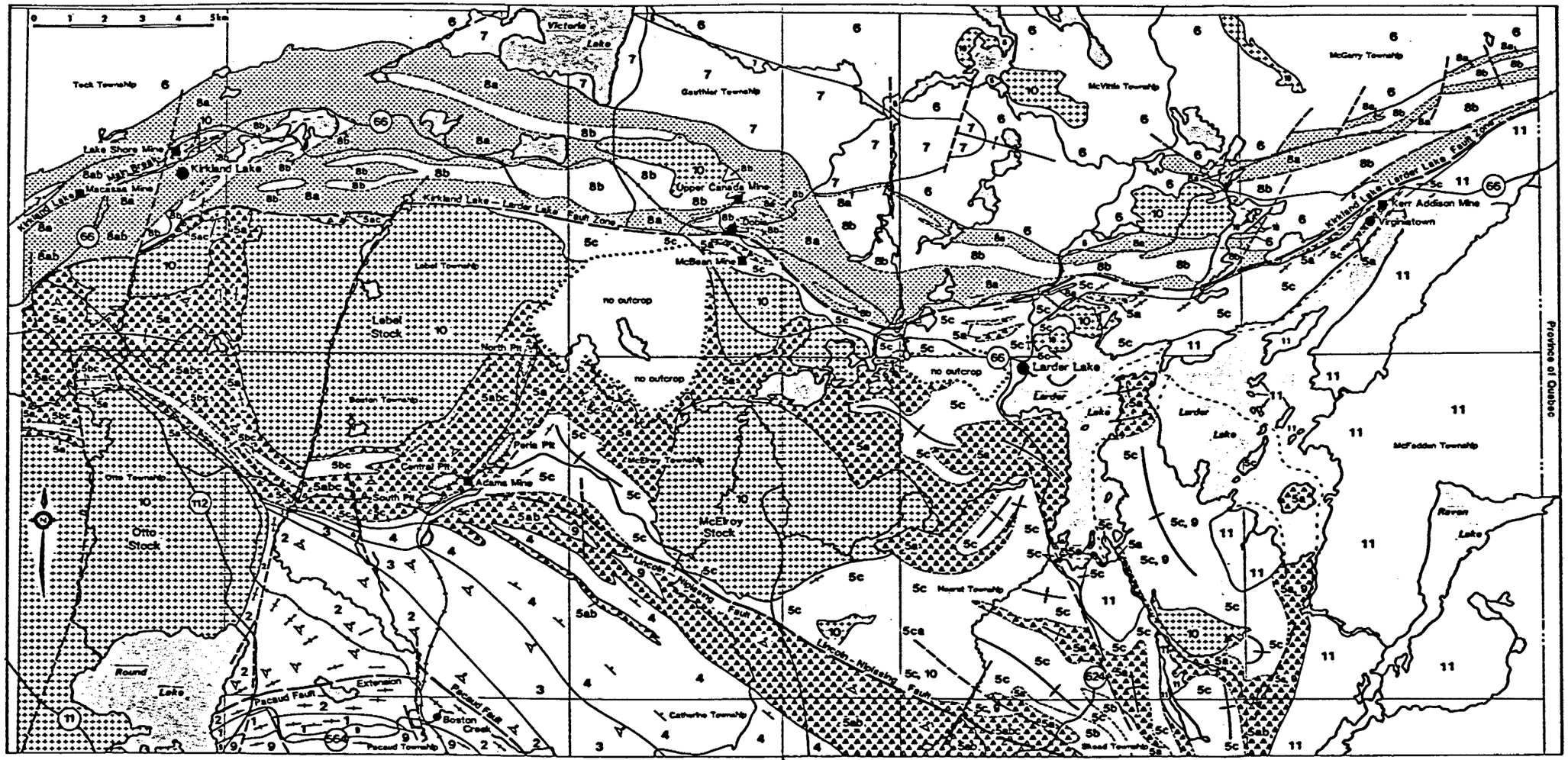
2 2a Wabewawa Group, 2c Lower Fm., Deloro Group

1 1a Pacaud tuffs ****

*a refers to Kirkland Lake Area, south limb of synclinorium (Jensen 1978c, 1979).
**b refers to Kirkland Lake Area, north limb of synclinorium (Jensen 1976, 1978b).
***c refers to Timmins Area (Pyke 1980)
**** (Goodwin 1965).

Figure 2 Regional Geology of the Timmins-Kirkland Lake Area.

Jensen and Langford (1985)



PROTEROZOIC

11 Cobalt Group

ARCHEAN

10 Alkalic to Subalkalic Intrusive Rocks

9 Trondhjemitic Intrusive Rocks (Round Lake Batholith)

8 Timiskaming Group

8a Sedimentary Rocks

8b Alkalic Volcanic Rocks

7 Gauthier Volcanics

6 Kinojevis Group

5 Larder Lake Group

5a Ultramafic and Mafic Volcanic Rocks

5b Intermediate and Felsic Volcanics Rocks

5c Sedimentary Rocks

4 Skead Group

3 Catherine Group

2 Wabewawa Group

1 Pacaud Tuff

gneissosity

bedding, bedding (with tops)

syncline

anticline

lava flow tops

geological boundaries

schistosity

stratigraphic contacts

fault

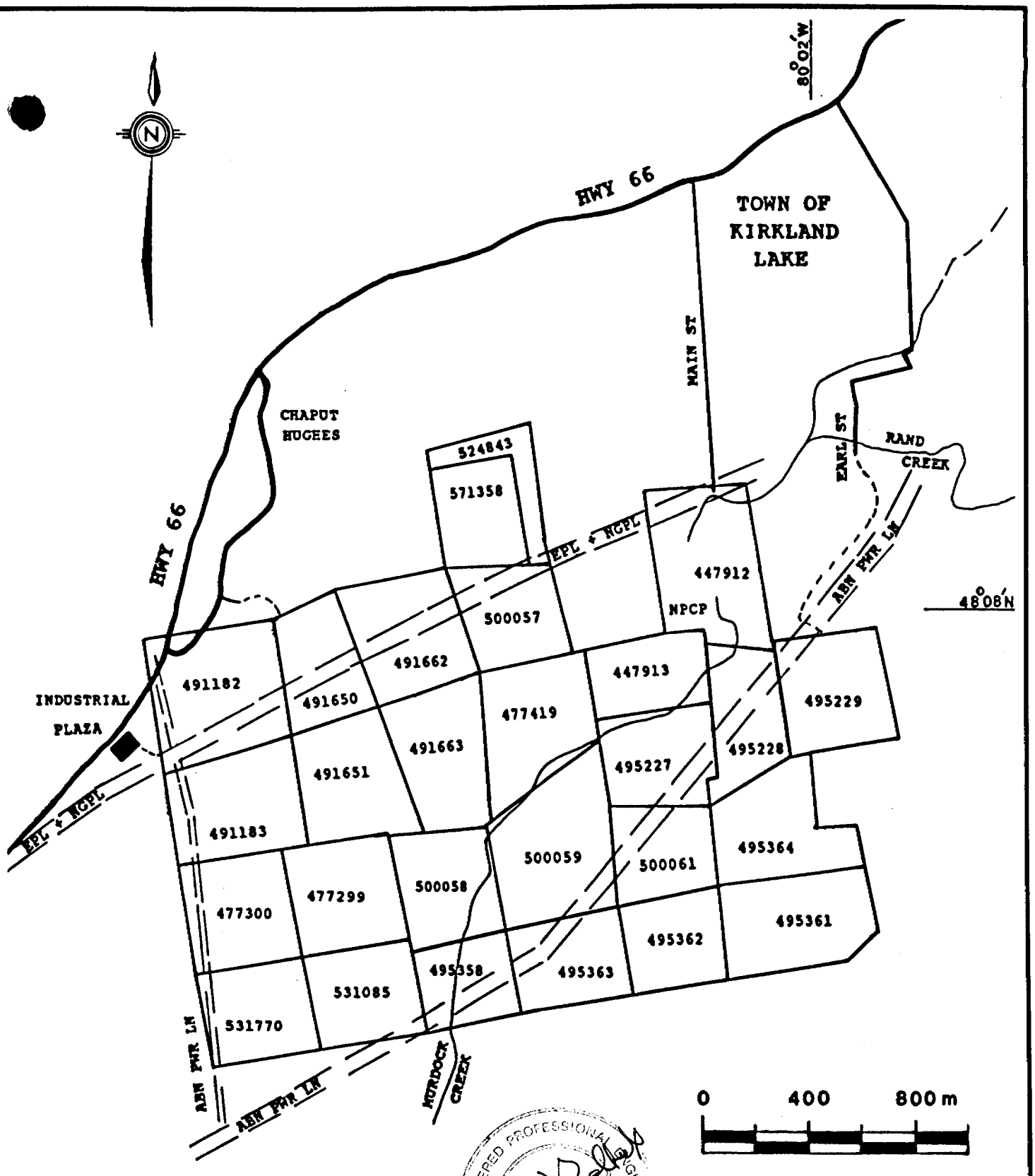
major fault zones

roads and highways

mines

towns

Figure 3 Stratigraphy of the Kirkland Lake area.
Jensen (1985)



ABBREVIATIONS

NPCP - COGENERATION PLANT

EPL - ELECTRICAL POWERLINE

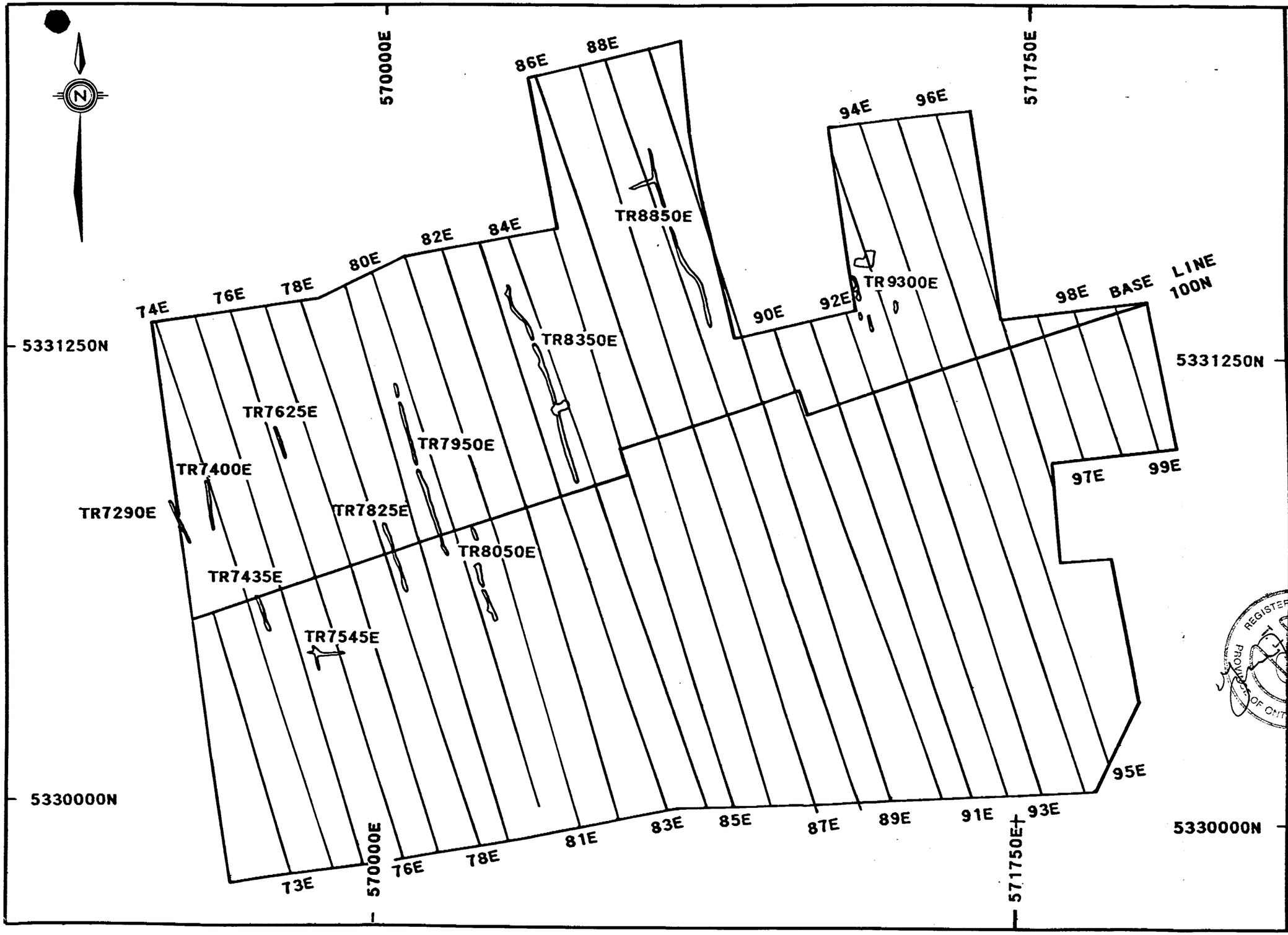
NGPL - NATURAL GAS PIPELINE

Fig. 4

BATTLE MOUNTAIN (CANADA) INC.

AMALGAMATED KIRKLAND PROPERTY OUTLINE, CLAIM #'S, CULTURE, AND ACCESS

Project No: 75-JV-28	Scale: SEE BAR
N.T.S.: 32D/4, 42A/1	Data by: ED-L
Drawing No:	Date: 90 - 05



LEGEND

trench outline

property outline

grid line

Fig. 5

0 200 400 m

BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
AMALGAMATED KIRKLAND PROPERTY
TRENCH OUTLINE SKETCH

Project No.: 75-JV-28	Scale: SEE BAR
N.T.S.: 32D/4, 42A/1	Data by: H D-L
Drawing No.:	Date: 90-05

TABLE I

LIST OF CLAIMS

AMALGAMATED KIRKLAND PROPERTY

L 447912	L 447913	L 477299	L 477300
L 477419	L 491182	L 491183	L 491650
L 491651	L 491662	L 491663	L 495227
L 495228	L 495229	L 495358	L 495361
L 495362	L 495363	L 495364	L 500057
L 500058	L 500059	L 500061	L 524843
L 531085	L 531770	L 571358	

TABLE II

Sample Listing for Trench AK7290E

Channel Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
8298	20			
8299	10			
8300	1300	0.96		
72721	1			
72722	20			
72723	40			
72724	20			
72725	500			
72726	2370	2.47		
72727	3630	3.12	3330	2.88
72728	3430	3.26		
72729	1640	1.58		
72730	1360	1.47		
72731	1200	1.30		
72732	20			
72733	20			
72734	1			
72735	20			
72736	20			
72737	1			
72742	480			
72743	1920	2.54		
72744	8570	9.46	10290	9.94
72745	5280	5.49		
72746	940			
72747	210			
72748	6170	6.10		
72749	5140	6.79		

TOTAL NUMBER OF CHANNEL SAMPLES = 28

TABLE III

Sample Listing for Trench AK7400E

Channel Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
301	1			
302	30			
303	20			
304	10			
305	20		10	
306	1			
307	1			
308	1			
309	1		1	
310	1			
311	1			
312	50		30	
313	40			
314	30			
315	1			
316	20			
317	1			
318	1			
319	1			
320	1			
321	1			
322	1			
323	20		20	
324	30			
325	30			
326	10			
327	1			
328	1			
329	10			
330	20			
331	20			

TABLE III
Continued

Sample Listing for Trench AK7400E

Channel Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
332	1			
333	1			
334	10			
335	20		20	
336	1			
337	1			
338	1			
339	10			
340	50		70	
341	1			
342	1			
343	1			
344	1			
345	40		20	
346	20			
347	1			
348	10			

TOTAL NUMBER OF CHANNEL SAMPLES = 48

TABLE IV

Sample Listing for Trench AK7435E

Channel Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
72714	1			
72715	30			
72716	1			
72717	1			
72718	10		10	
72719	1			
72720	1			

TOTAL NUMBER OF CHANNEL SAMPLES = 7

TABLE V

Sample Listing for Trench AK7545E

Channel Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
72707	110			
72708	30			
72708	60			
72710	50		50	
72711	40			
72712	1			
72713	110			

TOTAL NUMBER OF CHANNEL SAMPLES = 7

TABLE VI

Sample Listing for Trench AK7825E

Channel Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
72623	1			
72624	1			
72625	1			
72626	1			
72627	1			
72628	1			
72629	20			
72630	10			
72631	1			
72632	1			
72633	1			
72634	1			
72635	1			
72636	1			
72637	10			
72638	1			
72639	1			
72640	20			
72641	60		70	
72642	70		90	
72643	70			
72644	10			
72645	10			
72646	10			
72647	10			
72648	20			
72649	20			
72650	1			
72651	20			
72652	30			
72653	10			

TABLE VI
Continued

Sample Listing for Trench AK7825E

Channel Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
72654	20			
72655	1			
72656	20			
72657	20			
72658	1			
72659	20		20	
72660	1			
72661	20			
72662	20			
72663	10			
72664	1			
72665	30		20	
72666	20			
72667	1			
72668	10			
72706	10			

TOTAL NUMBER OF CHANNEL SAMPLES = 47

TABLE VII

Sample Listing for Trench AK7825E

Grab Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
72834	60			
72835	40			
72836	30			

TOTAL NUMBER OF GRAB SAMPLES = 3

TABLE VIII

Sample Listing for Trench AK7950E

Channel Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
72687	10			
72688	1			
72689	10		20	
72690	10			
72691	1			
72692	10			
72693	1			
72694	40		20	
72695	20			
72696	30			
72697	20			
72698	20			
72699	30			
72700	30			
72701	10			
72702	20			
72703	20			
72704	30			
72705	10			

TOTAL NUMBER OF CHANNEL SAMPLES = 19

TABLE IX

Sample Listing for Trench AK7950E

Grab Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
72823	20			
72840	20			
72841	70			
72864	20			
72865	30			
72866	40			

TOTAL NUMBER OF GRAB SAMPLES = 6

TABLE X

Sample Listing for Trench AK8050E

Channel Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
72669	100		150	
72670	70			
72671	70			
72672	20			
72673	20			
72674	20			
72675	1			
72676	20		30	
72677	10			
72678	1			
72679	1			
72680	1			
72681	1			
72682	30			
72683	10			
72684	10		1	
72685	1			
72686	1			

TOTAL NUMBER OF CHANNEL SAMPLES = 18

TABLE XI

Sample Listing for Trench AK8050E

Grab Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
71686	10			
72763	4660	4.53	4590	4.66
72768	10			
72769	10			

TOTAL NUMBER OF GRAB SAMPLES = 4

TABLE XII

Sample Listing for Trench AK8350E

Channel Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
602	10			
603	1			
604	1			
605	1			
606	1		1	
607	10			
608	1			
609	1			
610	10			
611	40			
612	7610	7.75	7410	7.82
613	3840	4.59		
614	2740	2.61		
615	750			
616	620		720	
617	290			
618	320			
619	660			
620	3090	3.22		
621	1850	2.19	2060	1.85
622	2400	2.88		
623	820			
624	40			
625	90			
626	1			
627	30			
628	30			
629	1			
630	20			
631	10		1	
632	1			

TABLE XII
Continued

Sample Listing for Trench AK8350E

Channel Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
633	1			
634	1			
638	10			
639	1			
640	10			
641	60			
642	1410	1.44		
643	660			
644	340			
645	60			
646	30			
647	10			
648	10			
649	80			
650	920			
651	50			
652	3840	4.42		3.26
653	290			
654	2060	2.06		
655	500			
656	1650	1.71		
657	2730	2.64		
658	1760	1.76		
659	2190	1.89		
660	1430	1.23		
661	1120	1.03		
662	40			
663	2400	2.13		
664	80			
665	40			
666	20			
667	50			
668	40			
669	240			
71951	30			
71952	1			
71953	1			

TABLE XII
Continued

Sample Listing for Trench AK8350E

Channel Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
71954	1			
71955	1			
71956	1			
71957	1			
71958	400		380	
71959	20			
71960	40			
71961	40			
71962	1			
71963	20			
71964	1			
71965	1			
71966	1			
71967	20			
71968	80		70	
71969	30			
71970	1			
71971	20			
71972	1			
71973	1			
71974	20			
71975	1			
71976	1			
71977	30			
71978	40			
71979	50		90	
71980	1			
71981	1			
71982	1			
71983	1			
71984	1			
71985	1			
71986	30		50	
71987	1			
71988	1			
71989	10			
71990	1			

TABLE XII
Continued

Sample Listing for Trench AK8350E

Channel Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
71991	1			
71992	1			
71993	1			
71994	1			
71995	1		1	
71996	1			
71997	1			
71998	1			
71999	1			
72000	1			
72501	1			
72502	1			
72503	1			
72504	1		1	
72505	1			
72506	1			
72507	1			
72508	1			
72509	1			
72510	1			
72511	1			
72512	1			
72513	1			
72514	1			
72515	1			
72516	1			
72517	1			
72518	1			
72519	1		1	
72520	1			
72521	10			
72522	1			
72523	1			
72524	1			
72525	10			
72526	20			
72527	1			

TABLE XII
Continued

Sample Listing for Trench AK8350E

Channel Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
72528	1			
72529	20			
72530	20			
72531	20			
72532	130		150	
72533	1			
72534	1			
72535	1			
72536	10			
72537	1			
72538	1			
72539	10			
72540	20			
72541	1			
72542	1			
72543	50			
72544	350		200	
72545	1			
72546	1			
72547	1			
72548	20		10	
72549	1			
72550	1			
72551	1			
72552	1			
72553	1			
72554	1			
72555	1			
72556	1			
72557	1			
72558	1			
72559	1		1	
72560	1			
72561	1			
72562	1			
72563	1			
72564	1			

TABLE XII
Continued

Sample Listing for Trench AK8350E

Channel Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
72565	1			
72566	1			
72567	1			
72568	1			
72569	1		1	
72570	1			
72571	1			
72572	1			
72601	1			
72602	1			
72603	20			
72604	1			
72605	20		20	
72606	10			
72607	1			
72608	1			
72609	1			
72610	1			
72611	1			
72612	10		1	
72613	20			
72614	1			
72615	1			
72616	1			
72617	20			
72618	1			
72619	1			
72620	10			
72621	10			
72622	20		10	

TOTAL NUMBER OF CHANNEL SAMPLES = 209

TABLE XIII

Sample Listing for Trench AK8350E

Chip Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
635	2400	2.40		
673	30			
674	20			
686	200			
691	590			
72829	3630	3.22	3430	3.43
72855	3770	4.01	3050	3.26
72856	6510	5.66	6030	6.31
72857	70			
72858	3430	3.43	2850	2.88
72859	340			

TOTAL NUMBER OF CHIP SAMPLES = 11

TABLE XIV

Sample Listing for Trench AK8350E

Grab Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
636	9260	9.33		
637	70		80	
670	27220	28.53		29.83
671	1480	1.30		
672	20			
675	1280	1.23		
676	40			
677	720			
678	30			
679	1470	1.41		
680	3090	3.33		
681	1000	0.96		
682	990			
683	2190	2.26		
684	870			
685	3980	4.15		
687	620			
688	50			
689	330			
690	20			
692	10			
693	50			
694	10			
695	4110	3.63	3430	3.39
696	210			
697	410		440	
698	80			
699	40			
700	130			
8447	34560	34.90	31130	30.58
8448	2740	3.22		

TABLE XIV
Continued

Sample Listing for Trench AK8350E

Grab Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
8449	1080	1.10		
72828	200			
72830	70			
72831	30			
72832	2740	2.61		
72833	70			
72860	30			
72861	30			
72867	70			
72868	2270	2.09		
72869	5760	5.97		
72870	60			
72871	10			
72872	11180	10.90	11070	12
72873	830			
72874	90			
72875	2610	2.85		

TOTAL NUMBER OF GRAB SAMPLES = 48

TABLE XV

Sample Listing for Trench AK8850E

Channel Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
71623	40			
71624	240		190	
71625	90			
71626	60			
71627	90			
71628	40			
71629	10			
71630	50			
71631	190		160	
71632	150			
71633	30			
71634	90			
71635	90			
71636	1			
71637	20		20	
71638	20			
71639	1			
71640	30			
71641	1			
71642	1			
71643	1			
71644	1			
71645	20			
71646	410		410	
71647	30			
71648	1			
71801	1			
71802	1			
71803	10		20	
71804	1			
71805	1			

TABLE XV
Continued

Sample Listing for Trench AK8850E

Channel Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
71806	1			
71807	1			
71808	1			
71809	1			
71810	1			
71811	10			
71812	1			
71813	1			
71814	10			
71815	1			
71816	1			
71817	1			
71818	10			
71819	20		10	
71820	1			
71821	10			
71822	20			
71823	1			
71824	1			
71825	1			
71826	1			
71827	10			
71828	1			
71829	1			
71830	1			
71831	1			
71832	20			
71833	1			
71834	1			
71835	1			
71836	30		20	
71837	1			
71838	1			
71839	1			
71840	1			
71841	20			
71842	10			

TABLE XV
Continued

Sample Listing for Trench AK8850E

Channel Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
71843	1			
71844	20			
71845	10		1	
71846	1			
71847	1			
71848	10			
71849	1			
71850	1			
71851	20			
71852	20			
71853	40		50	
71854	10			
71855	20			
71856	1			
71857	1			
71858	10			
71859	1			
71860	10		10	
71861	1			
71862	1			
71863	1			
71864	1			
71865	1			
71866	1			
71867	10			
71868	20		10	
71869	1			
71872	1			
71873	1			
71874	10			
71875	1			
71876	1			
71877	1			
71878	1			
71879	1			
71880	1			
71881	10		1	

TABLE XV
Continued

Sample Listing for Trench AK8850E

Channel Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
71882	1			
71883	1			
71884	1			
71885	20			
71886	1			
71887	20			
71888	1			
71889	10		20	
71890	1			
71891	10			
71892	20			
71893	1			
71894	1			
71895	1			
71896	1			

TOTAL NUMBER OF CHANNEL SAMPLES = 120

TABLE XVI

Sample Listing for Trench AK8850E

Chip Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
71701	1		1	
71702	1			
71703	20		10	
71704	1			
71705	10			
71706	1			
71707	1			
71708	1			
71709	1			
71710	20			
71711	1			
71712	10			
71713	10			
71714	10		1	
71715	20			
71716	1			
71717	1			
71718	10			
71719	10			
71720	1			
71721	1			
71722	1			
71723	1			
71724	10		10	
71725	20			
71726	10			
71727	10			
71728	1			
71729	1			
71730	1			
71731	10			

TABLE XVI
Continued

Sample Listing for Trench AK8850E

Chip Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
71732	1			
71733	1			
71734	10		10	
71735	10			
71736	1			
71737	1			
71738	10			
71739	1			
71740	1			
71741	1			
71742	1			
71743	1			
71744	1		10	
71745	1			
71746	10			
71747	1			
71748	1			
71749	1			
71750	1			
71751	1			
71752	1			
71753	1			
71754	1			
71755	1			
71756	1			
71757	1			
71759	10		20	
71760	1			
71761	1			
71762	1			
71763	1			
71764	1			
71765	1			
71766	1			
71767	1			
71768	10			
71769	10			

TABLE XVI
Continued

Sample Listing for Trench AK8850E

Chip Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
71770	1			
71771	1			
71772	1			
71773	1			
71774	10		30	
71775	1			
71776	1			
71777	10			
71778	1			
71779	10			
71780	1			
71781	50			
71782	580		630	
71783	190			
71784	90			
71785	10			
71786	40			
71787	80		60	
71788	70			
71789	10			
71790	20			
71791	10			

TOTAL NUMBER OF CHIP SAMPLES = 90

TABLE XVII

Sample Listing for Trench AK9300E

Channel Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
8262	20			
8263	1			
8264	10			
8265	1			
8266	1			
8267	1		1	
8268	1			
8269	1			
8270	1			
8271	20			
8272	10		10	
8273	1			
8274	20			
8275	10			
8276	10			
8277	1			
8278	10			
8279	1			
8280	1			
8281	1			
8282	1			
8283	10		1	
8284	1			
8285	1			
8286	10			
8287	1			
8288	1			
8289	1			
8290	1			
8291	1			
8292	1			

TABLE XVII
Continued

Sample Listing for Trench AK9300E

Channel Samples Only

Sample Number	Au ppb	Au g/t	Re Au ppb	Re Au g/t
8293	1		1	
8294	1			
8295	10			
8296	1			
8297	1			

TOTAL NUMBER OF CHANNEL SAMPLES = 36

APPENDIX I

APPENDIX I

List of Equipment

A. Equipment Used for Stripping

John Deer 690 & 790 backhoe

Contracted from:

Alex MacIntyre Ltd. & K.T. LaCarte Construction
P. O. Box 517 P. O. Box 640
Kirkland Lake, Ontario Englehart, Ontario
P2N 3J5 P0J 1H0

B. Equipment Used for Outcrop Washing

1) 425-7 Bean Pump Powered by ST-1 Lister Diesel + 4600 ft of high pressure 1 inch water supply hose
Rented from

Heath & Sherwood Drilling (1986) Inc.
P.O. Box 998
34 Duncan Ave. North
Kirkland Lake, Ontario
P2N 3L3

2) Two of Homelite FP-250 + 1000 ft of 1.5 inch discharge hose

Rented from:

Location Rouanda Inc.
332 Av. Montemuro
C.P. 175
Rouyn-Noranda, Quebec
J9X 5C3

3) Honda WH15XC 3.5 hp pressure pump

Pump purchased by BMCI

APPENDIX I
Continued

List of Equipment

4) Trash pump + 250 ft of discharge hose

Rented from

Smaill Equipment Rental Ltd.
9 Brown Ave.
Kirkland Lake, Ontario
P2N 1L1

Note:
The two Homelite pumps (item 2) and the Honda (item 3) were used for the outcrop washing. The Bean Pump (low-volume, very-high-pressure drill-pump) was used to pump water when distances were greater than 300 metres to the washing area, and operated 24 hrs. per day. The two Homelite high-pressure, high-volume pumps were used to wash the outcrop surface. The Trash pump was used to drain bedrock depressions so that they could be sampled.

C. Equipment used for Sampling

1) 2 of Stihl TS-350 cut off saw with water attachment

1 cut off saw purchased and one rented from

Smaill Equipment Rental Ltd.
9 Brown Avenue
Kirkland Lake, Ontario
P2N 1L1

2) Honda WH20XC 5hp pressure pump

Rented from

W. Roy Thompson Ltd.
521 Government Road West
P.O. Box 184
Kirkland Lake, Ontario
P2N 3H7

Note:
In addition to the company owned cut off saw, a second saw was rented for part of the sampling program. A cut-off saw was also rented from time to time when one of the saws malfunctioned. The pump was used to supply water to the diamond blade.

APPENDIX II

APPENDIX II

NAMES AND ADDRESSES OF WORKERS USED IN OUTCROP WASHING AND CHANNEL SAMPLING

NAME AND ADDRESS	OCCUPATION
1) Boucher D. R. Box 814 14 Atkins Ave. Kirkland Lake, Ontario P2N 3N5	Geologist
2) Bisson R. General Delivery Matachewan, Ontario	Labourer
3) Dawson S. A. 2901 Rutherford Rd. Concord, Ontario L4K 2N7	Geologist
4) Dillon-Leitch H., Dr. 14 Bellside Drive Unionville, Ontario L3P 7B8	Geologist
5) Fox S. 25 McCamus Ave. Kirkland Lake, Ontario P2N 2J6	Labourer
6) Gaston T. 129 Main St. Kirkland Lake, Ont. P2N 3G2	Labourer
7) Peever R. Box 702 2 Government Rd. E. Kirkland Lake, Ontario P2N 3K1	Labourer

APPENDIX II Continued

NAME AND ADDRESS	OCCUPATION
8) Price S. Box 381 Airport Rd. Kirkland Lake, Ontario P2N 3G1	Labourer
9) Reid K. 42 Tower St., Apt. 2 Kirkland Lake, Ontario P2N 1P2	Labourer
10) Shein V. M. 237 McKibbin St. Thunder Bay, Ont. P7B 4B8	Geologist
11) Saint-Jean J. Box 814 14 Atkins Ave. Kirkland Lake, Ontario P2N 3N5	Labourer
12 Stewart D. 59b Government Rd. W. Kirkland Lake, Ontario P2N 2E6	Labourer

APPENDIX III

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Routine Sample Preparation and Gold Assay Methods as applied to Ore and Core Samples

Samples are crushed through a #1 Woodstock crusher, and further reduced to approximately 6-mesh using a Sturtevant rolls. The rolls are then cleaned with a combined wire brush and air jet spray. Samples weighing less than 1 lb. are crushed through a Sturtevant Roll-Jaw crusher. A Jones riffle is used to cut a 400g portion for pulverizing. When requested the reject portion is bagged and stored.

After reducing to nominal -100 mesh with a Braun pulverizer the samples are thoroughly blended and sent to the fire assay department. A 0.5 assay portion (14.583g) is used for fire assaying. This process results in a particle of gold which in the normal assay method is weighed on a Huesser assay balance or a Cahn 25 Electrobalance.

To lower detection limits for Geochemical work or where required the gold particle is dissolved and determined by Atomic Absorption Spectrophotometry. This is done after collecting the precious metals with a fire assay fusion and should not be confused with Ketone extraction--Atomic Absorption Method.

Repeat or check assays are done regularly. Standard pulps are also used for control samples.

Results from replicate determinations using both methods of "finish" agree favourably. By far the greatest spreads occur when free gold is present making sampling difficult.

BATTLE MOUNTAIN (CANADA) INC.
390 BAY STREET, SUITE 2910,
TORONTO, ONTARIO M5H 2Y2

000661

August 15 19

PAY Four Hundred & Twenty-Three ——————xx/100 DOLLARS $ 423.00

TO Swastika Laboratories Limited,
P.O. Box 10,
Swastika, Ontario.
P0K 1T0

BATTLE MOUNTAIN (CANADA) INC.

Canadian Imperial Bank of Commerce
MAIN BRANCH-COMMERCE COURT
TORONTO, ONTARIO M5L 1G9

[redacted]

"000661" :0000 2=0 10: 13=46 113" NOT NEGOTIABLE/NON NÉGOCIABLE

DETACH & RETAIN THIS STATEMENT

BATTLE MOUNTAIN (CANADA) INC.

000661

DATE	DESCRIPTION	AMOUNT
August 15	Invoice # 20291 - July 31, 1989 ..... $ 223.25 # 20352 - Aug 04, 1989 ..... 199.75	423.00

20291

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

DATE: 31 (JOUR/DAY) July (MOIS/MONTH) 1989 (ANNÉE/YEAR)

TRANSPORTEUR

SHIPPED VIA

Cattle Mountain (Canada) Inc.
Box 635
Kirkland Lake, Ontario
P2N 3K1

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO EXEMPT DE TAXE FED / FED. LICENCE NO	NO D'EXEMPT DE TAXE PROV / PROV. LICENCE NO	VOTRE NO DE COMMANDE / YOUR ORDER NO	NOTRE NO DE COMMANDE / OUR ORDER NO	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
		75JV28		NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
9	Au assays	$ 8.75	$ 78.75
9	Sample Handling	3.00	27.00
	Cert.#75667 July 24, 1989		
10	Au assays	8.75	87.50
10	Sample Handling	3.00	30.00
	Cert.#75686 July 24, 1989		

SWASTIKA LABORATORIES LTD.

PAID AUG 21/89

WITH THANKS

PER D Shearer

TOTAL... $ 223.25

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

ESTABLISHED 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Established 1928

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 75667 ✓ Date July 24, 1989

Received July 21, 1989 9 Samples of Chip

Submitted by Battle Mountain Canada Inc., Kirkland Lake, Ontario.

Proj. #75JV28 ATTENTION: V. Shein

SAMPLE NO.	GOLD PPB
8001	Nil
8002	160/110
8003	Nil
8004	Nil
8005	10
8006	20/10
8007	Nil
8008	Nil
8009	30

PMS

add 8010 ~~90~~ 70

Per G. Lebel

G. Lebel - Manager /hs

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

Telephone (705) 642-3244. FAX (705) 642-3300

P302 ~

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 75686 ✓ Date July 25, 1989

Received July 24, 1989 10 Grab Samples

Submitted by Battle Mountain Canada Inc., Kirkland Lake, Ontario.

Proj. #75-JV-28

SAMPLE NO.	GOLD PPB
B-8301	40
8302	30/60
TA 8303	210
8304	10
8305	Nil
8306	10
TA 8307	70
8308	40
8309	Nil
8010	190/140 VMS

4.D-L plotted

✓

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705) 642-3244 FAX (705) 642-3300

20352

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3241 FAX (705) 642-3300

JOUR DAY	DATE MOIS MONTH	ANNÉE YEAR	TRANSPORTEUR SHIPPED VIA
4	Aug	1989	

Battle Mountain Canada Inc
Suite 2910, 390 Bay Street
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO PERMIS DE TAXE FED FED LICENCE NO	NO PERMIS DE TAXE PROV PROV LICENCE NO	VOTRE NO DE COMMANDE 75JV28 YOUR ORDER NO	NOTRE NO DE COMMANDE OUR ORDER NO	CONDITIONS NET 30 DAYS TERMS	REP DES VENTES SALES REP

QUANTITÉ QUANTITY	DESCRIPTION	PRIX UNITAIRE UNIT PRICE	MONTANT AMOUNT
17	Au assays	$ 8.75	$ 148.75
17	Sample Handling	3.00	51.00
	Cert.#75778 Aug. 4, 1989		

SWASTIKA LABORATORIES LTD.

PAID
AUG 21/89

WITH THANKS
P.P. D. Hanes

TOTAL....$ 199.75

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

VMS

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 75778 ✓ Date Aug. 4, 1989

Received Aug. 1, 1989 17 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O. #7SJV28

VMS gutted

SAMPLE NO.	GOLD PPB
8201	10
8202	30
8203	10
8204	Nil
8205	10
8310	30
8311	50
8312	Nil
8313	30
8314	160/170
8315	40
8316	30
8317	30
8318	40
8319	40/40
8320	20
8321	Nil

HDL

✓

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705) 642-3244 FAX (705) 642-3300

BATTLE MOUNTAIN (CANADA) INC.
390 BAY STREET, SUITE 2910,
TORONTO, ONTARIO M5H 2Y2

000730

August 23 1989

PAY One Hundred & Ninety-Nine ——— 75/100 DOLLARS $ 199.75

TO Swastika Laboratories Limited,
P.O. Box 10,
Swastika, Ontario.
P0K 1T0

BATTLE MOUNTAIN (CANADA) INC.

Canadian Imperial Bank of Commerce
MAIN BRANCH-COMMERCE COURT
TORONTO, ONTARIO M5L 1G9

[redacted]

⑈000730⑈ ⑆00002⑈010⑆ 13⑈46113⑈

NOT NEGOTIABLE / NON NÉGOCIABLE

DETACH & RETAIN THIS STATEMENT

BATTLE MOUNTAIN (CANADA) INC.

000730

DATE	DESCRIPTION	AMOUNT
August 23	Invoice # 20381 - August 11, 1989	199.75

20381

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

DATE: 11 (JOUR/DAY) | Aug (MOIS/MONTH) | 1989 (ANNÉE/YEAR)

TRANSPORTEUR / SHIPPED VIA

VENDU À / SOLD TO:
Battle Mountain Canada Inc.
Suite 2910--390 Bay Street
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO. DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
		75JV28		NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
17	Au assays	$ 8.75	$ 148.75 ✓
17	Sample Handling	3.00	51.00 ✓
	Cert.#75806 Aug. 9, 1989		
	PAID AUG 17 1989		
	APPROVED FOR PAYMENT		
	Ch #0730 - 24 199.75		
	A/C 75-JV-28 / 105-779		
	Kirkland Lake		
		TOTAL...	$ 199.75

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

TM ©

VMS

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Established 1928

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 75806 Date August 9, 1989

Received August 4, 1989 17 Samples of Rock

Submitted by Battle Mountain Canada Inc., Toronto, Ontario PO# 75J V28

SAMPLE NO.	GOLD PPB
8206	Nil
8322	40
8323	150/140
8324	Nil
8325	Nil
8326	Nil
8327	10
8328	Nil
8329	90/90
8330	Nil
8331	10
8332	10
8333	10
8334	80/100
8335	Nil
8336	Nil
8337	30

VMS entered

HD-V

Per G. Lebel

G. Lebel-Manager/rl

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

Telephone (705) 642-3244. FAX (705)642-3300

BATTLE MOUNTAIN (CANADA) INC.
390 BAY STREET, SUITE 2910,
TORONTO, ONTARIO M5H 2Y2

000747

August 30 19 89

PAY Seven Hundred & Ninety-Nine ———— 50/100 DOLLARS $ 799.00

TO Swastika Laboratories Limited,
P.O. Box 10,
Swastika, Ontario.
P0K 1T0

BATTLE MOUNTAIN (CANADA) INC.

Canadian Imperial Bank of Commerce
MAIN BRANCH-COMMERCE COURT
TORONTO, ONTARIO M5L 1G9

[redacted]

⑈000747⑈ ⑆00002⑈010⑆ 13⑈46113⑈ NOT NEGOTIABLE / NON NÉGOCIABLE

DETACH & RETAIN THIS STATEMENT

BATTLE MOUNTAIN (CANADA) INC.

000747

DATE	DESCRIPTION	AMOUNT
August 30	Invoice # 20472 - Aug. 24'89 ..... $ 493.50 # 20422 - Aug. 17'89 ..... 305.50	799.00

AUG 24 1989 20422

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

JOUR DAY	DATE MOIS MONTH	ANNÉE YEAR	TRANSPORTEUR SHIPPED VIA
17	Aug	1989	

VENDU À SOLD TO

Battle Mountain (Canada) Inc.
Suite 2910--390 Bay Street
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

D'EXEMPT. DE TAXE FÉD. FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. PROV. LICENCE NO.	VOTRE NO. DE COMMANDE YOUR ORDER NO.	NOTRE NO DE COMMANDE OUR ORDER NO.	CONDITIONS TERMS	REP. DES VENTES SALES REP.
		75JV28		NET 30 DAYS	

QUANTITÉ QUANTITY	DESCRIPTION	PRIX UNITAIRE UNIT PRICE	MONTANT AMOUNT
26	Au assays	$ 8.75	$ 227.50 ✓
26	Sample Handling	3.00	78.00 ✓
	Cert.#75879 Aug. 17, 1989		
	PAID AUG 30 1989		
	APPROVED FOR PAYMENT		
	ck#0747=799.00		
	A/c 75-JV-28/105-779		
		TOTAL...	$ 305.50 JK

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
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VMS

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Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 75879 ✓ Date Aug. 17, 1989

Received Aug. 14, 1989 26 rock samples

Submitted by Battle Mountain (Canada) Inc., Toronto, Ontario proj#75JV28

SAMPLE NO.	GOLD PPB	VMS
8207	Nil	
8208	30/40	
8209	Nil	
8210	Nil	
8211	Nil	
8212	30/20	
8213	Nil	
8214	Nil	
8215	Nil	
8216	Nil	
8217	Nil	
8218	20	
8219	20/20	
8220	10	
8221	Nil	
8222	Nil	
8223	Nil	
8224	Nil	

SAMPLE NO.	GOLD PPB	VMS
8225	Nil	entered
8226	Nil	
8227	Nil	
8228	Nil	
8229	Nil	
8230	Nil	
8231	Nil/Nil	
8232	Nil	

Per G. Lebel

G. Lebel, Manager/dg

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

Telephone (705) 642-3244. FAX (705) 642-3300

AUG 28 1989 20472

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

JOUR DAY	DATE MOIS MONTH	ANNÉE YEAR	TRANSPORTEUR SHIPPED VIA
24	Aug	1989	

VENDU A / SOLD TO
Battle Mountain (Canada) Inc.
Suite 2910--390 Bay St.
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO. DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
		75JV28		NET 30 DAYS	

QUANTITÉ QUANTITY	DESCRIPTION	PRIX UNITAIRE UNIT PRICE	MONTANT AMOUNT
12	Au assays	$ 8.75	$ 105.00 ✓
12	Sample Handling	3.00	36.00 ✓
	Cert.#75941 Aug. 24, 1989		
30	Au assays	8.75	262.50 ✓
30	Sample Handling	3.00	90.00 ✓
	Cert.#75942 Aug. 24, 1989		
	AUG 30 1989		
	APPROVED FOR PAYMENT		
	CA 0747 = 799.00		
	1/C 75-JV-28/105-779		
		TOTAL...	$ 493.50

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
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A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 75941 ✓ Date Aug. 24, 1989

Received Aug. 21, 1989 12 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O.#75JV28

VMS entered

SAMPLE NO.	GOLD PPB
8233	100
8234	400/440
8235	20
8236	40
8237	10
8238	20
8239	Nil
8240	20
8241	20
8242	10/10
8243	Nil
8244	30

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705) 642-3244 FAX (705) 642-3300

VMS

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Established 1928

Certificate of Analysis

Certificate No. 75942 Date Aug. 24, 1989

Received Aug. 21, 1989 30 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O. #75JV28

SAMPLE NO.	GOLD PPB	DRB	SAMPLE NO.	GOLD PPB	DRB
8401	80/80		8416	Nil	
8402	50		8417	10	
8403	30		8418	Nil	
8404	Nil		8419	Nil	
8405	20		8420	30/30	
8406	Nil		8421	Nil	
8407	Nil		8422	Nil	
8408	Nil		8423	10	
8409	Nil		8424	Nil	
8410	Nil		8425	10/10	
8411	Nil		8426	Nil	
8412	60/80		8427	20	
8413	Nil		8428	10	
8414	Nil		8429	40	
8415	10		No Tag	Nil	

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705)642-3300

BATTLE MOUNTAIN (CANADA) INC.
390 BAY STREET, SUITE 2910,
TORONTO, ONTARIO M5H 2Y2

000864

September 26 19 69

PAY Four Hundred & Forty-Six 50/100 DOLLARS $ 446.50

TO Swastika Laboratories Ltd.,
P.O. Box 10,
Swastika, Ontario P0K 1T0.

BATTLE MOUNTAIN (CANADA) INC.

Canadian Imperial Bank of Commerce
MAIN BRANCH-COMMERCE COURT
TORONTO, ONTARIO M5L 1G9

[redacted]

⑈000864⑈ ⑆00002⑈010⑆ 13⑈46113⑈ NOT NEGOTIABLE / NON NÉGOCIABLE

DETACH & RETAIN THIS STATEMENT

BATTLE MOUNTAIN (CANADA) INC.

000864

DATE	DESCRIPTION		AMOUNT
Sept. 26	Inv. #20564 - Assays	258.50	
	#20611 - Assays	188.00	446.50

SEP 12 1989 20564

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

JOUR / DAY	DATE MOIS / MONTH	ANNÉE / YEAR	TRANSPORTEUR / SHIPPED VIA
7	Sept.	1989	

VENDU À / SOLD TO

Battle Mountain Canada Inc.
Suite 2910--390 BayStreet
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FED. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO. DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
		75JV28		NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
22	Au assays	$ 8.75	$ 192.50
22	Sample Handling	3.00	66.00
	Cert.#76052 Sept. 6, 1989		
	PA		
	SEP 25 1989	APPROVED FOR PAYMENT	
	#0864		
	Ch#		
	A/C 75-JV-28/105-779		
		TOTAL...	$ 258.50 JK

TVD

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

CTA

VMS 89-09-21

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 76052 Date Sept. 6, 1989

Received Aug. 31, 1989 22 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O.#75JV28

SAMPLE NO.	GOLD PPB
8245	10
8246	10
8247	Nil
8248	Nil
8249	10
8250	Nil
71501	10
71502	Nil
71503	20
71504	10/Nil
71505	10
71506	Nil
71507	10
71508	Nil
71509	10
71510	Nil
71511	10
71512	Nil
71513	10
71514	30/40
71515	Nil
71516	Nil

VMS

Entered

VMS

Per G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705) 642-3300

SEP 20 1989 20611

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

JOUR DAY	DATE MOIS MONTH	ANNÉE YEAR	TRANSPORTEUR SHIPPED VIA
14	Sept	1989	

VENDU À SOLD TO

Battle Mountain Canada Inc.
Suite 2910--390 Bay St.
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. PROV. LICENCE NO.	VOTRE NO DE COMMANDE YOUR ORDER NO.	NOTRE NO DE COMMANDE OUR ORDER NO.	CONDITIONS TERMS	REP. DES VENTES SALES REP.
		75-SV28		NET 30 DAYS	

QUANTITÉ QUANTITY	DESCRIPTION	PRIX UNITAIRE UNIT PRICE	MONTANT AMOUNT
16	Au assays	$ 8.75	$ 140.00 ✓
16	Sample Handling	3.00	48.00 ✓
	Cert.#76110 Sept. 11, 1989		
	APPROVED FOR PAYMENT		
	SEP 25 1989		
	JF 0864		
	A/c 75-JV-28/105-779		
		TOTAL...	$ 188.00 JK

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
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Certificate of Analysis

Certificate No. 76110 Date Sept. 11, 1989

Received Sept. 5, 1989 16 Trench Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O. #75-SV28

SAMPLE NO.	GOLD PPB
8262	20
8264	10
8265	Nil
8266	Nil
8267	Nil/Nil
8268	Nil
8269	Nil
8270	Nil
8271	20
8272	10/10
8273	Nil
8274	20
8275	10
8276	10
8277	Nil
8278	10

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705) 642-3244 FAX (705) 642-3300

BATTLE MOUNTAIN (CANADA) INC.
390 BAY STREET, SUITE 2910,
TORONTO, ONTARIO M5H 2Y2

000881

September 27 19 84090

PAY Five Hundred & Sixty-Four xx/100 DOLLARS $564.00

TO Swastika Laboratories Limited,
P.O. Box 10,
Swastika, Ontario P0K 1T0.

BATTLE MOUNTAIN (CANADA) INC.

Canadian Imperial Bank of Commerce
MAIN BRANCH-COMMERCE COURT
TORONTO, ONTARIO M5L 1G9

[redacted]

⑈000881⑈ ⑆00002⑈010⑆ 13⑈46113⑈

NOT NEGOTIABLE / NON NÉGOCIABLE

DETACH & RETAIN THIS STATEMENT

BATTLE MOUNTAIN (CANADA) INC.

000881

DATE	DESCRIPTION		AMOUNT
Sept. 27	Inv. #20693 -	94.00	
	#20648 -	470.00	564.00

SEP 27 1989

20693

SWASTIKA LABORATORIES LIMITED
P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

DATE: JOUR/DAY 22 | MOIS/MONTH Sept | ANNÉE/YEAR 1989

TRANSPORTEUR

SHIPPED VIA

VENDU A / SOLD TO
Battle Mountain Canada Inc.
Suite 2910--390 Bay Street
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO. DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
		75-JV-28		NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
8	Au assays	$ 8.75	$ 70.00 ✓
8	Sample Handling	3.00	24.00 ✓
	Cert.#76196 Sept. 20, 1989		
	PAID		
	SEP 27 1989	APPROVED FOR PAYMENT	
	Ck# 0881		
	A/c 75-JV-28/105-779		
		TOTAL..	$ 94.00 JK

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
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VMS 89-09-21

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 76196 ✓ Date Sept. 20, 1989

Received Sept. 14, 1989 8 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O. #75JV28

SAMPLE NO.	GOLD PPB
71537	150
71538	20
71539	80/50
71540	10
71541	Nil
71542	10
71543	30
71544	30

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705) 642-3244 FAX (705) 642-3300

SEP 27 1989 20648

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

DATE: JOUR/DAY 19 | MOIS/MONTH Sept. | ANNÉE/YEAR 1989

TRANSPORTEUR / SHIPPED VIA

DU A / SOLD TO
Battle Mountain Canada Inc.
Suite 2910-390 Bay Street
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO. DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
		75JV28		NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
20	Au assays ✓	$ 8.75	$ 175.00 ✓
20	Sample Handling	3.00	60.00 ✓
	Cert.#76186 Sept.15, 1989		
20	Au assays	8.75	175.00 ✓
20	Sample Handling	3.00	60.00 ✓
	Cert.#76187 Sept. 12, 1989		
	PAID SEP 27 1989 Ck #2881		
	APPROVED FOR PAYMENT		
	A/C 75JV-28/105-779	TOTAL...	$470.00

FACTURE/INVOICE

ANALYTICAL CHEMISTS ● ASSAYERS ● CONSULTANTS
ESTABLISHED 1928

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VMS 89-09-21

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A Division of Assayers Corporation Ltd.

Established 1928

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 76186 Date Sept. 15, 1989

Received Sept. 13, 1989 20 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

entered

SAMPLE NO.	GOLD PPB
8279	Nil
8280	Nil
8281	Nil
8282	Nil
8283	10/Nil
8284	Nil
8285	Nil
8286	10
8287	Nil
8288	Nil
8289	Nil
8290	Nil
8291	Nil
8292	Nil
8293	Nil/Nil
8294	Nil
8295	10
8296	Nil
8297	~~Nil~~
8263	Nil

VMS.

Per G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705) 642-3300

VMS 89-09-21

Swastika Laboratories

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Established 1928

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 76187 ✓ Date Sept. 18, 1989

Received Sept. 13, 1989 20 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O. #75JV28

SAMPLE NO.	GOLD PPB
71517	20
71518	30/30
71519	20
71520	Nil
71521	Nil
71522	Nil
71523	20/40
71524	Nil
71525	Nil
71526	Nil
71527	Nil
71528	Nil
71529	10
71530	Nil
71531	Nil
71532	Nil
71533	Nil
71534	Nil
71535	20
71536	50/30

Per G. Lebel - Manager /ns

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

Telephone (705) 642-3244 FAX (705) 642-3300

BATTLE MOUNTAIN (CANADA) INC.
390 BAY STREET, SUITE 2910,
TORONTO, ONTARIO M5H 2Y2

000926

October 12 19 69

PAY Eight Hundred & Ninety 25/100 DOLLARS $ 890.25

TO Swastika Laboratories Limited,
P.O. Box 10,
Swastika, Ontario P0K 1T0.

BATTLE MOUNTAIN (CANADA) INC.

Canadian Imperial Bank of Commerce
MAIN BRANCH-COMMERCE COURT
TORONTO, ONTARIO M5L 1G9

[redacted]

⑈000926⑈ ⑆00002⑉010⑆ 13⑉46113⑈

NOT NEGOTIABLE / NON NÉGOCIABLE

DETACH & RETAIN THIS STATEMENT

BATTLE MOUNTAIN (CANADA) INC. 000926

DATE	DESCRIPTION	AMOUNT
Oct. 12	Inv. #20711 - $622.75 #20745 - 267.50	890.25

OCT 2 1989 20711

SWASTIKA LABORATORIES LIMITED
P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

DATE: JOUR/DAY 25 | MOIS/MONTH Sept | ANNÉE/YEAR 1989 | TRANSPORTEUR / SHIPPED VIA

VENDU À / SOLD TO
Battle Mountain Canada Inc.
Suite 2910--390 Bay St.
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO. DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
		75-JV-28		NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
17	Au assays	$ 8.75	$ 148.75 ✓
17	Sample Handling	3.00	51.00 ✓
	Cert.#76239 Sept. 25, 1989		
11	Au assays	8.75	96.25 ✓ NUT
11	Sample Handling	3.00	33.00 ✓ INCLUDED
	Cert.#76240 Sept. 22, 1989		
25	Au assays	8.75	218.75 ✓
25	Sample Handling	3.00	75.00 ✓
	Cert.#76253 Sept.26, 1989		
		TOTAL...	$ 622.75 JK

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

TM O CTA

DAI
OCT 5 1989

Ch#0926 - 890.25

APPROVED FOR PAYMENT
OE Lang

AI 75-JV-28/106- 779

VMS 89-09-26

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Established 1928

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 76239 Date Sept. 25, 1989

Received Sept. 18, 1989 17 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O. #75JV28

entered

SAMPLE NO.	GOLD PPB
71545	Nil
71546	20
71547	10
71548	20/30
71549	Nil
71550	Nil
71612	Nil
71613	Nil
71614	Nil
71615	Nil
71616	Nil
71617	20
71618	Nil
71619	Nil
71620	Nil
71621	Nil
71622	30/40

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705) 642-3300

SAD!

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Established 1928

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 76253 Date Sept. 26, 1989

Received Sept. 18, 1989 25 rock samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario proj#75-JV-28

entered

SAMPLE NO.	GOLD PPB	GOLD g/t
H-71551	Nil	
71552	Nil	
71553	Nil	
71554	5690	7.27
second pulp	6240	6.10
71555	Nil	
71556	30	
71557	10	
71558	Nil	
71559	10	
71560	10	
71561	20	
71562	Nil	
71563	Nil	
71564	Nil	
71565	10	
71566	Nil	
71567	Nil	
71568	Nil	

SAMPLE NO.	GOLD PPB
71569	Nil
71570	Nil
71571	20
71572	50/30
71573	Nil
71574	20
71575	Nil

Per G. Lebel

G. Lebel, Manager/dg

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

Telephone (705) 642-3244. FAX (705)642-3300

OCT 2 1989 20745

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

JOUR DAY	DATE MOIS MONTH	ANNÉE YEAR	TRANSPORTEUR SHIPPED VIA
28	Sept.	1989	

SOLD TO
Battle Mountain Canada Inc.
Suite 2910--390 Bay Street
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. PROV. LICENCE NO.	VOTRE NO. DE COMMANDE YOUR ORDER NO.	NOTRE NO DE COMMANDE OUR ORDER NO.	CONDITIONS TERMS	REP. DES VENTES SALES REP.
		75-JV28		NET 30 DAYS	

QUANTITÉ QUANTITY	DESCRIPTION	PRIX UNITAIRE UNIT PRICE	MONTANT AMOUNT
11	Cu Pb Zn PPM Cert.#76240A Sept. 27, 1989	$ 11.50	$ 126.50 NOT INCLUDED
12	Au assays	8.75	105.00
12	Sample Handling	3.00	36.00
	Cert.#76285 Sept. 27, 1989		
		TOTAL	$ 267.50

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

PAID
OCT 5 1989

cl#0926-890.25

A/C 75-JV-28/105-779

APPROVED FOR PAYMENT

VMS 89-10-09

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Established 1928

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 76285 Date Sept. 27, 1989

Received Sept. 21, 1989 12 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

SAMPLE NO.	GOLD PPB	GOLD g/t
8430	7410	8.23
8431	5280	6.38
8432	5070	4.70
8433	10290	10.22
8434	10490	9.74
Second Pulp	11110	11.66
8435	100	---
8436	110	---
8437	510	---
8438	1920	1.99
8439	60	---
8440	200	---
8441	Nil	---

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705) 642-3244, FAX (705) 642-3300

BATTLE MOUNTAIN (CANADA) INC.
390 BAY STREET, SUITE 2910,
TORONTO, ONTARIO M5H 2Y2

001000

October 30 19 85

PAY Six Thousand, Four Hundred & Twenty-Seven—25/100 DOLLARS $ 6,427.25

TO Swastika Laboratories Limited,
P.O. Box 10,
Swastika, Ontario P0K 1T0.

BATTLE MOUNTAIN (CANADA) INC.

Canadian Imperial Bank of Commerce
MAIN BRANCH-COMMERCE COURT
TORONTO, ONTARIO M5L 1G9

[redacted]

⑈001000⑈ ⑆00002⑈010⑆ 13⑈46113⑈ NOT NEGOTIABLE / NON NÉGOCIABLE

DETACH & RETAIN THIS STATEMENT

BATTLE MOUNTAIN (CANADA) INC. 001000

DATE	DESCRIPTION			AMOUNT
Oct. 30	Inv. #20770	-	$1,515.75	
	#20805	-	705.00	
	#20843	-	1,339.50	
	#20844	-	846.00	
	#20884	-	1,433.50	
	#20885	-	35.25	
	#20903	-	552.25	
			$6,427.25	$6,427.25
	Assaying			

20770

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

DATE: JOUR/DAY 4 | MOIS/MONTH Oct | ANNÉE/YEAR 1989 | TRANSPORTEUR / SHIPPED VIA

VENDU A / SOLD TO:
Battle Mountain Canada Inc.
Suite 2910--390 Bay Street
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. / FED LICENCE NO.	NO D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO. DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
		75-JV28		NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
80	Au assays	$ 8.75	$ 700.00-
80	Sample Handling	3.00	240.00 -
	Cert.#76324 Oct. 2, 1989		
25	Au assays	8.75	218.75 -
25	Sample Handling	3.00	75.00 -
	Cert.#76337 Oct. 2, 1989		
24	Au assays	8.75	210.00 -
24	Sample Handling	3.00	72.00 -
	cert.#76343 Oct. 4, 1989		
	PAID A/C 75-JV-28/105-179	APPROVED FOR PAYMENT	
	OCT 25 1989		
	1000 - $6,427.25		
		TOTAL....	$ 1515.75

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

VMS
89-10-05

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

entered

Certificate of Analysis

Certificate No. 76324 ✓ Date October 3, 1989

Received September 22, 1989 80 Chip Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario Proj.#75JV28

Page one of two

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
71710	20	71734	10/10	71757	Nil
71711	Nil	71735	10	71759	10/20
71712	10	71736	Nil	71760	Nil
71713	10	71737	Nil	71761	Nil
71714	10/Nil	71738	10	71762	Nil
71715	20	71739	Nil	71763	Nil
71716	Not Received	71740	Nil	71764	Nil
71717	Nil	71741	Nil	71765	Nil
71718	10	71742	Nil	71766	Nil
71719	10	71743	Nil	71767	Nil
71720	Nil	71744	Nil/10	71768	10
71721	Nil	71745	Nil	71769	10
71722	Nil	71746	10	71770	Nil
71723	Nil	71747	Nil	71771	Nil
71724	10/10	71748	Nil	71772	Nil
71725	20	71749	Nil	71773	Nil
71726	10	71750	Nil	71774	10/30
71727	10	71751	Nil	71775	Nil
71728	Nil	71752	Nil	71776	Nil
71729	Nil	71753	Nil	71777	10
71730	Nil	71754	Nil		
71731	10	71755	Nil		
71732	Nil	71756	Nil		
71733	Nil				

Per G. Lebel-Manager/r

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

Telephone (705) 642-3244. FAX (705) 642-3300

Swastika Laboratories Certificate No. 76324 / Page 2

SAMPLE NO.	GOLD PPB
71778	Nil
71779	10
71780	Nil
71781	50
71782	580/630
71783	190
71784	90
71785	10
71786	40
71787	80/60
71788	70
71789	10
71790	20
71791	10

Per G. Lebel-Manager/nl

Established 1928

2 ~~EMS~~ 89-10-04

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Established 1928

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 76337 Date October 2, 1989

Received September 25, 1989 25 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario P.O. #75JV28

SAMPLE NO.	GOLD PPB
8351	90
8352	10
8353	620/610
8354	Nil
8355	Nil
8356	Nil
8357	Nil
8358	Nil
8359	90
8360	Nil
8361	Nil
8362	Nil
8363	Nil
8364	Nil
8365	70/50
8366	10
8367	Nil
8368	Nil
8369	Nil
8370	Nil
8371	Nil
8372	10
8373	Nil
8374	Nil
8375	1040/0.98(gt)

Per G. Lebel-Manager/rl

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

Telephone (705) 642-3244. FAX (705) 642-3300

VMS 89-10-06

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 76343 Date Oct. 4, 1989

Received Sept. 25, 1989 24 Rock Samples entered

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
8338	190/160	8251	Nil
8339	Nil	8252	10
8340	30	8253	Nil
8341	Nil	8254	20
8342	10	8255	Nil
8343	20	8256	Nil
8344	Nil	8257	Nil
8345	30/20	8258	Nil
8346	30	8259	Nil
8347	Nil	8260	Nil
8348	Nil	8261	150/120
8349	Nil		
8350	Nil		

HDL

HDL

data entered 10/29/89

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705) 642-3300

20805

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

DATE: JOUR/DAY 6 | MOIS/MONTH Oct | ANNÉE/YEAR 1989

TRANSPORTEUR / SHIPPED VIA

VENDU A / SOLD TO
Battle Mountain Canada Inc.
Suite 2910--390 Bay Street
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO	VOTRE NO DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
		75JV28		NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
60	Au assays	$ 8.75	$ 525.00 ✓
60	Sample Handling	3.00	180.00 ✓
	Cert.#76384 Oct. 5, 1989		
	APPROVED FOR PAYMENT		
	Ck#[illegible] - $614.25		
	75-JV-28/105-779		
		TOTAL..	$ 705.00 ✓

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

JK

VMS 89-10-06

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

enclosed

Certificate of Analysis

Certificate No. 76384 Date Oct. 5, 1989

Received Sept. 29, 1989 60 Channel Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P. O. #75JV28

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
71801	Nil	71822	20	71843	Nil
71802	Nil	71823	Nil	71844	20
71803	10/20	71824	Nil	71845	10/Nil
71804	Nil	71825	Nil	71846	Nil
71805	Nil	71826	Nil	71847	Nil
71806	Nil	71827	10	71848	10
71807	Nil	71828	Nil	71849	Nil
71808	Nil	71829	Nil	71850	Nil
71809	Nil	71830	Nil	71701	Nil
71810	Nil	71831	Nil	71702	Nil
71811	10	71832	20	71703	20/10
71812	Nil	71833	Nil	71704	Nil
71813	Nil	71834	Nil	71705	10
71814	10	71835	Nil	71706	Nil
71815	Nil	71836	30/20	71707	Nil
71816	Nil	71837	Nil	71708	Nil
71817	Nil	71838	Nil	71709	Nil
71818	10	71839	Nil	71716	Nil
71819	20/10	71840	Nil		
71820	Nil	71841	20		
71821	10	71842	10		

Per G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705) 642-3300

OCT 26 1989 20843

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

JOUR / DAY	DATE MOIS / MONTH	ANNÉE / YEAR	TRANSPORTEUR / SHIPPED VIA
16	Oct.	1989	

VENDU A / SOLD TO

Battle Mountain Canada Inc.
Suite 2910--390 Bay St.
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO DE COMMANDE / YOUR ORDER NO	NOTRE NO DE COMMANDE / OUR ORDER NO	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
				NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
25	Au assays	$ 8.75	$ 218.75 ✓
25	Sample Handling	3.00	75.00 ✓
	Cert.#76403 Oct. 10, 1989		
37	Au assays	8.75	323.75 ✓
37	Sample Handling	3.00	111.00 ✓
	Cert.#76413 Oct. 11, 1989		
33	Au assays	8.75	288.75 ✓
33	Sample Handling	3.00	99.00 ✓
	Cert.#76438 Oct. 12, 1989		
19	Au assays	8.75	166.25
19	Sample Handling	3.00	57.00 ✓
	Cert.#76439 Oct. 12, 1989 APPROVED FOR PAYMENT		
		TOTAL..	$ 1339.50

PAID
OCT 26 1989
CK #1000 - $1,339.75
AC 75-JV-28105-779

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

C

SD 89-10-12

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Established 1928

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 76403 Date Oct. 10, 1989

Received Oct. 2, 1989 25 rock samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
71576	10	71595	10
71577	10	71596	Nil
71578	10	71597	Nil
71579	Nil	71598	10
71580	10/Nil	71599	10
71581	10	71600	60/80
71582	Nil		
71583	10		
71584	20		
71585	20		
71586	Nil		
71587	10		
71588	10		
71589	Nil		
71590	30		
71591	10		
71592	Nil		
71593	70/50		
71594	Nil		

Per G. Lebel

G. Lebel, Manager/dg

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

Telephone (705) 642-3244. FAX (705) 642-3300

Swastika Laboratories

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Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 76403 Date Oct. 10, 1989

Received Oct. 2, 1989 25 rock samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
71576	10	71595	10
71577	10	71596	Nil
71578	10	71597	Nil
71579	Nil	71598	10
71580	10/Nil	71599	10
71581	10	71600	60/80
71582	Nil		
71583	10		
71584	20		
71585	20		
71586	Nil		
71587	10		
71588	10		
71589	Nil		
71590	30		
71591	10		
71592	Nil		
71593	70/50		
71594	Nil		

entered

Per G. Lebel

G. Lebel, Manager/dg

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

Telephone (705) 642-3244 FAX (705) 642-3300

Swastika Laboratories

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Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 76413 ✓ Date Oct. 11, 1989

Received Oct. 3, 1989 37 Channel Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
71858	10	71880	Nil
71859	Nil	71881	10/Nil
71860	10/10	71882	Nil
71861	Nil	71883	Nil
71862	Nil	71884	Nil
71863	Nil	71885	20
71864	Nil	71886	Nil
71865	Nil	71887	20
71866	Nil	71888	Nil
71867	10	71889	10/20
71868	20/10	71890	Nil
71869	Nil	71891	10
71872	Nil	71892	20
71873	Nil	71893	Nil
71874	10	71894	Nil
71875	Nil	71895	Nil
71876	Nil	71896	Nil
71877	Nil		
71878	Nil		
71879	Nil		

entered

Per G. Lebel - Manager /ns

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

Telephone (705) 642-3244, FAX (705) 642-3300

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 76438 Date Oct. 12, 1989

Received Oct. 4, 1989 33 rock samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario

proj#75-JV-28

entered

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
71651	20	71671	Nil
71652	20	71672	Nil
71653	20	71673	Nil
71654	Nil	71674	Nil
71655	30	71675	Nil
71656	770/760	71676	Nil
71657	Nil	71677	20/20
71658	70	71678	Nil
71659	10	71679	Nil
71660	10	71680	40
71661	30	71681	10
71662	10	71682	Nil
71663	Nil	71683 & 71684**	10
71664	20		
71665	20/20		
71666	Nil		
71667	Nil		
71668	Nil		
71669	Nil		
71670	Nil		

**indicates 2 tags in sample bag

Per G. Lebel

G. Lebel, Manager/dg

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

Telephone (705)642-3244, FAX (705)642-3300

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Established 1928

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 76439 Date Oct. 12, 1989

Received Oct. 5, 1989 19 rock samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario

proj#75-JV-28

entered

SAMPLE NO.	GOLD PPB
8376	Nil
8377	10
8378	230
8379	80/130
8380	Nil
8381	380/290
8382	20
8383	170
8384	Nil
8385	20
8386	10
8387	20
8388	20
8389	170
8390	310/320
8391	190
8392	70
8393	Nil
8394	Nil

HD-2

Per G. Lebel, Manager/dg

P.O. Box 10, Swastika, Ontario P0K 1T0
Telephone (705) 642-3244 FAX (705) 642-3300

OCT 26 1989 20844

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

JOUR DAY	DATE MOIS MONTH	ANNÉE YEAR	TRANSPORTEUR SHIPPED VIA
16	Oct	1989	

VENDU A SOLD TO

Battle Mountain Canada Inc.
Suite 2910--390 Bay St
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO. DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
				NET 30 DAYS	

QUANTITÉ QUANTITY	DESCRIPTION	PRIX UNITAIRE UNIT PRICE	MONTANT AMOUNT
8	Au assays	$ 8.75	$ 70.00 ✓
8	Sample Handling	3.00	24.00 ✓
	Cert.#76441 Oct. 12, 1989		
64	Au assays	8.75	560.00 ✓
64	Sample Handling	3.00	192.00 ✓
	Cert.#76469 Oct. 16, 1989		
	APPROVED FOR PAYMENT		
	O'Leary		
	A52		
	OCT 26 1989		
	GL #.1000-#6,427.25		
	AE 75-JV-28/105-779	TOTAL...	$ 846.00

FACTURE/INVOICE

ANALYTICAL CHEMISTS ● ASSAYERS ● CONSULTANTS
ESTABLISHED 1928

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Swastika Laboratories

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A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 76441 Date oct. 12, 1989

Received Oct. 4, 1989 8 rock samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario proj#75-JV-28

enlarged

SAMPLE NO.	GOLD PPB
71701	Nil
71851	20
71852	20
71853	40/50
71854	10
71855	20
71856	Nil
71857	Nil

Per G. Lebel

G. Lebel, Manager/dg

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

Telephone (705) 642-3244, FAX (705) 642-3300

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

entered

Certificate No. 76469 ✓ Date Oct. 16, 1989

Received Oct. 10, 1989 64 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
71951	30	71975	Nil	71999	Nil
71952	Nil	71976	Nil	72000	Nil
71953	Nil	71977 ✓	30	72501	Nil
71954	Nil	71978	40	72502	Nil
71955	Nil	71979	50/90	72503	Nil
71956	Nil	71980	Nil	72504	Nil/Nil
71957	Nil	71981	Nil	72505	Nil
71958	400/380	71982	Nil	72506	Nil
71959 ✓	20	71983	Nil	72507	Nil
71960	40	71984	Nil	72508	Nil
71961	40	71985	Nil	72509	Nil
71962	Nil	71986	30/50	72510	Nil
71963	20	71987	Nil	72511	Nil
71964	Nil	71988	Nil	72512	Nil
71965	Nil	71989	10	72513	Nil
71966	Nil	71990	Nil	72514	Nil
71967	20	71991	Nil		
71968	80/70	71992	Nil		
71969	30	71993	Nil		
71970	Nil	71994	Nil		
71971	20	71995	Nil/Nil		
71972	Nil	71996	Nil		
71973	Nil	71997	Nil		
71974	20	71998	Nil		

Per G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705) 642-3300

OCT 26 1989 20884

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

DATE: JOUR/DAY 18 | MOIS/MONTH Oct | ANNÉE/YEAR 1989

TRANSPORTEUR / SHIPPED VIA

VENDU À / SOLD TO
Battle Mountain Canada Inc.
Suite 2910--390 Bay Street
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO. DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
				NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
58	Au assays	$ 8.75	$ 507.50 ✓
58	Sample Handling	3.00	174.00 ✓
	Cert.#76502 Oct. 18, 1989		
5	Au assays	8.75	43.75 ✓
5	Sample Handling	3.00	15.00 ✓
	Cert.#76526 oct. 17, 1989		
41	Au assays	8.75	358.75 ✓
41	Sample handling	3.00	123.00 ✓
	Cert.#76530 Oct. 17, 1989		
18	Au assays	8.75	157.50 ✓
18	Sample Handling	3.00	54.00 ✓
	Cert.#76544 oct. 18, 1989		
		TOTAL	$ 1433.50 JK

PAID
OCT 26 1989

Cl.#-1000 - $427.25
A/c 75-JV-28/105-779

APPROVED FOR PAYMENT

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

TM ®

Entered

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Established 1928

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 76502 ✓ Date Oct. 18, 1989

Received Oct. 12, 1989 58 Channel Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

SAMPLE NO.	GOLD PPB		SAMPLE NO.	GOLD PPB		SAMPLE NO.	GOLD PPB
1-18N 72515	Nil	104+95-94	72537	Nil	104+72-71	72559	Nil/Nil
18-17 72516	Nil	93	72538	Nil	70	72560	Nil
17-16 72517	Nil	92	72539	10	69	72561	Nil
15 72518	Nil	91	72540	20	68	72562	Nil
14 72519	Nil/Nil	90	72541	Nil	62	72563	Nil
13 72520	Nil	89	72542	Nil	66	72564	Nil
12 72521	10	88	72543	50	65	72565	Nil
11 72522	Nil	87	72544	350/200	64	72566	Nil
10 72523	Nil	86	72545	Nil	63	72567	Nil
9-8 72524	Nil	84.9-84.0N	72546	Nil	62	72568	Nil
8 72525	10	84-83N	72547	Nil	61	72569	Nil/Nil
7.6N 72526	20	82	72548	20/10	61-60.3	72570	Nil
4.5-3.5 72527	Nil	81	72549	Nil	59-58.2	72571	Nil
3.5-2.5 72528	Nil	80	72550	Nil	55-54.1	72572	Nil
2.5-1.5 72529	20	79	72551	Nil			
1.5-0.5 72530	20	79-77.8	72552	Nil			
100.5-109.00N 72531	20	77.8-76.8	72553	Nil			
99-98 72532	130/150	76.8-76.4	72554	Nil			
98 72533	Nil	75.5-75	72555	Nil			
97 72534	Nil	75-74	72556	Nil			
96 72535	Nil	73	72557	Nil			
95 72536	10	72	72558	Nil			

AK-TR 83+50E

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705) 642-3300

Swastika Laboratories

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Established 1928

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 76526 Date Oct. 17, 1989

Received Oct. 15, 1989 5 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

SAMPLE NO.	GOLD PPB
8442	Nil
8443	60/70
8444	30
8445	30
8446	20

Per G. Lebel - Manager /ns

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Swastika Laboratories

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Assaying - Consulting - Representation

Not Entered

Certificate of Analysis

Certificate No. 76530 Date Oct. 17, 1989

Received Oct. 16, 1989 41 Channel Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

SAMPLE NO.	GOLD PPB
AK TRB3+50E-104.00-103.49 72601	Nil
98 72602	Nil
97 72603	20
96 72604	Nil
95 72605	20/20
94 72606	10
93 72607	Nil
103.93-103.92 72608	Nil
AKTRB3+50E 103.76-103.74 72609	Nil
75-74 72610	Nil
71-70 72611	Nil
70-69 72612	10/Nil
69-68 72613	20
103+68-67.N 72614	Nil
AKTRB350-103-45 72615	Nil
15 M 72616	Nil
13 72617	20
12 72618	Nil
11 72619	Nil
10 72620	10
9 72621	10
103-04-0BN 72622	20/10
AKTRB35 72623	Nil
72624	Nil
72625	Nil
72626	Nil
72627	Nil
72628	Nil
72629	20
72630	10
72631	Nil
72632	Nil
72633	Nil
72634	Nil
72635	Nil
72636	Nil
72637	10
72638	Nil
72639	Nil
72640	20
72641	60/70

Per G. Lebel - Manager /ns

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

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Certificate of Analysis

Certificate No. 76544 Date Oct. 18, 1989

Received Oct. 16, 1989 18 Channel Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

SAMPLE NO.	GOLD PPB
72669	100/150
72670	70
72671	70
72672	20
72673	20
72674	20
72675	Nil
72676	20/30
72677	10
72678	Nil
72679	Nil
72680	Nil
72681	Nil
72682	30
72683	10
72684	10/Nil
72685	Nil
72686	Nil

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705)642-3244 FAX (705)642-3300

OCT 26 1989 20885

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

JOUR / DAY	DATE MOIS / MONTH	ANNÉE / YEAR	TRANSPORTEUR / SHIPPED VIA
18	Oct.	1989	

VENDU A / SOLD TO
Battle Mountain Canada Inc.
Suite 2910--390 Bay St.
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO. DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
				NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
3	Au assays	$ 8.75	$ 26.25
3	Sample Handling	3.00	9.00
	Cert.#76565 Oct. 18, 1989		
	APPROVED FOR PAYMENT		
	OCT 26 1989		
	#1000 $6427.25		
	75-JV-28,105-779		
		TOTAL...	$ 35.25

FACTURE/INVOICE

ANALYTICAL CHEMISTS ● ASSAYERS ● CONSULTANTS
ESTABLISHED 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Restated

Certificate of Analysis

Certificate No. 76565 Date Oct. 18, 1989

Received Oct. 17, 1989 3 Grab Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O.#75JV28

SAMPLE NO.	GOLD PPB
71692	110/100
71693	50
71694	90

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705)642-3244. FAX (705)642-3300

OCT 26 1989 20903

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

JOUR DAY	DATE MOIS MONTH	ANNÉE YEAR	TRANSPORTEUR / SHIPPED VIA
19	Oct	1989	

VENDU A SOLD TO

Battle Mountain Canada Inc.
Suite 2910--390 Bay St.
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO. DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
				NET 30 DAYS	

QUANTITÉ QUANTITY	DESCRIPTION	PRIX UNITAIRE UNIT PRICE	MONTANT AMOUNT
47	Au assays	$ 8.75	$ 411.25 ✓
47	Sample Handling	3.00	141.00 ✓
	Cert.#76566 oct. 18, 1989		
	PAID OCT 26 1989	APPROVED FOR PAYMENT	
	Ck.#1000 #6,427.25		
	A/c 75-JV-28/105-779	TOTAL	$ 552.25

FACTURE/INVOICE

ANALYTICAL CHEMISTS ● ASSAYERS ● CONSULTANTS
ESTABLISHED 1928

Swastika Laboratories

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Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 76566 Date Oct. 18, 1989

Received Oct. 17, 1989 47 Channel Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
72642	70/90	72667	Nil
72643	70	72668	10
72644	10	72687	10
72645	10	72688	Nil
72646	10	72689	10/20
72647	10	72690	10
72648	20	72691	Nil
72649	20	72692	10
72650	Nil	72693	Nil
72651	20	72694	40/20
72652	30	72695	20
72653	10	72696	30
72654	20	72697	20
72655	Nil	72698	20
72656	20	72699	30
72657	20	72700	30
72658	Nil	72701	10
72659	20/20	72702	20
72660	Nil	72703	20
72661	20	72704	30
72662	20	72705	10
72663	10	72706	10
72664	Nil		
72665	30/20		
72666	20		

Per G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705) 642-3300

BATTLE MOUNTAIN (CANADA) INC.
390 BAY STREET, SUITE 2910,
TORONTO, ONTARIO M5H 2Y2

1063

November 13 19 89

PAY Three Thousand, Two Hundred & Twenty-Eight—25/100 DOLLARS $ 3,228.25

TO Swastika Laboratories Limited,
P.O. Box 10,
Swastika, Ontario P0K 1T0.

BATTLE MOUNTAIN (CANADA) INC.

Canadian Imperial Bank of Commerce
MAIN BRANCH-COMMERCE COURT
TORONTO, ONTARIO M5L 1G9

[redacted]

⑈001063⑈ ⑆00002⑈010⑆ 13⑈46113 NOT NEGOTIABLE / NON NÉGOCIABLE

DETACH & RETAIN THIS STATEMENT

BATTLE MOUNTAIN (CANADA) INC. 1063

DATE	DESCRIPTION		AMOUNT
Nov. 13	Inv. #20957	- $1,574.50	
	#20956	- 270.25	
	#20993	- 1,304.25	
	#20989	- 70.50	
	#20915	- 8.75	
		$3,228.25	3,228.25

NOV 3 1989 20915

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

JOUR / DAY	DATE MOIS / MONTH	ANNÉE / YEAR	TRANSPORTEUR / SHIPPED VIA
23	Oct	1989	

VENDU À / SOLD TO:
Battle Mountain Canada Inc.
Suite 2910--390 Bay Street
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO D'EXEMPT. DE TAXE FÉD. / FED LICENCE NO.	NO D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO. DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
				NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
1	Au assay Cert.#76337 Oct. 20, 1989	$ 8.75	$ 8.75
		TOTAL	$ 8.75

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

NOV 10 1989

APPROVED FOR PAYMENT

#1063 - #3.22825

A/C 75-JV-28/105-779

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 76337A Date oct. 20, 1989

Received Sept. 25, 1989 1 rock sample

Submitted by Battle Mountain Canada Inc., Toronto, Ontario

SAMPLE NO.	GOLD (SECOND PULP) PPB
8375	990/900

HD-L ✓

entered

Per G. Lebel, Manager/dg

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

Telephone (705)642-3244 FAX (705)642-3300

20957

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

DATE: JOUR/DAY 26 | MOIS/MONTH Oct. | ANNÉE/YEAR 1989

TRANSPORTEUR / SHIPPED VIA

VENDU À / SOLD TO: Battle Mountain Canada Inc.
Suite 2910--390 Bay St.
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO. DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
				NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
37	Au assays	$ 8.75	$ 323.75 -
37	Sample Handling	3.00	111.00 -
	Cert.#76594 Oct. 24, 1989		
64	Au assays	8.75	560.00 -
64	Sample handling	3.00	192.00 -
	Cert.#76595 Oct. 25, 1989		
26	Au assays	8.75	227.50 -
26	Sample Handling	3.00	78.00 -
	Cert.#76552 Oct. 23, 1989		
7	Au assays	8.75	61.25 -
7	Sample Handling	3.00	21.00 -
	Cert.#76637 Oct. 26, 1989		
		TOTAL...	$ 1574.50 JK

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

NOV 10 1989

Ch.# 1063 $3,238.25

APPROVED FOR PAYMENT
Oswald E. Keigh

A 15-IV-28/105-779

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Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 76594 Date Oct.24, 1989

Received Oct. 19, 1989 37 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

SAMPLE NO.	GOLD PPB	GOLD g/t
8395	20	---
8396	20	---
8397	80	---
8398	10	---
8399	20	---
8400	110/130	---
72721	Nil	---
72722	20	---
72723	40	---
72724	20	---
72725	500	---
72726	2370	2.47
72727	3630	3.12
Second Pulp	3330	2.88
72728	3430	3.26
72729	1640	1.58
72730	1360	1.47
72731	1200	1.30
72732	20	---
72733	20	---
72734	Nil	---
72735	20	---
72736	20	---
72737	Nil	---
72738	260/260	---
72739	210	---
72740	470/620	---
72741	250	---
72801	10	---
72802	200	---
72803	10	---
72804	Nil	---
72805	Nil	---
72806	20	---
72807	Nil	
72808	Nil	---
72809	20	---
72810	3500	3.39
Second Pulp	3630	3.77

Per G. Lebel

G. Lebel - Manager /ns

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

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Assaying - Consulting - Representation

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Certificate of Analysis

Certificate No. 76595 Date Oct. 25, 1989

Received Oct. 20,, 1989 64 Channel Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
72901	40	72924	5560	72948	50
72902	10	72925	7270	72949	30
72903	Nil	72926	3620	72950	Nil
72904	Nil	72927	1000	72951	Nil
72905	Nil	72928	1360	72952	Nil
72906	30	72929	80	72953	10
72907	2060	72930	20	72954	Nil
72908	10	72931	Nil	72955	20
72909	Nil	72932	Nil	72956	20/70
72910	10	72933	Nil	72957	Nil
72911	20	72934	660	72958	Nil
72912	20	72935	2810	72959	Nil
72913	440	72936	22220	72960	Nil
72914	2610	Second Pulp	21360	72961	10
72915	11660	72937	5280	72962	10
Second Pulp	11420	72938	890	72963	Nil
72916	340			72964	Nil
72917	200	72941	20	72968	Nil
72918	30	72942	Nil	72971	10
72919	Nil	72943	Nil	Con't....	
72920	50	72944	10		
72921	40	72945	Nil		
72922	1250	72946	440/480		
72923	9390	72947	330		
Second Pulp	9360				

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705) 642-3300

extend

SAMPLE NO.	GOLD g/t
72907	1.78
72914	2.64
72915	10.97
Second Pulp	11.11
72922	0.99
72923	10.63
Second Pulp	9.43
72924	5.62
72925	7.20
72926	3.22
72927	1.20
72928	1.51
72935	3.67
72936	24.27
Second Pulp	19.20
72937	5.59

Per G. Lebel

G. Lebel - Manager

Swastika Laboratories

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Assaying - Consulting - Representation

entered

Certificate of Analysis

Certificate No. 76552 / Date Oct. 23, 1989

Received Oct. 16, 1989 26 Channel Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

Proj. #75JV28

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
71623	40	71636	Nil
71624	240/190	71637	20/20
71625	90	71638	20
71626	60	71639	Nil
71627	90	71640	30
71628	40	71641	Nil
71629	10	71642	Nil
71630	50	71643	Nil
71631	190/160	71644	Nil
71632	150	71645	20
71633	30	71646	410/410
71634	90	71647	30
71635	90	71648	Nil

Per G. Lebel - Manager /ns

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Certificate of Analysis

Certificate No. 76637 Date Oct. 25, 1989

Received Oct. 24, 1989 7 Core Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

SAMPLE NO.	GOLD PPB
72939	40
72940	10
72965	Nil
72966	Nil
72967	Nil
72969	20/20
72970	Nil

not entered

Per G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705)642-3300

NOV 3 1989

20958

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

DATE: JOUR/DAY 26 | MOIS/MONTH Oct. | ANNÉE/YEAR 1989

TRANSPORTEUR / SHIPPED VIA

VENDU À / SOLD TO:
Battle Mountain Canada Inc.
Suite 2910--390 Bay St.
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO. DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
				NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
9	Au assays	$ 8.75	$ 78.75 -
9	Sample Handling	3.00	27.00 -
	Cert.#76654 Oct. 26, 1989		
14	Au assays	8.75	122.50 -
14	Sample Handling	3.00	42.00 -
	Cert.#76575 oct. 19, 1989		
		TOTAL....	$ 270.25 JK

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

TM ©

NOV 10 1989

Ck # 1063 - $3,278.25

15-JV-28/105-779

APPROVED FOR PAYMENT

Oswald Legg

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Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 76654 Date Oct. 26, 1989

Received Oct. 25, 1989 9 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O.#75JV28

SAMPLE NO.	GOLD PPB
71897	50
71898	140/140
71899	Nil
71900	160
72758	120/130
72759	170
72760	230/240
72761	180
72762	120

VK - HOLE in SAO's book

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705) 642-3244 FAX (705) 642-3300

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Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 76575 Date Oct. 19, 1989

Received Oct. 18, 1989 14 Channel Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

SAMPLE NO.	GOLD PPB
72707	110
72708	30
72709	60
72710	50/50
72711	40
72712	Nil
72713	110
72714	Nil
72715	30
72716	Nil
72717	Nil
72718	10/10
72719	Nil
72720	Nil

Per G. Lebel - Manager

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

Telephone (705) 642-3244. FAX (705) 642-3300

20989

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

JOUR / DAY	DATE MOIS / MONTH	ANNÉE / YEAR	TRANSPORTEUR
30	Oct	1989	SHIPPED VIA

VENDU À / SOLD TO

Battle Mountain Canada Inc
Suite 2910--390 Bay St.
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO. DE COMMANDE / YOUR ORDER NO	NOTRE NO DE COMMANDE / OUR ORDER NO	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
		75JV28		NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
6	Au assays	$ 8.75	$ 52.50
6	Sample Handling	3.00	18.00
	Cert.#76669 Oct. 30, 1989		
		TOTAL...	$ 70.50 JK

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

APPROVED FOR PAYMENT

Oswald E Leigh

NOV 10 1989

#1063 - $3,228.25

c/c 75-JV-28/105-779

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Certificate of Analysis

Certificate No. 76669 Date Oct. 30, 1989

Received Oct. 27, 1989 6 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O.#75JV28

SAMPLE NO.	GOLD PPB
72811	10
72812	Nil
72813	Nil
72814	10/Nil
72815	Nil
72816	Nil

HDL - FA

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705) 642-3244 FAX (705) 642-3300

20993

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

DATE: JOUR/DAY 30 | MOIS/MONTH Oct | ANNÉE/YEAR 1989

TRANSPORTEUR / SHIPPED VIA

VENDU À / SOLD TO
Battle Mountain Canada Inc.
Suite 2910--390 Bay St.
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO. DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
				NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
111	Au assays	$ 8.75	$ 971.25 -
111	Sample Handling	3.00	333.00 -
	Cert.#76660 Oct. 30, 1989		
		TOTAL....	$ 1304.25 JK

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

PAID
NOV 10 1989

APPROVED FOR PAYMENT
Oswald E. Lang

A/C #1063 - #3,11225

FC 75-JV-28/105-779

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Established 1928

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 76660 Date Oct. 30, 1989

Received Oct. 26, 1989 111 Channel Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
201	10	222	Nil	244 *	1120
202	Nil	223	Nil	245	170
203	Nil	224	Nil	246	90
204	10	225	Nil	247	10
205	70/120	226	Nil	248	Nil
206	70	227	10	249	30
207	30	228	Nil	250	20
208	Nil	229	70	251	Nil
209	10	230	130/150	252	Nil
210	Nil	231	90	253	450
211	10	232	60	254	610/600
212	Nil	233	20	255	160
213	20	234	Nil	256	50
214	130/130	235	20	257	20
215	20	236	Nil	258	70
216	Nil	237	40	259	Nil
217	30	238	300/290	260	20
218	Nil	239	130	261	10
219	Nil	240	110	262	10
220	10	241	10	263	20
221	Nil	242	Nil	Con't...	
		243	170		

Per G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705) 642-3300

Swastika Laboratories

Certificate No. 76660 Page -2-

SAMPLE NO.	GOLD PPB
264	190
265	340
266	10
267	30
268 *	1710
Second Pulp	1510
269	130
270	10
271	Nil
272	20
273	Nil
274	Nil
275	30
276	20
277	30
278	70
279	180/200
280	100
281	140
282	40
283	40
284	110
285	40

SAMPLE NO.	GOLD PPB
286	20
287	30
288	50
289	460/450
290	320
291	250
292	110
293	10
294	Nil
295	Nil
296	Nil
297	Nil
298	20
299	10
300	10/10
501	Nil
502	Nil
503	10
504	Nil
505	Nil
506	10

SAMPLE NO.	GOLD PPB
507	Nil
508	Nil
509	30
510	Nil
511	20

SAMPLE NO.	GOLD g/t
244	1.30
268	1.71
Second Pulp	1.65

Per _____
G. Lebel - Manager

Established 1928

BATTLE MOUNTAIN (CANADA) INC.
390 BAY STREET, SUITE 2910,
TORONTO, ONTARIO M5H 2Y2

1144

December 6 19 89

PAY Three Thousand Nine Hundred & Twenty-One --25 /100 DOLLARS $ 3,921.25

TO Swastika Laboratories Limited,
P.O. Box 10,
Swastika, Ontario.
P0K 1T0

BATTLE MOUNTAIN (CANADA) INC.

Canadian Imperial Bank of Commerce
MAIN BRANCH-COMMERCE COURT
TORONTO, ONTARIO M5L 1G9

[redacted]

"001144" :0000 2"010: 13"46113 NOT NEGOTIABLE / NON NÉGOCIABLE

DETACH & RETAIN THIS STATEMENT

BATTLE MOUNTAIN (CANADA) INC.

1144

DATE	DESCRIPTION		AMOUNT
Dec. 06	Invoice # 21022 - Nov. 02, 1989	$ 255.50	
	# 21051 - Nov. 08, 1989	1,433.50	
	# 21052 - Nov. 06, 1989	23.25	
	# 21062 - Nov. 10, 1989	1,445.25	
	# 21100 - Nov. 14, 1989	552.25	
	# 21204 - Nov. 27, 1989	221.50	3,921.25

21022

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

JOUR / DAY	DATE MOIS / MONTH	ANNÉE / YEAR	TRANSPORTEUR / SHIPPED VIA
2	Nov	1989	

VENDU À / SOLD TO
Battle Mountain Canada Inc.
Suite 2910--390 Bay St.
Toronto, Ontario
M5H 2Y2

NOV 17 1989

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO DE COMMANDE / YOUR ORDER NO	NOTRE NO DE COMMANDE / OUR ORDER NO	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
		KL		NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
21	Au assays	$ 8.75	$ 183.75 -
21	Sample Handling	3.00	63.00 -
	Cert.#76678 Oct. 31, 1989		
1	Au assay	8.75	8.75 -
	Cert.#76680 Oct. 31, 1989		

PAID
NOV 16 1989

APPROVED FOR PAYMENT

A/C 75-JV-28/105-779

TOTAL . . $ 255.50 JK

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
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Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 76678 Date Oct. 31, 1989

Received Oct. 27, 1989 21 Channel Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

SAMPLE NO.	GOLD PPB	GOLD g/t
512	80	---
513	110	---
514	4700	4.73
Second Pulp	4050	4.08
515	30	---
516	40	---
517	140	---
518	80	---
519	320	---
520	130	---
521	130	---
522	170	---
523	1920	1.75
524	Nil	---
525	70	---
526	70	---
527	150	---
528	40	---
529	60/70	---
530	50	---
531	50	---
532	50	---

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705) 642-3300

Swastika Laboratories

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Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 76680 Date Oct. 31, 1989

Received Oct. 27, 1989 1 Rock Sample

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

SAMPLE NO.	GOLD PPB
533	130/130

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705) 642-3300

21051

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

JOUR / DAY	DATE MOIS / MONTH	ANNÉE / YEAR	TRANSPORTEUR / SHIPPED VIA
8	Nov.	1989	

VENDU A / SOLD TO
Battle Mountain Canada Inc.
Suite 2910--390 Bay St.
Toronto, Ontario
M5H 2Y2

NOV 17 1989

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
		75JV28		NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
43	Au assays	$ 8.75	$ 376.25
43	Sample Handling	3.00	129.00
	Cert.#76699 Nov. 3, 1989		
43	Au assays	8.75	376.25
43	Sample Handling	3.00	129.00
	Cert.#76700 Nov. 3, 1989		
36	Au assays	8.75	315.00
36	Sample handling	3.00	108.00
	Cert.#76719 Nov. 6, 1989		
		TOTAL...	$ 1433.50

NOV 16 1989

APPROVED FOR PAYMENT

C/# 1144 = 3921.25

C75-JV-28/105-779

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

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Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 76699 Date Nov. 3, 1989

Received Oct. 29, 1989 43 rock samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario proj#75JV28

SAMPLE NO.	GOLD PPB		SAMPLE NO.	GOLD PPB
71649	30		71922	10
71650	340		71923	10
71901	10		71924	Nil
71902	10		71925	Nil
71903	40		71926	Nil
71904	7840	7.54 g/t Fab	71927	10
second pulp	6860	7.89 g/t HUNTON SHAFT VN (VMS)	71928	10
71905	40		71929	10
71906	Nil		71930	10
71907	Nil		71931	10
71908	Nil		71932	Nil
71909	Nil		71933	30/20
71910	Nil		71934	Nil
71911	Nil		71935	Nil
71912	10		71936	Nil
71913	20/10		71937	Nil
71914	10		71938	10
71915	Nil		71939	10
71916	Nil		71940	Nil
71917	Nil		71941	Nil
71918	10			
71919	10			
71920	Nil			
71921	Nil			

Per G. Lebel

G.Lebel, Manager/dg

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

Telephone (705) 642-3244. FAX (705) 642-3300

Swastika Laboratories

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Established 1928

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 76700 Date Nov. 3, 1989

Received Oct. 30, 1989 43 rock samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario 75JV28

SAMPLE NO.	GOLD PPB		SAMPLE NO.	GOLD PPB	
71684	10		72764	40	
71685	300/330		72765	70	
71686	10		72766	30	
71687	Nil		72767	290/280	
71688	20		72817	70	
71689	20		72718	10	
71690	Nil		72819	40	
71691	Nil		72820	10	
71695	Nil		72821	150	
71696	Nil		72822	20	
71697	Nil		72823	20	
71698	Nil/Nil		72824	10	
71699	Nil		72825	Nil	
71700	Nil		72826	20	
72751	Nil		72827	Nil	
72752	Nil		72828	200	
72753	Nil		72829	3630	3.22 g/t
72754	Nil		second pulp	3430	3.43 g/t
72755	Nil		72830	70	
72756	Nil		72831	30	
72757	10		72832	2740	2.61 g/t
72763	4660	4.53 g/t	72833	70	
second pulp	4590	4.66 g/t			

Per G. Lebel

G. Lebel, Manager/dg

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

Telephone (705) 642-3244 FAX (705) 642-3300

Swastika Laboratories

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Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 76719 Date Nov. 6, 1989

Received Oct. 31, 1989 36 rock samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario 75JV28

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
901	20	921	Nil
902	10	922	Nil
903	10	923	Nil
904	40/50	924	Nil
905	Nil	925	20/20
906	20	926	10
907	Nil	927	Nil
908	Nil	71942	Nil
909	Nil	71943	10
910	Nil	71944	Nil
911	20	71945	Nil
912	10	71946	Nil
913	Nil	71947	Nil
914	170/150	71948	20
915	Nil	71949	Nil
916	Nil	71950	20
917	40		
918	30		
919	10		
920	Nil		

Per G. Lebel, Manager/dg

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

Telephone (705) 642-3244 FAX (705) 642-3300

21082

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

DATE: JOUR/DAY 10 | MOIS/MONTH Nov | ANNÉE/YEAR 1989

TRANSPORTEUR

SHIPPED VIA

VENDU A / SOLD TO
Battle Mountain Canada Inc.
Suite 2910--390 Bay St.
Toronto, Ontario
M5H 2Y2

NOV 17 1989

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO. DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
		75JV28		NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
65	Au assays	$ 8.75	$ 568.75 -
65	Sample Handling	3.00	195.00 -
	Cert.#76760 Nov. 10, 1989		
58	Au assays	8.75	507.50 -
58	Sample Handling	3.00	174.00 -
	Cert.#76761 Nov. 8, 1989		
	APPROVED FOR PAYMENT		
	NOV 16 1989		
	A/C #11-1-1-3731.25		
	A/C 75-JV-28/105-779		
		TOTAL	$ 1445.25

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
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Established 1928

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 76760 Date Nov. 10, 1989

Received Nov. 3, 1989 65 Channel Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P. O. #75JV28

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
534	40	559	Nil	584	Nil
535	20	560	Nil	585	Nil
536	160/180	561	40	586	Nil
537	160	562	Nil	587	20
538	90	563	50	588	Nil/Nil
539	Nil	564	Nil	589	Nil
540	110	565	Nil	590	Nil
541	30	566	Nil	591	10
542	40	567	90/100	592	Nil
543	10	568	10	593	Nil
544	Nil	569	Nil	594	Nil
545	40	570	Nil	595	Nil
546	10	571	Nil	596	Nil
547	30	572	Nil	597	Nil
548	50	573	Nil	598	Nil/Nil
549	30	574	Nil	599	Nil
550	60	575	Nil	600	Nil
551	150/120	576	Nil		
552	60	577	Nil		
553	Sample not received	578	Nil		
554	Sample not received	579	10		
555	20	580	Nil		
556	310/330	581	20		
557	50	582	Nil		
558	50	583	Nil		

Per G. Lebel

G. Lebel - Manager /hs

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

Telephone (705) 642-3244. FAX (705) 642-3300

ENTERED

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 76761 Date Nov. 8, 1989

Received Nov.3, 1989 58 Channel Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
801	Nil	823	Nil	845	Nil
802	Nil	824	80	846	Nil
803	Nil	825	130	847	180
804	10	826	150/170	848	200/120
805	30	827	20	849	130
806	180/220	828	Nil	850	80
807	110	829	120	851	Nil
808	140	830	Nil	852	10
809	200	831	Nil	853	Nil
810	200	832	Nil	854	50
811	200/200	833	Nil	855	40
812	170	834	Nil	856	10
813	130	835	60	857	10
814	90	836	Nil	858	20
815	50	837	20		
816	20	838	30		
817	30	839	70		
818	50	840	70/80		
819	Nil	841	40		
820	80	842	70		
821	20	843	80		
822	160/160	844	10		

Per G. Lebel - Manager /ns

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

Telephone (705) 642-3244 FAX (705)642-3300

NOV 23 1989 21100

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

JOUR / DAY	DATE MOIS / MONTH	ANNÉE / YEAR	TRANSPORTEUR / SHIPPED VIA
14	Nov	1989	

VENDU À / SOLD TO

Battle Mountain Canada Inc.
Suite 2910--390 Bay St.
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO. DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
		75JV28		NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
33	Au assays	$ 8.75	$ 288.75 -
33	Sample Handling	3.00	99.00 -
	Cert.#76777 Nov. 10, 1989		
11	Au assays	8.75	96.25 -
11	Sample Handling	3.00	33.00 -
	Cert.#76816 Nov. 13, 1989		
3	Au assays	8.75	26.25 -
3	Sample Handling	3.00	9.00 -
	Cert.#76836 Nov. 14, 1989		
		TOTAL...	$ 552.25

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

TM ©

NOV 27 1989

Ch. #1144 - $ 552.25

A/C 75-JV-28/105-779

APPROVED FOR PAYMENT

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 76777 Date Nov. 10, 1989

Received Nov. 6, 1989 33 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O.#75JV28

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	GOLD g/t
72834	60	72852	10	---
72835	40	72853	250	---
72836	30	72854	10	---
72837	60	72855	3770	4.01
72838	30/40	Second Pulp	3050	3.26
72839	90	72856	6510	5.66
72840	20	Second Pulp	6030	6.31
72841	70	72857	70	---
72842	200	72858	3430	3.43
72843	130	Second Pulp	2850	2.88
72844	50	72859	340	---
72845	310	72860	30	---
72846	30	72861	30	---
78847	200	72862	40	---
72848	190/150	72863	1950	1.91
72849	60	Second Pulp	1710	1.85
72850	380	72864	20	---
72851	30	72865	30	---
		72866	40	---

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705)642-3244. FAX (705)642-3300

MS 87-12-88

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 76816 Date Nov. 13, 1989

Received Nov. 9, 1989 11 Channel Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O. 75JV28

SAMPLE NO.	GOLD PPB	GOLD g/t
8298	20	---
8299	10	---
8300	1300	0.96
72742	480	---
72743	1920	2.54
72744	8570	9.46
Second Pulp	10290	9.94
72745	5280	5.49
72746	940	---
72747	210	---
72748	6170	6.10
72749	5140	6.79

Per G. Lebel - Manager /ns

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

Telephone (705)642-3211 FAX (705)642-3300

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Established 1928

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 76836 Date Nov. 14, 1989

Received Nov. 13, 1989 3 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O.#75JV28

SAMPLE NO.	GOLD PPB
72768	10
72769	10
72770	290/290

Per G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705)642-3300

DEC 4 1989 21204

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

DATE			TRANSPORTEUR
JOUR / DAY	MOIS / MONTH	ANNÉE / YEAR	SHIPPED VIA
27	NOV	1989	

VENDU A / SOLD TO
Battle Mountain Canada Inc.
Suite 2910--390 Bay St.
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO. DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
		75JV28		NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
18	Au assays	$ 8.75	$ 157.50
18	Sample Handling	3.00	54.00
	Cert.#76942 Nov. 27, 1989		
		TOTAL....	$ 211.50

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

DEC 0 6 1989

LR 1144 = 3921.25

75-JV-28 / 105-779

APPROVED FOR PAYMENT

BATTLE MOUNTAIN (CANADA) INC.
390 BAY STREET, SUITE 2910,
TORONTO, ONTARIO M5H 2Y2

1204

December 27 19 ..

PAY Two thousand & Ninety-Seven ---------- 05/100 DOLLARS $ 2,097.05

TO Shebina Laboratories Limited,
P.O. Box 10,
Shebina, Ontario.
P0K 1X0

BATTLE MOUNTAIN (CANADA) INC.

Canadian Imperial Bank of Commerce
MAIN BRANCH-COMMERCE COURT
TORONTO, ONTARIO M5L 1G9

[redacted]

⑈001204⑈ ⑆00002⑈010⑆ 13⑈46113 NOT NEGOTIABLE / NON NÉGOCIABLE

DETACH & RETAIN THIS STATEMENT

BATTLE MOUNTAIN (CANADA) INC.

1204

DATE	DESCRIPTION		AMOUNT
Dec. 27'89	Invoice # 21323 - Dec. 15'89	$ 516.25	
	# 21302 - Dec. 12'89	1,093.75	
	# 21269 - Dec. 07'89	87.05	2,097.05

ENCLOSED

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 76942 Date Nov. 27, 1989

Received Nov. 23, 1989 18 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

SAMPLE NO.	GOLD PPB
72972	320
72973	110
72974	360
72975	230
72976	180
72977	460/500
72978	210
72979	320
72980	Nil
72981	690/650
72982	Nil
72983	540/640
72984	Nil
72985	310
72986	Nil
72987	20
72988	Nil
72989	Nil

Per G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705)642-3300

DEC 15 1989

21285

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

JOUR / DAY	DATE MOIS / MONTH	ANNÉE / YEAR	TRANSPORTEUR
7	Dec	1989	SHIPPED VIA

VENDU À / SOLD TO
Battle Mountain (Canada) Inc.
Suite 2910--390 Bay St.
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. / FED LICENCE NO	NO D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO. DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
		75JV28		NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
1	Zinc Spot Test Kit		$ 35.00
	Transportation charges		16.80 NOT INCLUDED
3	Au assays	8.75	26.25
3	Sample Handling	3.00	9.00
	Cert.#77063 Dec. 7, 1989		
		TOTAL...	$ 87.05 JK

FACTURE/INVOICE

ANALYTICAL CHEMISTS ● ASSAYERS ● CONSULTANTS
ESTABLISHED 1928

DEC 21 1989

#1204 - 2097.05

APPROVED FOR PAYMENT

A/C 75-JV-28/105-779

Swastika Laboratories

Entered SAD

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 77063 Date Dec. 7, 1989

Received Dec. 5, 1989 3 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O#75JV28

SAMPLE NO.	GOLD PPB	GOLD g/t
635	2400	2.40
636	9260	9.33
637	70/80	---

Per G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705) 642-3300

DEC 27 1989 21302

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

DATE: JOUR/DAY 12 | MOIS/MONTH Dec | ANNÉE/YEAR 1989

TRANSPORTEUR / SHIPPED VIA

VENDU À / SOLD TO
Battle Mountain Canada Inc.
Suite 2910--390 Bay St.
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO. DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
		75JV28		NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
54	Au assays	$ 8.75	$ 472.50
22	Ag Cu Pb Zn PPM	15.00	330.00
54	Sample Handling	3.00	162.00
	Cert.#77095 Dec. 11, 1989		
11	Au assays	8.75	96.25
11	Sample Handling	3.00	33.00
	Cert.#77096 Dec. 11, 1989		
		TOTAL....	$ 1093.75

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

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PAID
DEC 27 1989
Ck#1204 - $2097.05

APPROVED FOR PAYMENT

A/C 75-JV-28/105-779 - $1093.75

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Established 1928

Assaying - Consulting - Representation

Certificate of Analysis

entered SKP

Certificate No. 77095 Date Dec. 11, 1989

Received Dec. 7, 1989 54 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O.#75JV28

SAMPLE NO.	GOLD PPB	GOLD g/t	SAMPLE NO.	GOLD ppb	GOLD g/t
638	10	---	655	500	---
639	Nil	---	656	1650	1.71
640	10	---	657	2730	2.64
641	60	---	658	1760	1.76
642	1410	1.44	659	2190	1.89
643	660	---	660	1430	1.23
644	340	---	661	1120	1.03
645	60	---	662	40	---
646	30	---	663	2400	2.13
647	10	---	664	80	---
648	10	---	665	40	---
649	80	---	666	20	---
650	920	---	667	50	---
651	50	---	668	40	---
652	3840	4.42	669	240	---
Second Pulp		3.26	Con't....		
653	290	---			
654	2060	2.06			

Per G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705) 642-3300

Swastika Laboratories

Certificate No. 77095 Page -2-

SAMPLE NO.	GOLD PPB	GOLD g/t	SILVER PPM	COPPER PPM	LEAD PPM	ZINC PPM
670	27220	28.53	7.5	73	848	84
Second Pulp		29.83				
671	1480	1.30	1.9	69	1030	51
672	20	---	0.1	61	4	64
673	30	---	0.1	85	13	63
674	20	---	0.1	110	3	137
675	1280	1.23	0.6	93	184	69
676	40	---	0.2	55	51	79
677	720	---	0.7	49	205	108
678	30	---	0.3	89	494	89
679	1470	1.41	2.1	81	3030	364
680	3090	3.33	1.3	41	433	181
681	1000	0.96	0.7	73	677	60
682	990	---	0.7	89	760	85
683	2190	2.26	2.2	389	1270	35
684	870	---	7.0	151	2530	37
685	3980	4.15	1.6	72	1050	36
686	200	---	0.3	63	873	78
687	620	---	1.2	281	2140	71
688	50	---	0.2	53	8	144
689	330	---	0.3	81	28	71
690	20	---	0.2	42	73	119
691	590	---	0.9	55	1070	71

Per _____
G. Lebel - Manager

Established 1928

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Assaying - Consulting - Representation

Certificate of Analysis

entered

Certificate No. 77096 Date Dec. 11, 1989

Received Dec. 7, 1989 11 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O.#75JV28

SAMPLE NO.	GOLD PPB
301	Nil
302	30
303	20
304	10
305	20/10
306	Nil
307	Nil
308	Nil
309	Nil/Nil
310	Nil
311	Nil

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705) 642-3300

DEC 27 1989 21323

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

JOUR DAY	DATE MOIS MONTH	ANNÉE YEAR	TRANSPORTEUR SHIPPED VIA
15	Dec	1989	

VENDU À SOLD TO
Battle Mountain Canada Inc.
Suite 2910--390 Bay St.
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. PROV. LICENCE NO.	VOTRE NO. DE COMMANDE 75JV28 YOUR ORDER NO.	NOTRE NO DE COMMANDE OUR ORDER NO.	CONDITIONS NET 30 DAYS TERMS	REP. DES VENTES SALES REP.

QUANTITÉ QUANTITY	DESCRIPTION	PRIX UNITAIRE UNIT PRICE	MONTANT AMOUNT
9	Au assays	$ 8.75	$ 78.75 -
9	Ag Cu Pb Zn PPM	15.00	135.00 -
9	Sample Handling	3.00	27.00 -
	Cert.#77101 Dec. 13, 1989		
9	Au assays	8.75	78.75 -
9	Ag Cu Pb Zn PPM	15.00	135.00 -
9	Sample Handling	3.00	27.00 -
	Cert.#77102 Dec. 13, 1989		
37	Au assays	8.75	323.75 -
37	Sample Handling	3.00	111.00 -
	Cert.#77116 Dec. 15, 1989		
		TOTAL...	$ 916.25 JK

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

PAID
DEC 27 1989

APPROVED FOR PAYMENT

Ck #1204 - 2092.05
AC 75-JV-28 / 105-779 - 916.25

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Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 77101 Date Dec. 13, 1989

Received Dec. 8, 1989 9 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O.#75JV28

SAMPLE NO.	GOLD PPB	GOLD g/t	SILVER PPM	COPPER PPM	LEAD PPM	ZINC PPM
692	10	---	0.2	58	68	116
693	50	---	1.4	124	2150	48
694	10	---	0.2	329	254	153
695	4110	3.63	4.2	53	4040	38
Second Pulp	3430	3.39				
696	210	---	0.6	36	166	95
697	410/440	---	0.8	33	189	81
698	80	---	0.5	56	150	197
699	40	---	0.5	51	71	88
700	130	---	0.7	42	27	84

Per G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705)642-3300

Swastika Laboratories

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Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 77102 Date Dec. 13, 1989

Received Dec. 8, 1989 9 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O.#75JV28

SAMPLE NO.	GOLD PPB	GOLD g/t	SILVER PPM	COPPER PPM	LEAD PPM	ZINC PPM
72867	70	---	0.8	54	48	131
72868	2270	2.09	4.9	63	339	70
72869	5760	5.97	2.3	63	67	85
72870	60	---	0.4	32	157	89
72871	10	---	0.1	70	181	190
72872	11180	10.90	2.5	31	87	83
Second Pulp	11070	12.00				
72873	830	---	1.1	36	748	75
72874	90	---	0.3	288	529	117
72875	2610	2.85	0.8	49	24	74

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705) 642-3300

Extract

Swastika Laboratories

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Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 77116 Date Dec. 15, 1989

Received Dec. 11, 1989 37 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O. #75JV28

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
312	50/30	332	Nil
313	40	333	Nil
314	30	334	10
315	Nil	335	20/20
316	20	336	Nil
317	Nil	337	Nil
318	Nil	338	Nil
319	Nil	339	10
320	Nil	340	50/70
321	Nil	341	Nil
322	Nil	342	Nil
323	20/20	343	Nil
324	30	344	Nil
325	30	345	40/20
326	10	346	20
327	Nil	347	Nil
328	Nil	348	10
329	10		
330	20		
331	20		

Per G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705) 642-3300

BATTLE MOUNTAIN (CANADA) INC.
390 BAY STREET, SUITE 2910,
TORONTO, ONTARIO M5H 2Y2

1265

January 25 1990

PAY Four Hundred & Seventy-Five ---------- 80/100 DOLLARS $ 475.80

TO Swastika Laboratories Limited,
P.O. Box 10,
Swastika, Ontario.
P0K 1T0

BATTLE MOUNTAIN (CANADA) INC.

Canadian Imperial Bank of Commerce
MAIN BRANCH-COMMERCE COURT
TORONTO, ONTARIO M5L 1G9

[redacted]

⑈001265⑈ ⑆00002⑉010⑆ 13⑉46113⑈ NOT NEGOTIABLE / NON NÉGOCIABLE

DETACH & RETAIN THIS STATEMENT

BATTLE MOUNTAIN (CANADA) INC.

1265

DATE	DESCRIPTION		AMOUNT
Jan. 25'90	Invoice # 21370 - Dec. 20'89	$ 387.75	
	# 21479 - Jan. 12'90	88.05	475.80

JAN 8 1990 21370

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

JOUR / DAY	DATE MOIS / MONTH	ANNÉE / YEAR	TRANSPORTEUR / SHIPPED VIA
20	Dec	1989	

VENDU À / SOLD TO:
Battle Mountain Canada Inc
Suite 2910--390 Bay St.
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO DE COMMANDE / YOUR ORDER NO	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
		75JV28		NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
33	Au assays	$ 8.75	$ 288.75 -
33	Sample Handling	3.00	99.00 -
	Cert.#77062 Dec. 6, 1989		
		TOTAL....	$ 387.75

PAID
JAN - 9 1990
Ch# 1265 $475.80
A/C 75-JV-28/105-779

APPROVED FOR PAYMENT

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Established 1928

Assaying - Consulting - Representation

entered SAP

Certificate of Analysis

Certificate No. 77062 Date Dec. 6, 1989

Received Dec. 5, 1989 33 Rock Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O.#75JV28

SAMPLE NO.	GOLD PPB	GOLD g/t
602	10	---
603	Nil	---
604	Nil	---
605	Nil	---
606	Nil/Nil	---
607	10	---
608	Nil	---
609	Nil	---
610	10	---
611	40	---
612	7610	7.75
Second Pulp	7410	7.82
613	3840	4.59
614	2740	2.61
615	750	---
616	620/720	---
617	290	---
618	320	---
619	660	---
620	3090	3.22
621	1850	2.19
Second Pulp	2060	1.85
622	2400	2.88
623	820	---
624	40	---
625	90	---
626	Nil	---
627	30	---
628	30	---
629	Nil	---
630	20	---
631	10/Nil	---
632	Nil	---
633	Nil	---
634	Nil	---

Per G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705) 642-3300

21479

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300

DATE: JOUR/DAY 12 | MOIS/MONTH Jan | ANNÉE/YEAR 1990

TRANSPORTEUR / SHIPPED VIA

VENDU A / SOLD TO:
Battle Mountain Canada Inc.
Suite 2910--390 Bay St.
Toronto, Ontario
M5H 2Y2

JAN 22 1990

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD. / FED. LICENCE NO.	NO. D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO.	VOTRE NO. DE COMMANDE / YOUR ORDER NO.	NOTRE NO DE COMMANDE / OUR ORDER NO.	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
		K.L.		NET 30 DAYS	

QUANTITÉ / QUANTITY	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
3	Au assays	$ 8.75	$ 26.25
3	Ag Cu Pb Zn PPM	15.00	45.00
3	Mo	2.60	7.80
3	Sample Handling	3.00	9.00
	Cert.#77282 Jan. 9, 1990		
	PAID JAN 25 1990		
	APPROVED FOR PAYMENT [redacted]		
	Ck #1265: 475.86		
	A/C 75-JV-28/105-779	TOTAL....	$ 88.05 JK.

FACTURE/INVOICE

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Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 77282 Date Jan. 9, 1990

Received Jan. 4, 1990 3 Grab Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O.#75JV28

SAMPLE NO.	GOLD PPB	GOLD g/t	SILVER PPM	COPPER PPM	LEAD PPM	ZINC PPM	MOLYBDENUM PPM
8447	34560	34.90	11.6	79	798	50	319
Second Pulp	31130	30.58					
8448	2740	3.22	---	---	---	---	---
8449	1080	1.10	---	---	---	---	---

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705) 642-3300

Swastika Laboratories

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Certificate of Analysis

Certificate No. 77282A Date Jan. 11, 1990

Received Jan. 4, 1990 2 grab samples

Submitted by Battle Mountain Canada Inc. , Toronto, Ontario

SAMPLE NO.	SILVER PPM	COPPER PPM	LEAD PPM	ZINC PPM	MOLYBDENUM PPM
8448	6.1	29	247	54	215
8449	0.7	52	97	81	9

Per G. Tebel, Manager/dg

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

Telephone (705)642-3244 FAX (705)642-3300

BATTLE MOUNTAIN (CANADA) INC.
390 BAY STREET, SUITE 2910,
TORONTO, ONTARIO M5H 2Y2

1305

February 12 1990

PAY Two Hundred & Seven 75/100 DOLLARS $ 207.75

TO Swastika Laboratories Limited,
P.O. Box 10,
Swastika, Ontario.
P0K 1T0

BATTLE MOUNTAIN (CANADA) INC.

Canadian Imperial Bank of Commerce
MAIN BRANCH-COMMERCE COURT
TORONTO, ONTARIO M5L 1G9

[redacted]

⑈001305⑈ ⑆00002⑈010⑆ 13⑈46113⑈ NOT NEGOTIABLE / NON NÉGOCIABLE

DETACH & RETAIN THIS STATEMENT

BATTLE MOUNTAIN (CANADA) INC.

1305

DATE	DESCRIPTION	AMOUNT
Feb. 12'90	Invoice # 21530 - January 23, 1990	207.75

21536

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE (705) 642-3244 FAX (705) 642-3300

DATE: JOUR/DAY 23 | MOIS/MONTH Jan | ANNÉE/YEAR 1990

TRANSPORTEUR / SHIPPED VIA

Battle Mountain Canada Inc.
Suite 2910--390 Bay St.
Toronto, Ontario
M5H 2Y2

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

N° D'EXEMPT. DE TAXE FED / FED. LICENCE NO	N° D'EXEMPT. DE TAXE PROV. / PROV. LICENCE NO	VOTRE N° DE COMMANDE / YOUR ORDER NO	NOTRE N° DE COMMANDE / OUR ORDER NO	CONDITIONS / TERMS	REP. DES VENTES / SALES REP.
		75JV28		NET 30 DAYS	

NOMBRE / NUMBER	DESCRIPTION	PRIX UNITAIRE / UNIT PRICE	MONTANT / AMOUNT
3	Te	$ 8.75	$ 26.25
3	Sb PPM	5.50	16.50
3	Multi-Element	30.00	90.00
3	Whole Rock Analysis	25.00	75.00
	Cert.#77282 B & C Jan. 22, 1990		

SWASTIKA LABORATORIES LTD.

PAID
FEB 20/90

WITH THANKS
PER D. Gardner

TOTAL..... $ 207.75

FACTURE/INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

Swastika Laboratories

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Established 1928

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 77282 - B Date Jan. 22, 1990

Received Jan. 4, 1990 3 Core Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O.#75JV28

SAMPLE NO.	TELLURIUM PPM	ANTIMONY PPM
8447	8	<5
8448	5	<5
8449	1	<5

Per G. Lebel - Manager /ns

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

Telephone (705) 642-3244. FAX (705)642-3300

Swastika Laboratories

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Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 77282 - C Date Jan. 23, 1990

Received Jan. 4, 1990 3 Grab Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O #75JV28

WHOLE ROCK ANALYSIS

SAMPLE NO:		8447	8448	8449
SiO_2	%	71.31	68.14	59.21
Al_2O_3	%	7.81	9.64	13.42
Fe_2O_3	%	6.58	8.50	6.71
CaO	%	2.79	1.08	4.31
MgO	%	1.67	0.93	2.05
Na_2O	%	0.72	0.56	1.94
K_2O	%	4.01	4.97	5.62
TiO_2	%	0.34	0.69	0.69
MnO	%	0.30	0.07	0.45
P_2O_5	%	0.31	0.51	0.43
LOI	%	4.08	4.82	5.06
Ba	PPM	106	1281	1908
Cr	PPM	1155	968	416
Nb	PPM	190	193	182
Sr	PPM	241	195	716
Y	PPM	<10	28	24
Zr	PPM	107	343	329

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705) 642-3244 FAX (705) 642-3300

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Certificate of Analysis

Certificate No. 77282 - C Date Jan. 23, 1990

Received Jan. 4, 1990 3 Grab Samples

Submitted by Battle Mountain Canada Inc., Toronto, Ontario.

P.O. #75JV28

"Semi-Quantitative Multi-Element Analysis"

SAMPLE NO:		8447	8448	8449
Silver	PPM	43	43	20
Arsenic	PPM	<10	<10	<10
Boron	%	0.2	0.1	0.05
Barium	PPM	1900	1848	3201
Beryllium	PPM	<10	<10	<10
Bismuth	PPM	<10	<10	<10
Cadmium	PPM	19	19	16
Cerium	PPM	<10	20	18
Cobalt	PPM	35	49	32
Chromium	PPM	905	675	292
Copper	PPM	65	40	70
Lanthanum	PPM	<10	72	45
Molybdenum	PPM	<10	<10	<10
Niobium	PPM	<10	<10	<10
Nickel	PPM	57	44	32
Lead	PPM	947	354	285
Sulphur	%	0.2	0.4	0.06
Antimony	PPM	<10	<10	<10
Selenium	PPM	<10	<10	<10
Tin	PPM	<10	<10	<10
Strontium	PPM	223	152	663
Tellurium	PPM	<10	<10	<10

SAMPLE NO:		8447	8448	8449
Thorium	PPM	<10	<10	<10
Uranium	PPM	<10	<10	<10
Vanadium	PPM	144	222	171
Tungsten	PPM	<10	<10	<10
Yttrium	PPM	<10	21	28
Zinc	PPM	59	67	111
Zirconium	PPM	98	319	343
Al_2O_3	%	7.27	6.19	13.30
Fe_2O_3	%	5.86	7.15	5.86
CaO	%	2.66	1.04	4.76
MgO	%	1.35	0.51	1.54
Na_2O	%	0.26	0.04	1.87
K_2O	%	2.88	3.48	4.56
TiO_2	%	0.2	0.4	0.4
MnO	%	0.2	0.06	0.3
P_2O_5	%	0.1	0.7	0.7
LOI	%	4.08	4.82	5.06

NOTE: Slight chromium contamination due to use of hard chrome steel pulverizer plates.

Per G. Lebel

G. Lebel - Manager /ns

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

Telephone (705) 642-3244 FAX (705) 642-3300

020

BATTLE MOUNTAIN (CANADA) INC.

June 22/90
DM

REPORT ON OVERBURDEN STRIPPING OUTCROP WASHING AND CHANNEL SAMPLING AMALGAMATED KIRKLAND PROPERTY (JULY - DECEMBER, 1989)

TECK TOWNSHIP, LARDER LAKE MINING DIVISION
ONTARIO, CANADA

VOLUME 2

Compiled by:

D. R. Boucher
H. Dillon-Leitch
V. M. Shein
S. A. Dawson

Kirkland Lake, Ontario
May, 1990

Terence J. Bottrill, P. Eng.

TABLE OF CONTENTS

Volume 2

Battle Mountain (Canada) Inc. May, 1990

BATTLE MOUNTAIN (CANADA) INC.

REPORT ON OVERBURDEN STRIPPING OUTCROP WASHING AND CHANNEL SAMPLING AMALGAMATED KIRKLAND PROPERTY (JULY - DECEMBER, 1989)

TECK TOWNSHIP, LARDER LAKE MINING DIVISION
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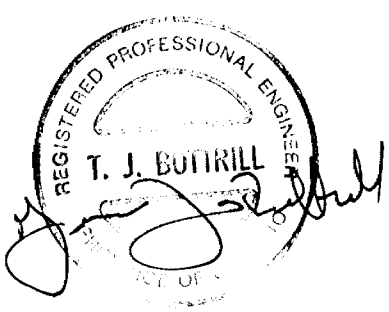

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Volume 3

Ontario

42A01NE0128 2.13325 TECK

900

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

880 Bay Street
3rd Floor
Toronto, Ontario
M5S 1Z8

(416) 965-4888

Your File: W9008-128
Our File : 2.13325

July 25, 1990

Mining Recorder
Ministry of Northern Development and Mines
4 Government Road East
KIRKLAND LAKE, Ontario
P2N 1A2

Dear Sir:

RE: Data for Expenditures submitted under Section 77(19) of the Mining Act R.S.O. 1980 on Mining Claims L 447912 et al, in the Township of Teck.

The enclosed statement of assessment work credits for Assaying has been approved as of the above date.

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

Yours sincerely

W.R. Cowan
Provincial Manager, Mining Lands
Mines & Minerals Division

DM/dvl
Enclosure

cc: Battle Mountain(Canada) Ltd.
Toronto, Ontario

Resident Geologist
Kirkland Lake, Ontario

Ministry of Northern Development and Mines

Ontario

Technical Assessment Work Credits

File: 2.13325

Date: June 25, 1990

Mining Recorder's Report of Work No.: W9008-128

Recorded Holder: Battle Mountain (Canada) Inc.

Township or Area: Teck

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	$8,979.80 SPENT ON ASSAYING SAMPLES TAKEN FROM MINING CLAIMS: L 447912 - 913, 477299 - 300, 491182 - 183, 491650 - 651, 491662 - 663, 500057 - 058, 571358
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
Man days ☐ Airborne ☐	598.7 Days credit allowed which may be grouped in accordance with Section 76(6) of the Mining Act R.S.O. 1980.
Special provision ☐ Ground ☐	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

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

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ insufficient technical data filed

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

Ministry of Northern Development and Mines

Ont.

DOCUMENT No. W9008•125

Report of Work

Mining Act

(Expenditures, Subsection 77(19)) 2.13325

Instructions
- Please type or print.
- Refer to Subsection 77(19), the Mining Act for assessment work requirements and maximum credits allowed under this Subsection
- Technical Reports, maps and proof of expenditures in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

Type of Work Performed	Mining Division	Township or Area
WASHING OUTCROP, CHANNEL SAMPLING, ASSAYS	LARDER LAKE	TECK

Recorded Holder	Prospector's Licence No.
BATTLE MOUNTAIN (CANADA) INC. 2.13325	T 5179
Address	**Telephone No.**
390 BAY STREET, SUITE 2910, TORONTO, ONTARIO M5H 2Y2	(416) 867-9815
Work Performed By	
BATTLE MOUNTAIN (CANADA) INC.	
Name and Address of Author (of Submission)	**Date When Work was Performed** From: Day 5, Mo 08, Yr 89 — To: Day 15, Mo 12, Yr 89
T.J. BOTTRILL, BATTLE MOUNTAIN (CANADA) INC., 390 BAY STREET SUITE 2910, TORONTO, ONTARIO M5H 2Y2	

All the work was performed on Mining Claim(s): Indicate no. of days performed on each claim. *See Note No. 1 on reverse side

Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
447912	92.17	447913	31.23	477299	1.46	477300	46.22				
491182	11.84	491183	123.22	491650	18.18	491651	170.08	491662	215.87	491663	258.08
500057	185.25	500058	38.55	571358	114.62						

Instructions
Total days credits may be distributed at claim holder's choice. Enter number of days credits per claim in the expenditure days credit column (below).

Calculation of Expenditure Days Credits: Total Expenditures $ 19,561.39 ÷ 15 = Total Days Credits 1304.09

Total Number of Mining Claims Covered by this Report of Work: 65

Mining Claims (List in numerical sequence). If space is insufficient, attach schedules with required information

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend Days Cr
	SEE SCHEDULE 1 ATTACHED										

RECEIVED
JUN 04 1990
MINING LANDS SECTION

Total Number of Days Performed	Total Number of Days Claimed	Total Number of Days to be Claimed at a Future Date
1304.09	1300	4.09

Certification of Beneficial Interest *See Note No. 2 on reverse side

I hereby certify that, at the time the work was performed, the claims covered in this report of work were recorded in the current recorded holder's name or held under a beneficial interest by the current recorded holder.	Date	Recorded Holder or Agent (Signature)
	APRIL 26, 1990	

Certification Verifying Report of Work

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

Name and Address of Person Certifying	Telephone No.	Date	Certified By (Signature)
T.J. BOTTRILL, BATTLE MOUNTAIN (CANADA) INC. 390 BAY STREET, SUITE 2910, TORONTO, ONTARIO M5H 2Y2	(416) 867-9815	APRIL 26, 1990	

RECEIVED
JUN 11 1990
MINING LANDS SECTION

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp
1300	May 1, 90		
	Date Approved as Recorded	Provincial Manager, Mining Lands	

0378 (89/06)

Performed on
Applied to
Contiguous

Tech

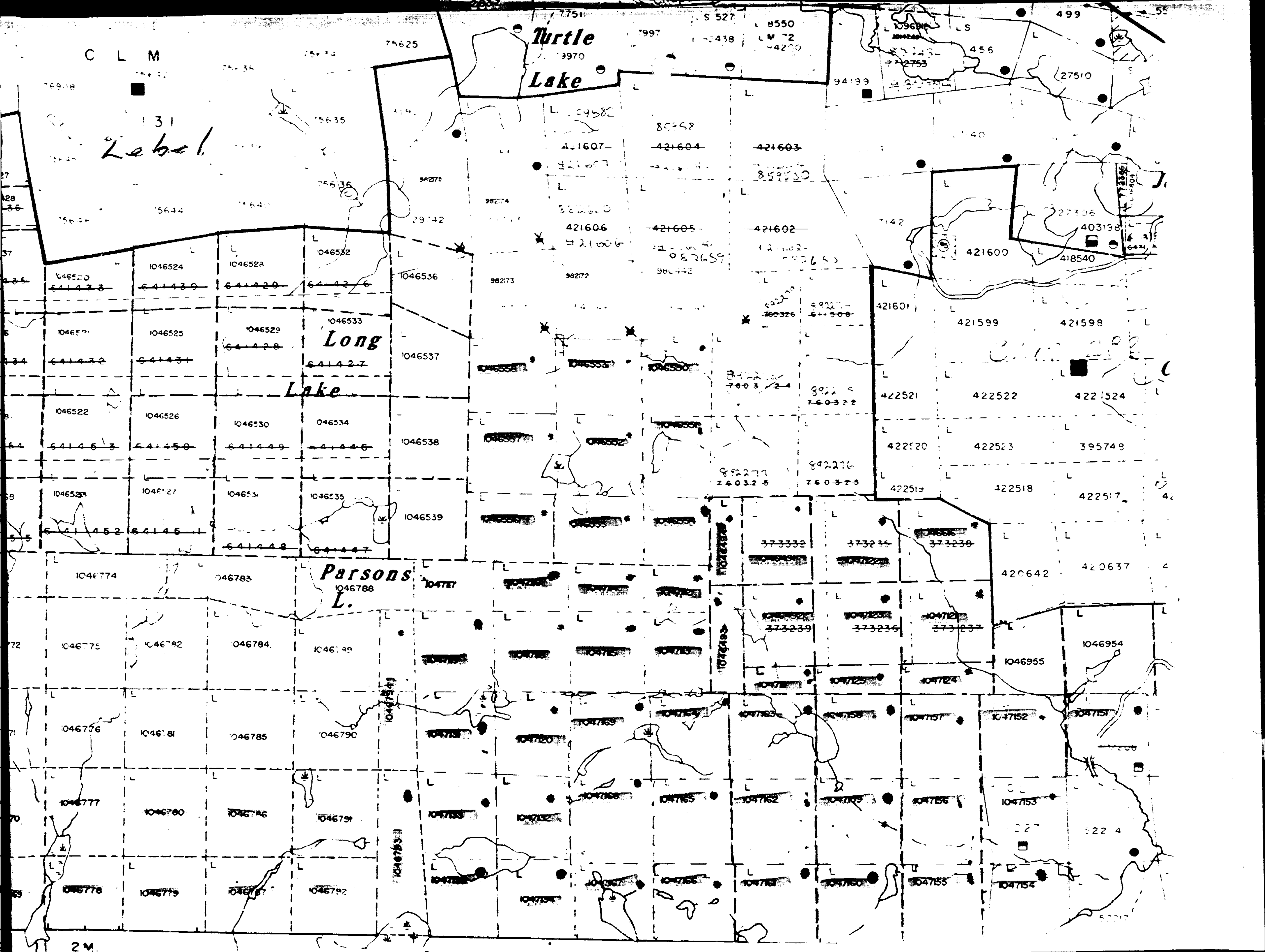
Rand

McMurtry
Lake

Bostrebel

THE DISTRICT FORESTER FOR THIS AREA CAN BE CONTACTED AT P.O. BOX 129 SWASTIKA, ONT.

IM.



C L M
Zebel
Turtle
Lake
Long
Lake
Parsons
L.
75625
75635
75644
29142
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982172
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421602
859530
421600
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27510
27306
456
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94199
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760325
760323
892216
2 M.

GULL LAKE

O.N.R.

66

QUEENSTON - PAWNEE PROPERTY

TURTLE LAKE

JORDAN LAKE

HYDRO LINE

TECK TWP.
LEBEL TWP.

LEBEL TWP.
GAUTHIER TWP.

AMALGAMATED KIRKLAND

RAND CREEK

TECK A

112

TECK TWP.
OTTO TWP.

OTTO TWP.
BOSTON TWP.

LONG LAKE

EARSONS LAKE

McMURTRY LAKE

FOX LAKE

LEBEL TWP.
BOSTON TWP.

1046424 1046425 1046426 1046427 1046429 1046428
1046430 1046435 1046434 1046437 1046520 1046524 1046528 1046532 1046536
1046431 1046432 1046433 1046436 1046521 1046525 1046529 1046533 1046537
1046440 1046439 1046438 1046522 1046526 1046530 1046534 1046538
1046441 1046442 1046443 1046668 1046523 1046527 1046531 1046535 1046539
1046784 1046760 1046762 1046765 1046773 1046774 1046783 1046788 1047117
1046761 1046763 1046766 1046767 1046772 1046775 1046782 1046784 1046789
1046757 1046758 1046759 1046768 1046771 1046776 1046781 1046785 1046790
1046756 1046473 1046474 1046475 1046746 1046748 1046750 1046752 1046754 1046770 1046777 1046780 1046786 1046791
1046466 1046465 1046472 1046467 1046470 1046471 1046476 1046477 1046747 1046749 1046751 1046753 1046755 1046769 1046778 1046779 1046787 1046792
1046823 1046587 1046588 1046586 1045667 1045673 1045672 1046490 1046489 1046615 1046614
1046585 1046584 1046583 1046589 1046669 1046670 1046671 1046488 1046487 1046613 1046612
1046576 1046575 1046577 1046588 1046567 1046566 1046565 1046486 1046485 1046611 1046610
1046578 1046569 1046570 1046564 1046563 1046484 1046483 1046609 1046608
1046580 1046579 1046572 1046571 1046561 1046562 1046481 1046482 1046607
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1046558 1046553 1046550 1046557 1046552 1046551 1046556 1046555 1046554
1046194 1046491 1047122 1046616 1046492 1047123 1047121 1046955 1046954 1046953 1046952 1046951 1047111 1047125 1047124
1047119 1047118 1047115 1047113 1047131 1047120 1047169 1047164 1047163 1047158 1047157 1047152 1047151
1047133 1047132 1047168 1047165 1047162 1047159 1047156 1047153 1047135 1047134 1047167 1047166 1047161 1047160 1047155 1047154

SCALE: 1" = ½ MILE

½ 0 ½

MILES

CLAIMS COVERED BY THIS SUBMISSION

----- Surface rights boundaries

Surface rights patent

Surface rights lease

BATTLE MOUNTAIN (CANADA) INC.

BATTLE MOUNTAIN GOLD COMPANY

KIRKLAND LAKE PROJECT
QUEENSTON MINING INC.
ONTARIO

LEBEL STOCK PROPERTY CLAIM MAP

TECK, OTTO, LEBEL & BOSTON TWPS.

T.J.B.	75-JV-28	August, 1989

Bernhardt Twp. M 327

Otto Twp. M379

M 359

Lebel Twp.

Kirkland Lake

Chaput Hughes

2.13325

TECK

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE 1-INCH = 80 CHAINS

ROADS
IMPROVED ROADS
KING'S HIGHWAYS
RAILWAY
POWER LINE
MARSH OR MUSKEG
MINES
ANCIENT

NOTES

Areas shown thus [illegible] for State of [illegible]

Mining claim L.5779 - Mining Rights subject to Sec 36 of the Mining Act, R.S.O. 1950

AREAS WITHDRAWN FROM STAKING

(R1) SURFACE RIGHTS WITHDRAWN FROM STAKING SECTION 43/70 ORDER NO. W76/80

(R2) SURFACE AND MINING RIGHTS WITHDRAWN FROM STAKING SECTION 36/80 ORDER NO W108/86

(R3) ~~SURFACE AND MINING RIGHTS WITHDRAWN FROM STAKING SECTION 36/80 ORDER NO. W8/86 ORDER NO. O-20/88 OPENS PART W-08/86~~

(R4) SURFACE AND MINING RIGHTS WITHDRAWN FROM STAKING SECTION 36/80 ORDER NO W9/86 ORDER NO. O-22/88 OPENS PART OF W9/86

(R5) SURFACE AND MINING RIGHTS WITHDRAWN FROM STAKING SECTION 36/80 ORDER NO. W18/86

(R6) ~~MINING RIGHTS WITHDRAWN FROM STAKING SECTION 36/80 ORDER NO. W30/87 NR~~ ORDER NO. O-33/88 OPENS W-90/87

(R7) MINING RIGHTS WITHDRAWN FROM STAKING SECTION 36/80 ORDER NO. W-22/88

(R8) MINING RIGHTS WITHDRAWN FROM STAKING SECTION 36/80 ORDER NO. W-[illegible]/89 O-[illegible]/89

(R9) ~~MINING RIGHTS WITHDRAWN FROM STAKING SUBJECT TO PEND[illegible] PROV. APP. OF~~

(R10) MINING RIGHTS WITHDRAWN FROM STAKING SECTION 36 ORDER NO. W-L 3789 NR ORDER NO O-L11/90 OPENS W-L3/89NR

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER MINISTRY OF NORTHERN DEVELOPMENT AND MINES FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

DATE OF ISSUE
MAY 30 1990
LARDER LAKE
MINING RECORDER'S OFFICE

PLAN NO.- M. 392

MINISTRY OF NORTHERN DEVELOPMENT AND MINES

42A01NE0128 2.13325 TECK

200

569327E

5330900N

CLAIM 6687

CLAIM 491183

PROPERTY BOUNDARY

L7280E

L7300E

L7320E

L7340E

L7360E

L7380E

L7400E

TL.10300N

10200N

TL.10150N

10100 N

STATION 1
TRENCH 7290E

STATION 2

STATION 1
TRENCH 7400E

5330645N

569327E

569778E

5330900N

N

LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz<10%)
- 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- 42 - Gabbro (An>50)
- 43 - Diorite (An<50)
  - 431 - Olivine Diorite
- 44 - Monzogabbro

40 - Intrusives (Qz<10%) cont.
- 441 - Monzodiorite
- 45 - Monzonite
- 46 - Syenite
  - 461 - Augite Syenite
  - 462 - Mela Syenite (>60% Mfc)
  - 463 - Meso Syenite (30 - 60% Mfc)
  - 464 - Leuco Syenite (0 - 30% Mfc)
- 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Foid Rocks

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- 21 - Conglomerate
- 22 - Greywacke (>15% Matrix)
- 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- 25 - Siltstone
- 26 - Mudstone
- 27 - Ironstone

10 - Volcanics
- 11 - Ultramafic
- 13 - Basalt
- 15 - Andesite
- 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
- Pillow facing direction, dipping, vertical, overturned
- Foliation (S_{1a}), dipping, vertical, dip unknown
- Foliation (S_2 or S_{1b}), dipping, vertical, dip unknown
- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72586 Sample #
- 2360/2.36 ppb Au, g/t Au
- Channel sample
- Chip sample

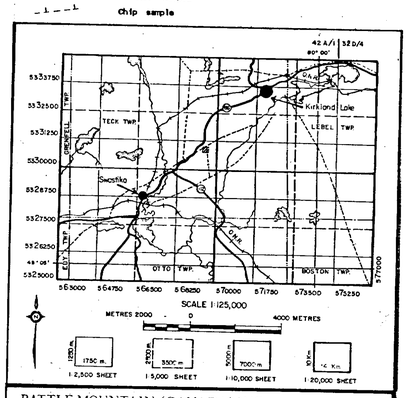
GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pebble
- d - cobble
- e - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatitic

- Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



BATTLE MOUNTAIN (CANADA) INC.

"ASSESSMENT FILE DATA" 2.13325
MINISTRY OF NORTHERN DEVELOPMENT AND MINES
RESIDENT GEOLOGIST OFFICE
KIRKLAND LAKE

KIRKLAND LAKE PROJECT
HSK Minerals Limited
ONTARIO

AMALGAMATED KIRKLAND PROPERTY
TRENCH 7290E
TRENCH 7400E
GEOLOGY

Revised June 22/90 DM

PROJECT No.: 75 - JV - 28	DATA BY: VMS
N.T.S.: 42A/1 B 32D/4	DRAWN BY: VMS
DRAWING No.: 69327 30645	DATE: 89 - 10
SCALE: 1:500	0 10 20 m

REGISTERED PROFESSIONAL ENGINEER T. J. BOSWELL

5330645N

569778E

569500E

5330641N

569850E

5330641N

BASELINE 100+00N

L 76+00 E

L 75+00E

74+75E

74+50E

74+25E

L 74+00E

BASELINE 100+00N

L 73+00 E

99+00 N

98+00 N

5330525N

569675E

ROAD

ROAD

STA1

STA2

STA3

STR4

5330387N

569500E

569850E

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- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, Iron bar, post
- Glacial striae, Ice direction known, unknown
- 72586 — Sample #
- 2360/2.36 — ppb Au, g/t Au
- Channel sample
- Chip sample

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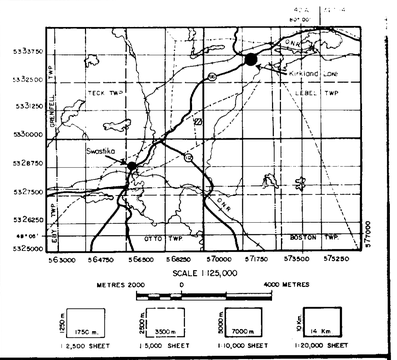


BATTLE MOUNTAIN (CANADA) INC.

Dup. 2.13325

"ASSESSMENT FILE DATA" MINISTRY OF NORTHERN DEVELOPMENT AND MINES RESIDENT GEOLOGIST OFFICE KIRKLAND LAKE RECD

KIRKLAND LAKE PROJECT
HSK Minerals Limited
ONTARIO

AMALGAMATED KIRKLAND PROPERTY
TRENCH 7435E
GEOLOGY

PROJECT No 75 [illegible] 26	DES'N VMS
N.T.S. 42A/16 32D/4	DRAWN VMS
DRAWING No 69500 30387	DATE 89 - 10 REV:
SCALE 1:500	0 10 20 m

RECORDED ENGINEER PROVINCE OF ONTARIO

42A16NE0128 2.13325 TECK

569693E

5330530N

L75+00E

L76+00E

L77+00E

570043E

5330530N

99+00N

98+50N

98+00N

97+50N

97+00N

ROAD

MUCK

cb alt zone

cb alt zone

cb alt zone

STA 3

STA 4

STA 5

STA 6

STA 7

STA 8

STA 9

569825E

5330400N

5330275N

569693E

570043E

LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz <10%)
- 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- 42 - Gabbro (An > 50)
- 43 - Diorite (An < 50)
  - 431 - Olivine Diorite
- 44 - Monzogabbro

40 - Intrusives (Qz <10%) cont.
- 441 - Monzodiorite
- 45 - Monzonite
- 46 - Syenite
  - 461 - Augite Syenite
  - 462 - Mela Syenite (>60% Mfc)
  - 463 - Meso Syenite (30 - 60% Mfc)
  - 464 - Leuco Syenite (0 - 30% Mfc)
- 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Fold Rocks

20 - Sediments
- 21 - Conglomerate
- 22 - Greywacke (>15% Matrix)
- 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- 25 - Siltstone
- 26 - Mudstone
- 27 - Ironstone

10 - Volcanics
- 11 - Ultramafic
- 13 - Basalt
- 15 - Andesite
- 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
- Pillow facing direction, dipping, vertical, overturned
- Foliation (S_{1a}), dipping, vertical, dip unknown
- Foliation (S_2 or S_{1b}), dipping, vertical, dip unknown
- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, interred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, interred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72586 Sample #
- 2360/2.36 ppb Au, g/t Au
- Channel sample
- Chip sample

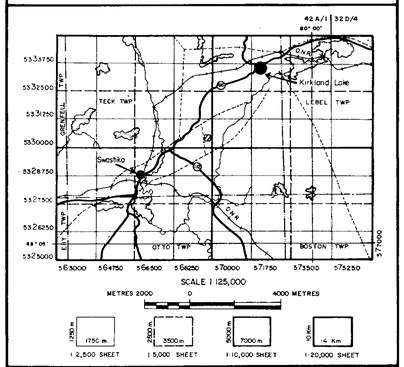
GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pebble
- d - cobble
- e - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatitic

- Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



BATTLE MOUNTAIN (CANADA) INC.

2.13325 Dup.

"ASSESSMENT FILE COPY"
MINISTRY NORTHERN DEVELOPMENT
AND MINES
SUDBURY GEOSCIENCE CENTRE

KIRKLAND LAKE PROJECT
HSK Minerals Limited
ONTARIO

AMALGAMATED KIRKLAND PROPERTY
TRENCH 7545E
GEOLOGY

PROJECT No. 75-JV-28	DATA BY: VMS
N.T.S. 42A/1 & 32D/4	DRAWN BY: VMS
DRAWING No. 69693 30275	DATE: 89 - 10
SCALE: 1:500	0 10 20 m

569532E

5331107N

105+00 N

5331050N

569700E

104+00 N

75+00 E

104+00 N

75+00 E

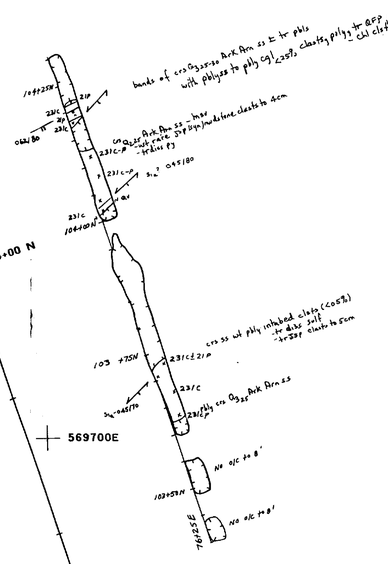
569700E

103+00 N

103+00 N

5330853N

569532E



569882E

5331107N

5330950N

569800E

5330853N

569882E

LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz < 10%)
- 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- 42 - Gabbro (An > 50)
- 43 - Diorite (An < 50)
  - 431 - Olivine Diorite
- 44 - Monzogabbro

40 - Intrusives (Qz < 10%) cont.
- 441 - Monzodiorite
- 45 - Monzonite
- 46 - Syenite
  - 461 - Augite Syenite
  - 462 - Mela Syenite (>60% Mfc)
  - 463 - Meso Syenite (30 - 60% Mfc)
  - 464 - Leuco Syenite (0 - 30% Mfc)
- 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Fold Rocks

20 - Sediments
- 21 - Conglomerate
- 22 - Greywacke (>15% Matrix)
- 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- 25 - Siltstone
- 26 - Mudstone
- 27 - Ironstone

10 - Volcanics
- 11 - Ultramafic
- 13 - Basalt
- 15 - Andesite
- 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
- Pillow facing direction, dipping, vertical, overturned
- Foliation (S_{1a}), dipping, vertical, dip unknown
- Foliation (S_2 or S_{1b}), dipping, vertical, dip unknown
- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72586 — Sample #
- 2360/2.36 — ppb Au, g/t Au
- Channel sample
- Chip sample

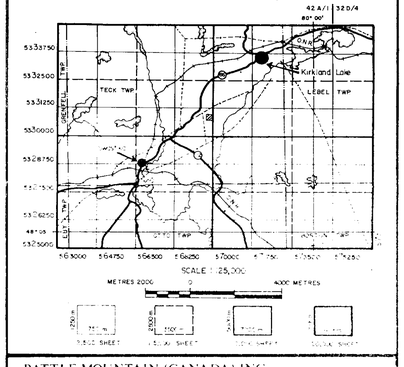
GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pebble
- d - cobble
- e - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatitic

- Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



BATTLE MOUNTAIN (CANADA) INC.

2.13325 Assp.

KIRKLAND LAKE PROJECT
HSK Minerals Limited
ONTARIO

AMALGAMATED KIRKLAND PROPERTY
TRENCH 7625E
GEOLOGY

PROJECT No. 751-JV-28	DATA BY H D-L
N.T.S. 42A/1 & 32D/4	DRAWN BY H D-L
DRAWING No. 69532 30853	DATE 89 - 10 REV.
SCALE 1:500	0 10 20 m

REGISTERED PROFESSIONAL ENGINEER
T. J. COSE

42A01NE0128 2.13325 TECK

240

569844E
5330807N
L 77+00 E
L 78+00 E
L 79+00 E
570194E
5330807N
101+00N
100+75N
100+50N
100+25N
570000E
5330750N
99+75N
99+50N
99+25N
99+00N
BASELINE 100+00N
5330650N
570000E
99+00N
5330552N
569844E
570194E
ROAD

LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz < 10%)
- 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- 42 - Gabbro (An > 50)
- 43 - Diorite (An < 50)
  - 431 - Olivine Diorite
- 44 - Monzogabbro

40 - Intrusives (Qz < 10%) cont.
- 441 - Monzodiorite
- 45 - Monzonite
- 46 - Syenite
- 461 - Augite Syenite
- 462 - Mela Syenite (>60% Mfc)
- 463 - Meso Syenite (30 - 60% Mfc)
- 464 - Leuco Syenite (0 - 30% Mfc)
- 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Fold Rocks

20 - Sediments
- 21 - Conglomerate
- 22 - Greywacke (>15% Matrix)
- 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- 25 - Siltstone
- 26 - Mudstone
- 27 - Ironstone

10 - Volcanics
- 11 - Ultramafic
- 13 - Basalt
- 15 - Andesite
- 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
- Pillow facing direction, dipping, vertical, overturned
- Foliation (S_{T1a}), dipping, vertical, dip unknown
- Foliation (S_2 or S_{T1b}), dipping, vertical, dip unknown
- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, Ice direction known, unknown

72586 ▲ 2360/2.36

Sample #
ppb Au, g/t Au
Channel sample
Chip sample

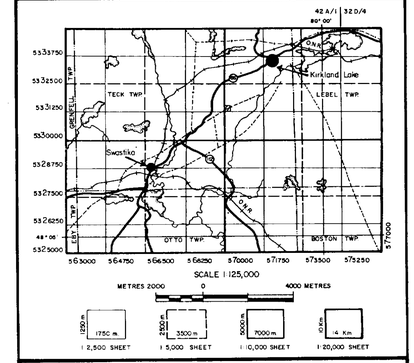
GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pebble
- d - cobble
- e - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatitic

- Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



BATTLE MOUNTAIN (CANADA) INC.

2.13325 Dup.

BATTLE MOUNTAIN GOLD COMPANY

KIRKLAND LAKE PROJECT
HSK Minerals Limited
ONTARIO

AMALGAMATED KIRKLAND PROPERTY
TRENCH 7825E
GEOLOGY

PROJECT No.: 75-JV-28	DATA BY: H D-L
N.T.S.: 42A/1 & 32D/4	DRAWN BY: H D-L
DRAWING No.: 69844 30552	DATE: 89 - 10
SCALE: 1:500	0 10 20 m

"ASSESSMENT FILE DATA"
MINISTRY OF NORTHERN DEVELOPMENT
AND MINES
RECEIVED
KIRKLAND LAKE, ONTARIO

REGISTERED PROFESSIONAL ENGINEER
T. J. CUTHILL

569904E

570255E

5331694N

5330914N

L 79+00 E

L 80+00 E

104+00 N

103+00 N

102+00 N

5331100N

5331000N

570100E

104+25N

104+00N

103+75N

103+50N

103+25N

103+00N

102+75N

102+50N

102+25N

102+00N

N

LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz < 10%)
- 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- 42 - Gabbro (An > 50)
- 43 - Diorite (An < 50)
  - 431 - Olivine Diorite
- 44 - Monzogabbro

40 - Intrusives (Qz < 10%) cont.
- 441 - Monzodiorite
- 45 - Monzonite
- 46 - Syenite
  - 461 - Augite Syenite
  - 462 - Mela Syenite (>60% Mfc)
  - 463 - Meso Syenite (30 - 60% Mfc)
  - 464 - Leuco Syenite (0 - 30% Mfc)
- 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Foid Rocks

20 - Sediments
- 21 - Conglomerate
- 22 - Greywacke (>15% Matrix)
- 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- 25 - Siltstone
- 26 - Mudstone
- 27 - Ironstone

10 - Volcanics
- 11 - Ultramafic
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- 15 - Andesite
- 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
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- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72986 Sample #
- 2360/2.36 ppb Au, g/t Au
- Channel sample
- Chip sample

GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pebble
- d - cobble
- e - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatitic

- Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point

42 A/1 | 32 D/4
80° 00'
48° 05'
KIRKLAND LAKE
TECK TWP
LEBEL TWP
GOWGANDA TWP
SWASTIKA
BOSTON TWP
OTTO TWP
GAUTHIER TWP
577000

BALLETT MOUNTAIN GOLD & BASE METALS

2.18325

KIRKLAND LAKE PROJECT
Noranda Minerals Limited
ONTARIO

AMALGAMATED KIRKLAND PROPERTY
TRENCH 7950E
GEOLOGY

DRAWN	H D-L
CHECKED	H D-L
GRID No.	69904 30914
DATE	89 - 12
SCALE	1:500

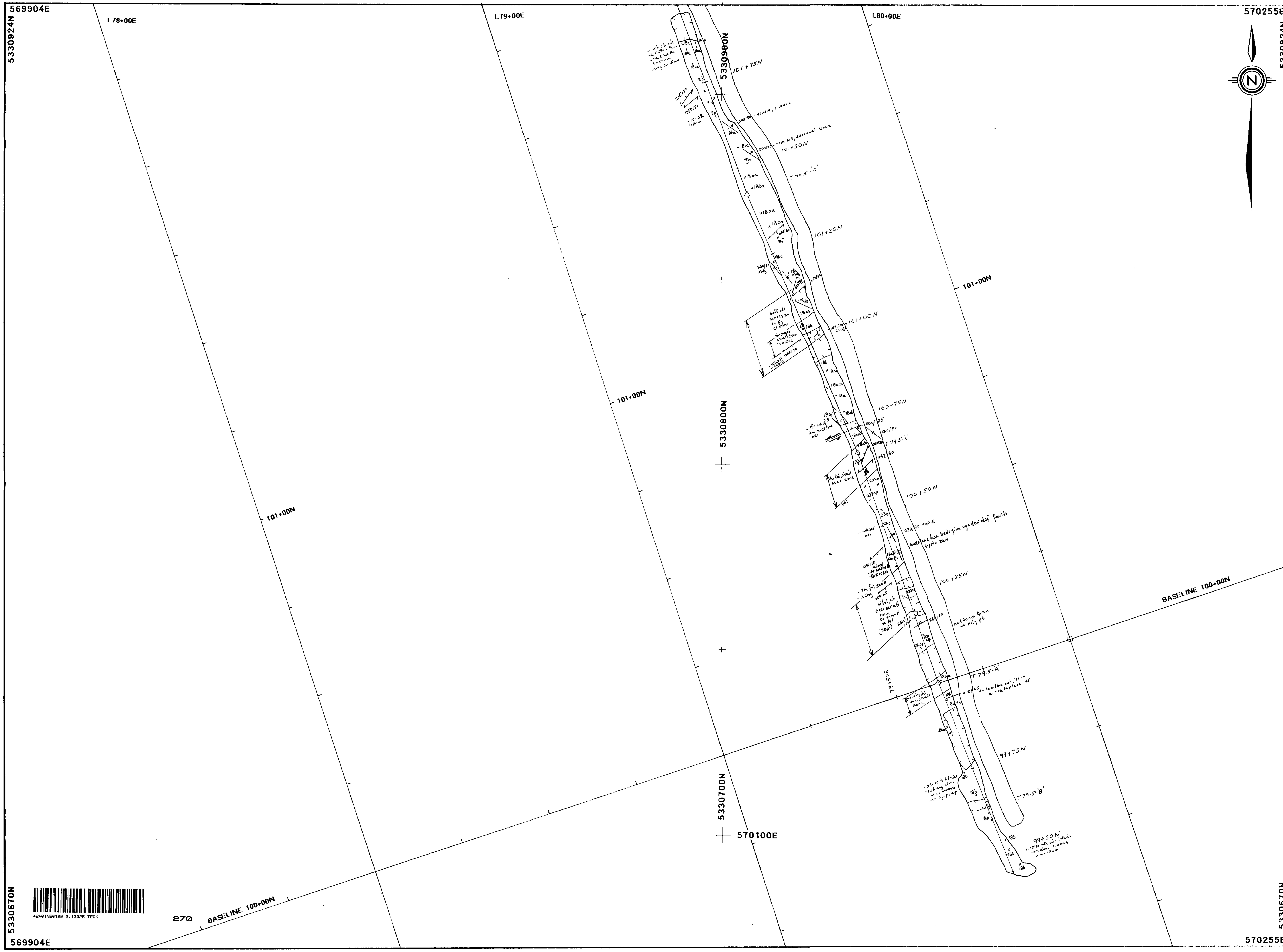
0 10 20 m

REGISTERED PROFESSIONAL ENGINEER T. J. [illegible]

42A01NE0128 2.13325 TECK

260

N/2



42A01NE0128 2.13325 TECK

LEGEND

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- 81 - Lamprophyre Dike

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  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
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  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
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  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
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40 - Intrusives (Qz <10%)
- 41 - Ultramafic
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  - 414 - Pyroxenite
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40 - Intrusives (Qz <10%) cont.
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  - 461 - Augite Syenite
  - 462 - Mela Syenite (>60% Mfc)
  - 463 - Meso Syenite (30 - 60% Mfc)
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- 49 - Feldspar - Fold Rocks

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- 22 - Greywacke (>15% Matrix)
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  - 231 - Feldspathic
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  - 233 - Quartzose
- 25 - Siltstone
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10 - Volcanics
- 11 - Ultramafic
- 13 - Basalt
- 15 - Andesite
- 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
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- Foliation (S_{1a}), dipping, vertical, dip unknown
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- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72586 — Sample #
- 2360/2.36 — ppb Au, g/t Au
- Channel sample
- Chip sample

GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
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- d - cobble
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Volcanic rocks
- a - ash tuff
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- a - fine grained
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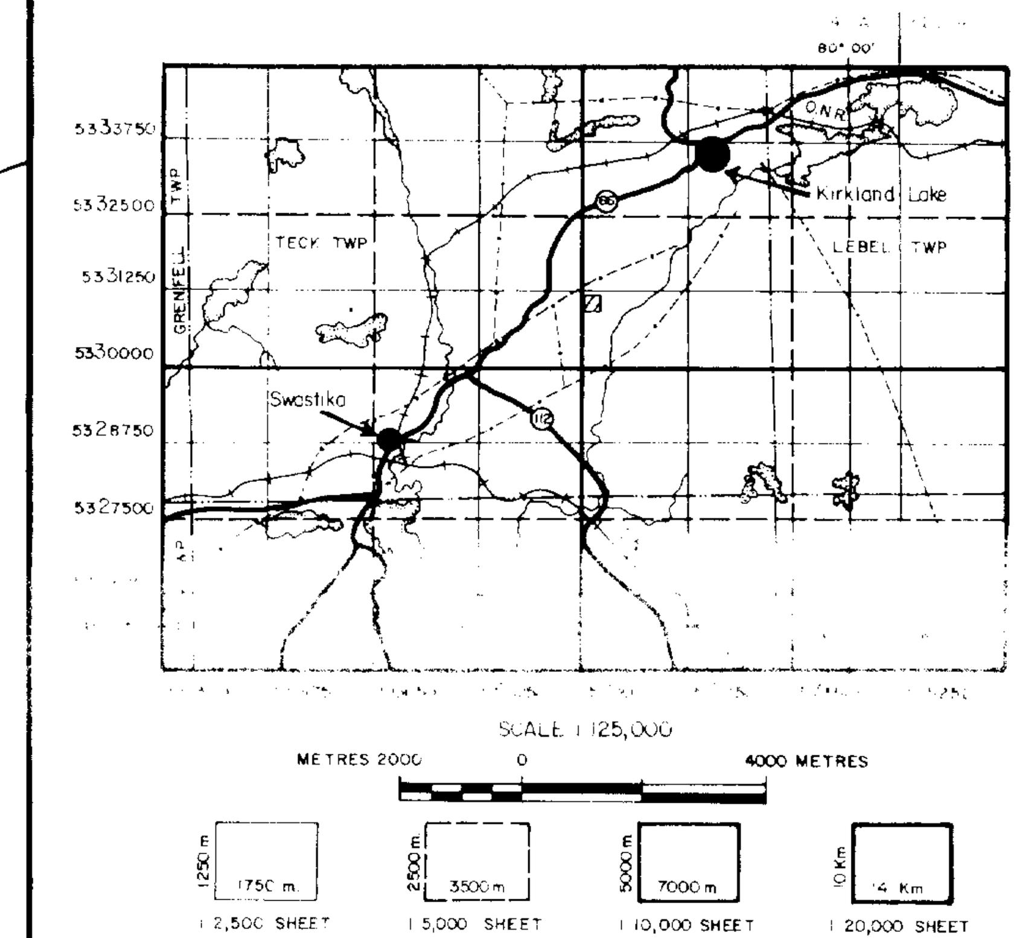
- p - pegmatitic

- × Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



BATTLE MOUNTAIN (CANADA) INC.

2.13325

KIRKLAND LAKE PROJECT
HSK Minerals Limited

Received June 22/90

AMALGAMATED KIRKLAND PROPERTY
TRENCH 7950E
GEOLOGY

H D-L
H D-L

69904 30670 89 - 12

1:500 0 10 20 m

S/2

571020E

5330672N

L 80+00 E

L 81+00 E

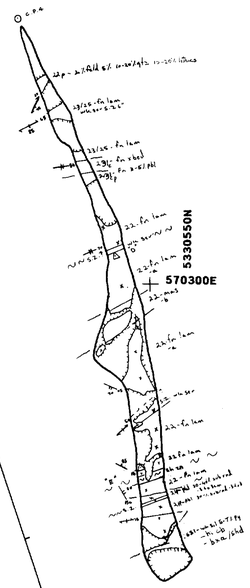
570470E

5330672N

99+00 N

98+00 N

97+00 N



5330423N

570120E

570470E

5330423N

280

42A01NE0128 2.13325 TECK

LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
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  - 624 - Ser-Cb-Cl-Qz
- 63 - Quartz-Carbonate Rock
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  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz<10%)
- 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- 42 - Gabbro (An>50)
- 43 - Diorite (An<50)
  - 431 - Olivine Diorite
- 44 - Monzogabbro

40 - Intrusives (Qz<10%) cont.
- 441 - Monzodiorite
- 45 - Monzonite

46 - Syenite
- 461 - Augite Syenite
- 462 - Mela Syenite (>60% Mfc)
- 463 - Meso Syenite (30 - 60% Mfc)
- 464 - Leuco Syenite (0 - 30% Mfc)
- 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Fold Rocks

20 - Sediments
- 21 - Conglomerate
- 22 - Greywacke (>15% Matrix)
- ~~23 - Arenite~~
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- 25 - Siltstone
- 26 - Mudstone
- 27 - Ironstone

10 - Volcanics
- 11 - Ultramafic
- 13 - Basalt
- 15 - Andesite
- 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
- Pillow facing direction, dipping, vertical, overturned
- Foliation (S_{1a}), dipping, vertical, dip unknown
- Foliation (S_2 or S_{1b}), dipping, vertical, dip unknown
- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72508 — Sample #
- 2305/2.35 — ppb Au, g/t Au
- Channel sample
- Chip sample

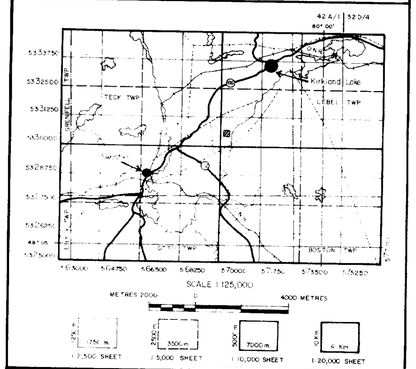
GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pebble
- d - cobble
- e - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatitic

- Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



BATTLE MOUNTAIN (CANADA) INC.

2.13325

KIRKLAND LAKE PROJECT
HSK Minerals Limited
ONTARIO

AMALGAMATED KIRKLAND PROPERTY
TRENCH 8050E
GEOLOGY

PROJECT No 75 12 08	DRN BY SAD
N.T.S. 42A/1 & 42D/4	DRAWN BY SAD
DRAWING No 70120 30423	DATE 89 - 10 REV:
SCALE 1:500	0 10 20 m

570086E

570436E

5330810N

5330555N

102+50N

101+00E

100+00E

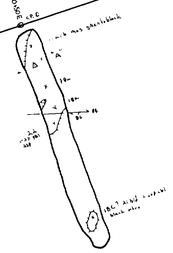
BASELINE 100+00N

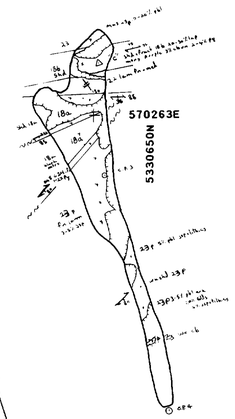
99+00N

98+00N

570263E

5330650N





290

42A01NE0128 2.13325 TECK

LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz < 10%)
- 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- 42 - Gabbro (An > 50)
- 43 - Diorite (An < 50)
  - 431 - Olivine Diorite
- 44 - Monzogabbro

40 - Intrusives (Qz < 10%) cont.
- 441 - Monzodiorite
- 45 - Monzonite
- 46 - Syenite
  - 461 - Augite Syenite
  - 462 - Mela Syenite (> 60% Mfc)
  - 463 - Meso Syenite (30 - 60% Mfc)
  - 464 - Leuco Syenite (0 - 30% Mfc)
- 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Fold Rocks

20 - Sediments
- 21 - Conglomerate
- 22 - Greywacke (> 15% Matrix)
- 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- 25 - Siltstone
- 26 - Mudstone
- 27 - Ironstone

10 - Volcanics
- 11 - Ultramafic
- 13 - Basalt
- 15 - Andesite
- 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
- Pillow facing direction, dipping, vertical, overturned
- Foliation (S_{1a}), dipping, vertical, dip unknown
- Foliation (S_2 or S_{1b}), dipping, vertical, dip unknown
- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72586 Sample #
- 2360/2.36 ppb Au, g/t Au
- Channel sample
- Chip sample

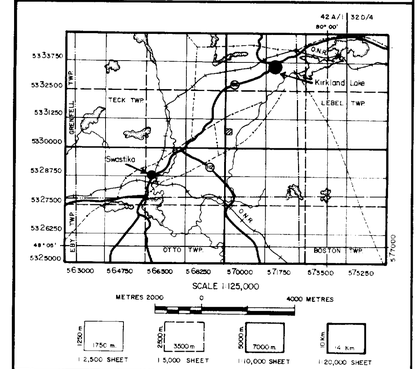
GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pebble
- d - cobble
- e - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatitic

- Date point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



BATTLE MOUNTAIN (CANADA) INC.

2.13325

KIRKLAND LAKE PROJECT
HSK Minerals Limited
ONTARIO

Received June 23/90

AMALGAMATED KIRKLAND PROPERTY
TRENCH 8050E
GEOLOGY

PROJECT No.: 75 - JV - 28	DATA BY: SAD
N.T.S.: 42A/I & 32D/4	DRAWN BY: SAD
DRAWING No.: 70086 30555	DATE: 89 - 10 REV:
SCALE: 1:500	0 10 20 m

N/2

569714E

5330979N

L 81+00 E

L 82+00 E

L 83+00 E

L 84+00 E

101+00 N 570064E

5330979N

101+00 N

101+00 N

100+75N

100+50N

100+25N

BASELINE 100 N

99+00 N

99+00 N

570000E

5330850N

5330725N

569714E

570064E

5330725N

LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz<10%)
- 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- 42 - Gabbro (An>50)
- 43 - Diorite (An<50)
  - 431 - Olivine Diorite
- 44 - Monzogabbro

40 - Intrusives (Qz<10%) cont.
- 441 - Monzodiorite
- 45 - Monzonite
- 46 - Syenite
  - 461 - Augite Syenite
  - 462 - Mela Syenite (>60% Mfc)
  - 463 - Meso Syenite (30 - 60% Mfc)
  - 464 - Leuco Syenite (0 - 30% Mfc)
- 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Fold Rocks

20 - Sediments
- 21 - Conglomerate
- 22 - Greywacke (>15% Matrix)
- 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- 25 - Siltstone
- 26 - Mudstone
- 27 - Ironstone

10 - Volcanics
- 11 - Ultramafic
- 13 - Basalt
- 15 - Andesite
- 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
- Pillow facing direction, dipping, vertical, overturned
- Foliation (S_{1a}), dipping, vertical, dip unknown
- Foliation (S_2 or S_{1b}), dipping, vertical, dip unknown
- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 12586 Sample #
- 2360/2.36 ppb Au, g/t Au
- Channel sample
- Chip sample

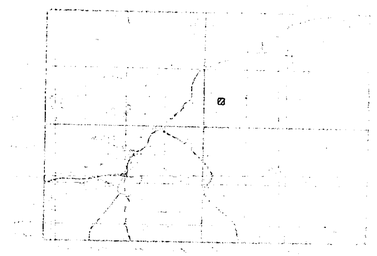
GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- d - pebble
- e - cobble
- e - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatitic

- Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



RECEIVED MAY 14 1990

2.13325

"ASSESSMENT FILE DATA"
MINISTRY NORTHERN DEVELOPMENT
AND MINES
RESIDENT GEOLOGIST OFFICE
K
RE...

Received June 22/90

AMALGAMATED KIRKLAND PROPERTY
TRENCH 8350E
GEOLOGY

H D-L
H D-L
69714 30725
89 - 12
1:500 0 10 20 m

REGISTERED PROFESSIONAL ENGINEER
T. J. BOTTRILL
PROVINCE OF ONTARIO

570189E

5331470N

5331450 N

570350E

106+00 N

105+75N

105+50N

105+25N

105+00N

105+00 N

104+75N

104+50N

104+25N

104+00N

104+00 N

5331250N

570350E

570450E

570539E

5331470N

N

LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz<10%)
- 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- 42 - Gabbro (An>50)
- 43 - Diorite (An<50)
  - 431 - Olivine Diorite
- 44 - Monzogabbro

40 - Intrusives (Qz<10%) cont.
- 441 - Monzodiorite
- 45 - Monzonite
- 46 - Syenite
  - 461 - Augite Syenite
  - 462 - Mela Syenite (>60% Mfc)
  - 463 - Meso Syenite (30 - 60% Mfc)
  - 464 - Leuco Syenite (0 - 30% Mfc)
- 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Fold Rocks

20 - Sediments
- 21 - Conglomerate
- 22 - Greywacke (>15% Matrix)
- 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- 25 - Siltstone
- 26 - Mudstone
- 27 - Ironstone

10 - Volcanics
- 11 - Ultramafic
- 13 - Basalt
- 15 - Andesite
- 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
- Pillow facing direction, dipping, vertical, overturned
- Foliation (S_{1+3}), dipping, vertical, dip unknown
- Foliation (S_2 or S_{1b}), dipping, vertical, dip unknown
- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72586 — Sample #
- 2360/2.36 — ppb Au, g/t Au
- Channel sample
- Chip sample

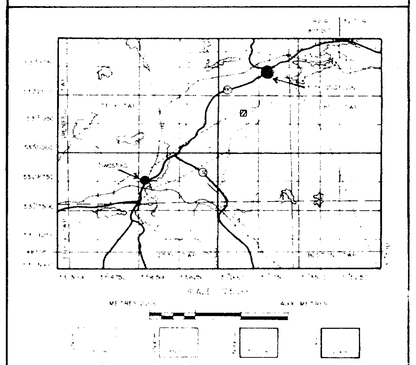
GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pebble
- d - cobble
- e - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatitic

- Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



BATTLE MOUNTAIN (CANADA) INC.

AMALGAMATED KIRKLAND PROPERTY
TRENCH 8350E
GEOLOGY

PROJECTION	DRAWN BY H D-L
DATA BASE	CHECKED BY H D-L
DRAWING NO. 70189 31215	DATE 89 - 12
SCALE 1:500	0 10 20 m

T. J. COTTRELL
PROVINCE OF ONTARIO

5331215N

570539E

310

5331215N

570189E

570436E

5331812N

L 89E

L 88E

ROAD

5331800N

108+00N

5331700N

TEST PIT

TEST PIT

BY-LEVEL

RAISE

105' LEVEL

107+00N

HUNTON SHAFT

107+00N

ROAD

5331600N

570700E

ROAD

106+00N

L 87E

L 88E

5331563N

570436E

570896E

5331812N

N

LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz<10%)
- 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- 42 - Gabbro (An>50)
- 43 - Diorite (An<50)
  - 431 - Olivine Diorite
- 44 - Monzogabbro

40 - Intrusives (Qz<10%) cont.
- 441 - Monzodiorite
- 45 - Monzonite
- 46 - Syenite
  - 461 - Augite Syenite
  - 462 - Mela Syenite (>60% Mfc)
  - 463 - Meso Syenite (30 - 60% Mfc)
  - 464 - Leuco Syenite (0 - 30% Mfc)
- 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Fold Rocks

20 - Sediments
- 21 - Conglomerate
- 22 - Greywacke (>15% Matrix)
- 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- 25 - Siltstone
- 26 - Mudstone
- 27 - Ironstone

10 - Volcanics
- 11 - Ultramafic
- 13 - Basalt
- 15 - Andesite
- 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
- Pillow facing direction, dipping, vertical, overturned
- Foliation (S_{1+n}), dipping, vertical, dip unknown
- Foliation (S_2 or S_{1+n}), dipping, vertical, dip unknown
- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72586 — Sample #
- 2360/2.36 — ppb Au, g/t Au
- Channel sample
- Chip sample

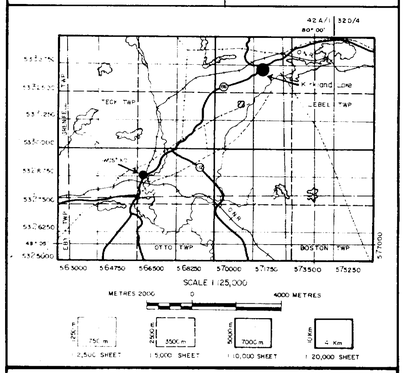
GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pebble
- d - cobble
- e - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatitic

- Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



BATTLE MOUNTAIN (CANADA) INC.

"ASSESSMENT" FILE DATA
MINISTRY NORTHERN DEVELOPMENT AND MINES
RESIDENT GEOLOGIST OFFICE
KIRKLAND LAKE
REC'D

2.13325

Received June 24 1985

KIRKLAND LAKE PROJECT
HSK Minerals Limited
ONTARIO

AMALGAMATED KIRKLAND PROPERTY
TRENCH 8850E
GEOLOGY

PROJECT No. 75 - JV - 28	DATA BY VMS
N.T.S. 42A/1 & 32D/4	DRAWN BY VMS
DRAWING No. 570436 31563	DATE 89 - 10
SCALE 1:500	0 10 20 m

REGISTERED PLOT
T. J. COTE
PROVINCE OF ONTARIO

5331563N

570896E

42A01NE0128 2.13325 TECK

320

570636E

570986E

5331573N

5331500N

570700E

L88+00E

L89+00E

105+00N

104+00N

ROAD

5331400N

570700E

5331319N

570636E

570986E

LEGEND

80 - Miscellaneous rocks
- ☐ 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- ☐ 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- ☐ 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- ☐ 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- ☐ 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- ☐ 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz < 10%)
- ☐ 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- ☐ 42 - Gabbro (An > 50)
- ☐ 43 - Diorite (An < 50)
  - 431 - Olivine Diorite
- ☐ 44 - Monzogabbro

40 - Intrusives (Qz < 10%) cont.
- ☐ 441 - Monzodiorite
- ☐ 45 - Monzonite

46 - Syenite
- ☐ 461 - Augite Syenite
- ☐ 462 - Mela Syenite (> 60% Mfc)
- ☐ 463 - Meso Syenite (30 - 60% Mfc)
- ☐ 464 - Leuco Syenite (0 - 30% Mfc)
- ☐ 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Fold Rocks

20 - Sediments
- ☐ 21 - Conglomerate
- ☐ 22 - Greywacke (> 15% Matrix)
- ☐ 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- ☐ 25 - Siltstone
- ☐ 26 - Mudstone
- ☐ 27 - Ironstone

10 - Volcanics
- ☐ 11 - Ultramafic
- ☐ 13 - Basalt
- ☐ 15 - Andesite
- ☐ 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
- Pillow facing direction, dipping, vertical, overturned
- Foliation (S_{1a}), dipping, vertical, dip unknown
- Foliation (S_2 or S_{1b}), dipping, vertical, dip unknown
- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72586 Sample #
- 2360/2.36 ppb Au, g/t Au
- Channel sample
- Chip sample

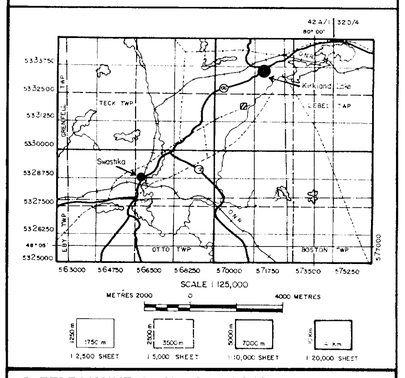
GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pebble
- d - cobble
- e - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatitic

- × Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



BATTLE MOUNTAIN (CANADA) INC.

"ASSESSMENT FILE DATA"
MINISTRY OF NORTHERN DEVELOPMENT
AND MINES
RESIDENT GEOLOGIST OFFICE
KIRKLAND LAKE
REC'D

2.13325

KIRKLAND LAKE PROJECT
HSK Minerals Limited
ONTARIO

Revised June 22/90

AMALGAMATED KIRKLAND PROPERTY
TRENCH 8850E
GEOLOGY

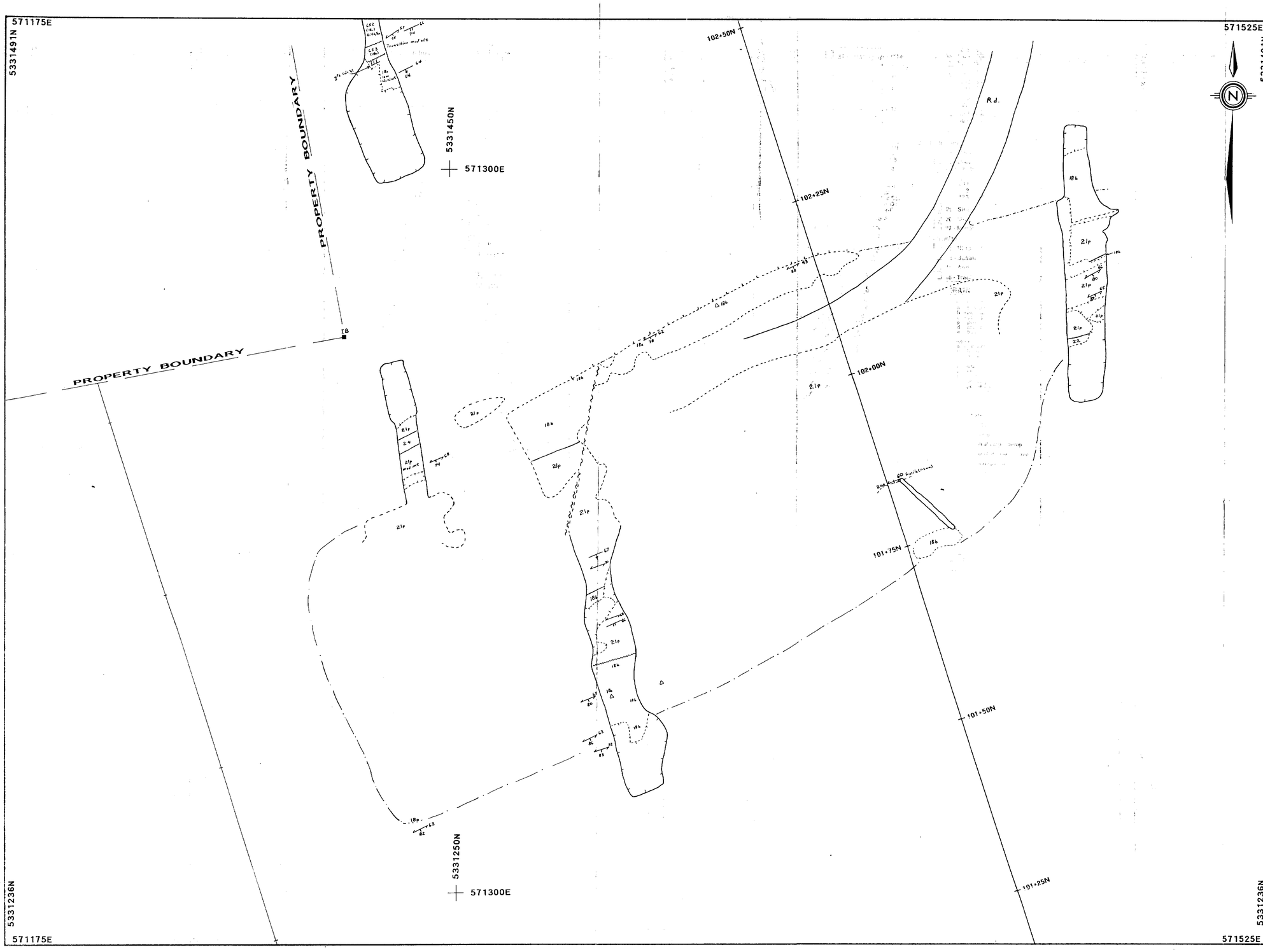
PROJECT No. 75 - JV - 28	DATA BY VMS
NTS 42A/1 & 32D/4	DRAWN BY VMS
DRAWING No. 70636 31319	DATE 89 - 11
SCALE 1:500	

0 10 20 m

T. L. BOTTRILL
PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

42A01NE0128 2.13325 TECK

330



LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz < 10%)
- 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- 42 - Gabbro (An > 50)
- 43 - Diorite (An < 50)
  - 431 - Olivine Diorite
- 44 - Monzogabbro

40 - Intrusives (Qz < 10%) cont.
- 441 - Monzodiorite
- 45 - Monzonite
- 46 - Syenite
- 461 - Augite Syenite
- 462 - Mela Syenite (>60% Mfc)
- 463 - Meso Syenite (30 - 60% Mfc)
- 464 - Leuco Syenite (0 - 30% Mfc)
- 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Foid Rocks

20 - Sediments
- 21 - Conglomerate
- 22 - Greywacke (>15% Matrix)
- 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- 25 - Siltstone
- 26 - Mudstone
- 27 - Ironstone

10 - Volcanics
- 11 - Ultramafic
- 13 - Basalt
- 15 - Andesite
- 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
- Pillow facing direction, dipping, vertical, overturned
- Foliation (S_{1a}), dipping, vertical, dip unknown
- Foliation (S_2 or S_{1b}), dipping, vertical, dip unknown
- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72586 — Sample #
- 2360/2.36 — ppb Au, g/t Au
- Channel sample
- Chip sample

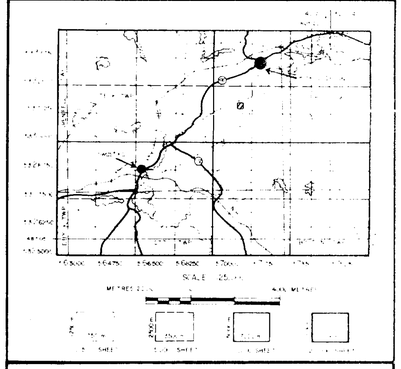
GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- d - pebble
- e - cobble
- f - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatitic

- Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



BATTLE MOUNTAIN (CANADA) INC.

2.13325

KIRKLAND LAKE PROJECT
HSK Mineral Property
ONTARIO

"ASSESSMENT FILE DATA"
MINISTRY NORTHERN DEVELOPMENT AND MINES
RECEIVED
GEOLOGIST OFFICE

AMALGAMATED KIRKLAND PROPERTY
TRENCH 9300E
GEOLOGY

PROJECT No. 75 [illegible] 28	DRAWN BY: DRB
N.T.S. 42A 8 SE1/4	CHECKED BY: DRB
DRAWING No. 71175 31236	DATE: 90 - 01
SCALE 1:250	0 5 10 m

569327E

5330900N

PROPERTY BOUNDARY

CLAIM 6687

CLAIM 491183

L7280E

L7300E

L7320E

L7340E

L7360E

L7380E

L7400E

TL.10300N

10200N

TL.10150N

10100 N

STATION 1
TRENCH 7290E

STATION 2

STATION 1
TRENCH 7400E

SCALE 1:50

8298 2+ppb/0.55m
8299 1+ppb/0.55m
0.96g/t 0.75
8300 130ppb/0.95m
72725 54ppb/1.0m
72726 2.41g/t/1.0m
480ppb/0.25m 72742
72727 3.12g/t/1.0m 1920 ppb/0.25m 72743 (2.56g/t)
85 00ppb, 102 00ppb/0.25m 72744 (9.96g/t, 9.96g/t)
5280ppb/0.25m 72745 (5.69g/t)
960 ppb/0.25m 72746
210ppb/0.25m 72747
72728 3.26g/t/1.0m 6130ppb/0.25m 72748(6.43g/t)
5160 ppb/0.25m 72749 (6.29g/t)
72729 1.58g/t/1.0m
7230 1.47g/t/1.0m
7231 1.34g/t/1.0m
72732 20 ppb/1.0m
72733 2ppb/1.0m

5330645 N

42A81NE0128 2.13325 TECK

350

569327 E

569778E

5330900N

N

LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz <10%)
- 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- 42 - Gabbro (An >50)
- 43 - Diorite (An <50)
  - 431 - Olivine Diorite
- 44 - Monzogabbro

40 - Intrusives (Qz <10%) cont.
- 441 - Monzodiorite
- 45 - Monzonite
- 46 - Syenite
  - 461 - Augite Syenite
  - 462 - Mela Syenite (>60% Mfc)
  - 463 - Meso Syenite (30 - 60% Mfc)
  - 464 - Leuco Syenite (0 - 30% Mfc)
- 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Fold Rocks

20 - Sediments
- 21 - Conglomerate
- 22 - Greywacke (>15% Matrix)
- 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- 25 - Siltstone
- 26 - Mudstone
- 27 - Ironstone

10 - Volcanics
- 11 - Ultramafic
- 13 - Basalt
- 15 - Andesite
- 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
- Pillow facing direction, dipping, vertical, overturned
- Foliation (S_{1+2}), dipping, vertical, dip unknown
- Foliation (S_2 or S_{1b}), dipping, vertical, dip unknown
- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72586 Sample #
- 2380/2.36 ppb Au, g/t Au
- Channel sample
- Chip sample

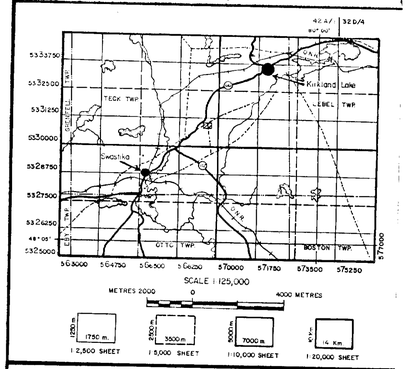
GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pebble
- d - cobble
- e - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatitic

- Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



BATTLE MOUNTAIN (CANADA) INC.

2.13325

Received June 24/89 VMS

KIRKLAND LAKE PROJECT
HSK Minerals Limited
ONTARIO

AMALGAMATED KIRKLAND PROPERTY
TRENCH 7290E
TRENCH 7400E
ASSAY

PROJECT No.: 75-JV-28	DATA BY: VMS
N.T.S.: 42A/1 & 32D/4	DRAWN BY: VMS
DRAWING No.: 69327 30645	DATE: 89-10 REV: 90-06
SCALE: 1:500	

0 10 20 m

5330645N

569778E

569500E

5330641N

569850E

5330641N

BASELINE 100+00N

L 73+00 E

L 76+00 E

74+00E

74+25E

74+50E

74+75E

75+00E

99+00 N

98+00 N

STA 1

STA 2

STA 3

STA 4

5330525N

569675E

ROAD

ROAD

Sample #'s 72741 - 72820 incl.

N

LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz<10%)
- 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- 42 - Gabbro (An>50)
- 43 - Diorite (An<50)
  - 431 - Olivine Diorite
- 44 - Monzogabbro

40 - Intrusives (Qz<10%) cont.
- 441 - Monzodiorite
- 45 - Monzonite
- 46 - Syenite
  - 461 - Augite Syenite
  - 462 - Mela Syenite (>60% Mfc)
  - 463 - Meso Syenite (30 - 60% Mfc)
  - 464 - Leuco Syenite (0 - 30% Mfc)
- 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Fold Rocks

20 - Sediments
- 21 - Conglomerate
- 22 - Greywacke (>15% Matrix)
- 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- 25 - Siltstone
- 26 - Mudstone
- 27 - Ironstone

10 - Volcanics
- 11 - Ultramafic
- 13 - Basalt
- 15 - Andesite
- 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
- Pillow facing direction, dipping, vertical, overturned
- Foliation (S_{1a}), dipping, vertical, dip unknown
- Foliation (S_2 or S_{1b}), dipping, vertical, dip unknown
- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72586 — Sample #
- 2360/2.36 — ppb Au, g/t Au
- Channel sample
- Chip sample

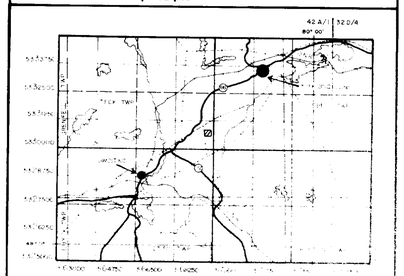
GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pebble
- d - cobble
- e - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatitic

- Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



BATTLE MOUNTAIN (CANADA) INC.

2.13325

KIRKLAND LAKE PROJECT
HSK Minerals Limited
ONTARIO

AMALGAMATED KIRKLAND PROPERTY
TRENCH 7435E
ASSAY

Received June 22/90 DNF

PROJECT No 75-04-28	DATA BY VMS
N.T.S. 42 A/1 & 32 D/4	DRAWN BY VMS
DRAWING No 69500 30387	DATE 89 - 10
SCALE 1:500	0 10 20 m

5330387N

569500E

360

569850E

42A01NE0128 2.13325 TECK

569693E

5330530N

L75+00E

L76+00E

L77+00E

570043E

99+00N

98+50N

98+00N

97+50N

97+00N

MUCK

ROAD

STA 3

STA 7

STA 6

STA 5

STA 4

STA 2

STA 1

STA 8

569825E

5330400N

5330275N

570043E

370

LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz < 10%)
- 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- 42 - Gabbro (An > 50)
- 43 - Diorite (An < 50)
  - 431 - Olivine Diorite
- 44 - Monzogabbro

40 - Intrusives (Qz < 10%) cont.
- 441 - Monzodiorite
- 45 - Monzonite

46 - Syenite
- 461 - Augite Syenite
- 462 - Mela Syenite (> 60% Mfc)
- 463 - Meso Syenite (30 - 60% Mfc)
- 464 - Leuco Syenite (0 - 30% Mfc)

48 - Alkali-Feldspar Syenite
49 - Feldspar - Foid Rocks

20 - Sediments
- 21 - Conglomerate
- 22 - Greywacke (> 15% Matrix)
- 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- 25 - Siltstone
- 26 - Mudstone
- 27 - Ironstone

10 - Volcanics
- 11 - Ultramafic
- 13 - Basalt
- 15 - Andesite
- 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
- Pillow facing direction, dipping, vertical, overturned
- Foliation (S_{1a}), dipping, vertical, dip unknown
- Foliation (S_2 or S_{1b}), dipping, vertical, dip unknown
- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72586 — Sample #
- 2360/2.36 — ppb Au, g/t Au
- Channel sample
- Chip - sample

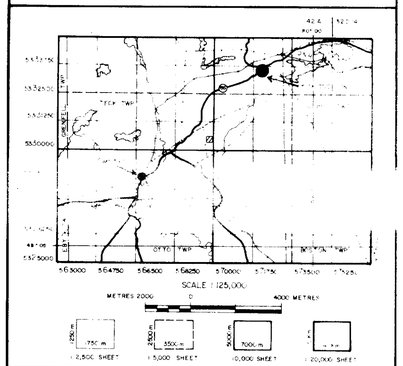
GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pebble
- d - cobble
- e - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatitic

- Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



BATTLE MOUNTAIN (CANADA) INC.

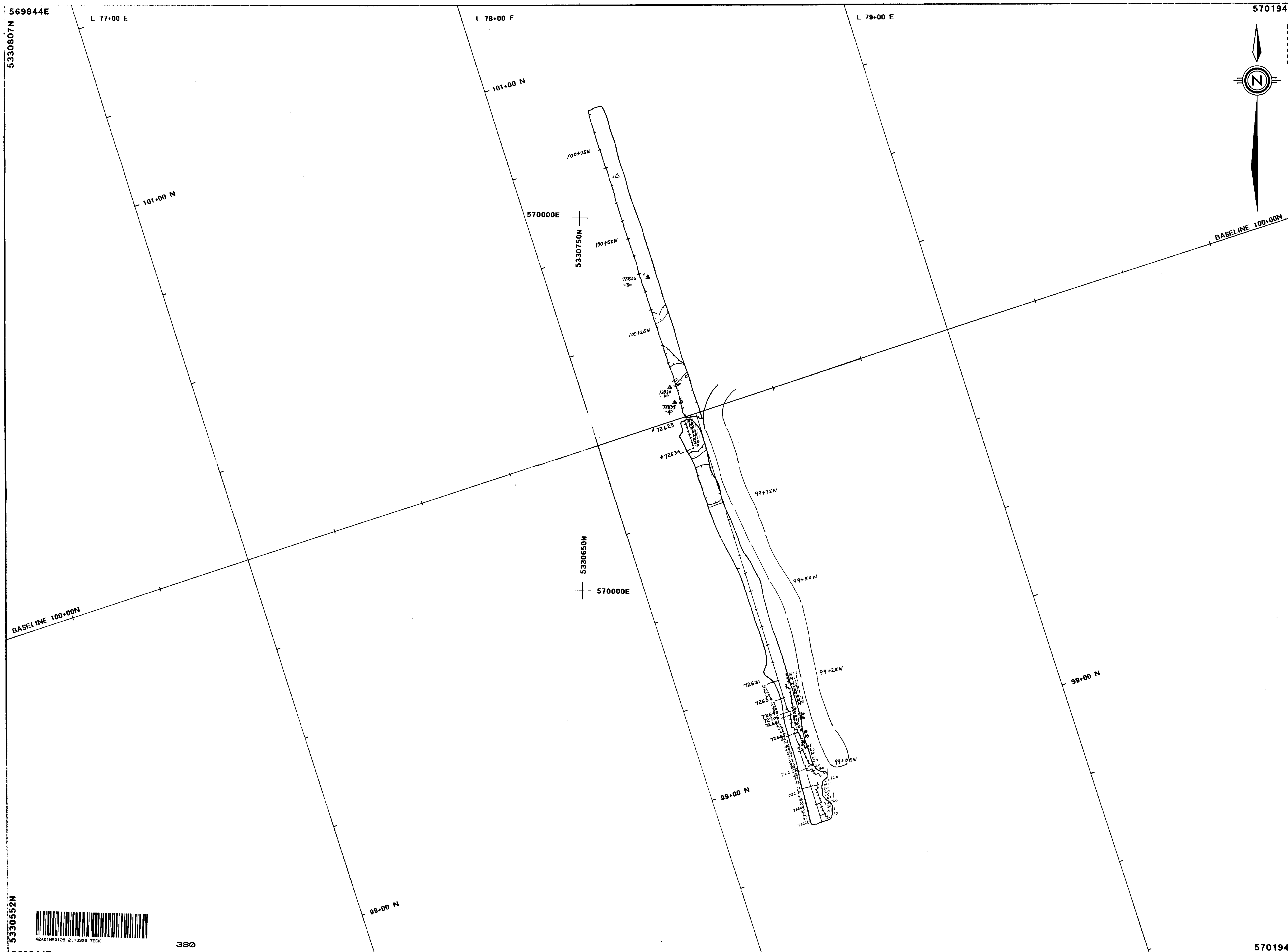
2.13325

KIRKLAND LAKE AREA
HSR Minerals (1987) Ltd.
ONTARIO

AMALGAMATED KIRKLAND PROPERTY
TRENCH 7545E
ASSAY

Revised June 22/90

PROJECT No. 75 JV 28	DATA BY VMS
N.T.S. 42A/8 & 12D/4	DRAWN BY VMS
DRAWING No. 69693 30275	DATE 89 - 10 REV:
SCALE 1:500	0 10 20 m



LEGEND

80 - Miscellaneous rocks
- ☐ 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- ☐ 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- ☐ 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- ☐ 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- ☐ 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- ☐ 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz < 10%)
- ☐ 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- ☐ 42 - Gabbro (An > 50)
- ☐ 43 - Diorite (An < 50)
  - 431 - Olivine Diorite
- ☐ 44 - Monzogabbro

40 - Intrusives (Qz < 10%) cont.
  - 441 - Monzodiorite
- ☐ 45 - Monzonite
- 46 - Syenite
  - ☐ 461 - Augite Syenite
  - ☐ 462 - Mela Syenite (>60% Mfc)
  - ☐ 463 - Meso Syenite (30 - 60% Mfc)
  - ☐ 464 - Leuco Syenite (0 - 30% Mfc)
- ☐ 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Foid Rocks

20 - Sediments
- ☐ 21 - Conglomerate
- ☐ 22 - Greywacke (>15% Matrix)
- ☐ 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- ☐ 25 - Siltstone
- ☐ 26 - Mudstone
- ☐ 27 - Ironstone

10 - Volcanics
- ☐ 11 - Ultramafic
- ☐ 13 - Basalt
- ☐ 15 - Andesite
- ☐ 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
- Pillow facing direction, dipping, vertical, overturned
- Foliation (S_{1a}), dipping, vertical, dip unknown
- Foliation (S_2 or S_{1b}), dipping, vertical, dip unknown
- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- △ ▲ ▲ Sample point, character, character + assay, assay
- ■ □ Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72586 Sample #
- 2360/2.36 ppb Au, g/t Au
- Channel sample
- Chip sample

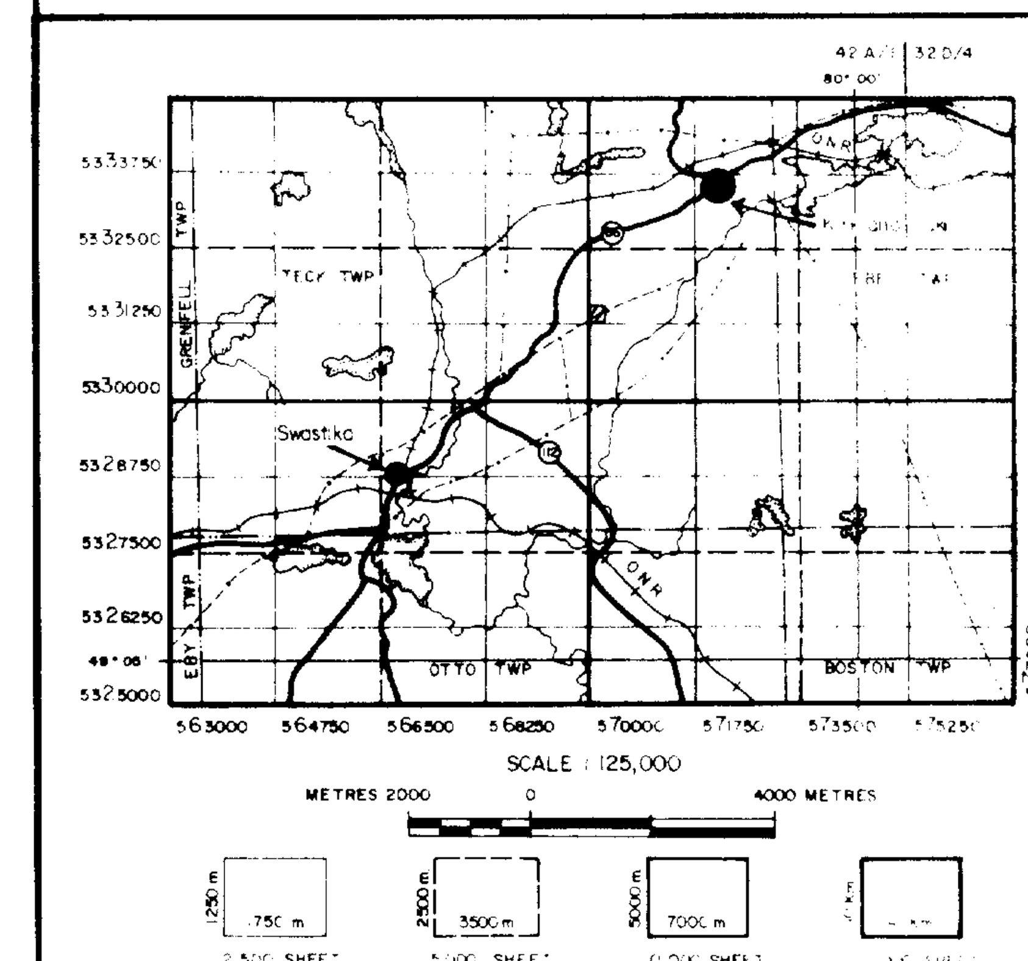
GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pebble
- d - cobble
- e - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatitic

- × Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



SCALE 1:125,000

METRES 2000 0 4000 METRES

BATTLE MOUNTAIN (CANADA) INC

Received June 22/90

KIRKLAND LAKE PROJECT
HSK Minerals Limited
ONTARIO

2.13325

AMALGAMATED KIRKLAND PROPERTY
TRENCH 7825E
ASSAY

PROJECT No 75 JV 28	DATA BY H D-L
NTS 42 A/1 & 32 D/4	DRAWN BY H D-L
DRAWING No 69844 30552	DATE 89 - 10
SCALE 1:500	0 10 20 m

569904E

5331694N

L79+00E

L80+00E

79-75-E'

104+25N

104+00N

103+75N

103+50N

103+25N

103+00N

102+75N

102+50N

102+25N

102+00N

5331100N

5331000N

570100E

72586 - 2+25m

72841 - 2+00m

72883 - 2+00m

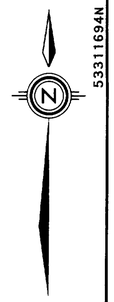
72846 - 2+00m

72865 - 3+00m

72844 - 2+00m

570255E

5330914N



LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz < 10%)
- 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- 42 - Gabbro (An > 50)
- 43 - Diorite (An < 50)
  - 431 - Olivine Diorite
- 44 - Monzogabbro

40 - Intrusives (Qz < 10%) cont.
- 441 - Monzodiorite
- 45 - Monzonite

46 - Syenite
- 461 - Augite Syenite
- 462 - Mela Syenite (> 60% Mfc)
- 463 - Meso Syenite (30 - 60% Mfc)
- 464 - Leuco Syenite (0 - 30% Mfc)
- 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Foid Rocks

20 - Sediments
- 21 - Conglomerate
- 22 - Greywacke (> 15% Matrix)
- 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- 25 - Siltstone
- 26 - Mudstone
- 27 - Ironstone

10 - Volcanics
- 11 - Ultramafic
- 13 - Basalt
- 15 - Andesite
- 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
- Pillow facing direction, dipping, vertical, overturned
- Foliation (S_{T+B}), dipping, vertical, dip unknown
- Foliation (S_2 or S_{T+B}), dipping, vertical, dip unknown
- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72586 Sample #
- 2360/2.36 ppb Au, g/t Au
- Channel sample
- Chip sample

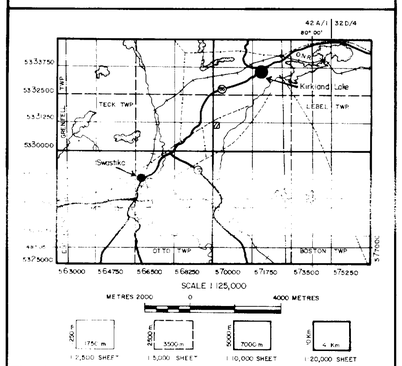
GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pebble
- d - cobble
- e - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatitic

- Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



BATTLE MOUNTAIN (CANADA) INC.

2.13325

Received
Jan 27/90

AMALGAMATED KIRKLAND PROPERTY
TRENCH 7950E
ASSAY

H D-L
H D-L
69904 30914 89 - 12

1:500 0 10 20 m

42A01NE0129 2.13325 TECK

390

N/2

569904E

570255E

5330914N

42A01NE0128 2.13325 TECK

LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz < 10%)
- 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- 42 - Gabbro (An > 50)
- 43 - Diorite (An < 50)
  - 431 - Olivine Diorite
- 44 - Monzogabbro

40 - Intrusives (Qz < 10%) cont.
- 441 - Monzodiorite
- 45 - Monzonite
- 46 - Syenite
  - 461 - Augite Syenite
  - 462 - Mela Syenite (> 60% Mfc)
  - 463 - Meso Syenite (30 - 60% Mfc)
  - 464 - Leuco Syenite (0 - 30% Mfc)
- 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Foid Rocks

20 - Sediments
- 21 - Conglomerate
- 22 - Greywacke (> 15% Matrix)
- 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- 25 - Siltstone
- 26 - Mudstone
- 27 - Ironstone

10 - Volcanics
- 11 - Ultramafic
- 13 - Basalt
- 15 - Andesite
- 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
- Pillow facing direction, dipping, vertical, overturned
- Foliation (S_{1a}), dipping, vertical, dip unknown
- Foliation (S_2 or S_{1b}), dipping, vertical, dip unknown
- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72586 — Sample #
- 2360/2.36 — ppb Au, g/t Au
- Channel sample
- Chip sample

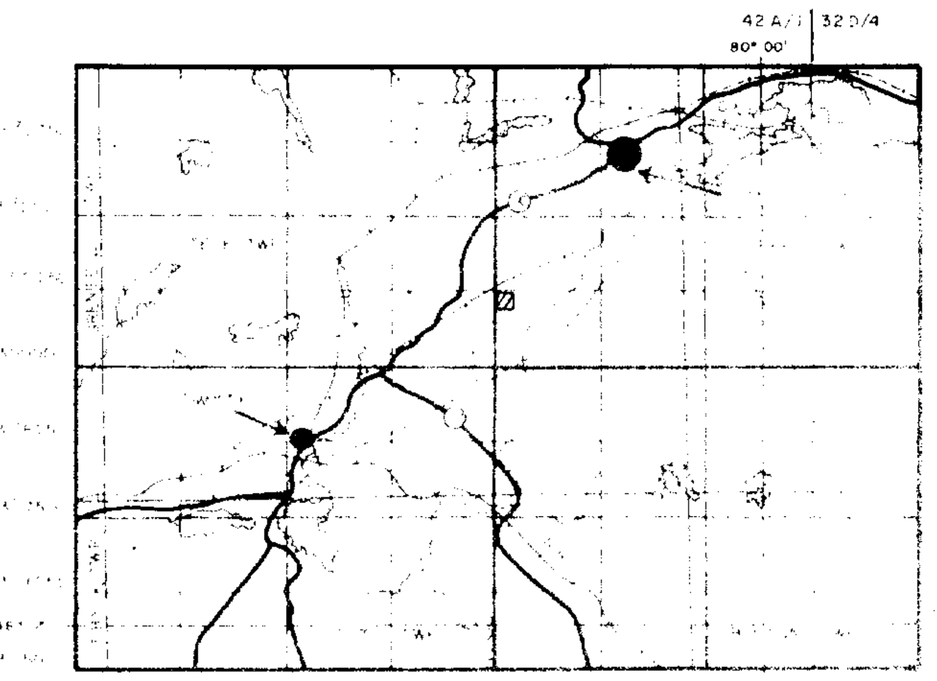
GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pebble
- d - cobble
- e - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatitic

- Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



2.13325

Received June 27/90

AMALGAMATED KIRKLAND PROPERTY
TRENCH 7950E
ASSAY

	H D-L
	H D-L
69904 30670	89 - 12
1:500	0 10 20 m

S/2

570086E

5330810N

570436E

5330555N

BASELINE 100+00N

L19+00E

L18+00E

L00+00E

99+00N

98+00N

5330650N

570263E

410

42A01NE0128 2.13325 TECK

LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz <10%)
- 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- 42 - Gabbro (An > 50)
- 43 - Diorite (An <50)
  - 431 - Olivine Diorite
- 44 - Monzogabbro

40 - Intrusives (Qz <10%) cont.
- 441 - Monzodiorite
- 45 - Monzonite
- 46 - Syenite
  - 461 - Augite Syenite
  - 462 - Mela Syenite (>60% Mfc)
  - 463 - Meso Syenite (30 - 60% Mfc)
  - 464 - Leuco Syenite (0 - 30% Mfc)
- 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Foid Rocks

20 - Sediments
- 21 - Conglomerate
- 22 - Greywacke (>15% Matrix)
- 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- 25 - Siltstone
- 26 - Mudstone
- 27 - Ironstone

10 - Volcanics
- 11 - Ultramafic
- 13 - Basalt
- 15 - Andesite
- 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
- Pillow facing direction, dipping, vertical, overturned
- Foliation (S_{1a}), dipping, vertical, dip unknown
- Foliation (S_2 or S_{1b}), dipping, vertical, dip unknown
- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72586 Sample #
- 2360/2.36 ppb Au, g/t Au
- Channel sample
- Chip sample

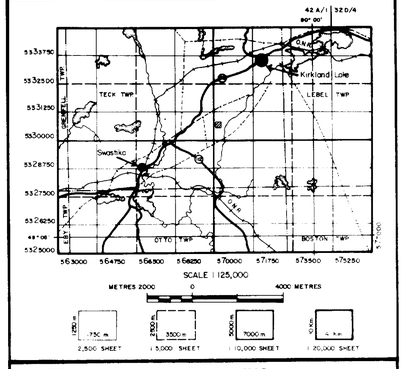
GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pebble
- d - cobble
- e - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatitic

- Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



BATTLE MOUNTAIN (CANADA) INC.

2.13325

KIRKLAND LAKE PROJECT
HSK Minerals Limited
ONTARIO

AMALGAMATED KIRKLAND PROPERTY
TRENCH 8050E
ASSAY

PROJECT No 75 JV 28	DATA BY SAD
N.T.S. 42A/1 B 32 D/4	DRAWN BY SAD
DRAWING No 70086 30555	DATE 89 - 11 REV:
SCALE 1:500	0 10 20 m

N/2

570120E

5330672N

L 80+00 E

L 81+00 E

570470E

5330672N

99+00 N

98+00 N

97+00 N

5330550N

570300E

N

LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz < 10%)
- 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- 42 - Gabbro (An > 50)
- 43 - Diorite (An < 50)
  - 431 - Olivine Diorite
- 44 - Monzogabbro

40 - Intrusives (Qz < 10%) cont.
- 441 - Monzodiorite
- 45 - Monzonite
- 46 - Syenite
  - 461 - Augite Syenite
  - 462 - Mela Syenite (>60% Mfc)
  - 463 - Meso Syenite (30 - 60% Mfc)
  - 464 - Leuco Syenite (0 - 30% Mfc)
- 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Fold Rocks

20 - Sediments
- 21 - Conglomerate
- 22 - Greywacke (>15% Matrix)
- 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- 25 - Siltstone
- 26 - Mudstone
- 27 - Ironstone

10 - Volcanics
- 11 - Ultramafic
- 13 - Basalt
- 15 - Andesite
- 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
- Pillow facing direction, dipping, vertical, overturned
- Foliation (S_{1a}), dipping, vertical, dip unknown
- Foliation (S_2 or S_{1b}), dipping, vertical, dip unknown
- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 73088 Sample #
- 2360/2.36 ppb Au, g/t Au
- Chip sample

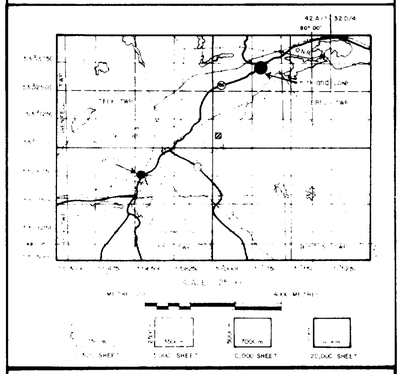
GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pebble
- d - cobble
- e - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatite

- Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



BATTLE MOUNTAIN (CANADA) INC

2.13325

KIRKLAND LAKE PROJECT
HSK Minerals Limited
ONTARIO

Received June 27/90

AMALGAMATED KIRKLAND PROPERTY
TRENCH 8050E
ASSAY

SAD
SAD

70120 30423 89 - 11 REV:

1:500 0 10 20 m

5330423N

570470E

5330423N

42A8NE0120 2.13325 TECK

420

570120E

S/2

570213E

5331223N

570563E

5331223N

103+50N

103+25N

103+00N

103+00N

5331150N

570500 E

102+75N

102+50N

102+25N

102+00N

102+00N

5331050N

570500 E

102+00N

101+75N

101+50N

101+25N

L83+00E

L84+00E

101+00N

5330968N

570213E

42A01NE0126 2.13325 TECK

430

570563E

5330968N

LEGEND

80 - Miscellaneous rocks
- ☐ 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- ☐ 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- ☐ 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- ☐ 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- ☐ 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- ☐ 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz<10%)
- ☐ 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- ☐ 42 - Gabbro (An>50)
- ☐ 43 - Diorite (An<50)
  - 431 - Olivine Diorite
- ☐ 44 - Monzogabbro

40 - Intrusives (Qz<10%) cont.
- 441 - Monzodiorite
- ☐ 45 - Monzonite

46 - Syenite
- ☐ 461 - Augite Syenite
- ☐ 462 - Mela Syenite (>60% Mfc)
- ☐ 463 - Meso Syenite (30 - 60% Mfc)
- ☐ 464 - Leuco Syenite (0 - 30% Mfc)

☐ 48 - Alkali-Feldspar Syenite

49 - Feldspar - Fold Rocks

20 - Sediments
- ☐ 21 - Conglomerate
- ☐ 22 - Greywacke (>15% Matrix)
- ☐ 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- ☐ 25 - Siltstone
- ☐ 26 - Mudstone
- ☐ 27 - Ironstone

10 - Volcanics
- ☐ 11 - Ultramafic
- ☐ 13 - Basalt
- ☐ 15 - Andesite
- ☐ 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
- Pillow facing direction, dipping, vertical, overturned
- Foliation (S_{1a}), dipping, vertical, dip unknown
- Foliation (S_2 or S_{1b}), dipping, vertical, dip unknown
- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72586 Sample #
- 2360/2.36 ppb Au, g/t Au
- Channel sample
- Chip sample

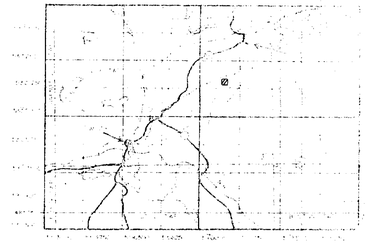
GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pebble
- d - cobble
- e - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatitic

- × Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



BALLET MOUNTAIN CANADA LTD

ASSESSMENT FILE 2.13325

MINISTRY OF NORTHERN DEVELOPMENT AND MINES
RESIDENT GEOLOGIST'S OFFICE
KIRKLAND LAKE
REC'D

KIRKLAND LAKE PROJECT
NOR Metals Limited
AGM

Received Jun 2-89

AMALGAMATED KIRKLAND PROPERTY
TRENCH 8350E
ASSAY

DRAWN	H D-L
TRACED	H D-L
GRID NO.	70213 30968
DATE	89 - 12 REV: 90 - 03

SCALE 1:500 0 10 20 m

REGISTERED PROFESSIONAL ENGINEER T. J. E. [illegible]

570436E

L 87+00 E

L 88+00 E

L 89+00 E

570896E

5331812N

5331800N

5331700N

5331600N

5331563N

570700E

108+00 N

107+00 N

106+00 N

N

LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz < 10%)
- 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- 42 - Gabbro (An > 50)
- 43 - Diorite (An < 50)
  - 431 - Olivine Diorite
- 44 - Monzogabbro

40 - Intrusives (Qz < 10%) cont.
- 441 - Monzodiorite
- 45 - Monzonite
- 46 - Syenite
  - 461 - Augite Syenite
  - 462 - Mela Syenite (> 60% Mfc)
  - 463 - Meso Syenite (30 - 60% Mfc)
  - 464 - Leuco Syenite (0 - 30% Mfc)
- 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Fold Rocks

20 - Sediments
- 21 - Conglomerate
- 22 - Greywacke (> 15% Matrix)
- 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- 25 - Siltstone
- 26 - Mudstone
- 27 - Ironstone

10 - Volcanics
- 11 - Ultramafic
- 13 - Basalt
- 15 - Andesite
- 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
- Pillow facing direction, dipping, vertical, overturned
- Foliation (S_{1a}), dipping, vertical, dip unknown
- Foliation (S_2 or S_{1b}), dipping, vertical, dip unknown
- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72586 — Sample #
- 2360/2.36 — ppb Au, g/t Au
- Channel sample
- Chip sample

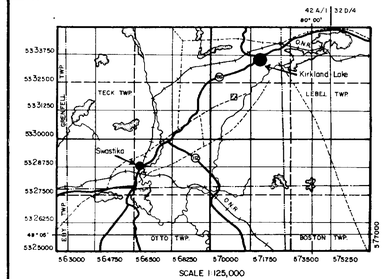
GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pebble
- d - cobble
- e - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatitic

- Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



"ASSESSMENT FILE COPY" MINISTRY NORTHERN DEVELOPMENT MINES GEOLOGIST OFFICE KIRKLAND LAKE

BATTLE MOUNTAIN (CANADA) INC.

2.13325 Dup.

KIRKLAND LAKE PROJECT
HSK Minerals Limited
ONTARIO

AMALGAMATED KIRKLAND PROPERTY
TRENCH 8850E
ASSAY

PROJECT No. 75 JV 28	DATA BY VMS
N.T.S. 42A/11 & 32D/4	DRAWN BY VMS
DRAWING No. 70436 31563	DATE 89 - 10
SCALE: 1:500	0 10 20 m

RECEIVED — T. J. CRUSHELL — PROVINCE OF ONTARIO

42A81NE0128 2.13325 TECK

440

570636E

5331573N

L 87+00 E

L 88+00 E

L 89+00 E

570986E

5331573N

106+00 N

105+00 N

104+00 N

103+00 N

5331500N

570700E

5331400N

570700E

ROAD

ROAD

ROAD

STA 0

STA 6

5331319N

570636E

570986E

5331319N

LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz < 10%)
- 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- 42 - Gabbro (An > 50)
- 43 - Diorite (An < 50)
  - 431 - Olivine Diorite
- 44 - Monzogabbro

40 - Intrusives (Qz < 10%) cont.
- 441 - Monzodiorite
- 45 - Monzonite

46 - Syenite
- 461 - Augite Syenite
- 462 - Mela Syenite (> 60% Mfc)
- 463 - Meso Syenite (30 - 60% Mfc)
- 464 - Leuco Syenite (0 - 30% Mfc)
- 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Fold Rocks

20 - Sediments
- 21 - Conglomerate
- 22 - Greywacke (> 15% Matrix)
- 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
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- 25 - Siltstone
- 26 - Mudstone
- 27 - Ironstone

10 - Volcanics
- 11 - Ultramafic
- 13 - Basalt
- 15 - Andesite
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SYMBOLS

- Bedding, dipping, vertical (facing unknown)
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- Fault, dipping, vertical
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- Minor fold showing plunge
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- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72586 — Sample #
- 2360/2.36 — ppb Au, g/t Au
- Channel sample
- Chip sample

GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
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- e - cobble
- f - boulder

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- a - ash tuff
- b - lapilli tuff
- c - block tuff

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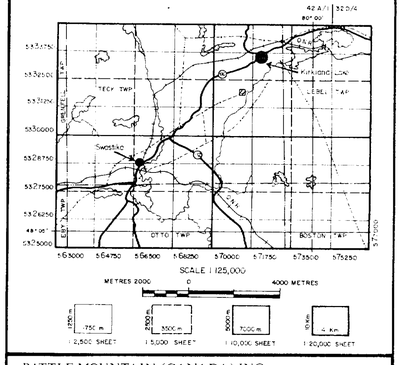
- c - coarse grained
- p - pegmatitic

- Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



BATTLE MOUNTAIN (CANADA) INC.

2.13325 Dup.

"ASSESSMENT FILE DATA"
MINISTRY NORTHERN DEVELOPMENT AND MINES
RESIDENT GEOLOGIST OFFICE
KIRKLAND LAKE
ONTARIO

KIRKLAND LAKE PROJECT
HSK Minerals Limited
ONTARIO

AMALGAMATED KIRKLAND PROPERTY
TRENCH 8850E
ASSAY

PROJECT No. 75-JV-28	DATA BY VMS
N.T.S. 42A/I & 32D/4	DRAWN BY VMS
DRAWING No 70636 31319	DATE 89 - 11
SCALE 1:500	0 10 20 m

RECEIVED
T. T. ...
PROVINCE OF ONTARIO

42A01NE0128 2.13325 TECK

450

571175E

5331491N

571525E

5331491N

5331450N

571300E

PROPERTY BOUNDARY

PROPERTY BOUNDARY

I8

102+50 N

102+25 N

102+00 N

101+75 N

101+50 N

101+25 N

L 92+00 E

R.d.

5331250N

571300E

5331236N

571175E

571525E

5331236N

LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
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  - 622 - Ser-Qz
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- 44 - Monzogabbro

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  - 461 - Augite Syenite
  - 462 - Mela Syenite (> 60% Mfc)
  - 463 - Meso Syenite (30 - 60% Mfc)
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- 49 - Feldspar - Foid Rocks

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  - 232 - Lithic
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- 26 - Mudstone
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- 11 - Ultramafic
- 13 - Basalt
- 15 - Andesite
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- Shear zone, defined, inferred
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- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72588 Sample #
- 2360/2.36 ppb Au, g/t Au
- Channel sample
- Chip sample

GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pebble
- d - cobble
- e - boulder

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- a - ash tuff
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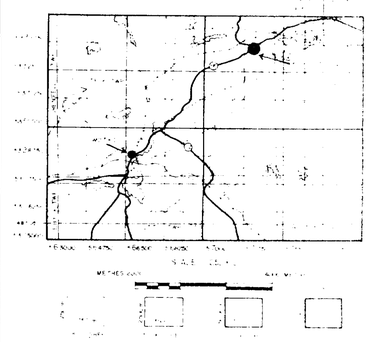
- c - coarse grained
- p - pegmatitic

- Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point



BATTLE MOUNTAIN (CANADA) INC.

ASSESSMENT FILE DATA"
RECEIVED
MINES
GEOLOGIST OFFICE
KIRKLAND LAKE
ONTARIO
Received June 22/90

~~AMALGAMATED~~ KIRKLAND PROPERTY
TRENCH 9300E
ASSAY

PROJECT No.	DRB
N.T.S. 42A/1NE/4	DRB
DRAWING No. 71175 31236	90 - 01
SCALE 1:250	0 5 10 m

REGISTERED PROFESSIONAL ENGINEER
T. J. POSTILL

42A01NE0128 2.13325 TECK

460

571180E

5331736N

571300E

5331700N

571530E

5331736N

103+25 N

103+00 N

102+75 N

102+50 N

L 93+00 E

PROPERTY BOUNDARY

5331550N

571300E

5331481N

571180E

571530E

5331481N

LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
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  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- 69 - Felsite (Cb Alt Syenite)

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  - 412 - Peridotite
  - 414 - Pyroxenite
- 42 - Gabbro (An > 50)
- 43 - Diorite (An < 50)
  - 431 - Olivine Diorite
- 44 - Monzogabbro

40 - Intrusives (Qz < 10%) cont.
- 441 - Monzodiorite
- 45 - Monzonite
- 46 - Syenite
  - 461 - Augite Syenite
  - 462 - Mela Syenite (> 60% Mfc)
  - 463 - Meso Syenite (30 - 60% Mfc)
  - 464 - Leuco Syenite (0 - 30% Mfc)
- 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Fold Rocks

20 - Sediments
- 21 - Conglomerate
- 22 - Greywacke (> 15% Matrix)
- 23 - Arenite
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  - 232 - Lithic
  - 233 - Quartzose
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SYMBOLS

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- Glacial striae, ice direction known, unknown
- 72586 — Sample #
- 2360/2.36 — ppb Au, g/t Au
- Channel sample
- Chip sample

GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
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- e - boulder

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- a - ash tuff
- b - lapilli tuff
- c - block tuff

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- Drill hole
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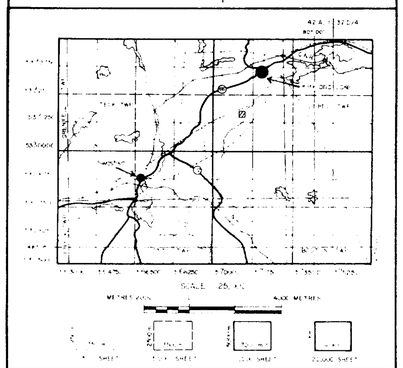
- Survey, station, point



BATTLE MOUNTAIN (CANADA) INC.

2.13325

"ASSESSMENT FILE DATA"
MINISTRY OF NORTHERN DEVELOPMENT AND MINES
RESIDENT GEOLOGIST OFFICE
KIRKLAND LAKE

KIRKLAND LAKE PROJECT
HSK Minerals Limited
ONTARIO

Received June 22/90

~~AMALGAMATED~~ KIRKLAND PROPERTY
TRENCH 9300E
ASSAY

PROJECT No. [illegible]	DATA BY DRB
DRAWING No. 71180 31481	DRAWN BY DRB
SCALE 1:250	DATE 90 - 01

0 5 10 m

REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO
D. J. ESTEP

570437E

5331120N

570507E

5331120N

5331069N

570437E

570500E

5331070N

570507E

5331069N

N

10250N

10245N

10240N

10235N

10230N

10225N

10220N

10215N

8350E

8375E

8400E

TIE LINE

STA-3

CP-1

CP-2

34°

480

72875-2610/2.85 (42)

72871-10 ppb (38)

72872-11180/10.90 -11070/12.00 (39)

72873-830 ppb (40)

72867-70 ppb (34)

72874-90 ppb (41)

700-130 ppb (33)

699-40 ppb (32)

72868-2270/2.09 (35)

72870-60 ppb (31)

697-410/440 ppb (30)

698-80 ppb (31)

72869-5760/5.97 (36)

696-210 ppb (29)

694-10 ppb (27)

695-4110/3.63 -3430/3.39 (28)

688-50 ppb (21)

687-620 ppb (20)

689-330 ppb (22)

684-870 ppb, (17)

691-590 ppb (24)

693-50 ppb (26)

683-2190/2.26 (16) (16)

686-200 ppb (19)

682-990 ppb (15b)

685-3980/4.15 (18)

692-10 ppb (25)

690-20 ppb (23)

681-1000/0.96 (15a)

679-1470/1.41 (13)

680-3090/3.33 (14)

678-30 ppb (12)

677-720 ppb (11)

676-40 ppb (10)

675-1280/1.23 (9)

674-20 ppb (8)

672-20 ppb (6)

671-1480/1.30 (5)

673-30 (7)

670-2722) ppb (4) -28.53/29.83 g/t

635-2400/2.4 (1)

636-9260/9.33 (2)

637-70/80 ppb (3)

72857-70 ppb

72858-3430/3.43 2650/2.88

72859 -340

72860 -3050/3.25 3170/3.01

72861 -6510/5.66 6030/5.33

72862 -7610/7.75 7410/7.82

72863 (2630/3.32)

669 240 ppb
40
50
20
665 40
80 ppb
2400/2.13
40 ppb
1120/1.03
660 1430/1.23
2190/1.89
1760/1.76
2730 2.64
1650/1.71
655 500 ppb
2060/2.06
290
3840/4.42/3.26
50
650 920 ppb
80
10
10
30
645 60
340 ppb
660
1410/1.44 g/t
60 ppb
640 10
nil
638 10 ppb

634 nil
nil
nil
10/nil
630 20 ppb
nil
30 ppb
30
nil
625 90 ppb
40
820
2400/2.88
1850/2.19
2060/(1.85)
3090/3.22
660
320 ppb
290
620/720 ppb
750
2740/2.61
3840/4.59
7610/7.75
7410/7.822
40
10
610 nil
nil
10 ppb
nil/nil
605 nil
nil
nil
602 10 ppb

2.71 g/t 1.5 m

2.22 g/t 6.0 m

1.59 g/t 6.0 m

5.00 g/t 1.5 m

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- GRAB SAMPLE
- (3) HAND SPECIMEN/ THIN SECTION
- Channel sample
- Chip sample

GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
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- Outcrop limit
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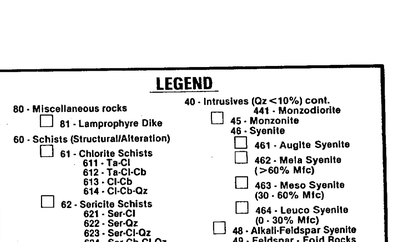
- Shaft
- Survey, station, point

72586 Sample #

2360/2.36 ppb Au, g/t Au

42 A/1 | 32 D/4
80° 00'



SCALE 1:125,000

METRES 2000 0 4000 METRES

1:2,500 SHEET 1:5,000 SHEET 1:10,000 SHEET 1:20,000 SHEET

BATTLE MOUNTAIN (CANADA) INC.

2.13325 Dup.

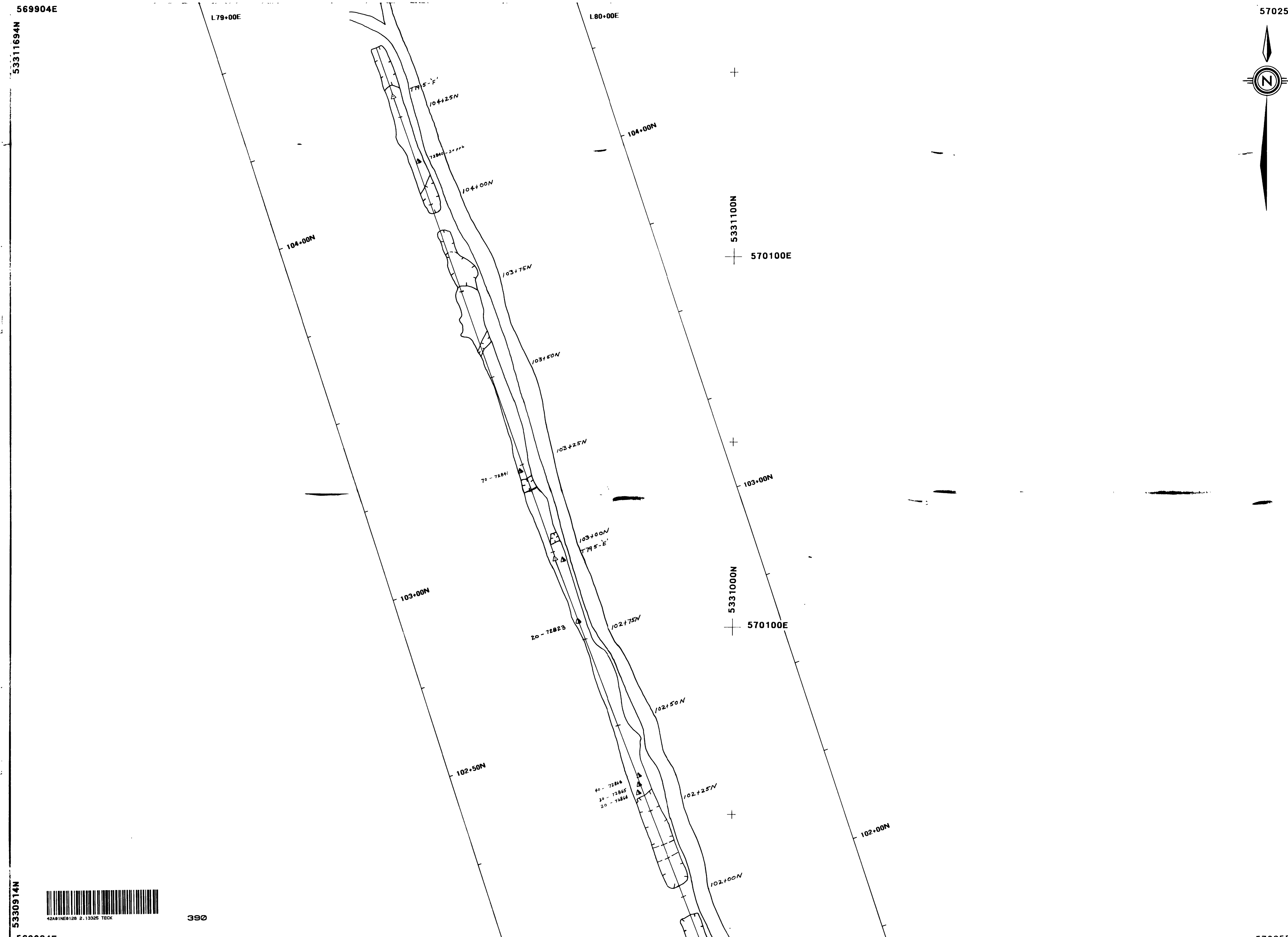
"ASSESSMENT FILE DATA" MINISTRY NORTHERN DEVELOPMENT AND MINES RECD KIRKLAND LAKE MINING OFFICE

KIRKLAND LAKE PROJECT
HSK Minerals Limited
ONTARIO

AMALGAMATED KIRKLAND PROPERTY
TRENCH 8350E - 10235N AREA
ASSAY
CHANNEL AND GRAB SAMPLES

PROJECT No.: 75-JV-28	DATA BY: H D-L
N.T.S.: 42A/1 & 32D/4	DRAWN BY: H D-L
DRAWING No.: 70437 31069	DATE: 89-12 REV.: 90-03
SCALE: 1:100	0 2 4 m

42A01NE0128 2.13325 TECK



42A01NE0128 2.13325 TECK

390

LEGEND

80 - Miscellaneous rocks
- 81 - Lamprophyre Dike

60 - Schists (Structural/Alteration)
- 61 - Chlorite Schists
  - 611 - Ta-Cl
  - 612 - Ta-Cl-Cb
  - 613 - Cl-Cb
  - 614 - Cl-Cb-Qz
- 62 - Sericite Schists
  - 621 - Ser-Cl
  - 622 - Ser-Qz
  - 623 - Ser-Cl-Qz
  - 624 - Ser-Cb-Cl-Qz
- 63 - Quartz-Carbonate Rock
  - 631 - Qz-Cb-Mar
  - 632 - Qz-Cl-Cb
  - 633 - Qz-Ser-Cb
- 65 - Carbonate Rock
  - 651 - Cb-Cl
  - 652 - Cb-Ser
  - 653 - Cb-Cl-Ser
  - 654 - Cb-Mar
  - 655 - Cb-Mar-Ser
  - 656 - Cb-Ser-Qz
  - 657 - Cb-Ser-Cl-Qz
- 69 - Felsite (Cb Alt Syenite)

40 - Intrusives (Qz<10%)
- 41 - Ultramafic
  - 412 - Peridotite
  - 414 - Pyroxenite
- 42 - Gabbro (An>50)
- 43 - Diorite (An<50)
  - 431 - Olivine Diorite
- 44 - Monzogabbro

40 - Intrusives (Qz<10%) cont.
  - 441 - Monzodiorite
- 45 - Monzonite
- 46 - Syenite
  - 461 - Augite Syenite
  - 462 - Mela Syenite (>60% Mfc)
  - 463 - Meso Syenite (30 - 60% Mfc)
  - 464 - Leuco Syenite (0 - 30% Mfc)
- 48 - Alkali-Feldspar Syenite
- 49 - Feldspar - Fold Rocks

20 - Sediments
- 21 - Conglomerate
- 22 - Greywacke (>15% Matrix)
- 23 - Arenite
  - 231 - Feldspathic
  - 232 - Lithic
  - 233 - Quartzose
- 25 - Siltstone
- 26 - Mudstone
- 27 - Ironstone

10 - Volcanics
- 11 - Ultramafic
- 13 - Basalt
- 15 - Andesite
- 18 - Trachyte

SYMBOLS

- Bedding, dipping, vertical (facing unknown)
- Bedding, dipping, vertical, overturned (facing known)
- Pillow facing direction, dipping, vertical, overturned
- Foliation (S_{1a}), dipping, vertical, dip unknown
- Foliation (S_2 or S_{1b}), dipping, vertical, dip unknown
- Joint, dipping, vertical
- Fault, dipping, vertical
- Shear zone, defined, inferred
- Mineral elongation strike and plunge
- Minor fold showing plunge
- Geological contact, known, inferred
- Sample point, character, character + assay, assay
- Claim post, iron bar, post
- Glacial striae, ice direction known, unknown
- 72586 — Sample #
- 2360/2.36 — ppb Au, g/t Au
- Channel sample
- Chip sample

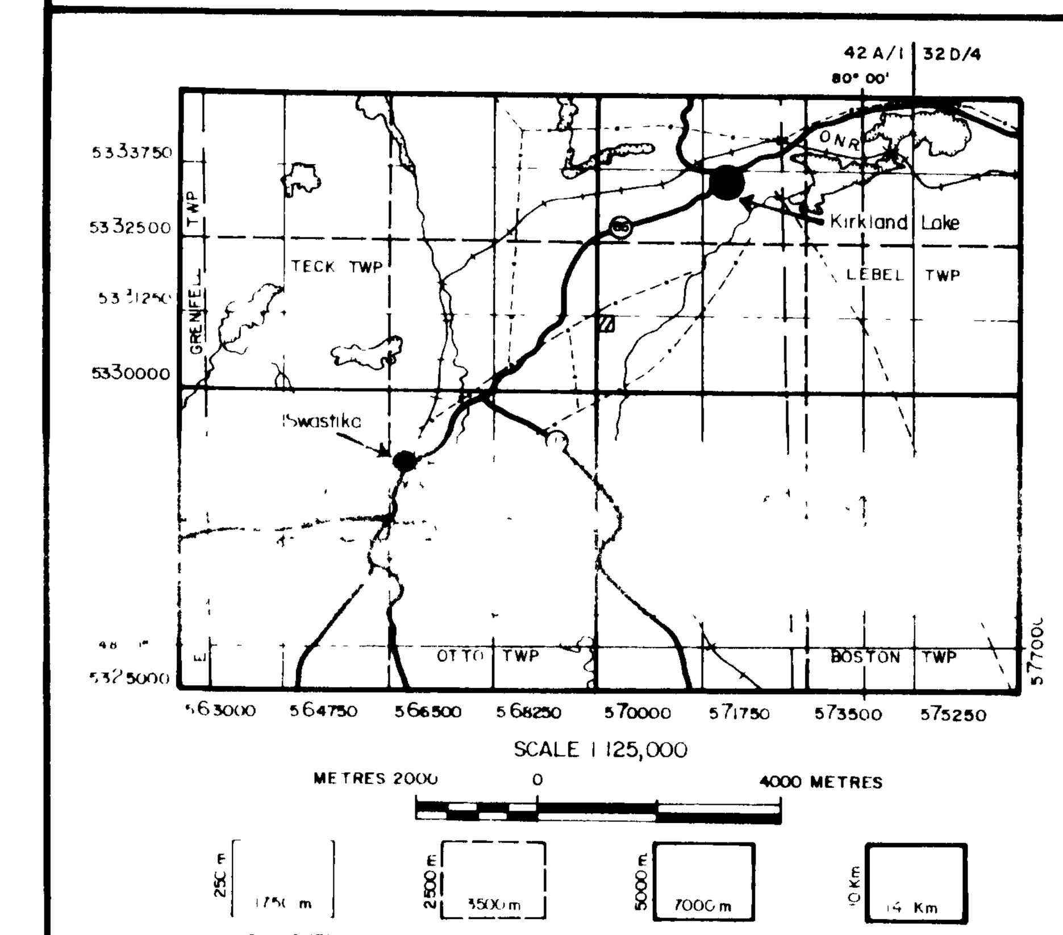
- Data point
- Drill hole
- Outcrop limit
- Limit of deep subcrop
- Limit of shallow subcrop
- Historic trench
- Pit or trench outline
- Shaft
- Survey, station, point

GRAIN/CLAST SIZE

Sedimentary rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pebble
- d - cobble
- e - boulder

Volcanic rocks
- a - ash tuff
- b - lapilli tuff
- c - block tuff

Igneous rocks
- a - fine grained
- b - medium grained
- c - coarse grained
- p - pegmatitic



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METRES 2000 0 4000 METRES

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BATTLE MOUNTAIN (CANADA) INC.

2.13325

Received June 22/90

AMALGAMATED KIRKLAND PROPERTY
TRENCH 7950E
ASSAY

H D-L

H D-L

69904 30914 89 - 12

1:500 0 10 20 m

T. J. LOTTRILL

N/2