

DI/



42A01NE8936 83 TECK

010

TOWNSHIP:

TECK TOWNSHIP

REPORT NO: 83

WORK PERFORMED FOR: Battle Mountain Inc

RECORDED HOLDER: SAME AS ABOVE [^x]

: OTHER []

<u>CLAIM NO.</u>	<u>HOLE NO.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
L491650	AK9239	82.9m	Jan 92	(1)
L491650 L491651	AK9239A	609.95m	Feb 92	(1)
L491662 L491663	AK9240	716.4	Feb 92	(1)
L491183 L491182	AK9241	916.0m	Mar 92	(1)
L491662 and 663	AK9242	556.8m	Aug 92	(1)
L491651	AK9243	648.1m	July 92	(1)
L491663 L491651	AK9244	814.1m	Aug 92	(1)
L491663 L491651	AK9245	401.5m	Aug 92	(1)
L491663	Ak 9225	198.5m	Aug 92	(1)
L500057 L477419	AK9130	387.45	Aug 91	(1)
L491662 L491663	AK9131	409.75	Aug 91	(1)
L491663	AK9132	390.8	Aug 91	(1)

NOTES:

DIAMOND DRILLING

TOWNSHIP: TECK TOWNSHIP

REPORT NO:

83

WORK PERFORMED FOR:

RECORDED HOLDER: SAME AS ABOVE []

: OTHER []

<u>CLAIM NO.</u>	<u>HOLE NO.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
L491650 L491651	AK 9133	454.75	Aug 91	(1)
L491182 L491183	AK 9135	365.5m	Sept 91	(1)
L491663 L491662	AK-9138	619.1	Oct 91	(1)
	<u>15</u>	<u>7571.6 m</u>		

NOTES:

(1) REPORT OF WORK #928000263

FILED FEBRUARY 18TH 1993

Report of Work Conducted After Recording Claim
 Mining Act

Transaction Number **W9280.00263**

Personal information collected on this form is obtained under the authority of the Ministry. This collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.



42A01NE8936 63 TECK

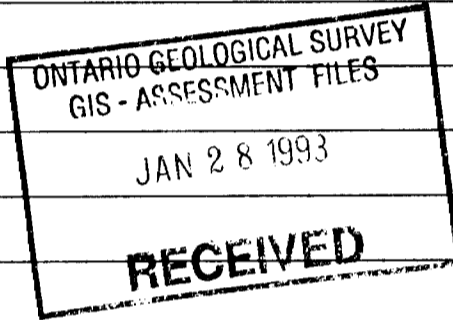
900

- Instructions:**
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
 - A separate copy of this form must be completed for each Work Group.
 - Technical reports and maps must accompany this form in duplicate.
 - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) BATTLE MOUNTAIN (CANADA) INC.		Client No. 105640
Address 390 BAY STREET, SUITE 2910, TORONTO, ONT., M5H 2Y2		Telephone No. (416) 867-9815
Mining Division LARDER LAKE	Township/Area TECK TOWNSHIP	M or G Plan No. M 392
Dates Work Performed From: January 13, 1992		To: December 4, 1992

Work Performed (Check One Work Group Only)

Work Group	Type
<input type="checkbox"/> Geotechnical Survey	
<input checked="" type="checkbox"/> Physical Work, Including Drilling	DIAMOND DRILLING
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	



Total Assessment Work Claimed on the Attached Statement of Costs \$ **419,810**

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
W. Benham (Author)	921 Willowdale Ave., Willowdale, Ont. M2M 3C2
M. Masson (Geologist)	12 O'Meara Blvd., Kirkland Lake, Ont. P2N 2T6
Heath & Sherwood (1986) Drilling Inc.	P. O. Box 993, Kirkland Lake, Ont. P2N 3L3
Swastika Laboratories	P. O. Box 10, Swastika, Ontario P0K 1T0

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date Dec 18/92	Recorded Holder or Agent (Signature) <i>David E. King</i>
--	--------------------------	--

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying Wayne Benham, 921 Willowdale Avenue, Willowdale, Ontario, M2M 3C2		
Telephone No. (416) 222-4474	Date Dec 17/92	Certified By (Signature) <i>W. Benham</i>

For Office Use Only

Total Value Cr. Recorded Reserve \$419,810.	Date Recorded Dec 30/92	Mining Recorder <i>Paul Savard</i>	Received Stamp LARDER LAKE MINING DIVISION 32 DEC 30 AM 8 51 RECEIVED
	Deemed Approval Date	Date Approved Dec 30/92	
	Date Notice for Amendments Sent		

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	491182	1
	491183	1
	491650	1
	491651	1
	491662	1
	491663	1
6		

Total Number of Claims

Value of Assessment Work Done on this Claim	Value Applied to this Claim
4,588	0
74,705	0
27,128	0
145,276	0
58,599	0
109,514	0
419,810	0

Total Value Work Done

Total Value Work Applied

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
0	4,588
0	74,705
0	27,128
0	145,276
0	58,599
0	109,514
0	419,810

Total Assigned From

Total Reserve

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

- 1. Credits are to be cut back starting with the claim listed last, working backwards.
- 2. Credits are to be cut back equally over all claims contained in this report of work.
- 3. Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.

Signature

Date

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Transaction No./N° de transaction

Mining Act/Loi sur les mines

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	115,728	
	Field Supervision Supervision sur le terrain		115,728
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type DRILLING	230,538	
	ASSAYING	17,323	
	SURVEYING, DRAFTING		
	DATA PROCESSING	4,846	252,807
Supplies Used Fournitures utilisées	Type FIELD SUPPLIES	1,531	
	OFFICE SUPPLIES	1,390	
	PRINTING	2,707	
	COPYING	72	5,700
Equipment Rental Location de matériel	Type SPERRY SUN	6,888	
Total Direct Costs Total des coûts directs			310,728

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work. Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type VEHICLES	12,383	
	FUEL	2,232	
	SHIPPING & COURIER	740	
			15,355
Food and Lodging Nourriture et hébergement		10,893	10,893
Mobilization and Demobilization Mobilisation et démobiliation		3,863	3,863
Sub Total of Indirect Costs Total partiel des coûts indirects			29,011
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			6,192
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs) Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			316,920

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	× 0.50 =

Remises pour dépôt

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Evaluation totale demandée
	× 0,50 =

Certification Verifying Statement of Costs

I hereby certify: that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as Vice President and Manager of Exploration, I am authorized (Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

J'atteste par la présente: que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature O. E. Leigh Date Dec. 17, 1992

Vol 1 of 3



42A01NE8936 83 TECK

020

Battle Mountain (Canada) Inc.

KIRKLAND LAKE PROJECT

REPORT ON 1992 DIAMOND DRILLING PROGRAMMES

PHASE I - JANUARY TO MARCH

PHASE II - JUNE TO AUGUST

"102/103/104" GOLD ZONES

AMALGAMATED KIRKLAND PROPERTY

TECK TOWNSHIP, LARDER LAKE MINING DIVISION

ONTARIO, CANADA

**Toronto, Ontario
November, 1992**

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

Battle Mountain (Canada) Inc.

KIRKLAND LAKE PROJECT

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

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

**Toronto, Ontario
November, 1992**

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

Battle Mountain (Canada) Inc.

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

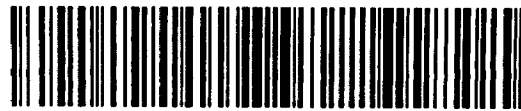
**"102/103/104" GOLD ZONES
AMALGAMATED KIRKLAND PROPERTY
TECK TOWNSHIP, LARDER LAKE MINING DIVISION
ONTARIO, CANADA**

VOLUME I

TEXT & APPENDICES

**Kirkland Lake, Ontario
October, 1992**

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



42A01NE8936 83 TECK

020C

TABLE OF CONTENTS

1.0 SUMMARY 1

2.0 INTRODUCTION 3

 2.1 Location and Access 4

 2.2 Claims 4

 2.3 Topography and Vegetation 5

 2.4 Site Rehabilitation 5

3.0 REGIONAL GEOLOGY AND MINERALIZATION 8

4.0 PROPERTY GEOLOGY 11

 4.1 Stratigraphy 11

 4.2 Intrusive Rocks 14

 4.3 Structure 14

5.0 ALTERATION AND MINERALIZATION 17

6.0 PREVIOUS WORK 19

 6.1 Work Done Prior to BMCI/Queenston Agreement 19

 6.2 BMCI/Queenston Agreement Programmes, 1989-91 20

7.0 1992 DRILL PROGRAMME 29

 7.1 Phase I Drilling Programme 29

 7.2 Phase II Drilling Programme 33

 7.3 Geochemical Analysis 38

 7.4 Discussion of Drill Results 39

8.0 CONCLUSIONS AND RECOMMENDATIONS 42

REFERENCES 43

TABLES

Table I Phase I Summary Listing of Diamond Drill Holes
Including Significant Intersections 31

Table II Phase II Summary Listing of Diamond Drill Holes
Including Significant Intersections 34

TABLE OF CONTENTS**APPENDICES**

Appendix I	Diamond Drill Logs
Appendix II	Assay Certificates
Appendix III	Certificate of Qualifications

LIST OF FIGURES

<u>Figure Number</u>	<u>Description</u>	<u>Page</u>
1	Location Map (1:100,000)	6
2	Property Map (1:20,000)	7
3	Regional Geology (1:100,000)	10
4	Geology Plan (1:7,500)	12
5	Geophysical Plan (1:7,500)	22
6	Channel Sampling, "102" Zone (1:1,250)	23

VOLUME II**LIST OF DRAWINGS**

<u>Drawing Number</u>	<u>Description</u>	<u>Scale</u>
DP-003	Drill Plan	1:2,500
GL-030	Drill Plan and Simplified Geology Plan	1:2,500
DC-039-1 to 4	Section 7600 E, Hole AK92-41	1:500
DC-038	Section 7600 E, Hole AK92-41	1:500
DC-036-1 to 3	Section 8000 E, Holes AK92-39, 39A, 43	1:500
DC-006-1 to 4	Section 8050 E, Holes AK92-39A, 43, 44	1:500
DC-008-1 to 3	Section 8100 E, Holes AK92-25 Ext., 39A,43,44,45	1:500
DC-007	Section 8100 E, Hole AK92-43	1:500
DC-066-1, 2	Section 8150, Hole AK92-44	1:500
DC-010-1 to 3	Section 8190E, Hole AK92-42	1:500
DC-017-1 to 3	Section 8400 E, Hole AK92-40	1:500
DC-065	Section 8400 E, Hole AK92-40	1:500

VOLUME IIILIST OF DRAWINGS

<u>Drawing Number</u>	<u>Description</u>	<u>Scale</u>
DL-008	Vertical Longitudinal Section "102"/"103"/"104" Gold Zones	1:2,500
DL-006	Vertical Longitudinal Section "102" Zone	1:2,500
DL-007	Vertical Longitudinal Section "103" Zone	1:2,500
DL-010	Vertical Longitudinal Section "104" Zone	1:2,500
DL-009	Vertical Longitudinal Section "105", "106" "A-5, A-6" and "107" Zones	1:2,500
DC-045	Section 7350E	1:2,500
DC-046	Section 7500E	1:2,500
DC-047	Section 7600E	1:2,500
DC-048	Section 7900E	1:2,500
DC-049	Section 8000E	1:2,500
DC-050	Section 8050E	1:2,500
DC-051	Section 8100E	1:2,500
DC-052	Section 8150E	1:2,500
DC-053	Section 8200E	1:2,500
DC-054	Section 8250E	1:2,500
DC-055	Section 8300E	1:2,500
DC-056	Section 8350E	1:2,500
DC-057	Section 8375E	1:2,500
DC-058	Section 8400E	1:2,500
DC-059	Section 8425E	1:2,500
DC-060	Section 8450E	1:2,500
DC-061	Section 8500E	1:2,500
DC-062	Section 8600E	1:2,500
DC-063	Section 8700E	1:2,500
DC-064	Section 8800E	1:2,500
DC-067	Composite Cross-Section "102" Gold Zone	1:2,500
DC-068	Composite Cross-Section "103" Gold Zone	1:2,500
DC-069	Composite Cross-Section "104" Gold Zone	1:2,500
DC-073	Composite Cross-Section "102/103/104" Gold Zones With Significant Intersections	1:2,500

1.0 SUMMARY

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

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

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

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

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

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

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

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

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

2.0 INTRODUCTION

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

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

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

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

2.1 Location and Access

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

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

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

2.2 Claims

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

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

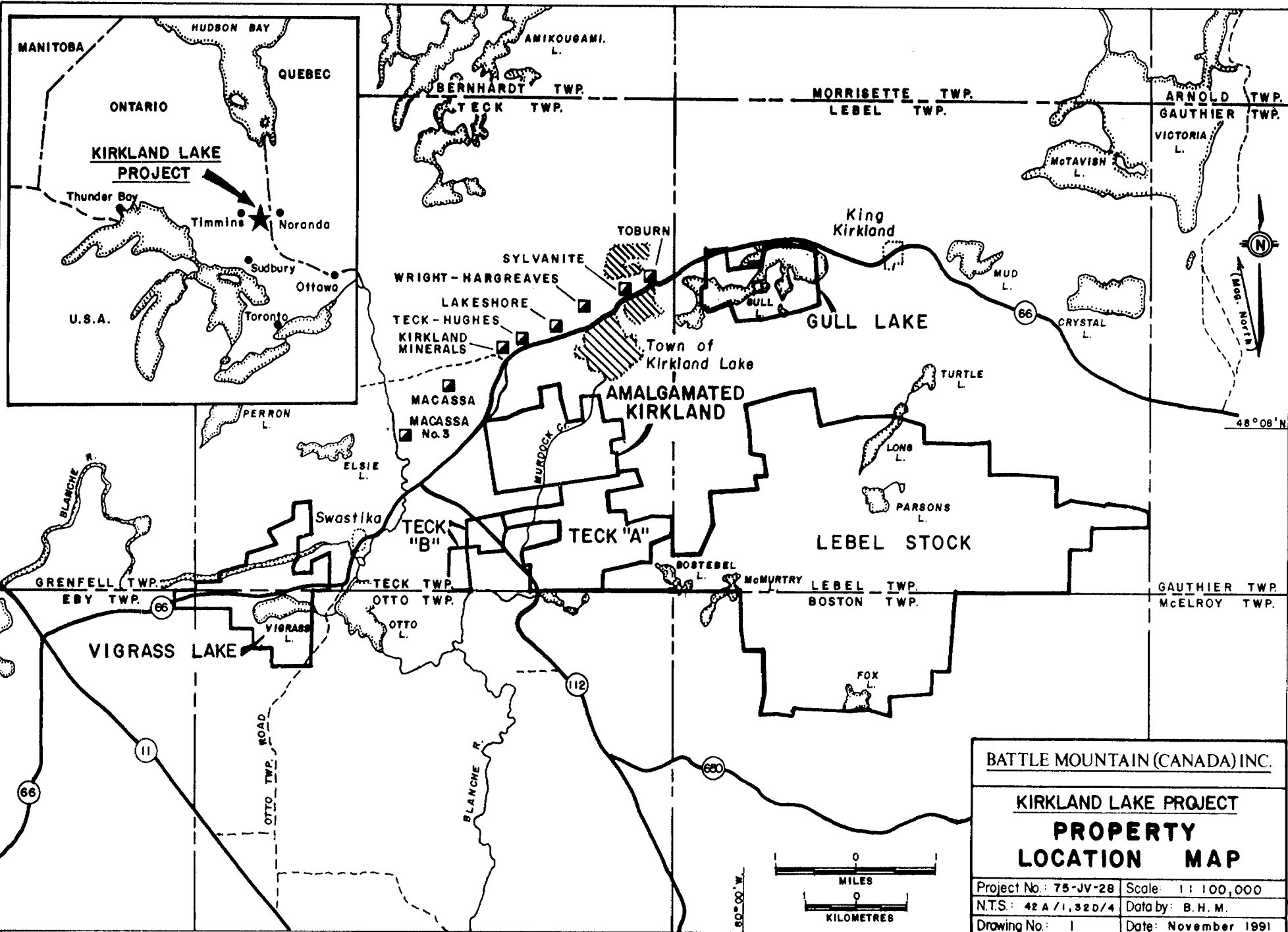
2.3 Topography and Vegetation

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

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

2.4 Site Rehabilitation

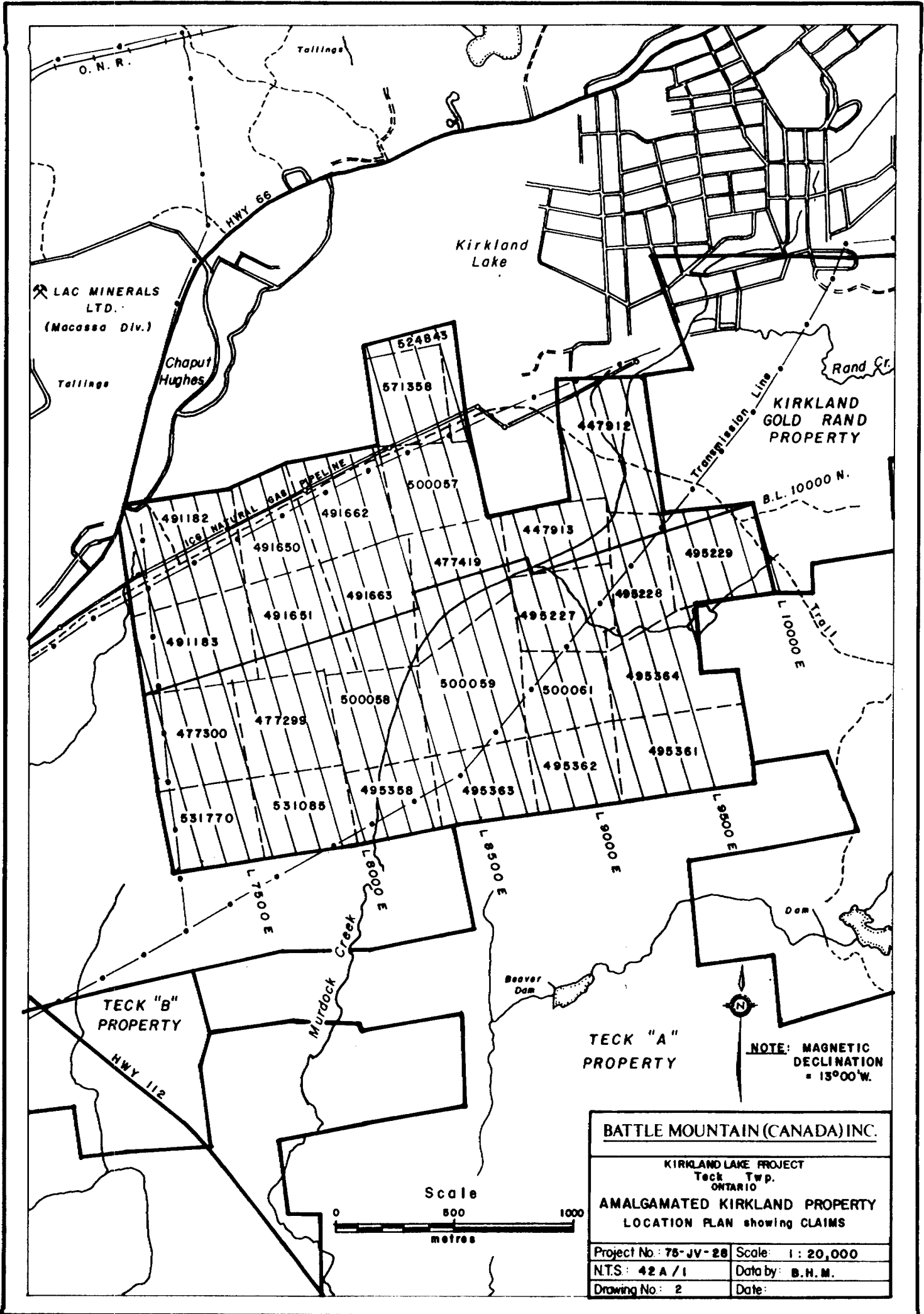
Previous attempts to fence potentially hazardous water-filled trenches and sumps used as a source for drilling water were unsuccessful because the fences were either knocked down or stolen by intruders. Four days were spent rehabilitating these water hazards and steep-sided slopes in the previously overburdened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



BATTLE MOUNTAIN (CANADA) INC.

**KIRKLAND LAKE PROJECT
PROPERTY
LOCATION MAP**

Project No: 75-JV-28	Scale: 1:100,000
N.T.S.: 42 A / 1, 32 D / 4	Data by: B. H. M.
Drawing No: 1	Date: November 1991



LAC MINERALS LTD.
(Macassa Div.)

Kirkland Lake

KIRKLAND GOLD RAND PROPERTY

TECK "B" PROPERTY

TECK "A" PROPERTY

NOTE: MAGNETIC DECLINATION = 13°00'W.

BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Teck Twp.
ONTARIO

AMALGAMATED KIRKLAND PROPERTY
LOCATION PLAN showing CLAIMS

Project No: 75-JV-28	Scale: 1:20,000
NTS: 42A/1	Data by: B.H.M.
Drawing No: 2	Date:

Scale



metres

3.0 REGIONAL GEOLOGY AND MINERALIZATION

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

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

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

LEGEND

++ Syenite Intrusives

TIMISKAMING GROUP

[Dotted] Sediments, Graywackes, and Conglomerates.
[Diagonal Lines] Volcanics, Trachytes, Pyroclastics and Flows.

KINOJEVIS GROUP

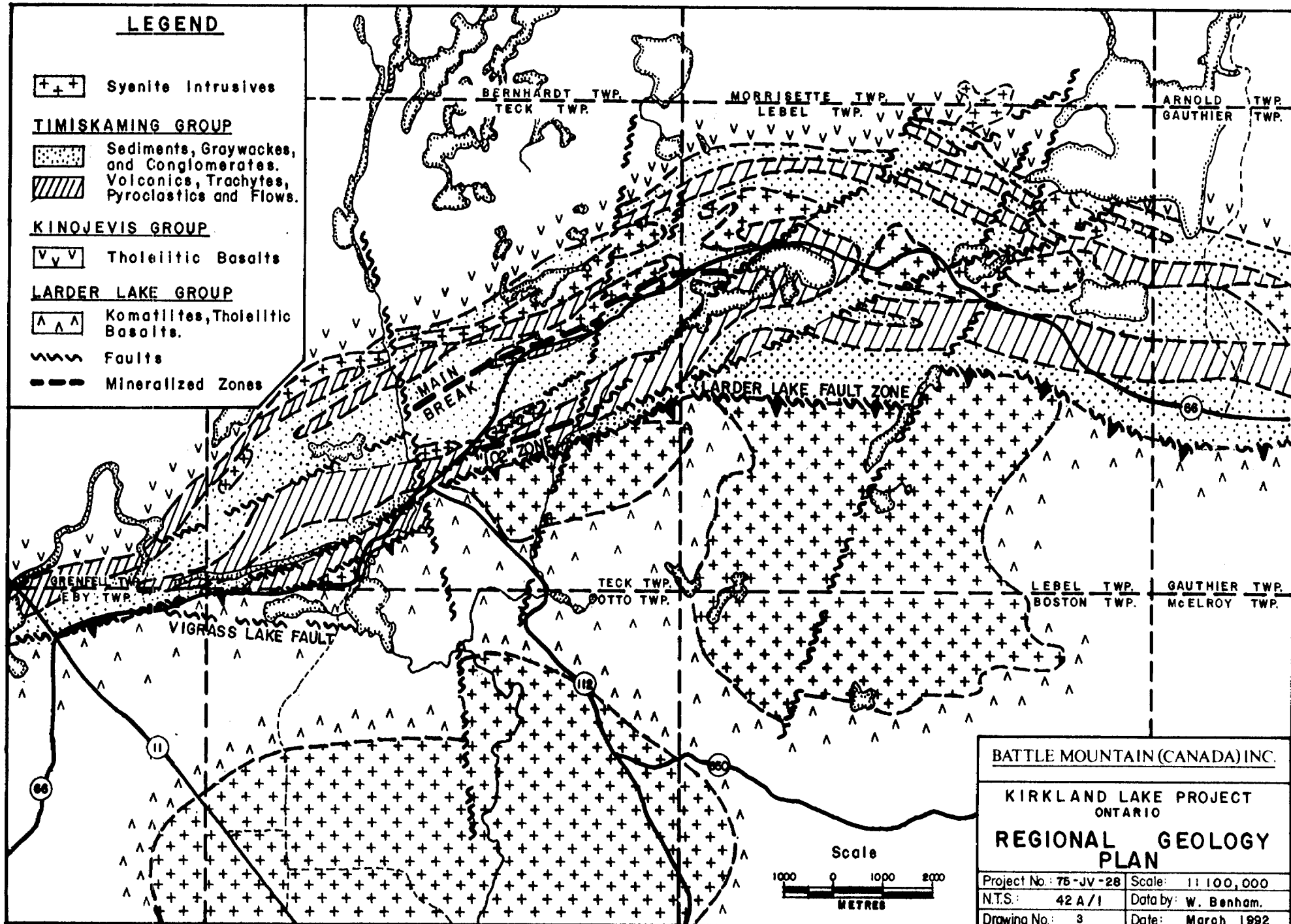
[V V] Tholeiitic Basalts

LARDER LAKE GROUP

[^ ^] Komatiites, Tholeiitic Basalts.

[Wavy] Faults

[Dashed] Mineralized Zones



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
ONTARIO

REGIONAL GEOLOGY PLAN

Project No.: 75-JV-28 Scale: 1:100,000

N.T.S.: 42 A / 1 Date by: W. Benham.

Drawing No.: 3 Date: March 1992

Scale



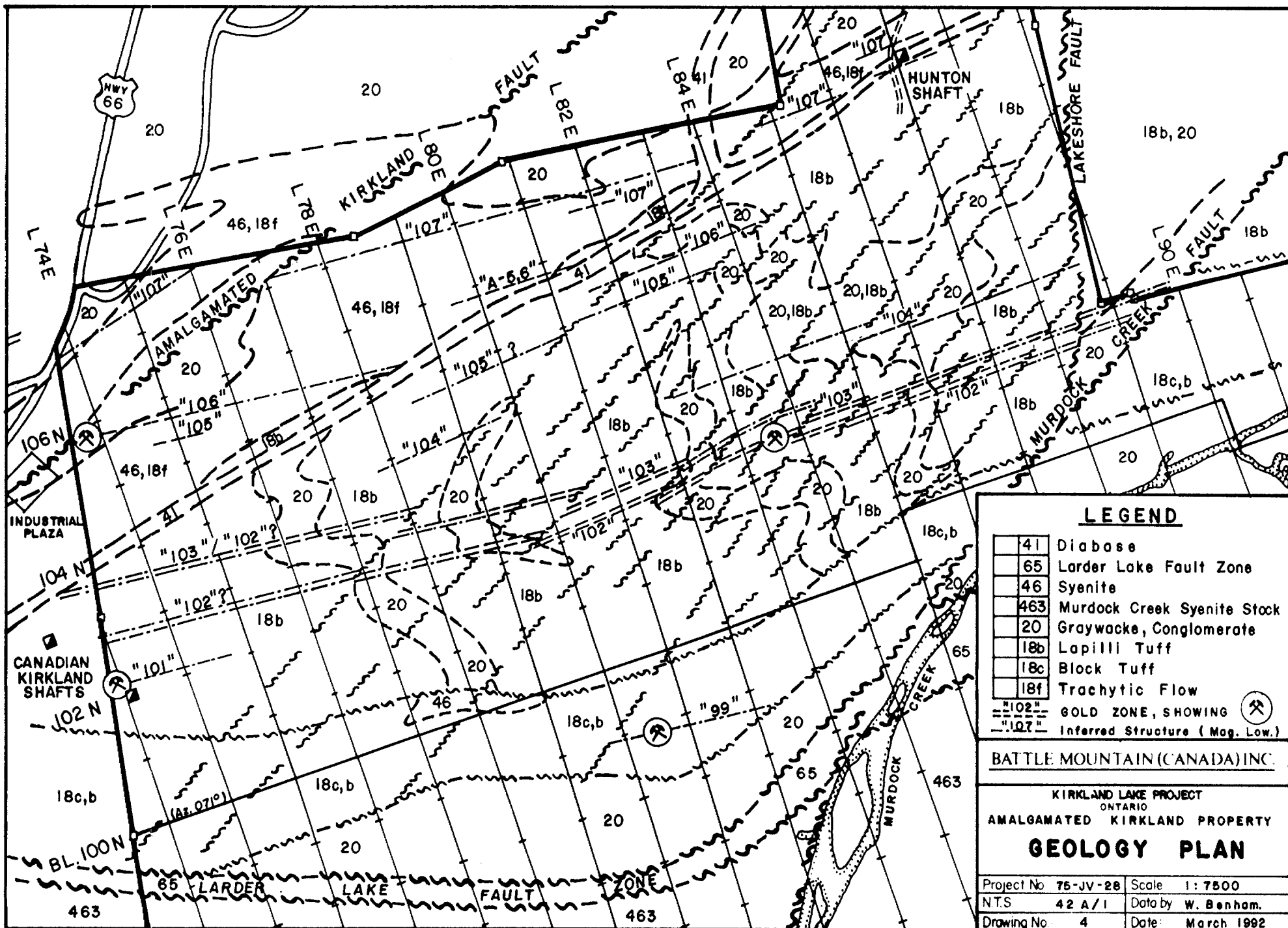
4.0 PROPERTY GEOLOGY

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

4.1 Stratigraphy

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

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



LEGEND

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

BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

GEOLOGY PLAN

Project No	75-JV-28	Scale	1:7500
N.T.S.	42 A/1	Data by	W. Benham.
Drawing No.	4	Date	March 1992

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

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

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

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

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

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

4.2 Intrusive Rocks

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

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

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

4.3 Structure

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

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

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

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

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

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

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

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

5.0 ALTERATION AND MINERALIZATION

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

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

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

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

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

6.0 PREVIOUS WORK

6.1 Work Done Prior to BMCI/Queenston Agreement

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

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

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

6.2 BMCI/Queenston Agreement Programmes, 1989-91

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

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

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

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

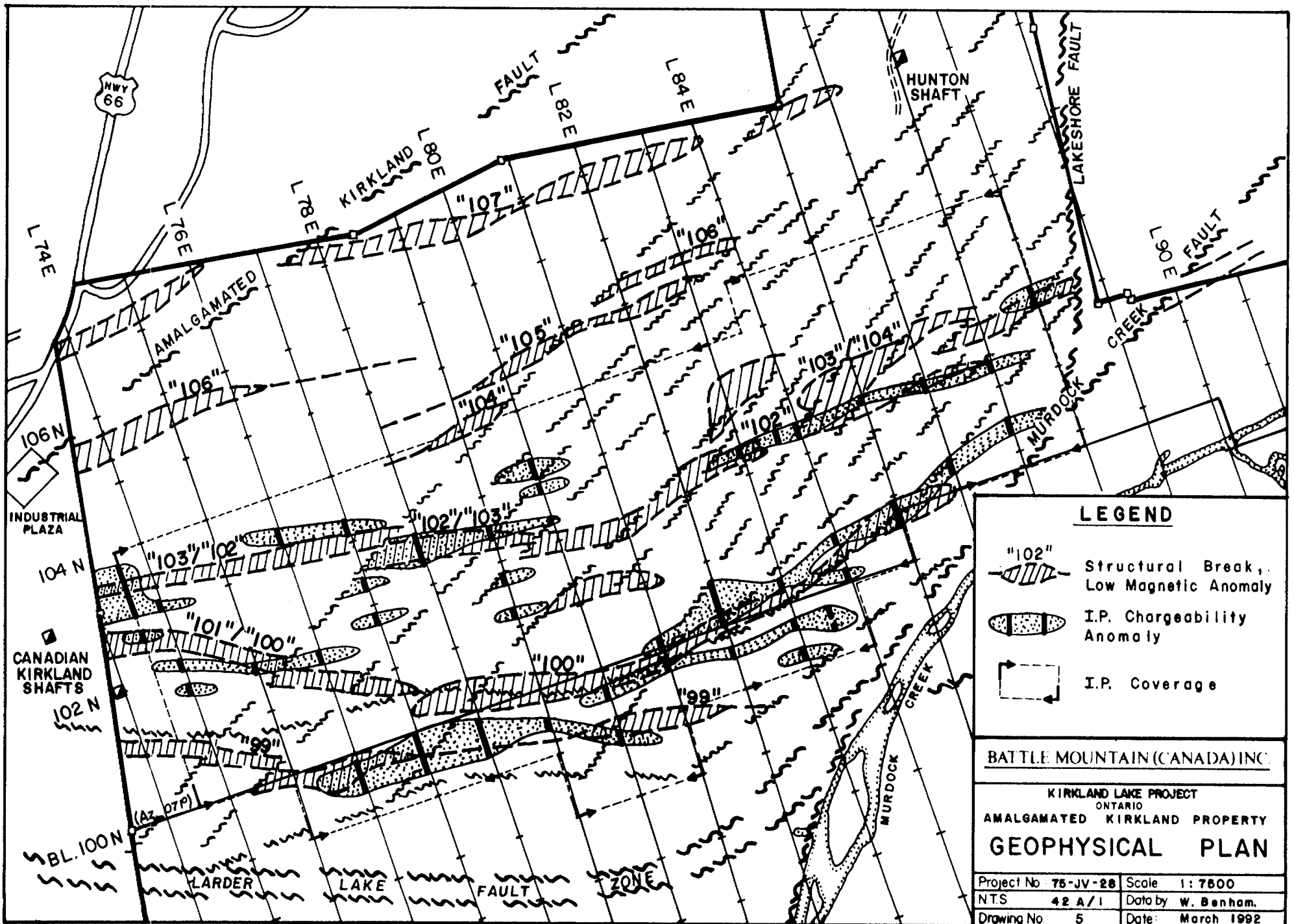
magnetic anomalies along strike of both the "101" and "102" zones, as well as others located to the north and south and parallel to the known mineralization (the "99", "100", "101", "102", "104", "105", "106", and "107" zones), provided an indication of the overall style and distribution of the major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

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




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

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

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



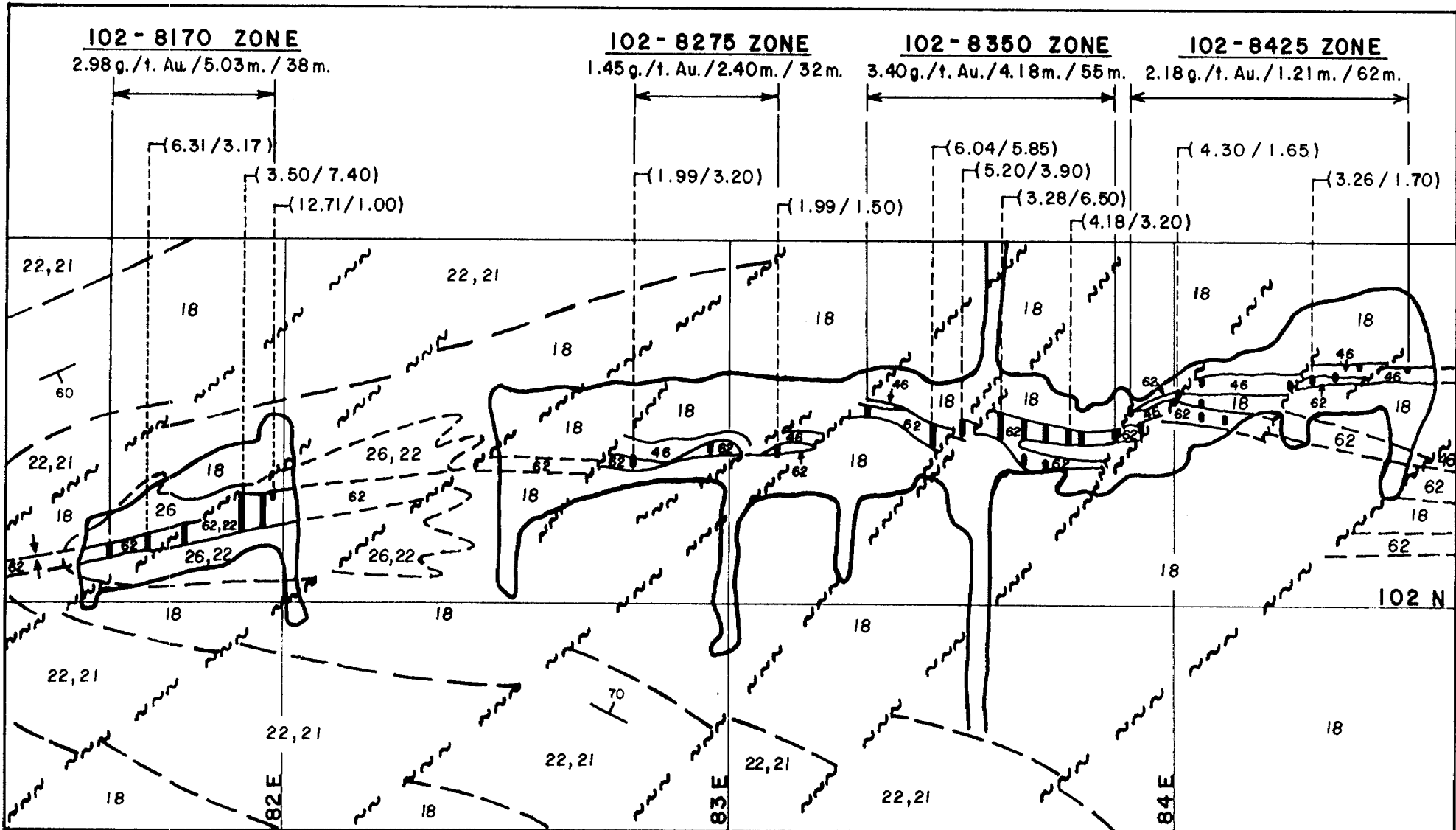
LEGEND

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

BATTLE MOUNTAIN (CANADA) INC.

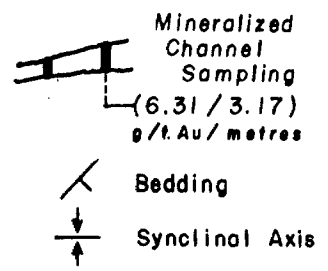
KIRKLAND LAKE PROJECT
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY
GEOPHYSICAL PLAN

Project No: 75-JV-28	Scale: 1:7500
NTS 42 A/1	Data by: W. Benham.
Drawing No: 5	Date: March 1992



LEGEND

- | | |
|---|--|
| 62 Sericite ± Pyrite ± Quartz Zone | 22 Graywackes |
| 46 Syenite + Hematite Alteration(?) | 21 Conglomerates |
| 26 Mudstones | 18 Lapilli / Ash Tuffs |



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

**"102" ZONE
CHANNEL SAMPLING**

Project No: 75-JV-28	Scale: 1:1250
NTS: 42 A / 1	Date by: W. Benham.
Drawing No: 6	Date: March 1992

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

7.0 1992 DRILL PROGRAMME

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

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

7.1 Phase I Drilling Programme

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

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

Phase I Drill Results

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

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

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

69.20 g/t Au over 1.50 metres

6.75 g/t Au over 4.50 metres, and

5.95 g/t Au over 3.90 metres.

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

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

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

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

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

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

7.2 Phase II Drilling Programme

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

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

Phase II Drill Results

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

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

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

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

D:\qpro\data\kl\92-assay\9192LIST.WQ1

10-Nov-92

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

7.3 Geochemical Analysis

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

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

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

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

7.4 Discussion of Drill Results

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

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

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

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

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

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

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

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

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

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

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

8.0 CONCLUSIONS AND RECOMMENDATIONS

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

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

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

D:\WP5\DATA\KL\REPORTS\92DRILL.RPT
November 18, 1992

REFERENCES

- Benham, W., 1990, Report on Geological Mapping, Amalgamated Kirkland Property, Kirkland Lake Project, Teck Township, Larder Lake Mining Division, Ontario; Battle Mountain (Canada) Inc.
- Benham, W., 1990a, Report on Overburden Stripping, Detailed Mapping and Channel Sampling, Amalgamated Kirkland Property, Kirkland Lake Project, Teck Township, Larder Lake Mining Division, Ontario; Battle Mountain (Canada) Inc.
- Benham, W., 1990b, Diamond Drilling Report, Amalgamated Kirkland Property (October-December, 1990), Teck Township, Larder Lake Mining Division, Ontario; Battle Mountain (Canada) Inc.
- Benham, W., 1991, Diamond Drilling Report, June-July, 1991, Rand Property (Kirkland Gold Rand Property), Teck Township, Larder Lake Mining Division, Ontario, Canada; Battle Mountain (Canada) Inc.
- Benham, W., Bottrill, T.J., 1991, Report on Diamond Drilling Programme (July-October, 1991), Amalgamated Kirkland Property, Teck Township, Larder Lake Mining Division, Ontario; Battle Mountain (Canada) Inc.
- Bottrill, T.J., 1990, Report on Overburden Stripping, Outcrop Washing and Channel Sampling, Amalgamated Kirkland Property (July-December, 1989) Teck Township, Larder Lake Mining Division, Ontario; Battle Mountain (Canada) Inc.
- Masson, M. W., 1991, Report on Geological Mapping and Sampling, Rand Property (Kirkland Gold Rand Property), Teck Township, Larder Lake Mining Division, Ontario, Canada; Battle Mountain (Canada) Inc.
- Roth, J., 1990, Report on a Magnetometer Survey, Amalgamated Kirkland Property, Kirkland Lake, Ontario for Battle Mountain (Canada) Inc.; Stratagex Ltd.
- Roth, J., 1990a, Report on an IP/Resistivity Survey, Amalgamated Kirkland Lake, Ontario for Battle Mountain (Canada) Inc.; Stratagex Ltd.
- Thomson, J.E., et al. 1950, Teck Township and the Kenogami Lake Area, Kirkland Lake Gold Belt; and, Geology of the Main Ore Zone at Kirkland Lake; Ontario Dept. of Mines; Annual Report for 1948, vol 57, Part 5.

Kirkland Lake Project

Amalgamated Kirkland Drilling, 1992

APPENDIX I
DIAMOND DRILL LOGS

Battle Mountain (Canada) Inc.

November, 1992

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

HOLE: AK-92-39

PAGE: 1 of 4

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

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

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

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

SIGNED BY


(W. Benham)

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 3.00	OVERBURDEN					
3.00 20.90	ASH/LAPILLI TUFF					
20.90 23.10	SILTSTONE/MUDSTONE					
23.10 51.00	LAPILLI TUFF					
	31.05 - 31.15 Fault at 60° tca.					
51.00 57.40	SILTSTONE/MUDSTONE					
57.40 62.80	GRAYWACKE					
62.80 78.00	LAPILLI TUFF					
78.00 82.90	SILTSTONE/MUDSTONE/LAPILLI TUFF					
82.90	E. O. H.					
				Note: No	samples were	taken.

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

HOLE: AK-92-39A

PAGE: 1 of 20

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

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

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

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

SIGNED BY


(W. Benham)

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 2.70	OVERBURDEN	242.40 246.00	LAPILLI TUFF	357.00 359.00	2.00	0.17
2.70 20.50	ASH TUFF	246.00 348.90	GRAYWACKE	440.00 440.50	0.50	0.39
20.50 22.40	20.10 - 20.50 Fault @ 40° tca.	348.90 353.10	329.05 - 329.10 Fault @ 80° tca.	453.00 457.40	4.40	0.27
22.40 31.70	SILTSTONE	353.10 372.30	SILTSTONE/MUDSTONE/LAPILLI TUFF	457.40 488.00	30.60	5.83
31.70 38.00	LAPILLI TUFF	372.30 424.20	GRAYWACKE	457.40 or 483.10	25.70	6.74
38.00 44.00	ASH TUFF	424.20 426.40	359.30 - 359.50 Fault @ 15° tca.	457.40 458.90	1.50	69.20
44.00 49.00	SILTSTONE/LAPILLI TUFF	426.40 439.40	372.15 - 372.30 Fault @ 45° tca.	458.90 467.00	8.10	0.61
49.00 57.80	LAPILLI TUFF	439.40 444.40	LAPILLI TUFF	467.00 469.50	2.50	1.54
57.80 74.20	GRAYWACKE	444.40 530.00	406.00 Fault @ 70° tca.	469.50 474.00	4.50	6.75
74.20 78.20	SILTSTONE/MUDSTONE/GRAYWACKE		424.80 Fault @ 70° tca.	474.00 479.20	5.20	1.35
78.20 105.80	LAPILLI TUFF		MUDSTONE/SILTSTONE	479.20 483.10	3.90	5.95
105.80 159.30	SILTSTONE/MUDSTONE/GRAYWACKE		424.80	483.10 488.00	4.90	1.05
159.30 167.20	LAPILLI TUFF		440.00 - 440.45 Shear zone @ 65-70° tca.	488.00 491.00	3.00	0.23
167.20 216.00	SILTSTONE/GRAYWACKE/LAPILLI TUFF		457.45 - 458.30			
216.00 220.25	163.75 - 164.00 Fault @ 10° tca.		457.45 - 458.30			
220.25 225.30	LAPILLI TUFF		457.45 - 458.30			
225.30 237.65	189.25 Fault @ 40° tca.		469.55 - 473.10			
237.65 242.40	SILTSTONE		479.20 - 483.10			
	LAPILLI TUFF					
	SILTSTONE/LAPILLI TUFF					
	GRAYWACKE					
	242.00 - 242.40 Fault @ 50° tca.					

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

HOLE: AK-92-39A

PAGE: 2 of 20

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

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

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

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

SIGNED BY _____
(W. Benham)

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

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

HOLE: AK-92-39A

PAGE: 3 of 20

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

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

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

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

SIGNED BY _____
(W. Benham)

SUMMARY LOG				ASSAY SUMMARY																																																																																																		
INTERVAL From To	DESCRIPTION			INTERVAL From To	LENGTH in metres	AVERAGE Au g/t																																																																																																
	<table border="1"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr><td>Collar</td><td>Compass</td><td>158</td><td>77.5</td></tr> <tr><td>23.0</td><td>Sperry Sun</td><td>156</td><td>77</td></tr> <tr><td>68.5</td><td>Acid</td><td></td><td>76</td></tr> <tr><td>71.0</td><td>Sperry Sun</td><td>148(?)</td><td>76</td></tr> <tr><td>93.0</td><td>Sperry Sun</td><td>147</td><td>75.5</td></tr> <tr><td>101.0</td><td>Sperry Sun</td><td>148</td><td>74.5</td></tr> <tr><td>122.0</td><td>Acid</td><td></td><td>74</td></tr> <tr><td>156.0</td><td>Sperry Sun</td><td>146</td><td>72.5</td></tr> <tr><td>183.0</td><td>Acid</td><td></td><td>71</td></tr> <tr><td>236.5</td><td>Sperry Sun</td><td>142</td><td>70</td></tr> <tr><td>244.0</td><td>Acid</td><td></td><td>70</td></tr> </tbody> </table>	Depth	Method	Azimuth	Dip	Collar	Compass	158	77.5	23.0	Sperry Sun	156	77	68.5	Acid		76	71.0	Sperry Sun	148(?)	76	93.0	Sperry Sun	147	75.5	101.0	Sperry Sun	148	74.5	122.0	Acid		74	156.0	Sperry Sun	146	72.5	183.0	Acid		71	236.5	Sperry Sun	142	70	244.0	Acid		70		<table border="1"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr><td>261.0</td><td>Sperry Sun</td><td>139</td><td>69</td></tr> <tr><td>305.0</td><td>Acid</td><td></td><td>64</td></tr> <tr><td>343.0</td><td>Sperry Sun</td><td>136</td><td>61</td></tr> <tr><td>368.0</td><td>Acid</td><td></td><td>61</td></tr> <tr><td>395.0</td><td>Sperry Sun</td><td>136</td><td>61</td></tr> <tr><td>432.0</td><td>Acid</td><td></td><td>60</td></tr> <tr><td>438.0</td><td>Sperry Sun</td><td>135</td><td>60</td></tr> <tr><td>498.0</td><td>Sperry Sun</td><td>135</td><td>59</td></tr> <tr><td>569.0</td><td>Sperry Sun</td><td>134</td><td>57</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Depth	Method	Azimuth	Dip	261.0	Sperry Sun	139	69	305.0	Acid		64	343.0	Sperry Sun	136	61	368.0	Acid		61	395.0	Sperry Sun	136	61	432.0	Acid		60	438.0	Sperry Sun	135	60	498.0	Sperry Sun	135	59	569.0	Sperry Sun	134	57											
Depth	Method	Azimuth	Dip																																																																																																			
Collar	Compass	158	77.5																																																																																																			
23.0	Sperry Sun	156	77																																																																																																			
68.5	Acid		76																																																																																																			
71.0	Sperry Sun	148(?)	76																																																																																																			
93.0	Sperry Sun	147	75.5																																																																																																			
101.0	Sperry Sun	148	74.5																																																																																																			
122.0	Acid		74																																																																																																			
156.0	Sperry Sun	146	72.5																																																																																																			
183.0	Acid		71																																																																																																			
236.5	Sperry Sun	142	70																																																																																																			
244.0	Acid		70																																																																																																			
Depth	Method	Azimuth	Dip																																																																																																			
261.0	Sperry Sun	139	69																																																																																																			
305.0	Acid		64																																																																																																			
343.0	Sperry Sun	136	61																																																																																																			
368.0	Acid		61																																																																																																			
395.0	Sperry Sun	136	61																																																																																																			
432.0	Acid		60																																																																																																			
438.0	Sperry Sun	135	60																																																																																																			
498.0	Sperry Sun	135	59																																																																																																			
569.0	Sperry Sun	134	57																																																																																																			

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

HOLE: AK-92-39A

PAGE: 4 of 20

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

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

HOLE: AK-92-39A

PAGE: 8 of 20

INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
216.00	220.25	SILTSTONE Chloritic, massive to finely laminated, dark green aphanitic siltstone with very minor intercalated lapilli tuff horizons up to 20 cm wide. Undeformed, unaltered. Bedding @ 65° tca. Lower contact sharp @ 70° tca.										
220.25	225.30	LAPILLI TUFF Chloritic, massive, dark green heterolithic lapilli tuff with 5-10% angular lapilli clasts in a fine ash matrix. Predominant clast type is 75-80% light grey, fine grained trachyte. Non-magnetic. Lower contact is a sharp, tight sericitic slip @ 35° tca.										
225.30	237.65	SILTSTONE/LAPILLI TUFF Chloritic, massive to finely laminated @ 45° tca. Dark to medium green, aphanitic, undeformed, unaltered.										
	228.80	Fault @ 30° tca., 2-3 mm wide strong chlorite + sericite slip.										
	231.50 - 237.65	Unit becomes intercalated with massive lapilli tuff horizons up to 1 m wide which display sharp interfingering with the sediments.	2062	236.00	237.00	1.00					0.01	
			2063	237.00	237.65	0.65					0.01	
237.65	242.40	GRAYWACKE Chloritic, massive, light to dark green, very fine grained graywacke to quartz arenite. Unit carries trace disseminated pyrite throughout and is cut by 2-3% milk-white to grey barren quartz ± albite veins up to 30 cm wide. Veins are generally very irregular and frequently contain fragments of sericitized graywacke fragments.										
	238.30 - 238.80	Quartz ± albite + sericite vein. Very irregular, barren patchy quartz flooding with light green sericitized graywacke at vein contacts.	2064	237.65	238.30	0.65		Tr.			0.01	
			2065	238.30	238.90	0.60		Tr.	45	15	0.01	
			2066	238.90	239.40	0.50		Tr.	Tr.	5	0.01	
			2067	239.40	239.90	0.50		Tr.	2-3	10	0.01	
	239.95 - 240.50	Quartz ± albite + sericite vein. Barren, late quartz.	2068	239.90	240.50	0.60		Tr.	40	5-10	0.01	
			2069	240.50	241.00	0.50		Tr.	Tr.	Tr.	0.01	
			2070	241.00	241.50	0.50		Tr.	1-2	Tr.	NIL	
			2071	241.50	242.00	0.50		Tr.	1-2	Tr.	0.01	
	242.00 - 242.40	Fault @ 50° tca. Sericite + chlorite + quartz + albite. Strong fault zone comprised of 1-3 cm wide chlorite + sericite + quartz, often with gouge within highly foliated sericitized graywacke/tuff.	2072	242.00	242.40	0.40		Tr.	5	30-40	0.01	

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

HOLE: AK-92-39A

PAGE: 9 of 20

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check		
242.40	246.00	LAPILLI TUFF Massive, grey-green to red-brown heterolithic lapilli tuff with 5-10% angular clasts which are pink-red, light grey to buff and dark green volcanics. Unit is moderately fractured by narrow, 0.5-3 mm, quartz + chlorite, anastomosing stringers. Non-mineralized, non-magnetic.	2073	242.40	243.00	0.60		2-3	5		NIL			
			2074	243.00	243.50	0.50		2-3	5		0.01			
			2075	243.50	244.00	0.50		Tr.	2-3		0.01			
			2076	244.00	244.50	0.50		1	5		0.01			
			2077	244.50	245.00	0.50		1	2-3		NIL			
			2078	245.00	245.50	0.50		Tr.			0.01			
			2079	245.50	246.30	0.80					0.01			
246.00	348.90	GRAYWACKE Massive, very fine grained, light to dark green, well sorted very clean graywacke to quartz arenite. Unit is cut by 1-2% barren white quartz veinlets at all angles tca. Lower contact of unit is a sharp strong sericite slip @ 65° tca with a 5 cm wide barren quartz breccia vein with wall rock fragments to 5 mm. 246.30 - 246.40 Fault @ 70° tca. Sericite + chlorite + quartz. Sharp strong sericitic slip planes with interstitial barren quartz with internal sericitic suturing. 246.40 - 247.20 Yellow-green aphanitic mudstone with strong internal chlorite fracturing (pseudo-brecciated) and 10% barren, irregular quartz + sericite veining. 249.30 - 269.00 Unit is cut by 3-4 generations of narrow (≤ 1 cm) quartz and quartz + chlorite veinlets which frequently display light yellow-green sericite alteration halos. Oldest set appears to be a system of hairline to 2 mm wide quartz + chlorite veinlets (quartz cores and chlorite boundaries) @ 10-20° tca with small braided stringers off main set. This set may carry fine grained sulphides and is cross cut by at least two sets of barren milk-white quartz veins, up to 1 cm wide, @ 0-45° tca. 251.80 Fault slip @ 30° tca. Sharp chlorite slip with a 0.5 cm barren quartz vein on slip wall. Moderate sericite alteration proximal to fault.	2080	246.30	246.75	0.45			5-7	40		0.01		
			2081	246.75	247.20	0.45			10	40		0.01		
			2082	247.20	248.00	0.80			1-2	Tr.		0.01		
			2083	248.00	248.50	0.50				1	Tr.	0.01		
			2084	248.50	249.00	0.50			Tr.	Tr.	Tr.	0.01		
			2085	249.00	249.50	0.50				2-3	5	0.01		
			2086	249.50	250.00	0.50				2-3	5-7	0.01		
			2087	250.00	250.50	0.50				2-3	5-7	NIL		
			2088	250.50	251.00	0.50				1-2	3-5	0.01		
			2089	251.00	251.50	0.50					1	2-3	0.01	
			2090	251.50	252.10	0.60					2-3	5-10	0.01	0.02
			2091	252.10	253.00	0.90					1	Tr.	0.01	0.01
			2092	253.00	253.50	0.50					Tr.	Tr.	0.01	0.01
			2093	253.50	254.00	0.50				Tr.	1-2	3-5	0.01	0.01
			2094	254.00	254.50	0.50				Tr.	1-2	3-5	NIL	NIL
			2095	254.50	255.00	0.50				Tr.	1	2-3	NIL	NIL
			2096	255.00	255.75	0.75				Tr.	3-5	5-7	Chl.	0.01
2097	255.75	256.50	0.75					2-3	1-2		0.02			
2098	256.50	257.00	0.50					Tr.	1-2		0.01			

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

HOLE: AK-92-39A

PAGE: 11 of 20

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		320.80										
		Fault slip @ 20° tca, strong sericite + gouge slip with 2 cm wide, late barren quartz vein.										
		329.05 - 329.10										
		Fault @ 80° tca. Strong sericite shear with 30% barren white to pink quartz ± calcite. Moderate gouge development.	2121	338.00	339.00	1.00		Tr.	1-2	1-2		0.01
			2122	339.00	339.60	0.60						0.01
		339.80										
		Fault @ 25° tca. Sericite + quartz + pyrite. 3 cm wide, sericitic shear with a 1 cm wide, blue-grey to white, quartz vein which has irregular internal sericite suturing with 1-2 % medium grained, sub to euhedral pyrite on seams.	2123	339.60	340.00	0.40			Tr.	Tr.		0.03
			2124	340.00	340.50	0.50						0.02
			2125	340.50	341.00	0.50			Tr.	Tr.		0.01
			2126	341.00	341.60	0.60						0.02
		341.50										
		Fault slip @ 30° tca. Sericite + quartz. 2 cm wide barren grey-white quartz vein on strong sharp sericite slips.	2127	341.60	342.10	0.50						0.02
			2128	342.10	343.00	0.90						0.01
			2129	343.00	344.00	1.00		Tr.	2-3	5		0.01
		344.30 - 344.55										
		Altered sericitized graywacke fractured to pseudo-brecciated by irregular quartz + chlorite ± pyrite veins. Series of ladder-type quartz + chlorite veinlets with trace blebby pyrite @ 25-30° tca (1-4 mm wide) cross cuts earlier set of barren milk-white veins at right angles.	2130	344.00	344.60	0.60			Tr.	Tr.		0.01
			2131	344.60	345.60	1.00				Tr.		0.01
			2132	345.60	346.10	0.50		Tr.		Tr.		0.01
			2133	346.10	347.00	0.90						0.06
			2134	347.00	348.00	1.00		Tr.		Tr.		0.02
			2135	348.00	348.50	0.50			2	5		0.01
			2136	348.50	348.90	0.40	90					0.01
348.90	353.10	SILTSTONE/MUDSTONE/LAPILLI TUFF										
		Intimately intercalated siltstone, mudstone and lapilli tuff with very sharp and highly irregular bedding contacts at roughly 30-50° tca. All units are moderately pervasively sericitized and lapilli tuff displays strong internal sericitic foliation and clast elongation @ 30-40° tca. Lapilli tuff has a quite distinctive clast component which consists of angular mudstone clasts, up to 5 cm wide, moderately well rounded quartz pebbles and dark angular mafic lapilli clasts. Mudstone/siltstone are finely laminated with irregular convoluted bedding and are yellow-green to dark grey respectfully.	2137	348.90	349.90	1.00			Tr.	10		0.01
			2138	349.90	350.50	0.60				5-10		0.01
			2139	350.50	351.00	0.50			Tr.	5-10		0.01
			2140	351.00	351.70	0.70		Tr.	Tr.	5-10		NIL
			2141	351.70	352.50	0.80				10-15		0.01
			2142	352.50	353.10	0.60		Tr.	Tr.	10-15		0.01
353.10	372.30	GRAYWACKE										
		Massive to moderately foliated graywacke to pebbly graywacke with 1-2% scattered pebble clasts of mudstone quartz, volcanics and jasper. Matrix is moderately to pervasively sericitized and has trace disseminated pyrite.										
		353.10 - 353.45										
		Fault zone @ 60° tca. Sericite + chlorite + quartz. Strongly foliated sericitized graywacke with sharp sericite + mud gouge fault slips. Section carries 10-15% irregular grey-white quartz veins and pods up to 4-5 cm wide.	2143	353.10	353.60	0.50		Tr.	10-15	40		0.01
			2144	353.60	354.30	0.70		Tr.		15-20		0.01
			2145	354.30	355.00	0.70				10-15		NIL
			2146	355.00	356.00	1.00		Tr.	Tr.	10-15		0.01

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

HOLE: AK-92-39A

PAGE: 13 of 20

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

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

HOLE: AK-92-39A

PAGE: 14 of 20

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check	
439.40	444.40	433.40 Quartz + albite vein @ 40° tca. 2 cm wide milk-white vein on a sharp sericitic slip. Internally the vein has some minor fracturing with blue-grey quartz ± chlorite infillings which carry trace pyrite.	2182	433.00	433.50	0.50		Tr.	1	Tr.	0.01		
			2183	433.50	434.10	0.60		Tr.			0.01		
		434.10 - 434.85 Mudstone, massive to finely laminated @ 80° tca, aphanitic yellow-green, sericitic, mudstone horizon with sharp contacts. Contains 1-2% white to blue-grey quartz veinlets, 1 mm-1 cm wide, which carry trace pyrite (± galena?)	2184	434.10	434.90	0.80		Tr.	1-2			0.01	
			2185	434.90	435.50	0.60		Tr.	Tr.			0.01	
			2186	435.50	436.00	0.50						0.01	
			2187	436.00	436.50	0.50						0.01	
			2188	436.50	437.00	0.50		Tr.	Tr.			0.01	
			2189	437.00	437.50	0.50		Tr.	Tr.			0.01	
			2190	437.50	438.00	0.50		Tr.	Tr.			0.01	
			2191	438.00	438.90	0.90		Tr.	Tr.			NIL	
		2192	438.90	439.40	0.50		Tr.	Tr.			NIL		
		440.00 - 440.15 White to grey to grey-brown brecciated quartz + wall rock material with 1-2% very finely disseminated pyrite in groundmass.	2193	439.40	440.00	0.60		Tr.	1	50		0.03	
			2194	440.00	440.50	0.50		Tr.-1	15	50 +		0.39	
			440.00 - 440.45 Shear zone @ 65-70°. Sericite + quartz + pyrite. Strongly foliated to schistose, sericitic mudstone with strong sharp sericitic gouge slip planes.	2195	440.50	441.00	0.50		Tr.	1			0.03
2196	441.00			441.70	0.70		Tr.	1-2			0.02		
2197	441.70			442.20	0.50		1	5			0.05		
2198	442.20			443.00	0.80						0.01		
2199	443.00			443.70	0.70						NIL		
2200	443.70			444.40	0.70						0.01		
444.40	530.00	450.70 1 cm. Quartz + albite ± pyrite ± galena vein @ 20° tca.	2201	444.40	445.00	0.60		Tr.			NIL		
			2202	445.00	446.00	1.00		Tr.				0.02	
			2203	446.00	447.00	1.00		Tr.	Tr.			0.01	
			2204	447.00	448.00	1.00		Tr.				0.02	
			2205	448.00	449.00	1.00		Tr.				0.01	
			2206	449.00	450.00	1.00		Tr.				0.02	
			2207	450.00	450.50	0.50		Tr.				0.02	
			2208	450.50	451.00	0.50		Tr.	1			0.05	

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

HOLE: AK-92-39A

PAGE: 15 of 20

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
			2209	451.00	451.50	0.50		Tr.	Tr.		0.01	
			2210	451.50	452.00	0.50		Tr.			0.02	
			2211	452.00	452.50	0.50		Tr.	Tr.		0.04	
			2212	452.50	453.00	0.50		Tr.	Tr.		0.02	
		453.15	2213	453.00	453.50	0.50		1	1-2		0.17	
		3 cm wide, irregular quartz + albite vein with angular included wall rock fragments which tend to be replaced by 1-2%, very fine grained pyrite.	2214	453.50	454.00	0.50		Tr.	Tr.		0.03	
			2215	454.00	454.50	0.50					0.13	
			2216	454.50	455.00	0.50		Tr.			0.06	
			2217	455.00	455.50	0.50		Tr.			0.15	
			2218	455.50	456.00	0.50		Tr.	Tr.		0.30	
			2219	456.00	456.75	0.75		Tr.	Tr.		0.88	
		456.80 - 457.45	2220	456.75	457.40	0.65		Tr.	Tr.		0.15	
		Mudstone, massive soft sericitic yellow-green mudstone. Lower contact is a very sharp hairline slip @ 40° tca.										
		457.45 - 458.30	2221	457.40	457.85	0.45		2-3	80	V. G.	63.70	64.12
		Quartz + Pyrite + Visible Gold Vein. Sharp upper contact marked by quartz + chlorite slip @ 40°. Lower contact is a sharp vein contact @ 20° tca. Blue grey quartz breccia vein or silicified zone with strong fine internal micro-fracturing on which 1-2% fine grained patchy pyrite and 15-20 patches of Visible Gold, 0.5-2 mm wide, are readily recognizable. Fracturing and brecciating this grey-blue quartz is a later 5%, white-grey quartz + albite vein system which carries angular inclusions of mineralized quartz. In places remnant graywacke, quartz + jasper, can be recognized within this silicified zone. Note: Samples 2221, 2222 and 2223 were entirely pulverized and homogenized before being assayed. Two 1 assay-ton aliquots were assayed for samples 2221 and 2222 and one 1 assay-ton aliquot was assayed for sample 2223.	2222	457.85	458.35	0.50		2-3	80	V. G.	137.42	136.87
		458.30 - 489.50										
		Graywackes are light grey-green and massive with a weak to moderate pervasive sericitization of groundmass evident. In places where unit contains scattered pebbles (pebbly graywacke) select clasts are fuchsitic (volcanic) and some appear to be replaced by fine pyrite. Unit has trace-1% fine grained disseminated pyrite in groundmass.										
		458.30 - 458.90	2223	458.35	458.90	0.55		Tr.-0.5		5	11.76	
		Graywacke has 2-3%, 0.5-2 cm wide, sericitic mudstone rip-up clasts which are 10-90% replaced by fine grained pyrite ± quartz ± chlorite.	2224	458.90	459.50	0.60		Tr.			0.37	
			2225	459.50	460.00	0.50		Tr.			0.27	

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

HOLE: AK-92-39A

PAGE: 16 of 20

INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
			2226	460.00	460.50	0.50		Tr.			0.34	
			2227	460.50	461.00	0.50		Tr.			0.49	
			2228	461.00	461.50	0.50		Tr.			0.52	
			2229	461.50	462.00	0.50		Tr.			0.40	
			2230	462.00	462.50	0.50		Tr.	Tr.		0.88	
			2231	462.50	463.00	0.50		Tr.			0.90	
			2232	463.00	464.00	1.00		Tr.-0.5	Tr.		1.41	
			2233	464.00	465.00	1.00		Tr.			0.45	
			2234	465.00	466.00	1.00		Tr.			0.69	
			2235	466.00	467.00	1.00		Tr.			0.27	
	467.25	1 cm wide quartz + albite vein @ 40° tca. Grey-white sugary vein with 1-2% fine grained pyrite, trace chalcopyrite and blue-grey borders possibly with fine grained galena.	2236	467.00	467.50	0.50		Tr.-1	1-2	Gal. Cp.	2.47	
			2237	467.50	468.00	0.50		Tr.	1		2.33	
			2238	468.00	469.00	1.00		Tr.	Tr.		1.20	
			2239	469.00	469.50	0.50		Tr.			0.51	
	467.25 - 485.00	There is a set of quartz + albite + pyrite ± galena ± chalcopyrite veins @ 5-20° tca. These veins range from 1-2 mm to 1-2 cm wide.										
	469.55 - 469.65	3-5% patchy, pyrite mineralization adjacent to a weak hairline slip @ 50° tca.	2240	469.50	470.00	0.50		1-2	1		3.22	
	469.65 - 470.00	Graywacke carries 1% disseminated pyrite.										
	470.15 - 470.80	Quartz + albite + pyrite (1-2%) ± galena vein @ 10° tca. 1.5 cm wide, grey quartz breccia vein with angular quartz breccia fragments to 0.5 cm within vein. Pyrite occurs on small hairline fractures extending into adjacent wall rock. Vein boundary is a blue-grey, pyrite ± galena mix, up to 1-2 mm wide.	2241	470.00	471.00	1.00		1-2	2-3	Gal.	15.64	15.70
			2242	471.00	472.00	1.00		Tr.-1			2.57	
			2243	472.00	473.00	1.00		Tr.-1	1		1.85	
	473.20 - 473.85	5% grey-white quartz stringer (stockwork) zone within moderately sericitized pebbly graywacke. Section contain 1-2% patchy blebby pyrite and small, 1 mm wide, pyritic bands. Vein material is somewhat barren of pyrite but contains 0.5% small pyritic patches.	2244	473.00	473.50	0.50		1-2	3		7.06	
			2245	473.50	474.00	0.50		1-2	3-5		10.31	
			2246	474.00	475.00	1.00		Tr.			1.61	
			2247	475.00	476.00	1.00		Tr.			2.81	
			2248	476.00	477.00	1.00		Tr.			0.27	
			2249	477.00	478.00	1.00		Tr.	1		1.85	
			2250	478.00	478.60	0.60		Tr.			0.41	
			2251	478.60	479.20	0.60		Tr.			0.38	
	479.20 - 480.10	Quartz + pyrite breccia veining (stockwork) 5-10% irregular blue-grey to white brecciated quartz intruding moderately well foliated sericitic pebbly graywacke. Breccia veins have strong internal fracturing which contain 1-3% fine grained pyrite.	2252	479.20	479.60	0.40		1-2	2-3	25	9.67	
			2253	479.60	480.10	0.50		2-3	5-7	25	8.81	
			2254	480.10	480.80	0.70		Tr.	Tr.		1.47	

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

HOLE: AK-92-39A

PAGE: 18 of 20

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

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

HOLE: AK-92-40

PAGE: 1 of 19

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

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

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

COMMENTS "102" / "103" structure @ 607.80 - 641.90, 34.1 m.

SIGNED BY


(W. Benham)

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 5.20	OVERBURDEN		357.10 - 360.25 Quartz + calcite + pyrite veins @ 45° tca. Trace pyrite. Silicified and sheared mudstone.	607.80 608.70	0.90	9.47
5.20 34.60	GRAYWACKE					
34.60 45.00	CONGLOMERATE					
45.00 68.60	LAPILLI TUFF	360.25 371.25	CONGLOMERATE			
68.60 83.80	GRAYWACKE		366.60 - 366.90 Fault @ 15° tca.			
83.80 118.00	LAPILLI TUFF	371.25 375.40	GRAYWACKE/SILTSTONE			
	83.80 - 84.00 Fault breccia.		371.25 - 372.00 Silicified graywacke. Sheared @ 30° tca. Trace pyrite.			
	92.70 Fault @ 45° tca.					
118.00 125.90	GRAYWACKE	375.40 392.00	CONGLOMERATE			
125.90 126.75	MUDSTONE/SILTSTONE	392.00 414.00	LAPILLI TUFF			
126.75 133.10	CONGLOMERATE	414.00 492.00	CONGLOMERATE			
	132.75 - 133.10 Fault zone @ 25° tca.		491.60 - 492.00 Fault @ 15° tca.			
133.10 138.85	GRAYWACKE	492.00 551.00	LAPILLI TUFF			
138.85 294.60	CONGLOMERATE		517.00 - 517.30 Fault @ 15° tca.			
	195.20 Fault @ 30° tca.	551.00 579.30	LAPILLI TUFF			
	293.00 Fault @ 40° tca.		Sericitic.			
294.60 327.70	GRAYWACKE/SILTSTONE/CONGLOMERATE	579.30 594.70	LAPILLI TUFF			
	303.70 - 303.95 Fault @ 10° tca.		Hematitic.			
	309.00 - 309.20 Fault @ 65° tca.	594.70 603.50	LAPILLI TUFF			
327.70 356.80	CONGLOMERATE		Sericitic.			
	355.50 - 355.70 Fault @ 25° tca.	603.50 606.00	MUDSTONE/GRAYWACKE			
356.80 360.25	GRAYWACKE/SILTSTONE/MUDSTONE	606.00 608.50	CONGLOMERATE			

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

HOLE: AK-92-40

PAGE: 2 of 19

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

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

COMMENTS "102" / "103" structure @ 607.80 - 641.90, 34.1 m.

SIGNED BY

(W. Benham)

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

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

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

HOLE: AK-92-40

PAGE: 8 of 19

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
133.10	138.85	<p>GRAYWACKE Massive to weakly bedded @ 30-40° tca. Very fine grained, well sorted, light green graywacke. Weak to moderate pervasive, spotty sericitization. Intercalated with minor laminated mudstone. Lower contact is sharp but irregular.</p> <p>133.10 - 133.70 Unit is fractured to pseudo-brecciated (in- situ) by numerous chloritic fractures and slips associated with previous fault.</p> <p>136.45 - 136.65 Fault @ 15° tca. Chlorite + sericite + quartz. Strong rubbly broken shear with slickenslides developed on chloritic faces. Appears to be east side down.</p>										
138.85	294.60	<p>CONGLOMERATE Massive, chloritic, pristine, tightly packed, framework-supported polymictic pebble conglomerate. Unit is in part intercalated with minor graywacke and mudstone horizons up to 1 metre wide.</p> <p>166.20 - 166.30 Fault @ 40° tca. Sericite + chlorite + quartz. 5-6 cm wide, barren grey-white quartz vein with strong internal sericitic suturing and sharp sericite + chlorite slip walls.</p> <p>171.00 Well bedded mudstone @ 15-20° tca.</p> <p>174.15 - 174.60 Fault @ 5-10° tca. Chlorite + sericite + quartz. 2-4 cm wide, strong tight break with 15% fractured, disrupted white quartz.</p> <p>185.00 - 186.70 Fault zone @ 5-25° tca. Chlorite + sericite + quartz. Series of strong irregular quartz + chlorite breccia zones subparallel to core. Interstitial to slips, unit is strongly fractured to brecciated (in-situ) by dark chloritic stringers. Barren, cross-fault.</p> <p>190.00 - 190.60 Fault @ 15° tca. Sericite + chlorite + quartz + albite. Sharp, tight sericite + chlorite slip planes with 15% irregular white quartz veining. Internally veining is fractured by strong chloritic seams, 1-2 mm wide and displays small ladder vein systems (tension filling) of dark grey galena(?) and secondary euhedral pyrite crystals on the small (pseudomorph?) galena clusters.</p>	<p>2305 183.00 184.00 1.00</p> <p>2306 184.00 185.00 1.00</p> <p>2307 185.00 185.50 0.50</p> <p>2308 185.50 186.00 0.50</p> <p>2309 186.00 186.70 0.70</p> <p>2310 186.70 187.50 0.80</p> <p>2311 187.50 188.30 0.80</p> <p>2312 188.30 189.00 0.70</p> <p>2313 189.00 190.00 1.00</p> <p>2314 190.00 190.70 0.70</p> <p>2315 190.70 191.30 0.60</p> <p>2316 191.30 192.00 0.70</p> <p>2317 192.00 192.60 0.60</p> <p>2318 192.60 193.50 0.90</p> <p>2319 193.50 194.50 1.00</p> <p>2320 194.50 195.00 0.50</p>	<p>0.01</p> <p>0.01</p> <p>0.03</p> <p>0.02</p> <p>0.01</p> <p>0.01</p> <p>0.01</p> <p>0.01</p> <p>0.01</p> <p>0.01</p> <p>0.02</p> <p>NIL</p> <p>0.01</p> <p>0.03</p> <p>0.01</p> <p>0.01</p> <p>0.01</p>								

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

HOLE: AK-92-40

PAGE: 13 of 19

INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		479.00										
		Fault @ 15° tca. 3-5 mm wide, strong tight chloritic shear. No wall rock alteration.										
		491.60 - 492.00										
		Strong cross-fault @ 15° tca. Chlorite + sericite + quartz ± calcite. Very strong chlorite + sericite + mud gouge slip planes up to 2 cm wide with a 4-5 cm wide, barren irregular quartz + albite ± calcite, ankerite veining.										
492.00	551.00	LAPILLI TUFF										
		Chloritic ± hematitic ± sericitic lapilli tuff. Unit is dark grey-green to purple where hematitic. Massive to very weakly foliated. Comprised of 5-15% angular lapilli clasts from 2-3 mm to 8 cm (avg. 2-3 cm) in size, floating in a very fine grained dark ash matrix. Clasts consist of 85% red-brown, fine grained trachyte, 10% dark green aphanitic volcanics and 5% miscellaneous clasts (trachytes). Unit is typically moderately bleached sericitic proximal to tight sericitic slips which gives the tuffs an overall mottled irregular appearance as they grade from chloritic to hematitic to sericitic. Lower contact somewhat subjective and gradational.										
		492.00 - 492.60										
		Strongly deformed, crushed lapilli tuff with numerous tight sericitic slips throughout.										
		492.60										
		3 mm wide, strong chloritic gouge break @ 15° tca.										
		505.80										
		Tight sericitic slip @ 20° tca. Lapilli tuff is moderately sericitic up to 15 cm from slip.										
		513.60 - 513.70										
		Fault @ 60° tca. Sericite + chlorite + quartz. Moderately strong sericitic + chloritic slips with 25% pink-brown quartz veining with strong internal sericitic suturing.										
		517.00 - 517.30										
		Fault @ 15° tca. Chlorite + sericite. moderately strong, tight break with 2 mm mud gouge + rock fragments slip.										
		517.80										
		Tight, 3-4 mm wide, chloritic shear @ 5-10° tca.										
		518.50										
		Fault @ 15° tca. Tight, strong sericite + chlorite slips with minor barren quartz veinlets.										
		513.00 - 522.00										
		Lapilli tuff displays patchy, irregular bleaching and sericitization related to above faulting. Gradually grades to red-brown-purple, hematitic tuffs.										
		531.90										
		Fault @ 70° tca. Chlorite + sericite + quartz. Very tight slip with 0.5 cm wide, milk-white quartz veinlet.										
		539.50 - 548.00										
		Unit displays a weak to moderate pervasive to patchy sericitization and contains minor tight sericite slips and < 1% barren, white quartz ± albite veinlets up to 2 cm wide. No strong prominent breaks are evident.										

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

HOLE: AK-92-40

PAGE: 14 of 19

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

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

HOLE: AK-92-40

PAGE: 15 of 19

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
603.50	606.00	MUDSTONE/GRAYWACKE Pristine, finely intercalated graywacke, mudstone. Mudstone beds are very irregular and in places are evidently ripped up into the graywacke horizons. Minor spotty sericite evident within graywackes.	2381	603.50	604.00	0.50					0.01	
			2382	604.00	605.00	1.00					0.01	
			2383	605.00	606.00	1.00					0.01	
606.00	608.50	CONGLOMERATE Pristine, massive polymictic pebble conglomerate. Comprised of 15-25% rounded polymictic pebbles, up to 10 cm wide, in a weakly sericitic graywacke matrix. Graywacke matrix shows some evidence of weak to moderately strong internal fracturing or crenulation with irregular wispy sericite. 607.90 - 608.25 Trace spotty pyrite in matrix and some selective clast replacement. 608.25 - 608.50 Quartz+ pyrite breccia vein @ 30° tca. Strong, sharp sericitic slip boundaries. Vein is dark blue-grey, brecciated quartz with strong internal fabric @ 30° which appears to be quartz + chlorite ± molybdenite smeared on tight hairline sutures. 1-3% pyrite occurs as small subhedral crystals and blebs on these hairline cracks. Remnant graywacke material especially jasper still evident within quartz flooding. Vein marks contact with lapilli tuff.	2384	606.00	607.00	1.00					0.01	
			2385	607.00	607.80	0.80					0.06	
			2386	607.80	608.70	0.90		1-3	20	10-15	Mo. Ch.	8.66
608.50	617.40	LAPILLI TUFF Massive, light green with 5-10% angular black chloritic, lapilli clasts, up to 3-4 cm wide, (avg. 0.5-1 cm), floating in a very fine grained pervasively sericitized, bleached matrix. Very minor spotty sub-euhedral pyrite evident in matrix. Lower contact marked by a 3 cm wide, chlorite + quartz fault @ 45° tca. 608.50 - 608.70 2-3% pyrite associated with narrow, blue-grey quartz breccia veinlets @ 30° tca, ≤ 0.5 cm wide, and minor spotty pyrite on irregular sericitic foliation. Mineralization dies rapidly at end of strongly foliated zone.	2387	608.70	609.20	0.50		Tr.	Tr.	10-20	0.05	
			2388	609.20	610.00	0.80		Tr.	Tr.	10-20	0.01	
			2389	610.00	611.00	1.00				10-20	0.01	
			2390	611.00	612.00	1.00				10-20	0.02	
			2391	612.00	613.00	1.00				10-20	0.01	
			2392	613.00	614.00	1.00		Tr.		10-20	0.01	
			2393	614.00	615.00	1.00		Tr.	Tr.	10-20	0.01	
2394	615.00	616.00	1.00		Tr.	Tr.	10-20	NIL				

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

HOLE: AK-92-40

PAGE: 16 of 19

INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
617.40	621.70	MUDSTONE/SILTSTONE Massive to finely laminated, light to dark green finely intercalated mudstone, siltstone. Bedding is quite variable and contorted from 0-45° tca. Moderate foliation developed @ 45° tca with sharp sericitic slips throughout. Very minor scattered pyrite in the form of small clots and semi-massive pyrite blebs. Lower contact is a sharp, chlorite + sericite shear @ 50° tca with minor barren, white quartz veinlets to 2-3 mm wide.	2395	616.00	616.70	0.70		Tr.	Tr.	10-20		NIL
			2396	616.70	617.30	0.60		Tr.	Tr.	10-20		NIL
			2397	617.30	617.80	0.50		Tr.	1-2			0.02
			2398	617.80	618.40	0.60						0.02
			2399	618.40	619.00	0.60						0.01
			2400	619.00	620.00	1.00		Tr.	1	5-10		0.01
			2401	620.00	621.00	1.00		Tr.	Tr.	5-10		0.01
621.70	639.60	LAPILLI TUFF Chloritic + sericitic and hematitic, massive to moderately well foliated with prominent clast elongation @ 45° tca. Quite variable in colour but is comprised of 10-15% angular heterolithic lapilli clasts, from 2-3 mm to 8 cm wide, in a very fine grained ash matrix. Clasts are 75% fine grained to spotted red-brown trachyte, 20% dark green and 5% light grey to buff coloured. Lower contact of unit is somewhat gradational over 0.5 metres. 621.70 - 623.00 Moderately sericitized and mottled in appearance with a few sericite + quartz slips. 622.90 1 cm wide, strong quartz + sericite slip @ 70° tca. 623.00 - 626.00 Unit grades to a red-brown, hematitic equivalent of tuff from 621.70 - 623.00. 625.15 Tight sericitic shear @ 55° tca. 625.15 - 625.60 Series of en echelon extensional ladder veins (sigmoidal) of barren quartz + albite. 625.00 - 633.50 Unit carries 3-5%, irregular barren quartz + albite veining, up to 2 cm wide. Multi-generational, crosscutting vein system within weakly sericitic to chloritic lapilli tuff. 634.00 - 634.30 1-3 mm, tight, chlorite slip @ 10° tca.	2402	621.00	621.70	0.70		Tr.	1	5-10		0.01
			2403	621.70	622.20	0.50		Tr.	Tr.	10		0.01
			2404	622.20	623.00	0.80		Tr.	Tr.	10		0.01
			2405	623.00	624.00	1.00						NIL
			2406	624.00	624.90	0.90			Tr.			NIL
			2407	624.90	625.60	0.70			3-4	5		NIL
			2408	625.60	626.10	0.50			1-2	3-5		NIL
			2409	626.10	627.00	0.90			2-3	5		0.02
			2410	627.00	628.00	1.00			1-2	5		0.01
			2411	628.00	629.00	1.00			2-3	5-7		0.01
			2412	629.00	630.00	1.00			2-3	5-7		NIL
			2413	630.00	631.00	1.00			1-2	5		NIL
			2414	631.00	632.00	1.00			3-5	5-10		0.01
			2415	632.00	633.00	1.00			1-2	5-10		NIL
			2416	633.00	633.50	0.50			1-2	3-5		NIL
2417	633.50	634.00	0.50			Tr.	Tr.	Hem	0.01			
2418	634.00	635.00	1.00					Hem	NIL			
2419	635.00	636.00	1.00					Hem	NIL			
2420	636.00	637.00	1.00					Hem	0.01			
2421	637.00	637.50	0.50					Hem	NIL			
2422	637.50	638.50	1.00				5-10		NIL			

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

HOLE: AK-92-40

PAGE: 17 of 19

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

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

HOLE: AK-92-40

PAGE: 18 of 19

INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		668.10	Fault @ 15° tca. Sericite + chlorite. Tight, strong slip with weak to moderate gouge development. Minor, barren quartz stringers and pods proximal to slip.		2445	689.00	690.00	1.00				0.02
					2446	690.00	691.00	1.00				0.01
		691.90 - 692.20	Quartz + sericite vein @ 30° tca. Grey-white, fractured quartz vein with irregular sericite internally. Upper contact is a 1 mm wide, blue-grey, mud gouge slip possibly with smeared sulphides otherwise vein is barren.		2447	691.00	691.90	0.90		Tr.		0.01
			Quartz breccia vein. White angular fragmented quartz clasts up to 3 cm wide, in a grey-green, quartz ± chlorite matrix. Lower contact is also a tight sericite slip with a 0.5 cm wide, white quartz + albite vein with minor spotty pyrite + chalcopyrite. No visible wall rock mineralization.		2448	691.90	692.40	0.50		Tr. 50 10-15 Cpy		0.01
		692.20 - 692.35	Quartz breccia vein. White angular fragmented quartz clasts up to 3 cm wide, in a grey-green, quartz ± chlorite matrix. Lower contact is also a tight sericite slip with a 0.5 cm wide, white quartz + albite vein with minor spotty pyrite + chalcopyrite. No visible wall rock mineralization.		2449	692.40	693.00	0.60				0.01
		692.35 - 716.40	Massive, pristine, undeformed.		2450	693.00	694.00	1.00				NIL
					2459	694.00	695.00	1.00				0.01
		702.30 - 702.40	Fault @ 50° tca. Sericite + quartz + calcite. 10 cm wide, vuggy, pink quartz + calcite vein bounded by sharp, tight sericite + mud slip planes.									
715.00	716.40	CONGLOMERATE Unit grades from fine grained graywacke to a pristine polymictic pebble conglomerate.										
	716.40	E. O. H.										
		<u>Additional Assays</u>										
		<u>Sample No.</u>	<u>Pb (ppm)</u>	<u>Zn (ppm)</u>	<u>Te (ppm)</u>							
		2386	134	111	1							

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

HOLE: AK-92-41

PAGE: 1 of 18

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

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

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

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

SIGNED BY


(W. Benham)

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 4.10	CASING					
4.10 22.40	BLOCK TUFF			810.00 811.00	1.00	0.19
22.40 30.20	ASH TUFF					
30.20 54.80	CONGLOMERATE	525.00 580.70	441.00 - 451.20 Trace pyrite, galena. Quartz + albite stockwork. Trace pyrite, galena.	826.00 827.00	1.00	0.14
	54.60 - 54.80 Fault breccia @ 35° tca.	580.70 606.00	CONGLOMERATE/ASH TUFF			
54.80 56.80	SYENITE PORPHYRY		LAPILLI TUFF			
56.80 57.50	ASH TUFF	606.00 627.90	Chloritic.			
	57.10 - 57.50 Fault zone @ 50° tca.	627.90 702.70	LAPILLI TUFF/GRAYWACKE/CONGLOMERATE			
57.50 63.90	CONGLOMERATE		CONGLOMERATE			
	Sheared @ 35-45° tca.		689.40 - 689.50 Fault @ 60° tca.			
63.90 68.00	LAPILLI TUFF	702.70 760.00	694.20 - 694.30 Fault @ 45° tca.			
	Altered, hematitic.		700.00 - 702.70 Sheared @ 45° tca.			
68.00 94.30	ASH TUFF		ASH/LAPILLI TUFF			
94.30 134.50	LAPILLI TUFF/ASH TUFF		702.70 - 710.00 Chloritic fractures, foliated @ 40° tca.			
134.50 174.30	ASH TUFF		703.20 - 703.30 Fault @ 40° tca.			
174.30 199.40	LAPILLI TUFF		743.35 - 744.45 Fault @ 45-50° tca.			
199.40 204.50	MUDSTONE/SILTSTONE/GRAYWACKE/LAPILLI TUFF		754.80 - 756.40 Sericitic foliated zone @ 30° tca.			
			756.40 - 757.00 Deformed, silicified zone, 5-7% quartz veins, trace pyrite.			
204.50 305.00	GRAYWACKE/CONGLOMERATE		LAPILLI TUFF/GRAYWACKE/SILTSTONE			
305.00 336.40	ASH TUFF	760.00 771.00	Locally mottled, sericitic and bleached.			
336.40 525.00	CONGLOMERATE		CONGLOMERATE			
	377.50 - 385.30 Quartz + albite stockwork.	771.00 791.30				

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

HOLE: AK-92-41

PAGE: 2 of 18

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

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

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

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

SIGNED BY _____
(W. Benham)

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

BATTLE MOUNTAIN (CANADA) INC. DIAMOND DRILL LOG

HOLE: AK-92-41

PAGE: 3 of 18

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

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

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

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

SIGNED BY _____
(W. Benham)

SUMMARY LOG

ASSAY SUMMARY

INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t																																																																																																																				
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr><td>Collar</td><td>Compass</td><td>341</td><td>75</td></tr> <tr><td>11.0</td><td>Sperry Sun</td><td>354(?)</td><td>74.5</td></tr> <tr><td>56.5</td><td>Sperry Sun</td><td>354(?)</td><td>74</td></tr> <tr><td>154.0</td><td>Sperry Sun</td><td>190(?)</td><td>71</td></tr> <tr><td>215.0</td><td>Sperry Sun</td><td>352(?)</td><td>73</td></tr> <tr><td>305.0</td><td>Sperry Sun</td><td>349</td><td>72</td></tr> <tr><td>382.0</td><td>Sperry Sun</td><td>353</td><td>72</td></tr> <tr><td>437.0</td><td>Sperry Sun</td><td>349</td><td>72</td></tr> <tr><td>500.0</td><td>Sperry Sun</td><td>349</td><td>71.5</td></tr> <tr><td>541.0</td><td>Sperry Sun</td><td>348</td><td>71</td></tr> <tr><td>602.0</td><td>Sperry Sun</td><td>351</td><td>70</td></tr> </tbody> </table>	Depth	Method	Azimuth	Dip	Collar	Compass	341	75	11.0	Sperry Sun	354(?)	74.5	56.5	Sperry Sun	354(?)	74	154.0	Sperry Sun	190(?)	71	215.0	Sperry Sun	352(?)	73	305.0	Sperry Sun	349	72	382.0	Sperry Sun	353	72	437.0	Sperry Sun	349	72	500.0	Sperry Sun	349	71.5	541.0	Sperry Sun	348	71	602.0	Sperry Sun	351	70		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr><td>672.0</td><td>Sperry Sun</td><td>347</td><td>69</td></tr> <tr><td>703.0</td><td>Sperry Sun</td><td>347</td><td>68</td></tr> <tr><td>745.0</td><td>Sperry Sun</td><td>349</td><td>66</td></tr> <tr><td>809.0</td><td>Sperry Sun</td><td>350</td><td>64</td></tr> <tr><td>849.0</td><td>Sperry Sun</td><td>347</td><td>63.5</td></tr> <tr><td>895.0</td><td>Sperry Sun</td><td>347</td><td>63</td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Depth	Method	Azimuth	Dip	672.0	Sperry Sun	347	69	703.0	Sperry Sun	347	68	745.0	Sperry Sun	349	66	809.0	Sperry Sun	350	64	849.0	Sperry Sun	347	63.5	895.0	Sperry Sun	347	63																																											
Depth	Method	Azimuth	Dip																																																																																																																							
Collar	Compass	341	75																																																																																																																							
11.0	Sperry Sun	354(?)	74.5																																																																																																																							
56.5	Sperry Sun	354(?)	74																																																																																																																							
154.0	Sperry Sun	190(?)	71																																																																																																																							
215.0	Sperry Sun	352(?)	73																																																																																																																							
305.0	Sperry Sun	349	72																																																																																																																							
382.0	Sperry Sun	353	72																																																																																																																							
437.0	Sperry Sun	349	72																																																																																																																							
500.0	Sperry Sun	349	71.5																																																																																																																							
541.0	Sperry Sun	348	71																																																																																																																							
602.0	Sperry Sun	351	70																																																																																																																							
Depth	Method	Azimuth	Dip																																																																																																																							
672.0	Sperry Sun	347	69																																																																																																																							
703.0	Sperry Sun	347	68																																																																																																																							
745.0	Sperry Sun	349	66																																																																																																																							
809.0	Sperry Sun	350	64																																																																																																																							
849.0	Sperry Sun	347	63.5																																																																																																																							
895.0	Sperry Sun	347	63																																																																																																																							

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

HOLE: AK-92-41

PAGE: 5 of 18

INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		45.10 - 45.40										
		Fault @ 30° tca. Chlorite + quartz + ankerite. Irregular, 10-12 cm wide, barren quartz + ankerite vein bounded by 1 mm wide sharp tight chlorite slip planes.										
		50.85 - 50.90										
		Fault @ 35° tca. Chlorite + quartz + albite. Sharp tight chlorite slip at 50.9 m. Irregular, milk-white to grey, quartz + albite veining with strong internal chloritic suturing.	2460	52.00	53.00	1.00	95				0.03	
			2461	53.00	53.50	0.50					0.01	
			2462	53.50	54.00	0.50					0.01	
		54.60 - 54.80	2463	54.00	54.80	0.80			3-5	Chl.	NIL	
		Strong fault breccia @ 35° tca. Chlorite + quartz + ankerite. Very strong chloritic shear to fault breccia with broken angular quartz and rusty ankeritic stained rock fragments, up to 1 cm wide, in a dark chloritic groundmass.										
54.80	56.80	SYENITE PORPHYRY										
		Massive, dark brick-red syenite comprised of 5-7% subhedral plagioclase laths, up to 0.50 cm wide, floating in an aphanitic red groundmass. Phenocrysts are typically dusted with a red hematitic coating. Unit is cut by 2-3% quartz stockworking veinlets up to 0.50 cm wide. Moderately magnetic (possibly trachytic?) Lower contact somewhat obscured and irregular, possibly bedding parallel @ 40° tca.	2464	54.80	55.80	1.00			2-3		0.01	
			2465	55.80	56.80	1.00			2-3		NIL	
56.80	57.10	ASH TUFF										
		Dark green to buff-brown, fine to medium grained ash tuff cut by 2-3% irregular quartz + ankerite veinlets.	2466	56.80	57.60	0.80	90		5-10	Chl.	NIL	
57.10	57.50	FAULT ZONE @ 50° TCA.										
		Chlorite + quartz + ankerite. Broken rubbly section with strong chloritic shearing and slips. 10-15% irregular quartz + ankerite veining. Barren, non-mineralized.										
57.50	63.90	CONGLOMERATE										
		Strongly foliated to sheared @ 35-45° tca, polymictic pebble conglomerate. Highly chloritic with numerous tight chloritic slips throughout. Matrix is notably foliated to crenulated. Contains 3-4% barren, irregular white quartz ± albite veins, up to 2-3 cm wide.	2467	57.60	58.40	0.80			2-3		0.01	
			2468	58.40	59.00	0.60			1-2		NIL	
			2469	59.00	60.00	1.00			2-3		0.01	
			2470	60.00	61.00	1.00			3-4		0.01	
			2471	61.00	62.00	1.00			2-3		NIL	
			2472	62.00	63.00	1.00			1-2		0.02	
			2473	63.00	63.90	0.90			1-2		NIL	

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

HOLE: AK-92-41

PAGE: 7 of 18

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

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

HOLE: AK-92-41

PAGE: 8 of 18

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check		
199.40	204.50	sharp chlorite + sericite shears with barren quartz + albite veinlets, up to 5 cm wide. Dry, barren shear.	2485	195.70	196.40	0.70			2-3	Tr.	0.01			
			2486	196.40	197.00	0.60			1		NIL			
			2487	197.00	198.00	1.00					NIL			
			2488	198.00	198.90	0.90					NIL			
			2489	198.90	199.40	0.50			Tr.-1		10-20	NIL		
199.40	203.10	MUDSTONE/SILTSTONE/GRAYWACKE/LAPILLI TUFF Massive to finely laminated and well bedded @ 55° tca. Lower contact gradational over 1 metre.	2490	199.40	200.00	0.60			Tr.		0.01			
			2491	200.00	201.00	1.00				Tr.	0.01			
			2492	201.00	202.00	1.00					0.01			
			2493	202.00	203.00	1.00					0.01			
			2494	203.00	203.80	0.80			Tr.	Tr.	3-4	0.01		
			2495	203.80	204.50	0.70						NIL		
			2490	199.40	200.00	0.60						0.01		
			2491	200.00	201.00	1.00						0.01		
			2492	201.00	202.00	1.00						0.01		
			2493	202.00	203.00	1.00						0.01		
204.50	305.00	GRAYWACKE Massive to poorly bedded, fine grained, light to dark grey-green. Occasionally carries dispersed angular mudstone chips and locally grades to pebbly graywacke/conglomerate. Lower contact of unit is gradational over 1-2 metres.	2496	204.50	205.00	0.50					1-2	0.01		
			2497	205.00	206.00	1.00			Tr.	2-3	2-3	NIL		
			2498	206.00	206.50	0.50			Tr.	2-3	2-4	NIL		
			2499	206.50	207.00	0.50					Tr.	1-2	0.01	
			2500	207.00	208.00	1.00			Tr.	1	2-3	0.01		
			3001	208.00	209.00	1.00					1	1-2	NIL	
			3002	209.00	210.00	1.00			Tr.	1	2-3	0.08		
			3003	210.00	211.00	1.00					1	1-2	0.01	
			3004	211.00	212.00	1.00					1	1-2	0.01	
			3005	212.00	212.50	0.50			Tr.	2-3	2-4	NIL		
			3006	212.50	213.00	0.50					Tr.	1-2	0.01	
			3007	213.00	214.00	1.00			Tr.	1	2-3	NIL		
			3008	214.00	215.00	1.00					1	1-2	0.01	
			3009	225.00	226.00	1.00						3-5 Fuch.	0.01	

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

HOLE: AK-92-41

PAGE: 9 of 18

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check	
		226.20 - 226.40	Foliated sericitized graywacke with 10-15% quartz ± albite veining @ 35° tca. Quartz veins contain minor patchy pyrite and trace blue-grey galena (?) often needle-like to small masses.	3010	226.00	226.50	0.50		Tr.	5	5-10	Gal.	0.01
				3011	226.50	227.00	0.50			Tr.	3-5		0.01
				3012	227.00	227.50	0.50			Tr.	3-5		0.01
				3013	227.50	228.00	0.50		Tr.		3-5		0.02
		227.50 - 227.90	Moderately foliated graywacke @ 20° tca with 3% quartz ± albite veining, up to 2 cm wide, with trace, spotty pyrite.	3014	228.00	229.00	1.00			1	2-3		0.02
				3015	229.00	229.50	0.50		Tr.	1-2	3-5	Gal.	0.01
				3016	229.50	230.00	0.50						0.01
		229.10	2 cm wide quartz + albite + pyrite + galena vein @ 55° tca. Trace pyrite and 0.50% blue-grey galena on hairline fractures within vein and on vein wall.										
		232.40 - 234.90	Polymictic pebble conglomerate horizon. Weakly sericitic, massive with some fuchsitic clasts evident. Gradational contacts.										
		243.50 - 246.90	Massive, undeformed, polymictic pebble conglomerate horizon comprised predominantly of light buff-green mudstone and volcanics which are frequently fuchsitic. Moderate pervasive sericite throughout.										
		246.90 - 247.70	Aphanitic, light green siltstone horizon. Massive, non-bedded, quite soft and sericitic.										
		250.90	Fault @ 20° tca. Sericite + chlorite + quartz + albite. Sharp, tight sericitic slip with irregular barren quartz + albite veining adjacent to slip wall.										
		258.00 - 261.00	Graywackes are moderately well bedded @ 30° tca. Marked by 1-3 mm wide, primary pyrite bands.										
		271.25	Fault @ 55° tca. Chlorite + sericite + quartz. 2 cm wide, quartz + chlorite breccia vein with white, angular quartz fragments floating in a dark chloritic groundmass bounded by tight chloritic slips. Non-mineralized.										
305.00	336.40	ASH TUFF Massive, fine to very fine grained ash tuff. Dark grey-green to green-brown. Undeformed, unaltered, non-descript. Mixed unit which contains a few minor lapilli clasts and sedimentary clasts of aphanitic mudstone. Pervasive, moderate magnetics.											
		325.00 - 336.40	Mixed zone of intercalated ash tuff, lapilli tuff, mudstone and graywacke. Contacts are gradational and somewhat subjective. Pristine.	3017	333.00	334.00	1.00						NIL
				3018	334.00	334.70	0.70						NIL
				3019	334.70	335.50	0.80		Tr.	1-2	5-7		0.01
		334.70 - 336.40	Well foliated to weakly sheared with 5-10% wispy sericitic foliation and 1-2% milk- white quartz + albite veining.	3020	335.50	336.00	0.50			Tr.	5-7		NIL
				3021	336.00	336.50	0.50			Tr.	5-7		0.02

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

HOLE: AK-92-41

PAGE: 10 of 18

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check		
336.40	580.70	CONGLOMERATE Massive, pristine, unaltered polymictic pebble-cobble conglomerate, with a fine grained chloritic graywacke groundmass. Classic jasperoidal Timiskaming conglomerate somewhat variable from clast to matrix supported, poorly sorted, with clasts ranging from 0.50-10+ cm wide, including jasper, quartz, volcanics, sediments and intrusives. Lower contact of unit is a sharp, tight (1-2 mm) sericitic slip @ 40° tca.	3022	336.50	337.00	0.50					0.02			
			3023	337.00	338.00	1.00					0.01			
			3024	366.00	366.80	0.80			Tr.			0.01		
			3025	366.80	367.30	0.50						0.01		
			3026	367.30	367.80	0.50			Tr.	10-15	5-10	0.05		
			3027	367.80	368.30	0.50						0.01		
			3028	368.30	369.00	0.70						NIL		
			3029	377.00	377.50	0.50						0.01		
			3030	377.50	378.20	0.70			Tr.	3	3-5	0.01		
			3031	378.20	379.00	0.80			Tr.	1	1-2	0.01		
			3032	379.00	379.50	0.50			Tr.	7-10	3-5	0.01		
			3033	379.50	380.20	0.70			Tr.	5-7	2-3	0.01		
			3034	380.20	381.00	0.80			Tr.	Tr.	1-2	0.01		
			3035	381.00	382.00	1.00				Tr.		0.01		
			3036	382.00	383.00	1.00			Tr.	1-2	1-2	0.01		
			3037	383.00	383.80	0.80			Tr.	2-3	1-2	0.01		
			3038	383.80	384.50	0.70			Tr.	1-2	1-2	0.01		
			3039	384.50	385.50	1.00			Tr.	1	1	0.09		
			3040	441.00	441.50	0.50					2-3	2-3	0.01	
			3041	441.50	442.00	0.50							0.10	
			3042	442.00	443.00	1.00					Tr.		0.01	
			3043	443.00	444.00	1.00			Tr.	1	Tr.		0.01	
			3044	444.00	445.00	1.00			Tr.	Tr.			NIL	
			3045	445.00	445.60	0.60			Tr.	Tr.			NIL	
			3046	445.60	446.30	0.70			Tr.	2-3	2-3	Gal.	NIL	
			3047	446.30	447.00	0.70				Tr.	2-3		0.11	
			3048	447.00	448.00	1.00			Tr.	1			0.01	
			3049	448.00	448.60	0.60			Tr.	2-3	2-3	Gal.	0.01	
			3050	448.60	449.50	0.90			Tr.	1-2	1-2		0.02	

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

HOLE: AK-92-41

PAGE: 11 of 18

INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
			3051	449.50	450.00	0.50			Tr.		0.01	
			3052	450.00	451.00	1.00		Tr.	1	1-2	0.03	
			3053	451.00	451.50	0.50			Tr.		0.01	
		493.45 - 493.55	Fault @ 70° tca. Chlorite + sericite + quartz ± calcite. Moderately strong, schistose zone with 1-3% white quartz + calcite veinlets and pods within a chlorite + sericite schist.									
		503.00	Fault @ 30° tca. Chlorite + sericite + quartz ± calcite. 2-3 cm wide, white-pink laminated quartz ± calcite vein, with strong internal chlorite slip. Barren.									
		508.70 - 509.40	Fault @ 0-10° tca. Chlorite ± quartz + calcite. Strong, tight irregular chlorite slip with 0.50-2 cm wide, white-pink quartz + calcite vein on slip wall.									
		525.00 - 560.00	Unit becomes quite dark and contains more volcanic trachyte-type clasts and the matrix becomes less quartz-rich and more ash-rich. This section therefore displays patchy strong magnetics.									
		571.30 - 571.70	3-5 cm wide, white-pink quartz ± albite vein with internal sericite lamellae @ 15° tca. Barren, non-mineralized.									
		573.80 - 573.90	Fault @ 35° tca. Chlorite ± quartz. 1-3 mm wide, strong, tight chlorite mud gouge slip with minor quartz pods and stringers adjacent to slip. Unit is moderately well foliated from 563.2 to 574.8 meters.									
580.70	627.90	LAPILLI TUFF	Massive, dark green, quite soft and chloritic, heterolithic lapilli tuff comprised of 5-10% poorly sorted, angular lapilli clasts up to 3-4 cm (avg 1 cm) wide, in a very fine grained, dark green, chloritic ash matrix. Clasts are light grey-green, very fine grained, light buff-grey and pink-red spotted trachytes in decreasing abundance. Unit displays a weak to moderate pervasive hematization.									
		606.00 - 627.90	Facies change zone. Gradual mixing of lapilli tuff with graywacke and polymictic pebble conglomerates. Start seeing well rounded, polymictic pebble clasts scattered within the predominantly lapilli tuff and narrow graywacke/conglomerate horizons up to 1 m wide. All units are massive, undeformed and chloritic.									

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

HOLE: AK-92-41

PAGE: 12 of 18

INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
627.90	702.70	<p>CONGLOMERATE Massive, undeformed, dark chloritic, polymictic pebble-cobble conglomerate. Quite coarse with well rounded clast, up to 25 cm wide, very poorly sorted, tightly packed and framework-supported. Lower contact appears to be sharp @ 45° tca but is somewhat obscured due to deformation and alteration.</p> <p>627.90 - 628.45 Diabase (siltstone?). Massive, very fine grained to aphanitic, dark green and non-magnetic. Upper contact very irregular @ 5-10° tca. Lower contact also somewhat irregular with a 1 cm wide calcite vein.</p> <p>678.50 Fault @ 40° tca. Chlorite + sericite + quartz + calcite. 2 cm wide, white-pink, quartz + calcite veining with internal sericite suturing and bounded by sharp, tight chloritic slips.</p> <p>689.40 - 689.50 Fault @ 60° tca. Chlorite + sericite + quartz + calcite. Strong, broken rubbly section. Moderate to strong mud gouge developed in chlorite slips. 2-3% white-pink, barren quartz + calcite veins up to 1 cm wide.</p> <p>694.20 - 694.30 Fault @ 45° tca. Chlorite + sericite + quartz + calcite. 4 cm wide, grey-white, barren quartz + calcite vein with strong, internal sericitic lamellae. Bounded by sharp tight chlorite + sericite slips with weak to moderate gouge developed.</p> <p>700.00 - 702.70 Conglomerates are moderately well foliated and contain numerous, strong, tight (1-2 mm) chlorite slip planes and 1-2 cm wide, sericitic, schistose zones @ 45° tca.</p>										
702.70	771.00	<p>ASH/LAPILLI TUFF Chlorite + sericite ± hematite. Unit is quite variable and inhomogeneous. Ranges from very fine grained ash to tuff to lapilli tuff with 3-5% scattered lapilli clasts. Colour varies from light green to brown to purple, due to an overall patchy sericite alteration. Unit contains 2-3% white, barren quartz + calcite veins from 1 mm to 2 cm wide at various core angles. Frequently the unit is bleached and light brown proximal to these veinlets.</p> <p>702.70 - 710.00 Massive to locally moderately foliated and displays a strong "crack and seal" texture with fracturing infilled by dark green chlorite. These fractures are hairline to 3 mm wide at multiple core angles. Interstitial to these cracks,</p>	3054	699.00	700.00	1.00					0.01	
			3055	700.00	701.00	1.00					0.01	
			3056	701.00	702.00	1.00					0.02	
			3057	702.00	702.70	0.70					0.02	
			3058	702.70	703.50	0.80					0.01	
			3059	703.50	704.00	0.50					NIL	
			3060	704.00	705.00	1.00					NIL	
			3061	705.00	706.00	1.00					NIL	

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

HOLE: AK-92-41

PAGE: 13 of 18

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

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

HOLE: AK-92-41

PAGE: 14 of 18

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		760.00 - 771.00	Unit is partly interdigitated with narrow graywacke and siltstone horizons and lapilli tuffs gradually grade to polymictic pebble conglomerates.	3088	760.00	761.00	1.00			1-2		0.01
				3089	761.00	762.00	1.00			1-2		0.01
		762.55 - 763.00	Massive, dark green, aphanitic siltstone horizon. Upper contact sharp and irregular, lower contact is somewhat gradational.	3090	762.00	762.50	0.50			1	1-2	0.01
				3091	762.50	763.00	0.50			Tr.		0.01
				3092	763.00	764.00	1.00			1		0.02
				3093	764.00	765.00	1.00			1-2	3-5	NIL
		765.70	Fault @ 65° tca. Chlorite + sericite ± quartz + calcite. Tight, strong fault slip with minor, narrow quartz veinlets. Wall rock is fractured and sericitic from 765.15 to 765.90 meters.	3094	765.00	766.00	1.00			2-3	5-10	NIL
		766.40 - 767.00	Graywacke horizon with banded (primary?) pyrite up to 0.50 cm wide, @ 40° tca. Very irregular contacts.	3095	766.00	767.00	1.00		2	Tr.	2-3	0.02
				3096	767.00	768.00	1.00			Tr.		0.01
		768.60	Fault @ 35° tca. Sericite + chlorite. Sharp, tight strong slip plane. Wall rock is crenulated with wispy sericite, minor quartz veinlets to 0.50 cm wide and trace disseminated pyrite.	3097	768.00	769.00	1.00		Tr.	2	2-3	0.02
				3098	769.00	770.00	1.00			1-2	2-3	NIL
				3099	770.00	771.00	1.00			1		NIL
771.00	791.30	CONGLOMERATE										
		Chloritic, massive, pristine, grey-green polymictic pebble conglomerate comprised of 25% well rounded to sub-angular clasts from 1-8 cm wide. Very poorly sorted, matrix to framework supported. Matrix is very quartz-poor with patchy strong magnetics and it may actually be more tuffaceous than sedimentary (graywacke), tuffaceous conglomerate. May still represent gradational zone from pure trachyte tuff to sediments. Lower contact of unit is gradational over 10-15 cm.										
				3100	771.00	772.00	1.00			1	2-3	0.01
				3101	772.00	773.00	1.00					0.01
				3102	773.00	774.00	1.00					0.01
				3103	774.00	775.00	1.00					NIL
				3104	775.00	776.00	1.00					NIL
				3105	776.00	777.00	1.00					NIL
		777.40	Fault @ 40° tca. Chlorite + sericite ± quartz + calcite. 2-3 mm wide, sharp tight slip with a 1-2 mm wide brecciated quartz + calcite veinlet adjacent to slip.	3106	777.00	778.00	1.00					0.01
				3107	778.00	779.00	1.00					NIL
				3108	779.00	780.00	1.00					NIL
				3109	780.00	781.00	1.00					0.01
				3110	781.00	782.00	1.00					NIL
				3111	782.00	783.00	1.00					0.01
				3112	783.00	784.00	1.00					NIL
				3113	784.00	785.00	1.00					0.01
		785.10	Fault @ 65° tca. Chlorite + sericite + quartz. Strong, tight slip with weak gouge developed.	3114	785.00	786.00	1.00		Tr.	2-3	3-5Tr Cpy Gal	0.02
				3115	786.00	787.00	1.00					NIL
		785.05 - 785.20	Strongly foliated with 15-20% barren quartz flooding.	3116	787.00	788.00	1.00					NIL
				3117	788.00	789.00	1.00			1		0.01
				3118	789.00	790.00	1.00					0.01
				3119	790.00	791.00	1.00					0.01

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

HOLE: AK-92-41

PAGE: 15 of 18

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
791.30	806.00	GRAYWACKE Weakly altered, massive to poorly bedded, light grey-green to yellow, very fine grained graywacke with minor dispersed angular mudstone chips and narrow siltstone horizons, 5-15 cm wide, which define bedding at 30° tca. Patchy zones of sericitic and silicic alteration with 0.5-1.0% finely disseminated pyrite and 1-2% white to dark grey, 2-8 cm wide irregular quartz veins. 799.00 - 800.00 Weakly foliated @ 25-30° tca.	3120	791.00	792.00	1.00						0.01
			3121	792.00	793.00	1.00			8	1-2	Sil	0.01
			3122	793.00	794.00	1.00						0.01
			3123	794.00	795.00	1.00	0.5-1	2-3				0.01
			3124	795.00	796.00	1.00		Tr.	1-2			0.01
			3125	796.00	797.00	1.00						0.01
			3126	797.00	798.00	1.00						0.01
			3127	798.00	799.00	1.00						0.01
			3128	799.00	800.00	1.00			1	1-2		0.01
			3129	800.00	801.00	1.00		0.5		5-10		0.01
			3130	801.00	802.00	1.00		Tr.				0.07
			3131	802.00	803.00	1.00	0.5-1					0.01
			3132	803.00	804.00	1.00	0.5-1					0.02
			3133	804.00	805.00	1.00	0.5-1					0.01
			3134	805.00	806.00	1.00						0.01
806.00	810.00	LAPILLI TUFF Lapilli tuff, light grey-green to buff brown, mottled texture with patchy bleaching. Unit consists of 2-3% subrounded, black-white, salt & pepper textured clasts, up to 7 cm wide, in a fine grained ash matrix. Matrix varies from buff-brown to dark green and displays a patchy sericite alteration which gives unit its overall mottled texture. Section contains 2-3% barren white quartz veins, up to 0.50 cm wide, which frequently display lightly bleached alteration halos up to 5 cm from vein. 806.95 Fault slip @ 55° tca. Sharp, strong, chlorite slip with minor barren quartz veining on slip wall. 808.00 - 809.00 Black, chlorite + quartz, 0.55 mm wide, discontinuous fracture fillings @ 0-5° tca.	3135	806.00	807.00	1.00		Tr.	Tr.	5-10	0.03	
			3136	807.00	808.00	1.00		0.5	1	5-10	0.01	
			3137	808.00	809.00	1.00		0.5	2-3	10-15	NIL	
			3138	809.00	810.00	1.00			Tr.	2-3	0.02	
810.00	916.00	CONGLOMERATE Chloritic, massive, pristine polymictic pebble-cobble conglomerate. Poorly sorted, matrix to framework supported. Weak bedding @ 50° tca. In part interdigitated with narrow graywacke, siltstone and minor lapilli tuff horizons. 813.60 Fault @ 55° tca. Sericite + quartz + calcite ± pyrite. Tight, sharp, sericitic slip with minor smeared pyrite on	3139	810.00	811.00	1.00			1	3-5	0.19	
			3140	811.00	812.00	1.00					0.01	
			3141	812.00	813.00	1.00					0.02	
			3142	813.00	814.00	1.00		Tr.	Tr.	2-3	0.02	
			3143	814.00	815.00	1.00					0.02	

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

HOLE: AK-92-41

PAGE: 16 of 18

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

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

HOLE: AK-92-42


PAGE: 1 of 17

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

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

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

SIGNED BY


(W. Benham)

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.0 1.40	OVERBURDEN	366.00 372.70	CONGLOMERATE	311.00 311.60	0.60	16.67
1.40 39.00	LAPILLI TUFF		Sericitic, foliated @ 40° tca.			
39.00 67.40	LAPILLI TUFF	372.70 376.30	GRAYWACKE/CONGLOMERATE/SILTSTONE	369.00 370.00	1.00	0.20
	Monolithic	376.30 380.30	MUDSTONE/GRAYWACKE			
67.40 72.20	ASH TUFF	380.30 385.90	CONGLOMERATE	399.00 399.50	0.50	0.38
72.20 80.30	LAPILLI TUFF	385.90 390.15	ALTERED TUFF/RED ROCK/SYENITE			
80.30 129.25	LAPILLI TUFF/ASH TUFF/SILTSTONE	390.15 399.00	CONGLOMERATE	432.00 432.70	0.70	1.15
	126.10 Fault @ 50° tca.		Sericitic, foliated @ 40° tca.			
129.25 227.60	GRAYWACKE	399.00 450.10	BLEACHED LAPILLI TUFF	468.00 474.00	6.00	0.23
	136.05 - 136.30 Fault @ 65° tca.		Sericitic, foliated @ 40° tca.			* Note 1
	156.50 - 157.10 Fault @ 15-20° tca.		432.10 - 432.70 Fault @ 55° tca.			
227.60 247.60	CONGLOMERATE		442.00 - 449.95 Fractured zone, chlorite + quartz + pyrite.	505.50 510.00	4.50	0.38
	Foliated @ 30° tca.		449.95 - 450.10 Fault @ 25° tca.			
247.60 287.20	LAPILLI TUFF	450.10 468.00	GRAYWACKE			
	Foliated @ 30° tca. sericitic.		461.15 - 461.30 Shear zone @ 15° tca.			
	282.10 - 282.15 Fault @ 65° tca.		461.30 - 468.00 Fractured zone chlorite + quartz + albite ± pyrite.			
287.20 366.00	GRAYWACKE		466.35 - 466.45 Blue-grey, sericite + pyrite + quartz vein @ 70° tca.			
	300.65 - 300.75 Quartz + albite + pyrite vein.					
	307.60 - 308.10 Shear zone @ 55° tca.					
	310.40 - 312.00 Shear zone @ 55° tca.					
	311.00 - 311.10 Blue-grey pyrite + quartz vein.	468.00 478.70	CONGLOMERATE			
	364.60 - 364.70 Fault @ 40° tca.		Sericitic, foliated @ 40° tca.			

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

HOLE: AK-92-42

PAGE: 2 of 17

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

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

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

SIGNED BY _____
 (W. Benham)

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
478.70 - 480.70	MUDSTONE Sericitic, quartz + chlorite veins.		539.50 - 539.80 Quartz + carbonate granular breccia vein. Trace pyrite, chalcoppyrite and galena.	NOTE 1: No obvious reasons for the low geochemically anomalous gold assays for the interval from 468.0 to 474.0 m were found. Instead anomalous results were expected for the interval from 464.0 to 469.0 m. This section has narrow quartz veins with traces of pyrite and 1-5 mm chlorite + quartz ± pyrite fracture fillings. Since the assays results are very low, the core was not quartered in order to check for a possible error in the sampling of these two intervals.		
480.70 - 483.10	GRAYWACKE 480.70 - 481.00 Silicified zone, quartz + sericite ± pyrite.		546.00 - 549.00 2-3%, 0.5-5 cm wide granular carbonate veins @ 55° tca with trace pyrite chalcoppyrite and galena.			
483.10 - 499.30	CONGLOMERATE GRAYWACKE/MUDSTONE Sericitic, foliated @ 30° tca, 3-4% qtz + albite ± py.		547.50 - 547.95 Carbonate ± quartz + barite(?) vein @ 55° tca with trace chalcoppyrite and 2-3% galena.			
499.30 - 505.00	504.30 - 505.00 Fault @ 35° tca.					
505.00 - 510.00	CONGLOMERATE Sericitic, foliated @ 45° tca, trace pyrite.					
510.00 - 515.60	GRAYWACKE Sericitic. 515.00 - 515.60 Ductile shear @ 35° tca. 1-2% quartz veins, trace pyrite.	556.80	E O H			
515.60 - 556.80	ASH/LAPILLI TUFF 515.60 - 517.00 Weakly to moderately sericitic and fractured. Weakly foliated @ 45° tca. 517.00 - 556.80 Strongly magnetic. 525.75 - 526.15 Quartz + chlorite vein, trace pyrite and chalcoppyrite.					

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

HOLE: AK-92-42

PAGE: 3 of 17

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

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

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

SIGNED BY _____

(W. Benham)

SUMMARY LOG

ASSAY SUMMARY

INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t																																																																																															
	<table border="1"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr> <td>Collar</td> <td>Compass</td> <td>161</td> <td>71</td> </tr> <tr> <td>30.0</td> <td>Acid</td> <td></td> <td>71</td> </tr> <tr> <td>61.0</td> <td>Acid</td> <td></td> <td>71</td> </tr> <tr> <td>91.0</td> <td>Acid</td> <td></td> <td>70</td> </tr> <tr> <td>100.0</td> <td>Sperry Sun</td> <td>152</td> <td>69</td> </tr> <tr> <td>122.0</td> <td>Acid</td> <td></td> <td>70</td> </tr> <tr> <td>152.0</td> <td>Acid</td> <td></td> <td>69</td> </tr> <tr> <td>182.0</td> <td>Acid</td> <td></td> <td>68</td> </tr> <tr> <td>200.0</td> <td>Sperry Sun</td> <td>150</td> <td>66</td> </tr> <tr> <td>213.0</td> <td>Acid</td> <td></td> <td>66</td> </tr> <tr> <td>244.0</td> <td>Acid</td> <td></td> <td>65</td> </tr> </tbody> </table>	Depth	Method	Azimuth	Dip	Collar	Compass	161	71	30.0	Acid		71	61.0	Acid		71	91.0	Acid		70	100.0	Sperry Sun	152	69	122.0	Acid		70	152.0	Acid		69	182.0	Acid		68	200.0	Sperry Sun	150	66	213.0	Acid		66	244.0	Acid		65		<table border="1"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr> <td>275.0</td> <td>Acid</td> <td></td> <td>65</td> </tr> <tr> <td>300.0</td> <td>Sperry Sun</td> <td>145</td> <td>63</td> </tr> <tr> <td>305.0</td> <td>Acid</td> <td></td> <td>63</td> </tr> <tr> <td>335.0</td> <td>Acid</td> <td></td> <td>62</td> </tr> <tr> <td>365.0</td> <td>Acid</td> <td></td> <td>61</td> </tr> <tr> <td>400.0</td> <td>Sperry Sun</td> <td>142</td> <td>58.5</td> </tr> <tr> <td>426.0</td> <td>Acid</td> <td></td> <td>58</td> </tr> <tr> <td>500.0</td> <td>Sperry Sun</td> <td>141</td> <td>55.5</td> </tr> <tr> <td>532.0</td> <td>Sperry Sun</td> <td>147</td> <td>55</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Depth	Method	Azimuth	Dip	275.0	Acid		65	300.0	Sperry Sun	145	63	305.0	Acid		63	335.0	Acid		62	365.0	Acid		61	400.0	Sperry Sun	142	58.5	426.0	Acid		58	500.0	Sperry Sun	141	55.5	532.0	Sperry Sun	147	55										
Depth	Method	Azimuth	Dip																																																																																																		
Collar	Compass	161	71																																																																																																		
30.0	Acid		71																																																																																																		
61.0	Acid		71																																																																																																		
91.0	Acid		70																																																																																																		
100.0	Sperry Sun	152	69																																																																																																		
122.0	Acid		70																																																																																																		
152.0	Acid		69																																																																																																		
182.0	Acid		68																																																																																																		
200.0	Sperry Sun	150	66																																																																																																		
213.0	Acid		66																																																																																																		
244.0	Acid		65																																																																																																		
Depth	Method	Azimuth	Dip																																																																																																		
275.0	Acid		65																																																																																																		
300.0	Sperry Sun	145	63																																																																																																		
305.0	Acid		63																																																																																																		
335.0	Acid		62																																																																																																		
365.0	Acid		61																																																																																																		
400.0	Sperry Sun	142	58.5																																																																																																		
426.0	Acid		58																																																																																																		
500.0	Sperry Sun	141	55.5																																																																																																		
532.0	Sperry Sun	147	55																																																																																																		

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

HOLE: AK-92-42

PAGE: 6 of 17

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

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

HOLE: AK-92-42

PAGE: 8 of 17

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

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

HOLE: AK-92-42

PAGE: 9 of 17

INTERVAL		DESCRIPTION	SAMPLE						ASSAYS					
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check		
287.20	366.00	<p>GRAYWACKE Chlorite. Massive to poorly bedded, fine to very fine grained, light grey-green, predominantly quartz rich (50-60%) graywacke with scattered angular mudstone chips. Weakly to moderately pervasively sericitic with finely disseminated spotty sericite in groundmass and irregular sericitic fractures 1-2 mm wide. Unit contains trace pyrite as finely scattered disseminations and as fine grained primary bands up to 2-3 mm wide.</p> <p>290.50 - 290.80 Series of fine grained pyritic bands, 1-3 mm wide. Primary bedding @ 50° tca.</p> <p>300.65 - 300.75 Quartz ± albite + sericite + pyrite vein. Irregular cream-grey quartz + albite vein with 1-2% fine grained pyrite occurring on 1 mm wide internal sutures and along vein walls.</p> <p>304.60 - 306.30 Irregular tight sericitic slip subparallel tca. At 306.00, this slip truncates an irregular banded pyritic horizon with 3% pyrite across 5 cm (possibly primary pyrite).</p> <p>307.60 - 308.10 Shear zone @ 55° tca. Sericite + quartz ± pyrite. Well foliated to schistose sericitic graywacke with tight strong sericite slips and shears. Section contains 2-3% patchy, irregular, white-brown quartz ± albite veins, stringers and pods up to 1 cm wide. These veins carry trace to 1% fine grained patchy pyrite on vein walls.</p> <p>308.10 - 310.40 Graywacke is moderately well foliated and sericitic with occasional fuchsitic altered fragments evident.</p> <p>310.40 - 312.00 Shear (fault) zone @ 55° tca. Sericite + chlorite + quartz ± pyrite. Moderately to strong deformed sericitic</p>	3217	287.20	288.00	0.80			1-2	2-3	0.02			
			3218	288.00	289.00	1.00			Tr.	2-3	0.02			
			3219	289.00	290.00	1.00					0.01			
			3220	290.00	291.00	1.00			1	Tr.	2-3	0.02		
			3221	291.00	292.00	1.00					0.01			
			3222	292.00	293.00	1.00					0.01			
			3223	293.00	294.00	1.00					0.01			
			3224	294.00	295.00	1.00					NIL			
			3225	295.00	296.00	1.00					0.01			
			3226	296.00	297.00	1.00					0.01			
			3227	297.00	298.00	1.00					0.02			
			3228	298.00	299.00	1.00					0.01			
			3229	299.00	300.00	1.00			1		2-3	0.01		
			3230	300.00	300.50	0.50						0.01		
			3231	300.50	301.00	0.50			1	2-3	3-5	NIL		
			3232	301.00	301.50	0.50			Tr.	2-3	3-5	Gal.	0.01	
			3233	301.50	302.00	0.50						0.01		
			3234	302.00	303.00	1.00						0.01		
			3235	303.00	304.00	1.00					2-3	3-5	NIL	
			3236	304.00	305.00	1.00						0.01		
			3237	305.00	305.80	0.80						0.01		
			3238	305.80	306.50	0.70			1	1-2	3-5	0.01		
			3239	306.50	307.00	0.50						0.01		
			3240	307.00	307.50	0.50						NIL		
			3241	307.50	308.20	0.70				Tr.	2-3	5-7	0.02	
			3242	308.20	309.00	0.80					1-2	3-5	0.01	
			3243	309.00	310.00	1.00					1	3-5	0.02	
			3244	310.00	310.40	0.40					Tr.	3-5	0.01	
3245	310.40	311.00	0.60	95			Tr.	1-2	5-10	0.04				

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

HOLE: AK-92-42

PAGE: 10 of 17

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

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

HOLE: AK-92-42

PAGE: 12 of 17

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
380.30	385.90	CONGLOMERATE Massive, pristine polymictic pebble-cobble conglomerate. Poorly sorted, framework to matrix supported, chloritic groundmass. Clasts of jasper, volcanics, granitoids etc., ranging from 1-2 mm to 10+ cm, are generally well rounded. Lower contact is marked by a sharp, tight (2 mm) chlorite slip @ 55° tca.										
385.90	390.15	ALTERED TUFF/SYENITE/RED ROCK Albitized, massive, fine grained dark red-brown hematitic tuff or syenite "red rock". Very hard. Comprised of 3% fine dark green, subhedral crystals and crystal aggregates from 0.5-2 mm in size. Individual crystals are lath-shaped and may be chloritized amphibole/pyroxene. Groundmass is dark red-brown and aphanitic. Unit also contains 1-2% irregularly shaped masses of milk-white albite(?) up to 0.5 cm wide. Non-mineralized, non-magnetic. Surrounding sediments are unaltered and undeformed. Lower contact marked by a tight, sharp chloritic slip @ 55° tca.										
390.15	399.00	CONGLOMERATE Weakly foliated, weakly to moderately sericitic polymictic pebble conglomerate. Prominent clast elongation @ 40° tca. Unit is predominantly dark green and chloritic. Lower contact is marked by a 0.5 cm wide sericitic shear @ 60° tca.										
		397.20 - 399.00 Light grey-green, moderately sericitic (bleached) and very weakly foliated, pebbly graywacke.	3287	398.00	399.00	1.00			1-2	5-7	0.01	
399.00	450.10	BLEACHED LAPILLI TUFF Massive to weakly foliated with clast elongation @ 40° tca. Comprised of 5-10% angular lapilli clasts from 1-2 mm to 10 cm (avg. 2-3 cm) floating in a very fine grained to aphanitic bleached sericitic matrix which is quite soft. Matrix varies in colour from light green (sericitic) to grey-brown to buff to red-brown. Non-magnetic. Clasts consist of dark green-black, often porphyritic to spotted trachyte and light red-brown fine grained trachyte.	3288	399.00	399.50	0.50			1-2	2-3	0.38	
			3289	399.50	400.00	0.50			Tr.		0.02	
			3290	400.00	401.00	1.00					NIL	
			3291	401.00	402.00	1.00					0.01	
			3292	402.00	403.00	1.00					0.02	
			3293	403.00	404.00	1.00					NIL	
			3294	404.00	405.00	1.00					0.01	
			3295	405.00	406.00	1.00					0.01	
			3296	406.00	407.00	1.00					0.01	
			3297	407.00	407.80	0.80					0.02	
		408.00 1 cm wide, white quartz + albite vein @ 25° tca with trace, spotty pyrite and possibly very fine grained galena.	3298	407.80	408.30	0.50			Tr.	1	0.05	
			3299	408.30	409.00	0.70					0.02	
			3300	409.00	410.00	1.00					0.01	

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

HOLE: AK-92-42

PAGE: 13 of 17

INTERVAL		DESCRIPTION	SAMPLE						ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check	
		432.10 - 432.70	Fault zone @ 55° tca. Sericite + chlorite + quartz ± pyrite. Strong sericitic shear with minor gouge developed. Comprised of 20-30% white-buff-pink quartz veining with strong, internal sericitic fracturing and shearing. Trace pyrite evident on some sericite slips within quartz vein.	3301	429.00	430.00	1.00					NIL	
				3302	430.00	431.00	1.00					NIL	
				3303	431.00	432.00	1.00					NIL	
				3304	432.00	432.70	0.70		Tr.	3-5		NIL	
				3305	432.70	433.50	0.80		15	10-20		1.19	1.11
				3306	433.50	434.00	0.50		1	5-10		0.02	
				3307	434.00	435.00	1.00					NIL	
				3308	435.00	436.00	1.00					0.01	
				3309	436.00	437.00	1.00					NIL	
				3310	437.00	438.00	1.00					0.01	
				3311	438.00	439.00	1.00					NIL	
				3312	439.00	440.00	1.00					NIL	
				3313	440.00	441.00	1.00					NIL	
				3314	441.00	442.00	1.00		Tr.	1-2	3-5	NIL	
		442.00 - 449.95	Patchy to pervasive "crack and seal" fracturing infilled with chlorite and/or chlorite + quartz. In places unit displays a pseudo-brecciated character. Chlorite fractures range from hairline to 0.5 cm wide and carry sporadic trace pyrite in places.	3315	442.00	443.00	1.00					0.01	
				3316	443.00	444.00	1.00					NIL	
				3317	444.00	445.00	1.00					0.01	
				3318	445.00	446.00	1.00					0.01	
				3319	446.00	447.00	1.00					0.02	
				3320	447.00	448.00	1.00					0.01	
				3321	448.00	449.00	1.00					0.01	
				3322	449.00	449.80	0.80					NIL	
		449.95 - 450.10	Fault @ 25° tca. Sericite + chlorite + quartz + albite. 0.5 cm wide fault gouge with 0.5 cm wide quartz albite vein with sericite + chlorite walls. Marks contact. Non-mineralized.	3323	449.80	450.50	0.70			3-5	10-15	0.02	
450.10	468.00	GRAYWACKE											
			Unit grades to a less deformed, less altered graywacke with a weak, pervasive spotty sericite and a weak foliation @ 40° tca. Graywacke contains 1-2% scattered, irregular quartz, quartz + albite and chloritic veins and stringers, up to 3 cm wide, parallel and oblique to foliation. Occasional vein has trace, spotty pyrite but generally are quite barren.										
		450.10 - 453.00	Sericitic and well foliated @ 20-40° tca with up to 3% quartz + albite veins and irregular masses up to 5 cm wide. Also displays a weak to moderate "crack and seal" fracturing infilled with chlorite ± quartz. Little to no sulphide evident.	3324	450.50	451.00	0.50			1-2	5-10	0.01	
				3325	451.00	452.00	1.00			2-3	5-10	0.01	
				3326	452.00	453.00	1.00			2-3	5-7	NIL	
				3327	453.00	454.00	1.00					NIL	
				3328	454.00	455.00	1.00			1	3-5	0.02	
				3329	455.00	456.00	1.00			1-3	3-5	0.02	

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

HOLE: AK-92-42

PAGE: 14 of 17

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check	
			3330	456.00	456.90	0.90			1	2-3	0.02		
			3331	456.90	457.40	0.50		Tr.	2-3	3-5	0.04		
			3332	457.40	458.00	0.60			1-2	2-3	0.02		
			3333	458.00	459.00	1.00			Tr.	1-2	0.02		
			3334	459.00	459.90	0.90			1	1-2	0.03		
			3335	459.90	460.40	0.50			Tr.	1-2	0.01		
			3336	460.40	461.00	0.60			1-2	2-3	0.02		
			3337	461.00	461.50	0.50			2-3	3-5	0.01		
		461.15 - 461.30 Sericitic shear @ 15° tca. 3-4 cm wide, moderately strong sericitic shear with 2-3% white to grey quartz and quartz breccia veinlets, ≤ 0.5 cm wide. Weak gouge developed on slips. Trace spotty pyrite.											
		461.30 - 468.00 Graywacke is fractured and moderately sericitic with irregular chloritic fracturing ("crack and seal") sporadic quartz ± albite veining and nil to trace pyrite.	3338	461.50	462.00	0.50			Tr.	1-2	NIL		
			3339	462.00	463.00	1.00			1-2	2-3	0.01		
			3340	463.00	464.00	1.00			Tr.	2-3	0.01	0.01	
			3341	464.00	465.00	1.00		Tr.	1-2	3-5	0.03	0.02	
			3342	465.00	466.00	1.00		Tr.	1-2	3-5	0.02	0.01	
		466.35 - 466.45 Quartz + sericite + pyrite vein. White to grey to blue quartz vein @ 70° tca with strong, internal sericitic foliation and trace spotty pyrite on fractures.	3343	466.00	466.50	0.50		Tr.	3-4	3-5	0.03	0.03	
			3344	466.50	467.10	0.60		Tr.	2-3	3-5	0.01	0.01	
			3345	467.10	468.00	0.90			Tr.	2-3	0.02	0.01	
468.00	478.90	CONGLOMERATE Moderately well foliated and sericitic, polymictic pebble conglomerate. Prominent clast elongation @ 40° tca. Many clasts are pervasively sericitized and a few are notably fuchsitic. Softer clasts are stretched and altered while quartz and granitoids remain well rounded and unaltered. In part intercalated with narrow, ≤1 m wide, graywacke horizons. Upper and lower contacts sharp @ 30-40° tca.	3346	468.00	469.00	1.00					* Note 1	0.18	0.10
			3347	469.00	470.00	1.00						0.08	0.16
			3348	470.00	471.00	1.00						0.31	0.24
			3349	471.00	472.00	1.00						0.20	0.21
			3350	472.00	473.00	1.00						0.37	0.21
			3351	473.00	474.00	1.00						0.35	0.31
			3352	474.00	475.00	1.00						0.03	0.02
			3353	475.00	476.00	1.00						NIL	0.01
			3354	476.00	477.00	1.00						0.02	0.02
			3355	477.00	478.00	1.00						0.24	0.21
			3356	478.00	478.90	0.90						0.01	0.01
478.90	480.70	MUDSTONE Massive, soft sericitic yellow-green to grey-brown, aphanitic mudstone. Moderate vein fracture set @ 30° tca with 1-2% quartz ± chlorite veins and stringers, up to 1 cm wide, which carry trace sporadic pyrite.	3357	478.90	479.50	0.60				1-2	5-10	0.01	
			3358	479.50	480.00	0.50		Tr.	1-2	5-10	0.03		
			3359	480.00	480.50	0.50						0.03	
			3360	480.50	481.00	0.50		Tr.	5-10	3-5	0.02		

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

HOLE: AK-92-42

PAGE: 16 of 17

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		510.00 - 515.00 Massive to weakly foliated, pervasively sericitic with 5% sericite in groundmass surrounding visible quartz grains. Mudstone chips are sericitic and minor volcanics are fuchsitic.	3956	510.00	511.00	1.00		Tr.	2-3	5-10		0.01
		511.50 Fault @ 40° tca. Tight, sharp sericite slip with a 3 mm wide quartz veinlet on slip wall.	3957	511.00	511.50	0.50		Tr.	1-2	5-7		0.01
		511.50 - 512.55 Graywacke is light yellow-green pervasively sericitized and weakly foliated.	3958	511.50	512.00	0.50			1-2	10-15		NIL
		512.55 Tight sericitic slip @ 40° tca.										
		512.20 - 512.55 Open, vuggy quartz vein, 0.5 cm wide, on a sharp, sericitic fault slip @ 10° tca.	3959	512.00	512.60	0.60			1	10-15		NIL
			3960	512.60	513.10	0.50		Tr.	1-2	5-7		NIL
			3961	513.10	514.00	0.90			1-2	5-7		NIL
			3962	514.00	515.00	1.00			1-2	5-7		NIL
		515.00 - 515.60 Fault (ductile shear) @ 35° tca. Well foliated to schistose to sheared graywacke with numerous, tight strong sericitic slips. Interstitial to slips graywackes are moderately sericitic and foliated and contain minor irregular quartz + albite veins and pods. Trace patchy disseminated pyrite. Shear zone marks sediment/volcanic contact.	3963	515.00	515.70	0.70		Tr.	1-2	10-20		0.01
515.60	556.80	ASH/LAPILLI TUFF Massive, chloritic to hematitic, fine grained dark green to dark red-brown ash to a monolithic lapilli tuff comprised of 2-5% angular to subrounded red trachyte/syenite clasts up to 3 cm (same as monolithic block tuff but finer grained). Strongly magnetic. Contains 1-2% ubiquitous quartz ± albite veining up to 2 cm wide.										
		515.60 - 517.00 Weak to moderate fracturing and patchy sericitization as alteration halos adjacent to narrow, ≤ 0.5 cm wide, barren quartz + albite stringers. Weakly foliated @ 45° tca.	3964	515.70	516.50	0.80			1-2	5-7		0.03
			3965	516.50	517.00	0.50			1-2	3-5		0.01
			3966	517.00	518.00	1.00						0.02
			3967	525.00	525.70	0.70			1-2	Tr.		0.01
		525.75 - 526.15 Irregular quartz + chlorite vein with sericitized wall rock fragments. Trace spotty pyrite ± chalcopyrite.	3968	525.70	526.20	0.50		Tr.	50	15		NIL
			3969	526.20	527.00	0.80			2-3	2-3		NIL
			3970	527.00	528.00	1.00		Tr.	Tr.			NIL
			3971	537.50	538.00	0.50			2-3	Tr. Tr.Gal		NIL
			3972	538.00	538.70	0.70		Tr.				NIL
			3973	538.70	539.40	0.70		Tr.				0.02

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

HOLE: AK-92-42

PAGE: 17 of 17

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

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

HOLE: AK-92-43

PAGE: 1 of 16

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

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

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

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

SIGNED BY


(W. Benham)

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

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

HOLE: AK-92-43

PAGE: 2 of 16

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

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

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

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

SIGNED BY _____
 (W. Benham)

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

BATTLE MOUNTAIN (CANADA) INC. DIAMOND DRILL LOG

HOLE: AK-92-43

PAGE: 3 of 16

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

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

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

SIGNED BY _____
 (W. Benham)

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

SUMMARY LOG				ASSAY SUMMARY																																																																																																						
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t																																																																																																				
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr><td>Collar</td><td>Compass</td><td>341</td><td>73</td></tr> <tr><td>23.0</td><td>Sperry Sun</td><td>338</td><td>72</td></tr> <tr><td>30.0</td><td>Acid</td><td></td><td>72</td></tr> <tr><td>60.0</td><td>Acid</td><td></td><td>71</td></tr> <tr><td>90.0</td><td>Acid</td><td></td><td>69.5</td></tr> <tr><td>129.0</td><td>Sperry Sun</td><td>330</td><td>70</td></tr> <tr><td>161.0</td><td>Sperry Sun</td><td>331</td><td>69.5</td></tr> <tr><td>187.0</td><td>Sperry Sun</td><td>329</td><td>69</td></tr> <tr><td>255.0</td><td>Sperry Sun</td><td>327</td><td>68</td></tr> <tr><td>325.0</td><td>Sperry Sun</td><td>325</td><td>62</td></tr> <tr><td>337.0</td><td>Sperry Sun</td><td>320</td><td>61.5</td></tr> </tbody> </table>	Depth	Method	Azimuth	Dip	Collar	Compass	341	73	23.0	Sperry Sun	338	72	30.0	Acid		72	60.0	Acid		71	90.0	Acid		69.5	129.0	Sperry Sun	330	70	161.0	Sperry Sun	331	69.5	187.0	Sperry Sun	329	69	255.0	Sperry Sun	327	68	325.0	Sperry Sun	325	62	337.0	Sperry Sun	320	61.5		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr><td>385.0</td><td>Sperry Sun</td><td>319</td><td>59</td></tr> <tr><td>425.0</td><td>Sperry Sun</td><td>318</td><td>58</td></tr> <tr><td>529.0</td><td>Sperry Sun</td><td>317</td><td>54</td></tr> <tr><td>574.0</td><td>Sperry Sun</td><td>319</td><td>51</td></tr> <tr><td>620.0</td><td>Sperry Sun</td><td>320</td><td>50</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Depth	Method	Azimuth	Dip	385.0	Sperry Sun	319	59	425.0	Sperry Sun	318	58	529.0	Sperry Sun	317	54	574.0	Sperry Sun	319	51	620.0	Sperry Sun	320	50																															
Depth	Method	Azimuth	Dip																																																																																																							
Collar	Compass	341	73																																																																																																							
23.0	Sperry Sun	338	72																																																																																																							
30.0	Acid		72																																																																																																							
60.0	Acid		71																																																																																																							
90.0	Acid		69.5																																																																																																							
129.0	Sperry Sun	330	70																																																																																																							
161.0	Sperry Sun	331	69.5																																																																																																							
187.0	Sperry Sun	329	69																																																																																																							
255.0	Sperry Sun	327	68																																																																																																							
325.0	Sperry Sun	325	62																																																																																																							
337.0	Sperry Sun	320	61.5																																																																																																							
Depth	Method	Azimuth	Dip																																																																																																							
385.0	Sperry Sun	319	59																																																																																																							
425.0	Sperry Sun	318	58																																																																																																							
529.0	Sperry Sun	317	54																																																																																																							
574.0	Sperry Sun	319	51																																																																																																							
620.0	Sperry Sun	320	50																																																																																																							

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

HOLE: AK-92-43

PAGE: 6 of 16

INTERVAL		DESCRIPTION	SAMPLE						ASSAYS					
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check		
140.80	169.30	96.00 - 96.10 Fault @ 30° tca. Sericite + quartz + albite ± calcite. Strongly sericitized, schistose zone with sharp, strong slip walls. 3% white-pink quartz + albite veins and boudinaged pods. Non-mineralized.	3375	136.00	137.00	1.00			Tr.	1-2	0.03			
			3376	137.00	138.00	1.00					0.01			
			3377	138.00	139.00	1.00				1-2	3-5	0.01		
			3378	139.00	140.00	1.00			Tr.	2-3	2-3	0.01		
			3379	140.00	140.80	0.80			Tr.	1	1-2	0.02		
				LAPILLI/ASH TUFF										
				Unit varies from dark grey-brown to green with a weak to moderate pervasive sericitization of groundmass. Where unit displays distinct lapilli clasts they often have diffuse indistinct boundaries. Dirty, mottled texture. Pyrite is pervasive to patchy (trace-3%) generally located on irregular sericitic cleavages and flooded areas. Typically non-magnetic.										
				140.80 - 156.00 Ash tuff is weakly crenulated and fractured with weak pervasive sericite alteration and pyritization. Fine hairline fractures and cleavages are lined with very fine grained pyrite (1-3%) which is patchy to pervasive. This zone may be equivalent to pyritic tuff on BL 100 N @ 82+00 E. Weakly deformed pyritic tuff.	3380	140.80	141.40	0.60		1-2	Tr.	2-3	0.03	
				141.50 Fault @ 20° tca. Sericite + quartz + albite + pyrite ± calcite. 1-2 cm wide, white pseudo-brecciated quartz + albite vein with strong internal sericitic cleavage. Sericite slips are dark grey in places and smeared with very fine grained pyrite.	3381	141.40	142.00	0.60		2-3	2-3	3-5	0.02	
					3382	142.00	142.50	0.50		Tr.	1	2-3	0.03	
					3383	142.50	143.00	0.50		Tr.	1	1-2	NIL	
					3384	143.00	144.00	1.00		Tr.	Tr.	1-2	0.01	
					3385	144.00	144.90	0.90		Tr.	Tr.	1-2	0.01	
					3386	144.90	145.50	0.60		Tr.	1-3	1-3	NIL	
					3387	145.50	146.00	0.50		Tr.	1	1-2	0.01	
					3388	146.00	147.00	1.00		Tr.	Tr.	1-2	0.01	
					3389	147.00	148.00	1.00		Tr.	1-2	2-3	0.02	
					3390	148.00	149.00	1.00		Tr.	1	1-2	0.01	
					3391	149.00	150.00	1.00		Tr.	Tr.	1-2	0.01	
					3392	150.00	151.00	1.00		Tr.	NIL	2-3	0.01	
			3393	151.00	152.00	1.00		Tr.	NIL	2-3	0.01			
			3394	152.00	153.00	1.00		Tr.	NIL	2-3	0.01			
		153.30 - 153.60 Quartz + sericite + pyrite zone. Set of irregular white quartz ± albite veins @ 40° tca from 1-3 cm wide. Proximal to veins unit is sericitized and moderately well foliated and contains 2-4% very fine grained pyrite on cleavages.	3395	153.00	153.70	0.70		1-3	2	3-5	0.01			
			3396	153.70	154.50	0.80		Tr.	NIL	2-3	0.01			
			3397	154.50	155.00	0.50		1	NIL	2-3	0.02			
			3398	155.00	156.00	1.00		Tr.	Tr.	2-3	0.01			
			3399	156.00	157.00	1.00		Tr.	Tr.	2-3	0.02			

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

HOLE: AK-92-43

PAGE: 7 of 16

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

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

HOLE: AK-92-43

PAGE: 9 of 16

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

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

HOLE: AK-92-43

PAGE: 10 of 16

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
	350.30 - 351.90	Graywacke is moderately foliated, moderately sericitic and contains 3% barren quartz and quartz + chlorite veins up to 1 cm wide.	3441	351.40	351.90	0.50		Tr.	2-3	3-5		0.02
	351.90 - 353.00	Fault @ 5-10° tca. Chlorite + sericite + quartz. Irregular wispy slips subparallel tca with weak gouge developed. Quartz ± albite vein is white-brown with internal sericitic suturing and fracturing. Vein carries trace spotty pyrite and minor chalcopyrite clots.	3442	351.90	352.50	0.60		Tr.	5-7	5-10	Cpy.	0.02
			3443	352.50	353.20	0.70		Tr.	5-7	5-10	Cpy.	0.04
			3444	353.20	354.00	0.80			Tr.	2-3		0.02
			3445	354.00	355.00	1.00			1	3-5		0.01
			3446	355.00	356.00	1.00			Tr.	2-3		NIL
			3447	395.00	396.00	1.00						0.02
			3448	396.00	397.00	1.00						0.01
			3449	397.00	398.00	1.00						0.02
			3450	398.00	399.00	1.00						0.01
			3451	399.00	399.50	0.50						0.01
	399.90	3 cm wide, white quartz + albite vein @ 80° tca. Vein has strong internal sericitic suturing and fractures which carry 1-2% very fine grained pyrite. Bounded by sharp irregular sericite slips.	3452	399.50	400.00	0.50		Tr.	1	2-3		NIL
			3453	400.00	401.00	1.00						0.01
			3454	401.00	402.00	1.00						0.01
			3455	402.00	403.00	1.00						0.01
			3456	441.00	442.00	1.00		Tr.	Tr.	Tr.		0.01
			3457	442.00	443.00	1.00			Tr.	Tr.		0.02
			3458	443.00	444.00	1.00				Tr.		0.02
			3459	444.00	445.00	1.00						0.01
			3460	445.00	446.00	1.00						0.02
			3461	446.00	446.80	0.80		Tr.	Tr.	1-2		0.01
		3462	446.80	447.30	0.50		Tr.	Tr.	2-3		0.01	
	447.35 - 448.40	Fault @ 5° tca. Sericite + quartz + albite. Strong irregular sericite slip subparallel tca with 3% patchy quartz ± albite veining up to 2 cm wide. Weak mud gouge developed, broken rubbly. Very minor pyrite evident as small clots.	3463	447.30	448.00	0.70	95	Tr.	2-3	5-10		NIL
			3464	448.00	448.50	0.50		Tr.	1-2	5-7		NIL
	448.40 - 455.00	Graywackes are moderately deformed and sericitic with trace spotty pyrite. Unit also contains 1% white quartz + albite ± chlorite veins, up to 2 cm wide, which occasionally have trace pyrite ± chalcopyrite in places.	3465	448.50	449.00	0.50		Tr.	Tr.	3-5		NIL
			3466	449.00	450.00	1.00		Tr.	Tr.	3-5		NIL
			3467	450.00	451.00	1.00			1	3-5		0.01
			3468	451.00	452.00	1.00		Tr.	Tr.	3-5		0.02
			3469	452.00	453.00	1.00			Tr.	3-5		0.01
	453.10 - 453.30	Two, 1-2 cm wide, quartz + albite veins @ 50° tca with trace pyrite on internal sericitic suturing. Graywackes are quite sericitic proximal to veins.	3470	453.00	453.50	0.50		Tr.	2	5-7		0.04
			3471	453.50	454.00	0.50				3-5		0.03

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

HOLE: AK-92-43

PAGE: 11 of 16

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS					
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check			
454.20 - 454.30		Fault @ 25° tca. Chlorite + sericite + quartz. 5 cm wide, blue-green quartz + chlorite vein bounded by strong slip faces with moderate to strong mud gouge. Trace spotty pyrite. Fault slips have a blue-grey tinge and may contain smeared molybdenite + pyrite.	3472	454.00	454.50	0.50		Tr.	2-3	5-7		0.02			
			3473	454.50	455.00	0.50		Tr.	Tr.	3-5		0.01			
			3474	455.00	456.00	1.00			Tr.	Tr.		0.03			
			3475	456.00	457.00	1.00		Tr.	Tr.	Tr.		0.06			
			3476	457.00	458.00	1.00		Tr.	Tr.	Tr.		0.02			
			3477	458.00	459.00	1.00						0.02			
			3478	459.00	460.00	1.00		Tr.	Tr.	2-3		0.02			
			3479	460.00	460.50	0.50		Tr.	Tr.	3-5		0.02			
			3480	460.50	461.00	0.50		Tr.	20-30	5-7		0.02			
			3481	461.00	461.50	0.50		1	10-15	5-7		0.03			
			3482	461.50	462.00	0.50		Tr.	2-3	3-5		0.02			
			3483	462.00	463.00	1.00			Tr.	2-3		0.02			
			3484	463.00	464.00	1.00						0.02			
			461.05 - 461.45		A 2-3 mm wide, dark chlorite vein or slip with 2-3% aphanitic pyrite.	3485	464.00	464.50	0.50		1	3-5	5-7		0.01
						3486	464.50	465.00	0.50			Tr.	2-3		0.02
3487	465.00	466.00				1.00				1-3		0.03			
3488	466.00	467.00				1.00				1-3		0.02			
3489	467.00	468.00				1.00						0.01			
3490	468.00	469.00				1.00						0.02			
3491	469.00	470.00				1.00						0.02			
3492	470.00	470.60				0.60				2-3	2-3		0.01		
3493	470.60	471.50				0.90				Tr.	1-3		0.02		
464.00 - 464.50		Fault slip @ 10° tca. Chlorite + sericite + quartz. 1-2 mm wide, dark grey chlorite + sericite slip with 3-5% (?) aphanitic pyrite. Adjacent to this slip is a 2-3 cm wide, quartz + albite vein with trace spotty pyrite on sericitic fracturing within vein.	3494	471.50	472.00	0.50				1-3		0.03			
			3495	472.00	473.00	1.00		Tr.	Tr.	1-3		0.01			
			3496	473.00	473.50	0.50			Tr.	2-3		0.02			
			3497	473.50	474.00	0.50				1-3		NIL			
			3498	474.00	475.00	1.00				Tr.		0.02			
			3499	475.00	476.00	1.00				Tr.		0.01			
			3500	476.00	477.00	1.00				Tr.	Tr.		0.01		
			3501	477.00	478.00	1.00				Tr.	Tr.		0.01		
			3502	478.00	479.00	1.00				Tr.	Tr.		0.01		
			3503	479.00	480.00	1.00				Tr.	Tr.		0.05		
			3504	480.00	481.00	1.00				Tr.	Tr.		0.01		
			3505	481.00	482.00	1.00				Tr.	Tr.	1-3	0.01		
470.20 - 470.50		Two quartz + albite + chlorite veins up to 3 cm wide, @ 20° tca. Moderate internal fracturing, pseudo-brecciated by irregular chlorite + sericite suturing. Barren.	3506	482.00	482.60	0.60		Tr.	1	1-3		0.01			
			3507	482.60	483.20	0.60		Tr.	2-3	1-3		NIL			
			3508	483.20	484.00	0.80			Tr.	Tr.		NIL			
			3509	484.00	484.50	0.50				3-5		0.02			
			3510	484.50	485.10	0.60		Tr.	3	5-7	Cpy.	NIL			
			3511	485.10	485.10	0.00									
473.20		Fault slip @ 55° tca. Sericite + quartz + albite. Tight sharp sericite slip with a 1 cm wide, fractured quartz + albite vein.	3496	473.00	473.50	0.50			Tr.	1-3		0.01			
			3497	473.50	474.00	0.50				Tr.	2-3		0.02		
			3498	474.00	475.00	1.00				Tr.	1-3		NIL		
			3499	475.00	476.00	1.00				Tr.	1-3		0.02		
			3500	476.00	477.00	1.00				Tr.	Tr.		0.01		
			3501	477.00	478.00	1.00				Tr.	Tr.		0.01		
			3502	478.00	479.00	1.00				Tr.	Tr.		0.01		
			3503	479.00	480.00	1.00				Tr.	Tr.		0.05		
			3504	480.00	481.00	1.00				Tr.	Tr.		0.01		
			3505	481.00	482.00	1.00				Tr.	Tr.	1-3	0.01		
482.40 - 483.15		Series of quartz + albite ± chlorite veins with minor angular wall rock inclusions. Veins are quite irregular, 0.5-2 cm wide and contain trace spotty pyrite ± chalcopyrite.	3506	482.00	482.60	0.60		Tr.	1	1-3		0.01			
			3507	482.60	483.20	0.60		Tr.	2-3	1-3		NIL			
			3508	483.20	484.00	0.80			Tr.	Tr.		NIL			
			3509	484.00	484.50	0.50				3-5		0.02			
			3510	484.50	485.10	0.60		Tr.	3	5-7	Cpy.	NIL			

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

HOLE: AK-92-43

PAGE: 12 of 16

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check		
	485.00 - 542.00	Graywackes are somewhat bleached to a light green colour, are moderately sericitic and weakly to non-deformed. Mudstone clasts are yellow-green and sericitic. Some volcanics are notably fuchsitic and elongated while harder clasts (ie. quartz, jasper, etc.) are untouched.	3511	485.10	486.00	0.90				1-3	0.01			
			3512	486.00	487.00	1.00				Tr.	0.01			
			3513	487.00	488.00	1.00				Tr.	0.02			
			3514	488.00	489.00	1.00				Tr.	Tr.	0.01		
			3515	509.00	510.00	1.00					3-5	0.03		
			3516	510.00	510.50	0.50					3-5	0.02		
			3517	510.50	511.00	0.50				Tr.	Tr.	3-5	0.01	
			3518	511.00	512.00	1.00					3-5	NIL		
	513.45	2 cm wide, quartz + albite + pyrite vein @ 45° tca. Milk-white albite vein with a strong internal fracturing or cleavage. This fracturing is infilled by a dark grey quartz which in turn carries trace-1% fine grained pyrite.	3519	512.00	513.00	1.00				3-5	NIL			
			3520	513.00	513.60	0.60				Tr.	Tr.	3-5	0.01	
			3521	513.60	514.20	0.60					3-5	0.01		
	514.30	Fault @ 20° tca. Chlorite + sericite ± calcite ± molybdenite. 2-3 mm wide, tight strong slip with moderate gouge. Slip face has a blue-grey tinge and may be smeared with molybdenite.	3522	514.20	514.80	0.60				Tr.	3-5	3-5	0.01	
			3523	514.80	515.50	0.70					3-5	0.01		
			3524	515.50	516.00	0.50					3-5	0.01		
			3525	516.00	517.00	1.00					3-5	0.01		
	514.30 - 514.80	Graywacke is moderately well foliated and contains 5% irregular quartz + chlorite veins and pods which carry trace spotty pyrite.	3526	533.00	534.00	1.00					3-5	0.08		
			3527	534.00	535.00	1.00					3-5	0.02		
			3528	535.00	535.50	0.50				Tr.	Tr.	3-5	0.02	
			3529	535.50	536.00	0.50					3-5	0.01		
			3530	536.00	537.00	1.00					3-5	0.15		
			3531	537.00	537.50	0.50					3-5	0.26		
			3532	537.50	538.00	0.50				Tr.	Tr.	3-5	0.03	
			3533	538.00	539.00	1.00					3-5	0.03		
	537.90	Fault slip @ 40° tca. Sericite + quartz ± molybdenite + pyrite. 2 mm wide, tight sharp slip with smeared blue-grey molybdenite (?), quartz and 1-2% pyrite.	3534	539.00	540.00	1.00					3-5	0.02		
			3535	540.00	541.00	1.00					3-5	0.02		
			3536	541.00	542.00	1.00					3-5	0.02		
			3537	542.00	543.00	1.00					2-3	0.02		
			3538	543.00	543.50	0.50					2-3	0.04		
3539			543.50	544.00	0.50				Tr.	Tr.	2-3	0.06		
543.50 - 569.80	Graywackes take on a patchy dark grey-blue ting (gradational) and contain notable amounts of pyrite (trace-1%). Zone may be weakly silicified and pyritized but only weakly deformed. Pyrite occurs as: i) fine, patchy disseminated pyrite in matrix. ii) scattered pyritic altered clasts. iii) narrow (1-3 mm) pyritic seams and stringers.	3540	544.00	545.00	1.00				Tr.	Tr.	2-3	0.05		
		3541	545.00	546.00	1.00				Tr.	3-5	0.05			
		3542	546.00	547.00	1.00				Tr.	3-5	0.15			
		3543	547.00	548.00	1.00				Tr.	3-5	0.01			
		3544	548.00	548.50	0.50				Tr.	Tr.	3-5	0.02		

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

HOLE: AK-92-43

PAGE: 13 of 16

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
	548.60 - 548.65	Quartz + chlorite + pyrite vein @ 65° tca. Somewhat irregular and foliated, dark grey-blue to white quartz vein with 1% fine pyrite and irregular internal wispy sericitic foliation. Marks start of stronger deformation and veining.	3545	548.50	549.00	0.50		Tr.	2	3-5	0.02	
	549.10 - 549.20	Quartz + chlorite + sericite + pyrite vein @ 60° tca. Graywackes are well foliated to weakly schistose from 549.00 - 549.50. Vein is laminated to sheared, dark blue-grey to white quartz with strong sericite slips. Vein carries 1-2% very fine grained pyrite within quartz and on sericitic parting.	3546	549.00	549.50	0.50		1-2	3	5-10	0.76	
	549.20 - 552.00	Graywackes are weakly foliated and contain trace-1% pyrite as fine disseminations, pyritic clasts and pyrite + chlorite ± sericite stringers up to 3 mm wide. Overall appears to be a weak to moderate "crack and seal" type deformation with patchy areas of blue-grey silicification.	3547	549.50	550.30	0.80		1-2	1	5-10	0.69	
			3548	550.30	551.10	0.80		Tr.-1	3	5-7	0.86	
	551.00	Fault slip @ 60° tca. 2 mm wide, chloritic slip with weak mud gouge and 3 cm wide, white to grey qtz + py vein.	3549	551.10	551.60	0.50		1-2	Tr.	5-7	1.00	
	551.85 - 552.00	Blue-grey silicified graywacke with 1-2% finely disseminated pyrite. Primary graywacke texture still evident.	3550	551.60	552.10	0.50		1-2	3	5-7	0.93	
	552.00 - 554.85	Bleached sericitized tuff(?) graywacke(?). Light buff-brown, massive, quite soft. Comprised of 3% fine subhedral crystal shards and laths up to 1-2 mm wide, light grey, translucent prismatic quartz(?) (hard), in an aphanitic sericitic groundmass. Also contains 1-2% irregular white albite clots and stringers. Upper contact is a sharp, tight slip @ 40° tca. Lower contact also a sharp, tight slip @ 60° tca. At contacts pyrite ± quartz mineralization penetrates this unit up to 1-2 cm otherwise unit is virtually non-mineralized.	3551	552.10	553.00	0.90		Tr.		5-10	0.11	
			3552	553.00	554.00	1.00		Tr.		5-10	0.02	
	554.85 - 569.80	Intercalated graywacke, pebbly graywacke and conglomerate horizons with sharp to gradational contacts. Possible bedding @ 45° tca. Units are moderately to weakly foliated, moderately sericitic and contain trace pyrite as minor patchy disseminations pyritic clasts and associated with narrow blue-grey quartz veins or zones of silicification (≤ 3 cm).	3553	554.00	554.90	0.90		Tr.		5-10	0.01	
			3554	554.90	555.50	0.60		Tr.	Tr.	3-5	0.28	
			3555	555.50	556.00	0.50		Tr.		3-5	0.05	
			3556	556.00	556.80	0.80		Tr.	Tr.	3-5	0.02	
			3557	556.80	557.50	0.70		Tr.	Tr.	5-7	0.01	
	557.50 - 557.75	Graywacke displays a weak "crack and seal" type fracturing with irregular faint blue-grey quartz + pyrite infilling (1-2 mm wide).	3558	557.50	558.00	0.50		Tr.-1	Tr.	5-7	0.05	
			3559	558.00	558.70	0.70		Nil-Tr	Tr.	5-7	0.02	
			3560	558.70	559.20	0.50		Tr.		5-7	0.01	

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

HOLE: AK-92-43

PAGE: 14 of 16

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

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

HOLE: AK-92-43

PAGE: 15 of 16

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS					
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check			
597.00	597.90	stretched, while quartz, granitoids etc. remain unaltered and well rounded. Matrix is a weakly sericitic graywacke. Unit contains 1-2% irregular milk-white quartz + albite veining with minor spotty pyrite ± chalcopyrite ± galena. Upper and lower contacts are sharp but irregular.	3591	594.00	595.00	1.00		Tr.	1-2	3-5	Gal.	0.15			
			3592	595.00	596.00	1.00				5-7		0.09			
			3593	596.00	597.00	1.00				5-7		0.03			
597.00	597.90	SILTSTONE/MUDSTONE Massive, very fine grained to aphanitic, yellow-green siltstone. Soft, pervasively sericitic, non-descript.	3594	597.00	597.50	0.50				10-20		NIL			
		597.55 - 597.90	Fault @ 25° tca. Chlorite + sericite + quartz ± pyrite. Strong, broken fault zone with strong mud gouge.	3595	597.50	598.00	0.50		Tr.	3-5	5-10		0.03		
		597.70	5-7 cm wide, white to blue-grey, sheared quartz vein. Dark areas appear to be mixed chlorite + sericite and very fine grained pyrite.												
597.90	648.10	GRAYWACKE Massive, chloritic, medium green, fine grained graywacke. Weak pervasive sericite alteration. In places, primary pyrite beds from 0.5-2 mm wide, are evident @ 50° tca.													
		597.90 - 608.00	Unit is stockworked with 2-4% quartz + albite ± chlorite vein, stringers and pods which frequently carry minor spotty pyrite pseudomorphing galena(?) often in vein fractures and cleavages.	3596	598.00	599.00	1.00				2	3-5	0.01		
				3597	599.00	600.00	1.00		Tr.	2-3	3-5		NIL		
				3598	600.00	601.00	1.00			2-3	1-2	3-5		0.01	
				3599	601.00	601.80	0.80		Tr.	2-3	3-5		NIL		
				3600	601.80	602.50	0.70				1-2	3-5		0.04	
				3601	602.50	603.50	1.00		Tr.	1	3-5		0.01		
				3602	603.50	604.00	0.50		Tr.	2-3	3-5		0.01		
				3603	604.00	605.00	1.00		Tr.	2-3	3-5		0.01		
				3604	605.00	606.00	1.00				1-2	3-5		NIL	
				3605	606.00	606.70	0.70							0.01	
				606.70 - 607.50	Quartz + albite + sericite ± pyrite vein. Irregular white (quartz ± albite) to dark grey (quartz + chlorite + sericite + pyrite) veining. Strong internal sericite + chlorite suturing to brecciation with 1-2% very fine grained pyrite. Moderately strong sericite slips @ 30° tca.	3606	606.70	607.60	0.90		Tr.-1	5-10	10-15		0.11
				607.30 - 607.40	A 3-4 cm wide, quartz breccia vein with white included quartz fragments in a dark grey, quartz + chlorite groundmass. Vein carries trace-1% disseminated pyrite.	3607	607.60	608.50	0.90			Tr.	3-5		NIL
						3608	608.50	609.50	1.00			Tr.	3-5		NIL
						3609	609.50	610.00	0.50				3-5		NIL
				3610	610.00	611.00	1.00		2-3	1	3-5		0.01		
				3611	611.00	612.00	1.00		2-3	Tr.	3-5		0.01		

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

HOLE: AK-92-44

PAGE: 1 of 17

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

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

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

SIGNED BY


(W. Benham)

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.0 3.75 3.75 156.20	OVERBURDEN BLOCK TUFF/CONGLOMERATE 62.00 - 62.15 Fault @ 15° tca. 101.40 - 101.70 Fault @ 10° tca. 121.20 Fault @ 40° tca. 107.00 - 156.20 Facie change, tuff to conglomerate.		361.50 - 361.70 Fault @ 15° tca. 374.20 - 387.50 Sericitic, weakly to moderately deformed. 387.50 - 396.50 Strongly deformed and sericitic. 388.10 Fault @ 20° tca. 390.70 Fault @ 50° tca. 391.15 - 392.00 Quartz + sericite + pyrite shear zone @ 25° tca. 393.50 - 396.50 Pyritic zone, 2-5% pyrite. 394.20 Fault @ 25° tca.	642.20 647.00	4.80	0.10
156.20 182.60 182.60 194.30 194.30 200.90 200.90 204.40 204.40 209.50	ASH/LAPILLI TUFF LAPILLI/BLOCK TUFF LAPILLI TUFF SYENITE PORPHYRY CONGLOMERATE Foliated @ 10-30° tca.	428.00 460.50 460.50 497.00 497.00 521.00	ASH/LAPILLI TUFF LAPILLI TUFF ASH/LAPILLI TUFF 510.00 Fault @ 20° tca.			
209.50 267.30 267.30 305.90	ASH TUFF 230.70 - 233.40 Fault @ 0-10° tca. LAPILLI TUFF 270.90 - 271.60 Fault @ 10° tca. 305.90 Fault @ 60° tca.	521.00 532.65 532.65 553.75	CONGLOMERATE/GRAYWACKE/SILTSTONE SILTSTONE/GRAYWACKE 533.00 - 539.00 Quartz + quartz breccia stockwork (1-3%), trace pyrite. 546.80 - 547.40 Fault zone @ 30° tca. 547.40 - 553.00 Moderately deformed and sericitic, 2-4% quartz veins, trace pyrite.			
305.90 428.00	LAPILLI TUFF Moderately to strongly magnetic. Bedding @ 20° tca. 311.10 - 319.45 1%, 0.5-1.0 cm wide, quartz + albite + pyrite veins @ 40-70° tca.					

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

HOLE: AK-92-44

PAGE: 2 of 17

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

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

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

SIGNED BY _____
 (W. Benham)

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
553.75 - 559.70	GRAYWACKE/SILTSTONE	733.40 - 737.85	GRAYWACKE/CONGLOMERATE			
559.70 - 564.00	GRAYWACKE/MUDSTONE		733.40 - 733.90 Fault @ 30-40° tca.			
564.00 - 681.00	GRAYWACKE		733.90 - 737.85 Moderately foliated @ 30-45° tca, 2-3% white quartz veins.			
	586.15 - 586.45 Diabase dyke @ 15° tca.	737.85 - 775.25	ASH/LAPILLI TUFF/CONGLOMERATE			
	609.40 - 614.10 Trace, 1-3 mm quartz + chlorite veins, trace pyrite.		774.65 - 775.25 Shear zone @ 65° tca.			
	614.10 - 614.40 Quartz + sericite shear @ 30° tca, trace pyrite.	775.25 - 814.10	GRAYWACKE			
	614.40 - 626.00 Sericitic.		775.25 - 776.30 Sheared and fractured. 2-3% white quartz veins, trace pyrite.			
	640.50 - 648.00 1-2% quartz + chlorite veins @ 0° tca, trace pyrite and chalcopyrite.	814.10	776.30 - 800.00 1-3% white quartz veins and 1% blue quartz + chlorite veins @ 30° tca, trace pyrite, weakly to moderately sericitic.			
	673.20 - 680.10 Moderately foliated and sericitic, 1-4% quartz veins @ 0-15° tca.		E O H			
	680.10 - 680.40 Sericitic shear @ 30° tca.					
681.00 - 687.40	GRAYWACKE/CONGLOMERATE/SILTSTONE/ LAPILLI TUFF					
687.40 - 715.00	LAPILLI TUFF/GRAYWACKE/MUDSTONE					
	711.75 - 712.10 Fault @ 40° tca.					
715.00 - 733.40	ASH TUFF					
	730.00 - 733.40 Weakly to moderately sericitic.					

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

HOLE: AK-92-44

PAGE: 3 of 17

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

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

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

SIGNED BY _____
 (W. Benham)

SUMMARY LOG				ASSAY SUMMARY																																																																																																		
INTERVAL From To	DESCRIPTION			INTERVAL From To	LENGTH in metres	AVERAGE Au g/t																																																																																																
	<table border="1"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr><td>Collar</td><td>Compass</td><td>341</td><td>75</td></tr> <tr><td>44.0</td><td>Sperry Sun</td><td>337(?)</td><td>75</td></tr> <tr><td>120.0</td><td>Sperry Sun</td><td>338(?)</td><td>76</td></tr> <tr><td>196.0</td><td>Sperry Sun</td><td>338(?)</td><td>76</td></tr> <tr><td>266.7</td><td>Sperry Sun</td><td>337(?)</td><td>76</td></tr> <tr><td>324.6</td><td>Sperry Sun</td><td>319(?)</td><td>70.5</td></tr> <tr><td>334.0</td><td>Sperry Sun</td><td>317</td><td>69.5</td></tr> <tr><td>373.0</td><td>Sperry Sun</td><td>316</td><td>69</td></tr> <tr><td>437.4</td><td>Sperry Sun</td><td>317</td><td>68</td></tr> <tr><td>450.0</td><td>Sperry Sun</td><td>317</td><td>68</td></tr> <tr><td>459.0</td><td>Acid</td><td></td><td>68</td></tr> </tbody> </table>	Depth	Method	Azimuth	Dip	Collar	Compass	341	75	44.0	Sperry Sun	337(?)	75	120.0	Sperry Sun	338(?)	76	196.0	Sperry Sun	338(?)	76	266.7	Sperry Sun	337(?)	76	324.6	Sperry Sun	319(?)	70.5	334.0	Sperry Sun	317	69.5	373.0	Sperry Sun	316	69	437.4	Sperry Sun	317	68	450.0	Sperry Sun	317	68	459.0	Acid		68		<table border="1"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr><td>470.0</td><td>Acid</td><td></td><td>68</td></tr> <tr><td>529.0</td><td>Sperry Sun</td><td>319</td><td>66</td></tr> <tr><td>590.0</td><td>Sperry Sun</td><td>319</td><td>64</td></tr> <tr><td>617.0</td><td>Sperry Sun</td><td>317</td><td>60</td></tr> <tr><td>675.0</td><td>Sperry Sun</td><td>315</td><td>58.5</td></tr> <tr><td>739.0</td><td>Sperry Sun</td><td>315</td><td>44.5</td></tr> <tr><td>785.0</td><td>Sperry Sun</td><td>317</td><td>35</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Depth	Method	Azimuth	Dip	470.0	Acid		68	529.0	Sperry Sun	319	66	590.0	Sperry Sun	319	64	617.0	Sperry Sun	317	60	675.0	Sperry Sun	315	58.5	739.0	Sperry Sun	315	44.5	785.0	Sperry Sun	317	35																			Note: Assumed gradual evenly distributed deviation of 22° from 0 to 324.6 m versus 18° from 266.7 m to 324.6 m.
Depth	Method	Azimuth	Dip																																																																																																			
Collar	Compass	341	75																																																																																																			
44.0	Sperry Sun	337(?)	75																																																																																																			
120.0	Sperry Sun	338(?)	76																																																																																																			
196.0	Sperry Sun	338(?)	76																																																																																																			
266.7	Sperry Sun	337(?)	76																																																																																																			
324.6	Sperry Sun	319(?)	70.5																																																																																																			
334.0	Sperry Sun	317	69.5																																																																																																			
373.0	Sperry Sun	316	69																																																																																																			
437.4	Sperry Sun	317	68																																																																																																			
450.0	Sperry Sun	317	68																																																																																																			
459.0	Acid		68																																																																																																			
Depth	Method	Azimuth	Dip																																																																																																			
470.0	Acid		68																																																																																																			
529.0	Sperry Sun	319	66																																																																																																			
590.0	Sperry Sun	319	64																																																																																																			
617.0	Sperry Sun	317	60																																																																																																			
675.0	Sperry Sun	315	58.5																																																																																																			
739.0	Sperry Sun	315	44.5																																																																																																			
785.0	Sperry Sun	317	35																																																																																																			

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

HOLE: AK-92-44

PAGE: 7 of 17

INTERVAL		DESCRIPTION	SAMPLE						ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check	
267.30	305.90	230.70 - 233.40	Strong cross-fault @ 0-10° tca. 0.5-1 cm wide chloritic fault gouge sub-parallel tca. Open, vuggy fault. Strong, slickensides show multiple movements in at least two directions, predominantly horizontal.										
		LAPILLI TUFF											
		Massive to weakly foliated, hematitic ± chloritic ± sericitic, dark to light green to purple, heterolithic lapilli tuff comprised of 1-5% angular to subrounded clasts from 0.02-3 cm (avg. 1 cm) in a very fine grained chloritic to hematitic ash matrix. Colour variations are generally gradational. Unit is predominantly hematitic with patchy moderate magnetics.											
		270.90 - 271.60	Fault @ 10° tca. Chlorite + quartz + albite. Fairly strong, 1 cm wide fault with moderate gouge development. Minor, barren quartz ± albite veinlets and pods. Lapilli tuff adjacent to fault is somewhat bleached, fractured and sericitized up to 0.5 m from fault.										
		277.90 - 278.10	Fault slip @ 15° tca. Chlorite + sericite + quartz + albite. Tight, chloritic slip with 10-15% barren quartz stringers in wall rock.										
		280.40	Fault slip @ 15° tca. Chlorite + sericite + quartz. Tight, sharp chlorite + sericite slip with 1 cm wide, quartz vein.										
		283.10 - 283.60	Fault @ 15° tca. Chlorite + sericite + quartz + albite. 2 cm wide, white-pink quartz + albite vein bounded by sharp tight fault slips. Lapilli tuff is moderately sericitic adjacent to fault.										
		285.00 - 287.60	Unit carries 3-5% irregular barren white quartz + albite veins and stringers. Proximal to veins unit is light yellow-green, sericitic.										
305.90	428.00	302.20 - 305.00	Fault slip @ 0-15° tca. Chlorite + quartz. Tight, sharp, chloritic slip oscillates down core axis with a 1-3 cm wide, barren quartz ± albite vein.										
		305.90	Fault @ 60° tca. 1-3 mm wide, strong tight chloritic mud fault. Marks lower contact of unit.										
LAPILLI TUFF													
Massive, light to dark grey-green to red-brown, chloritic ± hematitic. Variable with 1-7% angular lapilli clasts ranging from 2-3 mm to 5 cm (avg. 1-2 cm) in a very fine grained ash matrix. Clasts consists of 80% light													

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

HOLE: AK-92-44

PAGE: 9 of 17

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

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

HOLE: AK-92-44

PAGE: 11 of 17

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

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

HOLE: AK-92-44

PAGE: 12 of 17

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		546.80 - 547.40	3717	546.00	546.50	0.50		Tr.	1-2	3-5	0.01	
		Fault zone @ 30° tca. Sericite + quartz. Strongly deformed, sheared siltstone and graywacke with abundant sericitic slips. Strong fault gouge at 546.80 and 547.15 m. Nil to trace, spotty pyrite and 3-5% quartz veins, stringers and pods which carry trace sporadic pyrite on internal fracturing.	3718	546.50	547.50	1.00		Tr.	3-5	10-15	0.01	
		547.40 - 553.00	3719	547.50	548.50	1.00		Tr.	1-2	5-10	0.01	
		Siltstones are moderately deformed, sericitic with numerous, tight sericitic slips and 2-4% irregular white quartz veins, stringers and pods. Trace, pervasive pyrite.	3720	548.50	549.40	0.90		Tr.	5-10	10-15	NIL	
		550.80	3721	549.40	550.00	0.60		Tr.	2-3	5-7	NIL	
		A 1-3 mm wide, dislocated pyrite seam at contact between siltstone and graywacke horizon @ 15° tca.	3722	550.00	551.00	1.00		Tr.-1	3-4	5-10	NIL	
			3723	551.00	552.00	1.00		Tr.	2-3	3-5	NIL	
			3724	552.00	553.00	1.00		Tr.	1	3-5	0.01	
			3725	553.00	553.80	0.80		Nil-Tr.	1	3-5	0.01	
553.75	559.70	PEBBLY GRAYWACKE/SILTSTONE Dark grey-green, massive, chloritic, pebbly graywacke with 2-5% scattered fine grained mudstone pebbles up to 1 cm. Irregularly interdigitated with siltstone horizons up to 50 cm wide @ 45° tca. Lower contact is gradational over 30 cm, grading to a light grey-green (bleached appearance) graywacke.	3726	553.80	554.50	0.70		Tr.	1-3		NIL	
			3727	554.50	555.00	0.50		Tr.	1-3		0.01	
			3728	555.00	556.00	1.00				1-3	0.01	
559.70	681.00	GRAYWACKE Massive, chloritic ± sericitic, fine grained, light grey-green graywacke with 1% scattered, angular mudstone chips up to 5 cm. Non-bedded, non-descript with 60-70% fine quartz grains and lithics (30-40%) in an aphanitic groundmass. Very clean, bleached appearance, weak pervasive, spotty sericite.										
		559.70 - 564.00										
		Finely interfingering with narrow, irregular mudstone beds up to 1 cm wide. Very irregular contacts.										
		581.95 - 582.00										
		Fault @ 40° tca. Sericite + quartz + calcite. 4 cm wide, white to grey, fractured quartz + calcite vein bounded by sharp strong sericite slips.										
		586.15 - 586.45										
		Diabase dyke @ 15° tca. Very fine grained, massive with very sharp, chilled contacts. Non-magnetic.										
		609.40 - 614.00	3729	609.00	610.00	1.00				1-3	0.01	
		Series of narrow (1-3 mm) quartz + chlorite veins @ 10-15° tca. These stringers have dark grey-blue alteration halos and carry trace spotty pyrite ± chalcopyrite (approx. one per metre).	3730	610.00	611.00	1.00		Tr.	Tr.	1-3	0.01	
			3731	611.00	612.00	1.00		Tr.	Tr.	1-3	NIL	
			3732	612.00	613.00	1.00		Tr.	Tr.	1-3	0.01	

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

HOLE: AK-92-44

PAGE: 13 of 17

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

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

HOLE: AK-92-44

PAGE: 15 of 17

INTERVAL		DESCRIPTION	SAMPLE						ASSAYS					
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check		
715.00	733.40	694.40 - 695.80	Aphanitic yellow-green mudstone horizon with irregular, internal bedding. Irregular, interfingering contacts.		3776	710.00	711.00	1.00				0.01		
				3777	711.00	711.70	0.70				NIL			
		711.75 - 712.10	Fault @ 40° tca. Chlorite + sericite + quartz + albite. 10 cm wide, white to blue-grey, fractured and sheared quartz + albite vein with strong, internal sericite + chlorite suturing. Very minor spotty pyrite. Weak to moderate gouge on slips adjacent to vein and moderate sericitization of wall rock over 5 cm.		3778	711.70	712.20	0.50		Tr.	15	10-15	NIL	
				3779	712.20	713.00	0.80					Tr.	NIL	
				3780	713.00	714.00	1.00						NIL	
													0.01	
733.40	737.85	ASH TUFF	Massive, fine grained, chloritic + hematitic, light to dark green to purple ash tuff with up to 1-2% scattered, angular lapilli clasts up to 1 cm wide. Moderately to strongly magnetic. Non-descript with an overall mottled appearance due to abrupt colour variations due to varying degrees of hematization.		3781	726.40	726.90	0.50				NIL		
				3782	726.90	727.60	0.70			2-3	2-3	NIL		
				3783	727.60	728.50	0.90					0.01		
				3784	728.50	729.50	1.00					0.01		
				3785	729.50	730.50	1.00			1-2	3-4	0.01		
		730.00 - 733.40	Weakly to moderately sericitic and weakly foliated and fractured. Contains a few sharp tight sericite slips and 1-2% irregular barren quartz + albite veins.											
		730.60	Fault @ 35° tca. Sericite + quartz + albite. 2-3 mm wide, sharp strong sericitic slip with a 1 cm wide, white-buff quartz + albite vein.		3786	730.50	731.00	0.50			2-3	3-5	NIL	
		731.50 - 732.70	Fault slip @ 0-10° tca. Very sharp, tight sericite slip with well developed slickensides.		3787	731.00	732.00	1.00			2-3	5-7	NIL	
				3788	732.00	732.90	0.90			2-3	5-7	0.01		
		3789	732.90	733.40	0.50			1-2	5-7	0.01				
733.40	737.85	GRAYWACKE/CONGLOMERATE	733.40 - 733.90 Fault @ 30-40° tca. Sericite + chlorite + quartz + albite. 40 cm wide, white-grey-brown quartz + albite vein with a pseudo-banded appearance due to strong, internal sericite + chlorite suturing and tight irregular slip planes. Graywackes are moderately sericitized with 10-15% irregular wispy sericite throughout. Typically barren, with very minor (nil to trace) spotty pyrite.		3790	733.40	734.00	0.60		Tr.	30-40	20-30	0.02	
		733.90 - 736.00	Moderately well foliated, fine grained graywacke with 5-15% sericite as fine spots, irregular wisps and tight sericite slips @ 30-45° tca. Also contains 2-3% milk white, barren quartz + albite veins up to 1 cm wide.		3791	734.00	734.60	0.60		Tr.	2-3	5-10	0.02	
				3792	734.60	735.10	0.50			1-2	5-7	NIL		
				3793	735.10	736.00	0.90			2-3	5-10	0.02		

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

HOLE: AK-92-44

PAGE: 16 of 17

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		736.00 - 737.85 Graywacke grades to a moderately well foliated, moderately sericitized polymictic pebble conglomerate. Lower contact displays some volcanic intermixing but is quite sharp @ 35° tca.	3794	736.00	737.00	1.00			Tr.	5-7	0.03	
			3795	737.00	737.90	0.90			Tr.	5-7	0.01	
737.85	775.25	ASH/LAPILLI TUFF/CONGLOMERATE Massive, chloritic + hematitic, dark green to purple-brown, very fine grained ash tuff with scattered lapilli tuff sections. Clasts are subangular, 2-3 mm to 3 cm and vary from dark green to brown to purple. Moderately to strongly magnetic, non-descript, glassy. Weakly foliated @ 45° tca.	3796	737.90	738.60	0.70			Tr.	Tr.	0.01	
			3797	738.60	739.50	0.90			Tr.	Tr.	0.01	
		759.00 - 768.00 Ash/lapilli tuff is intercalated with a dark green, chloritic, polymictic conglomerate horizons up to 1.5 m wide. Contacts are gradational to sharp @ 50° tca.	3798	771.00	772.00	1.00					NIL	
			3799	772.00	773.00	1.00					0.03	
			3800	773.00	774.00	1.00				1	1-3	NIL
			3801	774.00	774.50	0.50				1	2-4	NIL
		774.65 - 775.25 Shear zone @ 65° tca. Sericite + chlorite + quartz + albite. Strongly foliated to schistose, sheared tuffs with strong, tight (≤ 1-2 mm), sericitic mud slips throughout at 1-15 cm intervals. Section contains 3-5% pods, stringers and veins up to 3 cm wide, of barren white quartz + albite. Very minor spotty pyrite in tuffs. Marks contact with sediments.	3802	774.50	775.25	0.75			Tr.	3-5	20-30	NIL
775.25	814.10	GRAYWACKE 775.25 - 776.30 Sheared, fractured graywacke and conglomerate. Moderately well foliated sediments with a few sharp, tight sericitic slips. Interstitial to slips, sediments have a fractured "crack and seal" texture and they are cut by irregular, dark quartz + chlorite stringers up to 0.5 cm wide, "pseudo-brecciated". Pervasive wispy, spotty sericite and 2-3% late barren quartz + albite veins (≤ 1 cm).	3803	775.25	775.75	0.50			Tr.	2-3	10-20	NIL
			3804	775.75	776.40	0.65			Tr.	2-3	10-15	NIL
		776.30 - 800.00 Graywackes are massive, non-bedded light to medium grey-green. Weakly to moderately sericitic with a pervasive wispy sericite evident in groundmass. Also contains 1-3% ubiquitous, late barren white quartz + albite veins up to 2 cm.	3805	776.40	777.00	0.60			Tr.	2-4	5-10	NIL
			3806	777.00	778.00	1.00			Tr.	2-3	5-7	NIL
			3807	778.00	779.00	1.00			Tr.	1-2	3-5	0.01
			3808	779.00	780.00	1.00			Tr.	1-2	3-5	0.01
			3809	780.00	781.00	1.00			Tr.	2-3	3-5	0.01
		Graywackes also contain a notable set of dark blue quartz + chlorite veins @ 30° tca. This vein set is spaced from a few cm's to 1-2 m apart but is persistent throughout.	3810	781.00	782.00	1.00			Tr.	1-2	3-5	0.01
			3811	782.00	783.00	1.00			Tr.	2-3	3-5	0.01
			3812	783.00	784.00	1.00			Tr.	2-3	5-7	0.01

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

HOLE: AK-92-45

PAGE: 1 of 11

PROPERTY	Amalgamated Kirkland	DATE LOGGED	August 7, 1992 - August 12, 1992	EASTING	8124.5
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10105.0
CLAIM No.	L 491663, L 491651	DRILLED BY	Heath & Sherwood	ELEVATION	340.6
STARTED	August 6, 1992	CORE LOCATION	Kirkland Lake Warehouse	COLLAR SURVEY	Northland Technical
COMPLETED	August 11, 1992	DOWNHOLE SURVEYOR	B.M.C.I.	LENGTH	401.5 metres
		SURVEY INSTRUMENT	Sperry Sun	UNITS	metres
				CORE SIZE	NQ

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

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

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

SIGNED BY


(W. Benham)

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

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

HOLE: AK-92-45

PAGE: 2 of 11

PROPERTY	Amalgamated Kirkland	DATE LOGGED	August 7, 1992 - August 12, 1992	EASTING	8124.5
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10105.0
CLAIM No.	L 491663, L 491651	DRILLED BY	Heath & Sherwood	ELEVATION	340.6
STARTED	August 6, 1992	CORE LOCATION	Kirkland Lake Warehouse	COLLAR SURVEY	Northland Technical
COMPLETED	August 11, 1992	DOWNHOLE SURVEYOR	B.M.C.I.	LENGTH	401.5
		SURVEY INSTRUMENT	Sperry Sun	UNITS	metres
				CORE SIZE	NQ

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

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

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

SIGNED BY _____
(W. Benham)

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

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

HOLE: AK-92-45

PAGE: 6 of 11

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

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

HOLE: AK-92-45

PAGE: 7 of 11

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

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

HOLE: AK-92-45

PAGE: 8 of 11

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check		
		318.20	Quartz + pyrite + galena vein @ 50° tca. 0.5 - 1 cm wide, vein with 5-7% pyrite in vein and trace galena on thin internal fractures. Adjacent to vein is an irregular, dark grey alteration hole up to 7 cm from vein. This appears to be slightly silicified tuffs with 1% disseminated pyrite.	3862	316.50	317.50	1.00		Tr.	Tr.	2-3	0.11		
				3863	317.50	318.00	0.50		Tr.	Tr.	Tr.	0.13		
				3864	318.00	319.00	1.00		1-2	3-4	5-7	1.61		
		318.35 - 318.55	Chlorite + sericite slip @ 15° tca. Adjacent to this tight slip is a 1-2 cm, irregular quartz ± albite vein with minor pyrite + galena.	3865	319.00	320.00	1.00		Tr.	Tr.	2-3	0.02		
				3866	320.00	320.50	0.50		Tr.	Tr.	Tr.	NIL		
		320.75 - 320.95	Fault @ 20° tca. Chlorite + sericite + quartz + albite. 4 cm wide, white-buff-grey, quartz ± albite vein with strong, internal chlorite + sericite suturing and bounded by sharp, tight chloritic slips. Very minor spotty euhedral pyrite grains and chalcopyrite.	3867	320.50	321.00	0.50		Tr.	2-3	2-3	0.12		
				3868	321.00	322.00	1.00		Tr.	Tr.	Tr.	2.62		
				3869	322.00	322.50	0.50		Tr.	1-2	3-5	1.20		
		322.80 - 323.40	Sericitized sheared tuff (ductile shear) @ 30° tca with 10% milk-white, late quartz + albite veins and pods. Sericitized sheared tuff contains 1-2% very fine grained, disseminated pyrite.	3870	322.50	323.30	0.80		1	5-7	10-15	1.48		
		323.40 - 324.55	Quartz + pyrite + galena + chalcopyrite vein @ 30° tca. Dark blue-grey to white quartz (quartz breccia) vein with 20-25 % sulfide (15% pyrite, 5% galena, 1% chalcopyrite). Pyrite occurs as; very fine grained, semi-massive sections and as coarse subhedral crystals and crystal aggregates. Chalcopyrite is spatially associated with the pyrite and occurs as small irregular anhedral masses. Galena occurs as small sub-euhedral crystal clusters and probably disseminated through quartz giving it the dark blue colour.	3871	323.30	323.75	0.45		5-10	60	5	Gal/Cpy	46.36	46.99
				3872	323.75	324.20	0.45		5-10	70	3-5	Gal/Cpy	21.05	
				3873	324.20	324.55	0.35		5-10	70	2-3	Gal/Cpy	19.95	
		324.55 - 324.95	Tuffs are moderately foliated, dark grey and appear to be moderately silicified. Section contains 10-15%, very fine grained disseminated pyrite. Gradually gives way to less pyritic, sericitic tuffs.	3874	324.55	325.00	0.45		10-15	3-4	5-7	5.45		
324.95	350.45	BLEACHED LAPILLI TUFF Moderately deformed, weakly foliated, altered lapilli tuff. Quite variable from dark green chloritic, to yellow-green sericitic, to dirty grey-brown sericitic + silicified. Lower contact is sharp and distinct @ 50° tca.												

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

HOLE: AK-92-45

PAGE: 9 of 11

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

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

HOLE: AK-92-45

PAGE: 11 of 11

INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au,Check
		<u>Additional Assays</u>										
		<u>Sample No.</u>	<u>Ag (ppm)</u>	<u>Cu (ppm)</u>	<u>Mo (ppm)</u>	<u>Pb (ppm)</u>	<u>Zn (ppm)</u>	<u>Te (ppm)</u>				
		3848	0.3	178	7	16	159	1				
		3849	5.1	647	10	1.17%	134	1				
		3860	5.8	389	13	9260	892	1				
		3861	0.3	96	3	80	111	1				
		3862	0.1	67	2	21	135	1				
		3863	0.1	57	2	35	121	1				
		3864	1.3	179	5	2100	86	1				
		3865	0.1	50	2	19	116	1				
		3866	0.1	41	2	10	108	1				
		3867	0.2	143	4	264	115	1				
		3868	0.9	54	4	25	176	1				
		3869	0.4	85	3	47	165	1				
		3870	0.7	91	6	32	63	1				
		3871	36.2	2840	13	1.07%	67	17				
		3872	75.3	5110	10	9.50%	119	54				
		3873	89.0	6220	12	8.46%	113	73				
		3874	4.6	175	14	624	2	2				
		3875	1.4	307	4	454	38	1				
		3876	1.2	190	5	652	40	1				
		3877	0.6	85	5	266	36	1				
		3878	2.1	171	5	144	29	2				
		3879	0.5	221	2	72	41	1				
		3880	3.1	425	3	66	33	1				
		3881	1.7	98	5	59	34	1				
		3882	0.9	45	11	35	34	1				
		3883	1.1	32	15	34	41	1				
		3884	0.3	80	5	17	65	1				
		3885	0.2	41	3	20	81	1				
		3886	0.2	25	4	12	98	1				
		3887	0.1	45	3	8	87	1				

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

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

PAGE: 1 of 8


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

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

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

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

SIGNED BY


(W. Benham)

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 3.80	CASING		135.50 - 135.60 Silicified, 2-3% pyrite.	102.65 106.00	3.35	1.30
3.80 22.40	ASH TUFF		136.10 - 136.70 Siltstone with 30% quartz + sericite veinlets, 0.5% pyrite.	103.90 104.40	0.50	8.01
22.40 22.60	SILTSTONE	142.90 149.25	LAPILLI/ASH TUFF			
22.60 23.10	COARSE LAPILLI TUFF		145.00 Fault @ 45° tca.	144.50 145.10	0.60	0.17
23.10 23.95	SILTSTONE		145.00 - 149.25 Irregular, weak sericitic alteration, trace pyrite, trace 0.05 - 0.5 cm wide quartz + albite veins.			
23.95 27.50	COARSE LAPILLI TUFF		149.10 - 149.25 Moderately well foliated @ 70 - 80° tca.			
27.50 32.85	ASH TUFF	149.25 183.30	GRAYWACKE/LAPILLI TUFF/MUDSTONE			
32.85 68.60	LAPILLI TUFF		149.25 - 149.55 Moderately well foliated @ 70 - 80° tca.			
68.60 86.30	LAPILLI TUFF		149.55 - 183.30 Massive to weakly foliated.			
	Sericitic.		183.30 - 190.00 Quartz + chlorite "crack & seal" texture. Trace pyrite.			
86.30 94.10	LAPILLI TUFF		185.00 - 186.30 Up to 2% irregular primary pyrite beds.			
	Weakly sericitic.	198.50	E O H			
94.10 102.65	ASH TUFF		Hole extended from 142.90 to 198.50, August 12 - 13, 1992.			
	Hematitic.					
102.65 104.50	QUARTZ - PYRITE BRECCIA ZONE	183.30 198.50				
	102.65 - 103.40 Fault zone, trace pyrite.					
	104.10 - 104.25 Brecciated quartz vein, 3-5% pyrite.					
	104.40 - 104.50 Fault breccia.					
104.50 132.35	SILTSTONE/MUDSTONE					
	114.80 - 115.85 Sericitic graywacke, 0.5% pyrite.					
132.35 142.90	LAPILLI TUFF					

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

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

PAGE: 2 of 8

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

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

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

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

SIGNED BY _____
 (W. Benham)

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

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

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

PAGE: 4 of 8

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

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

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

PAGE: 5 of 8

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

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

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

PAGE: 7 of 8

INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		135.60										
		136.10										
		136.10 - 136.70										
142.90	149.25	LAPILLI/ASH TUFF Hole re-entered at 142.90 m on August 12, 1992. Massive, medium grey-green, chloritic to sericitic heterolithic lapilli tuff interdigitated with very fine grained, grey-green ash tuffs. Non magnetic.	7845	136.00	136.70	0.70					0.01	
			7846	136.70	137.50	0.80					NIL	
			7847	137.50	138.50	1.00					NIL	
		145.00										
		145.00 - 149.25										
		145.90 - 146.10										
		149.10 - 149.25										
149.25	183.30	GRAYWACKE/LAPILLI TUFF/MUDSTONE Massive to weakly foliated, chloritic graywacke intercalated with mudstone beds and lapilli tuff horizons. Mudstone beds and very irregular and range for 0.5-5 cm wide. Lapilli tuff horizons are up to 1 m wide, generally with gradational contacts and some sediment mixing of clasts. Bedding @ 40-50° tca.	3925	143.00	144.00	1.00			Tr.	Tr.	0.01	
			3926	144.00	144.50	0.50				Tr.	Tr.	NIL
			3927	144.50	145.10	0.60		Tr.	Tr.	2-3	0.17	
			3928	145.10	145.60	0.50		Tr.	Tr.	2-3	0.02	
			3929	145.60	146.10	0.50		1-2	Tr.	2-3	0.09	
			3930	146.10	147.00	0.90		Tr.	Tr.	2-3	NIL	
			3931	147.00	148.00	1.00			Tr.	2-3	0.02	
			3932	148.00	148.50	0.50			Tr.	Tr.	NIL	
			3933	148.50	149.10	0.60			Tr.	Tr.	0.01	
			3934	149.10	149.60	0.50		Tr.	2	10-15	0.01	
			3935	149.60	150.50	0.90		Tr.	Tr.	1-2	0.02	
			3936	150.50	151.00	0.50		Tr.	Tr.	2-3	0.08	
			3937	151.00	151.50	0.50		Tr.	Tr.	Tr.	0.02	
			3938	151.50	152.00	0.50			1-2	2-3	0.01	
			3939	152.00	153.00	1.00			Tr.	2-3	0.02	
			3940	153.00	154.00	1.00			1-2	3-5	NIL	

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

HOLE: AK-91-30

PAGE: 1 of 11

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

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

PURPOSE To test "102" structure

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

SIGNED BY _____
(W. Benham)

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 6.50	OVERBURDEN	299.70 304.00	GRAYWACKE			
6.50 8.80	FAULT @ 10° TCA Sericite + chlorite + ankerite + quartz.	304.00 322.15	GRAYWACKE/CONGLOMERATE Bleached, sericitic.	42.00 43.00	1.00	0.44
8.80 83.50	CONGLOMERATE Chloritic	322.15 347.00	ASH TUFF Bleached sericitic.	107.00 118.30	11.30	1.80
83.50 90.70	GRAYWACKE	347.00 352.00	ASH/LAPILLI TUFF	107.50 112.00	4.50	2.88
90.70 100.50	CONGLOMERATE		Hematitic	107.50 109.00	1.50	4.88
100.50 122.00	CONGLOMERATE Weakly sericitic	352.00 353.00	CONGLOMERATE Weakly sericitic.	107.50 108.00	0.50	11.01
	107.60 - 107.90 Silicified zone with 0.5% pyrite.	353.00 359.90	ASH TUFF	110.50 112.00	1.50	3.71
	117.95 - 118.25 Sericite + quartz + 1% pyrite.		Hematitic	112.00 118.30	6.30	1.15
122.00 128.00	CONGLOMERATE ± SYENITE (?) Hematized.	359.90 363.50	CONGLOMERATE	117.90 118.30	0.40	15.12
128.00 147.00	CONGLOMERATE Chloritic	363.50 369.45	ASH/LAPILLI TUFF Hematitic			
147.00 154.00	LAPILLI TUFF	369.45 371.80	FAULT-SHEAR ZONE Sheared mudstones and conglomerates.			
154.00 196.00	CONGLOMERATE	371.80 387.45	LAPILLI TUFF Hematitic			
196.00 210.50	GRAYWACKE					
210.50 222.30	CONGLOMERATE					
222.30 229.00	GRAYWACKE/MUDSTONE					
229.00 237.00	LAPILLI TUFF	387.45	E. O. H.			
237.00 237.70	FAULT ZONE - CHLORITE + SERICITE					
237.70 299.70	LAPILLI TUFF					

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

HOLE: AK-91-30

PAGE: 2 of 11

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

PURPOSE To test "102" structure

COMMENTS Hole extended from 321.70 to 387.45.
"103" gold zone @ 107.00 - 118.30, 113.3 m.

SIGNED BY _____
(W. Benham)

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

SUMMARY LOG

ASSAY SUMMARY

INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t																																																																																																								
	<table border="1"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr><td>Collar</td><td>Compass</td><td>161</td><td>56</td></tr> <tr><td>7.9</td><td>Acid</td><td></td><td>56</td></tr> <tr><td>29.0</td><td>Acid</td><td></td><td>56</td></tr> <tr><td>93.0</td><td>Acid</td><td></td><td>55</td></tr> <tr><td>100.0</td><td>Sperry Sun</td><td>161</td><td>56</td></tr> <tr><td>124.0</td><td>Acid</td><td></td><td>54</td></tr> <tr><td>154.0</td><td>Acid</td><td></td><td>53</td></tr> <tr><td>185.0</td><td>Acid</td><td></td><td>52</td></tr> <tr><td>200.0</td><td>Sperry Sun</td><td>161</td><td>54</td></tr> <tr><td>215.0</td><td>Acid</td><td></td><td>50</td></tr> <tr><td>246.0</td><td>Acid</td><td></td><td>49</td></tr> </tbody> </table>	Depth	Method	Azimuth	Dip	Collar	Compass	161	56	7.9	Acid		56	29.0	Acid		56	93.0	Acid		55	100.0	Sperry Sun	161	56	124.0	Acid		54	154.0	Acid		53	185.0	Acid		52	200.0	Sperry Sun	161	54	215.0	Acid		50	246.0	Acid		49		<table border="1"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr><td>290.0</td><td>Acid</td><td></td><td>48</td></tr> <tr><td>300.0</td><td>Sperry Sun</td><td></td><td>47</td></tr> <tr><td>337.0</td><td>Acid</td><td></td><td>46</td></tr> <tr><td>366.0</td><td>Acid</td><td></td><td>44</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Depth	Method	Azimuth	Dip	290.0	Acid		48	300.0	Sperry Sun		47	337.0	Acid		46	366.0	Acid		44																																							
Depth	Method	Azimuth	Dip																																																																																																											
Collar	Compass	161	56																																																																																																											
7.9	Acid		56																																																																																																											
29.0	Acid		56																																																																																																											
93.0	Acid		55																																																																																																											
100.0	Sperry Sun	161	56																																																																																																											
124.0	Acid		54																																																																																																											
154.0	Acid		53																																																																																																											
185.0	Acid		52																																																																																																											
200.0	Sperry Sun	161	54																																																																																																											
215.0	Acid		50																																																																																																											
246.0	Acid		49																																																																																																											
Depth	Method	Azimuth	Dip																																																																																																											
290.0	Acid		48																																																																																																											
300.0	Sperry Sun		47																																																																																																											
337.0	Acid		46																																																																																																											
366.0	Acid		44																																																																																																											

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

HOLE: AK-91-31


PAGE: 1 of 17

PROPERTY	Amalgamated Kirkland	DATE LOGGED	August 7, 1991 - August 13, 1991	EASTING	8190.1
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10366.4
CLAIM No.	L 491662, L 491663	DRILLED BY	Heath & Sherwood	ELEVATION	331.8
STARTED	August 6, 1991	CORE LOCATION	Kirkland Lake Warehouse	COLLAR SURVEY	Northland Technical
COMPLETED	August 13, 1991	DOWNHOLE SURVEYOR	B.M.C.I.	LENGTH	409.75
		SURVEY INSTRUMENT	Sperry Sun 1992	UNITS	metres
				CORE SIZE	NQ

PURPOSE To test "102" structure

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

SIGNED BY


(W. Benham)

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

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 3.65	OVERBURDEN	306.80 307.70	MUDSTONE			
3.65 41.00	LAPILLI TUFF	307.70 333.80	GRAYWACKE	237.10 239.10	2.00	0.27
	Chloritic		Sericitic			
41.00 69.10	LAPILLI TUFF		316.05 - 316.40 Quartz + chlorite + pyrite vein.	258.40 261.50	3.10	3.63
69.10 79.40	LAPILLI TUFF		317.20 - 317.65 Quartz and quartz + chlorite ± pyrite	260.50 260.90	0.40	27.12
	Sericitic + hematitic					
79.40 86.30	LAPILLI/ASH TUFF	333.80 339.50	TRACHYTIC FLOW			
86.30 113.00	LAPILLI TUFF	339.50 362.00	GRAYWACKE	334.50 335.00	0.50	0.43
	Leucitic		Sericitic + chloritic + pyritic			
113.00 127.60	GRAYWACKE/MUDSTONE/CONGLOMERATE		348.60 - 349.20 Quartz and quartz + chlorite + pyrite veins.	347.40 348.00	0.60	0.16
127.60 230.00	GRAYWACKE		359.15 - 359.20 Quartz + chlorite + pyrite zone with VISIBLE GOLD.	358.60 359.10	0.50	0.14
230.00 246.20	CONGLOMERATE					
246.20 247.30	DIABASE DYKE					
247.30 256.90	CONGLOMERATE	362.00 368.40	CONGLOMERATE	359.10 364.25	5.15	9.70
	Chloritic		Sericitic			
256.90 270.10	GRAYWACKE		362.00 - 362.20 5-7% quartz + albite veins, 1-2% quartz flooding with 1% pyrite.	359.10 359.60	0.50	42.43
	260.60 - 260.90 Quartz + pyrite + sericite vein.		0.5% pyrite in matrix.	361.90 362.20	0.30	12.52
270.10 273.20	LAPILLI TUFF		363.40 - 364.25 Silicified, 50% quartz veins and quartz flooding, 0.5 -1% pyrite.	363.40 364.25	0.85	23.43
273.20 277.20	ASH TUFF					
277.20 282.40	GRAYWACKE/MUDSTONE/LAPILLI/ASH TUFF					
282.40 284.10	MUDSTONE/SILTSTONE	368.40 369.65	SILTSTONE	364.25 364.65	0.40	0.23
284.10 306.80	ASH TUFF	369.65 372.00	GRAYWACKE	366.20 367.00	0.80	0.22
	Chloritic + hematitic.	372.00 373.20	CONGLOMERATE			

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

HOLE: AK-91-31

PAGE: 2 of 17

PROPERTY	Amalgamated Kirkland	DATE LOGGED	August 7, 1991 - August 13, 1991	EASTING	8190.1
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10366.4
CLAIM No.	L 491662, L 491663	DRILLED BY	Heath & Sherwood	ELEVATION	331.8
STARTED	August 6, 1991	CORE LOCATION	Kirkland Lake Warehouse	COLLAR SURVEY	Northland Technical
COMPLETED	August 13, 1991	DOWNHOLE SURVEYOR	B.M.C.I.	LENGTH	409.75
		SURVEY INSTRUMENT	Sperry Sun 1992	UNITS	metres
				CORE SIZE	NQ

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

PURPOSE To test "102" structure

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

SIGNED BY _____
(W. Benham)

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
373.20 375.15	MUDSTONE Sericitic and foliated.			372.60 373.20	0.60	0.13
375.15 377.00	GRAYWACKE Sericitic and foliated.			382.40 383.00	0.60	0.15
	376.45 - 377.00 Sheared, quartz + sericite + pyrite zone.			387.00 388.00	1.00	0.17
377.00 379.30	MUDSTONE					
379.30 382.40	GRAYWACKE					
382.40 389.30	CONGLOMERATE					
389.30 395.60	MUDSTONE					
395.60 409.75	GRAYWACKE					
	398.60 - 399.40 Fault @ 40° tca, sericite + quartz + pyrite.					
	406.40 - 406.50 Fault @ 60° tca					
	406.75 - 406.80 Fault @ 65° tca					
409.75	E. O. H.					

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

HOLE: AK-91-31

PAGE: 3 of 17

PROPERTY	Amalgamated Kirkland	DATE LOGGED	August 7, 1991 - August 13, 1991	EASTING	8190.1
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10366.4
CLAIM No.	L 491662, L 491663	DRILLED BY	Heath & Sherwood	ELEVATION	331.8
STARTED	August 6, 1991	CORE LOCATION	Kirkland Lake Warehouse	COLLAR SURVEY	Northland Technical
COMPLETED	August 13, 1991	DOWNHOLE SURVEYOR	B.M.C.I.	LENGTH	409.75
		SURVEY INSTRUMENT	Sperry Sun 1992	UNITS	metres
				CORE SIZE	NQ

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

PURPOSE To test "102" structure

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

SIGNED BY _____
(W. Benham)

SUMMARY LOG				ASSAY SUMMARY																																																																																																		
INTERVAL From To	DESCRIPTION			INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t																																																																																														
	<table border="1"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr><td>Collar</td><td>Compass</td><td>161</td><td>65</td></tr> <tr><td>8.0</td><td>Acid</td><td></td><td>65</td></tr> <tr><td>30.5</td><td>Acid</td><td></td><td>64</td></tr> <tr><td>61.0</td><td>Acid</td><td></td><td>63</td></tr> <tr><td>91.0</td><td>Acid</td><td></td><td>62</td></tr> <tr><td>100.0</td><td>Sperry Sun</td><td>158</td><td>63</td></tr> <tr><td>122.0</td><td>Acid</td><td></td><td>61</td></tr> <tr><td>152.0</td><td>Acid</td><td></td><td>60</td></tr> <tr><td>183.0</td><td>Acid</td><td></td><td>60</td></tr> <tr><td>200.0</td><td>Sperry Sun</td><td>157</td><td>62</td></tr> <tr><td>215.0</td><td>Acid</td><td></td><td>59</td></tr> </tbody> </table>	Depth	Method	Azimuth	Dip	Collar	Compass	161	65	8.0	Acid		65	30.5	Acid		64	61.0	Acid		63	91.0	Acid		62	100.0	Sperry Sun	158	63	122.0	Acid		61	152.0	Acid		60	183.0	Acid		60	200.0	Sperry Sun	157	62	215.0	Acid		59		<table border="1"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr><td>244.0</td><td>Acid</td><td></td><td>58</td></tr> <tr><td>275.0</td><td>Acid</td><td></td><td>57</td></tr> <tr><td>300.0</td><td>Sperry Sun</td><td>155</td><td>60</td></tr> <tr><td>305.0</td><td>Acid</td><td></td><td>56</td></tr> <tr><td>338.0</td><td>Acid</td><td></td><td>55</td></tr> <tr><td>350.0</td><td>Sperry Sun</td><td>150</td><td>57.5</td></tr> <tr><td>366.0</td><td>Acid</td><td></td><td>54</td></tr> <tr><td>396.0</td><td>Acid</td><td></td><td>53</td></tr> <tr><td>400.0</td><td>Sperry Sun</td><td>149</td><td>55</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Depth	Method	Azimuth	Dip	244.0	Acid		58	275.0	Acid		57	300.0	Sperry Sun	155	60	305.0	Acid		56	338.0	Acid		55	350.0	Sperry Sun	150	57.5	366.0	Acid		54	396.0	Acid		53	400.0	Sperry Sun	149	55											
Depth	Method	Azimuth	Dip																																																																																																			
Collar	Compass	161	65																																																																																																			
8.0	Acid		65																																																																																																			
30.5	Acid		64																																																																																																			
61.0	Acid		63																																																																																																			
91.0	Acid		62																																																																																																			
100.0	Sperry Sun	158	63																																																																																																			
122.0	Acid		61																																																																																																			
152.0	Acid		60																																																																																																			
183.0	Acid		60																																																																																																			
200.0	Sperry Sun	157	62																																																																																																			
215.0	Acid		59																																																																																																			
Depth	Method	Azimuth	Dip																																																																																																			
244.0	Acid		58																																																																																																			
275.0	Acid		57																																																																																																			
300.0	Sperry Sun	155	60																																																																																																			
305.0	Acid		56																																																																																																			
338.0	Acid		55																																																																																																			
350.0	Sperry Sun	150	57.5																																																																																																			
366.0	Acid		54																																																																																																			
396.0	Acid		53																																																																																																			
400.0	Sperry Sun	149	55																																																																																																			

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

HOLE: AK-91-32

PAGE: 1 of 12

PROPERTY	Amalgamated Kirkland	DATE LOGGED	August 15, 1991 - August 21, 1991	EASTING	8400.4
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10032.0
CLAIM No.	L 491663	DRILLED BY	Heath & Sherwood	ELEVATION	314.3
STARTED	August 15, 1991	CORE LOCATION	Kirkland Lake Warehouse	COLLAR SURVEY	Northland Technical
COMPLETED	August 20, 1991	DOWNHOLE SURVEYOR	B.M.C.I.	LENGTH	390.80
		SURVEY INSTRUMENT	Tropari 1991; Sperry Sun 1992	UNITS	metres
				CORE SIZE	NQ

PURPOSE To test "102" structure

COMMENTS No anomalous assays

SIGNED BY


(W. Benham)

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

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 7.00	OVERBURDEN	179.50 221.10	ASH TUFF			
7.00 15.10	ASH TUFF	221.10 249.20	LAPILLI TUFF			
	Foliated @ 20° tca.	249.20 272.00	ASH TUFF			
15.10 17.40	CONGLOMERATE		269.70 - 270.00			
17.40 17.70	FAULT BRECCIA @ 35° TCA	272.00 279.50	Fault @ 40° tca.			
17.70 30.20	ASH TUFF	279.50 298.10	LAPILLI TUFF			
	Hematitic	298.10 307.00	ASH TUFF			
	27.95 - 28.40		GRAYWACKE/SILTSTONE			
	Fault @ 25° tca.		305.20 - 305.40			
	29.70 - 30.20	307.00 318.50	Fault @ 50° tca.			
	Quartz + chlorite + pyrite veins.	318.50 327.00	ASH/LAPILLI TUFF			
30.20 33.40	CONGLOMERATE	327.00 333.00	GRAYWACKE/SILTSTONE			
33.40 35.20	ASH TUFF		LAPILLI TUFF			
35.20 60.00	CONGLOMERATE/TUFF		Bleached			
	Foliated @ 5-25° tca to 43.0 m.	333.00 354.50	GRAYWACKE			
60.00 77.70	CONGLOMERATE		336.60 - 337.40			
	Chloritic		Qtz + chlorite breccia ± pyrite.			
77.70 92.20	ASH TUFF		343.50 - 344.55			
	Hematitic		Qtz + chlorite breccia ± pyrite.			
	82.70 - 83.40	354.50 361.10	347.50 - 348.20			
	Fault @ 15° tca.		Qtz + chlorite breccia ± pyrite.			
92.20 106.60	LAPILLI TUFF		350.60 - 351.70			
	Chloritic, hematitic		Qtz + chlorite breccia ± pyrite.			
106.60 107.70	FAULT ZONE @ 45° TCA	361.10 390.80	GRAYWACKE/CONGLOMERATE			
107.70 119.10	ASH TUFF		359.10 - 359.50			
119.10 179.50	LAPILLI TUFF/CONGLOMERATE	390.80	Fault @ 45° tca.			
			GRAYWACKE			
			E. O. H.			

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

HOLE: AK-91-32

PAGE: 2 of 12

PROPERTY	Amalgamated Kirkland	DATE LOGGED	August 15, 1991 - August 21, 1991	EASTING	8400.4
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10032.0
CLAIM No.	L 491663	DRILLED BY	Heath & Sherwood	ELEVATION	314.3
STARTED	August 15, 1991	CORE LOCATION	Kirkland Lake Warehouse	COLLAR SURVEY	Northland
COMPLETED	August 20, 1991	DOWNHOLE SURVEYOR	B.M.C.I.		Technical
		SURVEY INSTRUMENT	Tropari 1991; Sperry Sun 1992	LENGTH	390.80
				UNITS	metres
				CORE SIZE	NQ

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

PURPOSE To test "102" structure

COMMENTS No anomalous assays

SIGNED BY _____

(W. Benham)

SUMMARY LOG				ASSAY SUMMARY																																																																																																		
INTERVAL From To	DESCRIPTION			INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t																																																																																														
	<table border="1"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr><td>Collar</td><td>Compass</td><td>341</td><td>60</td></tr> <tr><td>7.3</td><td>Acid</td><td></td><td>60</td></tr> <tr><td>30.0</td><td>Acid</td><td></td><td>60</td></tr> <tr><td>50.0</td><td>Sperry Sun</td><td>345</td><td>59</td></tr> <tr><td>61.0</td><td>Acid</td><td></td><td>59</td></tr> <tr><td>91.0</td><td>Acid</td><td></td><td>57</td></tr> <tr><td>100.0</td><td>Sperry Sun</td><td>342</td><td>58</td></tr> <tr><td>122.0</td><td>Acid</td><td></td><td>56</td></tr> <tr><td>154.0</td><td>Acid</td><td></td><td>55</td></tr> <tr><td>185.0</td><td>Acid</td><td></td><td>54</td></tr> <tr><td>200.0</td><td>Sperry Sun</td><td>339</td><td>55</td></tr> </tbody> </table>	Depth	Method	Azimuth	Dip	Collar	Compass	341	60	7.3	Acid		60	30.0	Acid		60	50.0	Sperry Sun	345	59	61.0	Acid		59	91.0	Acid		57	100.0	Sperry Sun	342	58	122.0	Acid		56	154.0	Acid		55	185.0	Acid		54	200.0	Sperry Sun	339	55		<table border="1"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr><td>215.0</td><td>Acid</td><td></td><td>53</td></tr> <tr><td>246.0</td><td>Acid</td><td></td><td>52</td></tr> <tr><td>275.0</td><td>Acid</td><td></td><td>51</td></tr> <tr><td>300.0</td><td>Sperry Sun</td><td>338</td><td>51</td></tr> <tr><td>307.0</td><td>Acid</td><td></td><td>49</td></tr> <tr><td>335.0</td><td>Acid</td><td></td><td>47</td></tr> <tr><td>350.0</td><td>Sperry Sun</td><td>343</td><td>48</td></tr> <tr><td>365.0</td><td>Acid</td><td></td><td>47</td></tr> <tr><td>387.1</td><td>Tropari</td><td>337(?)</td><td>47</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Depth	Method	Azimuth	Dip	215.0	Acid		53	246.0	Acid		52	275.0	Acid		51	300.0	Sperry Sun	338	51	307.0	Acid		49	335.0	Acid		47	350.0	Sperry Sun	343	48	365.0	Acid		47	387.1	Tropari	337(?)	47											
Depth	Method	Azimuth	Dip																																																																																																			
Collar	Compass	341	60																																																																																																			
7.3	Acid		60																																																																																																			
30.0	Acid		60																																																																																																			
50.0	Sperry Sun	345	59																																																																																																			
61.0	Acid		59																																																																																																			
91.0	Acid		57																																																																																																			
100.0	Sperry Sun	342	58																																																																																																			
122.0	Acid		56																																																																																																			
154.0	Acid		55																																																																																																			
185.0	Acid		54																																																																																																			
200.0	Sperry Sun	339	55																																																																																																			
Depth	Method	Azimuth	Dip																																																																																																			
215.0	Acid		53																																																																																																			
246.0	Acid		52																																																																																																			
275.0	Acid		51																																																																																																			
300.0	Sperry Sun	338	51																																																																																																			
307.0	Acid		49																																																																																																			
335.0	Acid		47																																																																																																			
350.0	Sperry Sun	343	48																																																																																																			
365.0	Acid		47																																																																																																			
387.1	Tropari	337(?)	47																																																																																																			

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

HOLE: AK-91-33

PAGE: 1 of 12

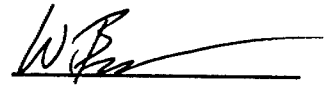
PROPERTY	Amalgamated Kirkland	DATE LOGGED	August 22, 1991 - August 29, 1991	EASTING	7999.0
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10370.5
CLAIM No.	L 491650, L 491651	DRILLED BY	Heath & Sherwood	ELEVATION	344.4
STARTED	August 21, 1991	CORE LOCATION	Kirkland Lake Warehouse	COLLAR SURVEY	Northland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

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

PURPOSE To test "102" structure

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

SIGNED BY


(W. Benham)

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 2.13	OVERBURDEN					
2.13 26.90	LAPILLI/ASH TUFF	282.90 337.70	275.50 - 276.10 Shear zone @ 40° tca. ASH TUFF	275.50 276.10	0.60	0.13
26.90 62.80	25.00 - 25.50 Fault @ 15-40° tca. SILTSTONE/MUDSTONE	337.70 370.70	306.90 - 307.20 Fault zone @ 50° tca. LAPILLI TUFF	378.80 379.25	0.45	0.16
62.80 228.10	54.80 - 55.10 Fault @ 30° tca. LAPILLI TUFF		340.50 - 350.00 Fractured, sericitic, bleached. 1-3% quartz + calcite and chlorite veinlets @ 10-15° tca.			
	139.70 - 139.90 Fault @ 55° tca. 146.90 - 147.30 Fault @ 45° tca. 189.00 - 189.01 Fault @ 35° tca. 212.80 - 213.50 Shear zone @ 25° tca. 226.50 - 226.90 Fault @ 60° tca. 227.60 - 228.10 Fault @ 65° tca.	370.70 389.10	LAPILLI TUFF Sericitic			
228.10 229.60	GRAYWACKE	389.10 398.00	389.00 - 389.10 Fault @ 60° tca.			
229.60 232.70	MUDSTONE	398.00 411.00	LAPILLI TUFF/SILTSTONE			
232.70 240.20	LAPILLI TUFF	411.00 414.90	LAPILLI TUFF			
240.20 246.90	GRAYWACKE	414.90 423.80	SILTSTONE			
246.90 248.90	LAPILLI TUFF	423.80 432.30	LAPILLI TUFF			
248.90 255.90	MUDSTONE/SILTSTONE	432.30 454.75	SILTSTONE/MUDSTONE			
	251.25 - 251.35 Quartz + sericite + pyrite vein @ 70° tca.		427.40 - 429.00 Shear zone @ 45° tca. GRAYWACKE			
255.90 282.90	GRAYWACKE	454.75	442.90 Fault @ 30° tca.			
	1-2% quartz + chlorite veinlets @ 15-65° tca, trace pyrite.		E. O. H.			

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

HOLE: AK-91-33

PAGE: 2 of 12

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

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

PURPOSE To test "102" structure

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

SIGNED BY _____
(W. Benham)

SUMMARY LOG				ASSAY SUMMARY																																																																																																																																																					
INTERVAL From To		DESCRIPTION		INTERVAL From To		DESCRIPTION		INTERVAL From To		LENGTH in metres		AVERAGE Au g/t																																																																																																																																													
		<table border="1"> <thead> <tr><th>Depth</th><th>Method</th><th>Azimuth</th><th>Dip</th></tr> </thead> <tbody> <tr><td>Collar</td><td>Compass</td><td>161</td><td>65</td></tr> <tr><td>3.0</td><td>Acid</td><td></td><td>65</td></tr> <tr><td>30.0</td><td>Acid</td><td></td><td>65</td></tr> <tr><td>48.0</td><td>Tropari</td><td>166</td><td>63</td></tr> <tr><td>50.0</td><td>Sperry Sun</td><td>165</td><td>66.5</td></tr> <tr><td>61.0</td><td>Acid</td><td></td><td>64</td></tr> <tr><td>93.0</td><td>Acid</td><td></td><td>63</td></tr> <tr><td>100.0</td><td>Sperry Sun</td><td>164</td><td>66</td></tr> <tr><td>124.0</td><td>Acid</td><td></td><td>63</td></tr> <tr><td>152.0</td><td>Acid</td><td></td><td>63</td></tr> <tr><td>185.0</td><td>Acid</td><td></td><td>62</td></tr> </tbody> </table>	Depth	Method	Azimuth	Dip	Collar	Compass	161	65	3.0	Acid		65	30.0	Acid		65	48.0	Tropari	166	63	50.0	Sperry Sun	165	66.5	61.0	Acid		64	93.0	Acid		63	100.0	Sperry Sun	164	66	124.0	Acid		63	152.0	Acid		63	185.0	Acid		62		<table border="1"> <thead> <tr><th>Depth</th><th>Method</th><th>Azimuth</th><th>Dip</th></tr> </thead> <tbody> <tr><td>200.0</td><td>Sperry Sun</td><td>164</td><td>64.5</td></tr> <tr><td>215.0</td><td>Acid</td><td></td><td>60</td></tr> <tr><td>246.0</td><td>Acid</td><td></td><td>59</td></tr> <tr><td>250.0</td><td>Sperry Sun</td><td>159</td><td>63.5</td></tr> <tr><td>277.0</td><td>Acid</td><td></td><td>60</td></tr> <tr><td>300.0</td><td>Sperry Sun</td><td>157</td><td>62.5</td></tr> <tr><td>305.0</td><td>Acid</td><td></td><td>59</td></tr> <tr><td>335.0</td><td>Acid</td><td></td><td>60</td></tr> <tr><td>368.0</td><td>Acid</td><td></td><td>58</td></tr> <tr><td>396.0</td><td>Tropari</td><td>169(?)</td><td>57</td></tr> <tr><td>398.0</td><td>Acid</td><td></td><td>57</td></tr> </tbody> </table>	Depth	Method	Azimuth	Dip	200.0	Sperry Sun	164	64.5	215.0	Acid		60	246.0	Acid		59	250.0	Sperry Sun	159	63.5	277.0	Acid		60	300.0	Sperry Sun	157	62.5	305.0	Acid		59	335.0	Acid		60	368.0	Acid		58	396.0	Tropari	169(?)	57	398.0	Acid		57		<table border="1"> <thead> <tr><th>Depth</th><th>Method</th><th>Azimuth</th><th>Dip</th></tr> </thead> <tbody> <tr><td>400.0</td><td>Sperry Sun</td><td>151</td><td>58</td></tr> <tr><td>450.0</td><td>Tropari</td><td>170(?)</td><td>59</td></tr> <tr><td>450.0</td><td>Sperry Sun</td><td>147</td><td>55</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Depth	Method	Azimuth	Dip	400.0	Sperry Sun	151	58	450.0	Tropari	170(?)	59	450.0	Sperry Sun	147	55																																			
Depth	Method	Azimuth	Dip																																																																																																																																																						
Collar	Compass	161	65																																																																																																																																																						
3.0	Acid		65																																																																																																																																																						
30.0	Acid		65																																																																																																																																																						
48.0	Tropari	166	63																																																																																																																																																						
50.0	Sperry Sun	165	66.5																																																																																																																																																						
61.0	Acid		64																																																																																																																																																						
93.0	Acid		63																																																																																																																																																						
100.0	Sperry Sun	164	66																																																																																																																																																						
124.0	Acid		63																																																																																																																																																						
152.0	Acid		63																																																																																																																																																						
185.0	Acid		62																																																																																																																																																						
Depth	Method	Azimuth	Dip																																																																																																																																																						
200.0	Sperry Sun	164	64.5																																																																																																																																																						
215.0	Acid		60																																																																																																																																																						
246.0	Acid		59																																																																																																																																																						
250.0	Sperry Sun	159	63.5																																																																																																																																																						
277.0	Acid		60																																																																																																																																																						
300.0	Sperry Sun	157	62.5																																																																																																																																																						
305.0	Acid		59																																																																																																																																																						
335.0	Acid		60																																																																																																																																																						
368.0	Acid		58																																																																																																																																																						
396.0	Tropari	169(?)	57																																																																																																																																																						
398.0	Acid		57																																																																																																																																																						
Depth	Method	Azimuth	Dip																																																																																																																																																						
400.0	Sperry Sun	151	58																																																																																																																																																						
450.0	Tropari	170(?)	59																																																																																																																																																						
450.0	Sperry Sun	147	55																																																																																																																																																						

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

HOLE: AK-91-35

PAGE: 1 of 12

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

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

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

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

SIGNED BY


(W. Benham)

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 4.00	OVERBURDEN		Weakly sericitic.			
4.00 15.60	LAPILLI TUFF		321.10 - 321.20 Sheared, sericitic, 5-7% quartz, trace pyrite.	223.00 226.00	3.00	0.13
15.60 49.60	MUDSTONE/SILTSTONE		325.90 - 326.20 Sheared @ 70° tca. 3% quartz veins, 1% pyrite.	340.50 341.50	1.00	0.10
49.60 65.70	GRAYWACKE		336.95 - 337.10 Quartz + sericite + chlorite + pyrite vein @ 75° tca.	344.05 347.50	3.45	3.11
65.70 86.60	Sericitic, trace pyrite, 1-2% quartz.		339.20 - 339.30 Quartz + sericite + pyrite vein @ 75° tca.	344.05 344.60	0.55	18.88
86.60 132.50	51.40 - 52.40 Fault breccia @ 15-30° tca.		340.10 Fault @ 40° tca.			
	MUDSTONE/SILTSTONE		340.10 CONGLOMERATE/GRAYWACKE			
	ASH TUFF		343.25 344.10 SYENITE			
132.50 159.60	97.20 - 102.50 Sericitic	340.10 343.25	CONGLOMERATE			
159.60 180.00	121.00 - 121.15 Fault @ 40° tca.	343.25 344.10	344.10 - 344.40 Blue grey, silicified zone. 8-10% pyrite < 0.5% chalcopryrite and molybdenite.			
180.00 220.90	ASH/LAPILLI TUFF	344.10 354.85	344.40 - 345.40 1-2% pyrite clasts/clots.			
	LAPILLI TUFF		347.50 - 348.50 Sericitic, 5% quartz veins, trace pyrite.			
	ASH/LAPILLI TUFF					
	206.00 - 209.50 Sericitic, trace pyrite, 2-3% chlorite breccia veinlets.					
	220.80 - 220.90 Fault gouge @ 65° tca.					
220.90 239.80	CONGLOMERATE					
	Chloritic, foliated @ 50° tca.					
239.80 254.20	GRAYWACKE	354.85 360.40				
254.20 275.60	ASH TUFF	360.40 365.50				
275.60 313.50	LAPILLI TUFF					
313.50 340.10	GRAYWACKE	365.50	E. O. H.			

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

HOLE: AK-91-35

PAGE: 2 of 12

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

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

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

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

SIGNED BY _____
(W. Benham)

SUMMARY LOG				ASSAY SUMMARY																																																																																																		
INTERVAL From To	DESCRIPTION			INTERVAL From To	LENGTH in metres	AVERAGE Au g/t																																																																																																
	<table border="1"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr><td>Collar</td><td>Compass</td><td>341</td><td>50</td></tr> <tr><td>6.0</td><td>Acid</td><td></td><td>50</td></tr> <tr><td>50.0</td><td>Sperry Sun</td><td>343</td><td>48</td></tr> <tr><td>60.0</td><td>Acid</td><td></td><td>49</td></tr> <tr><td>91.0</td><td>Acid</td><td></td><td>47</td></tr> <tr><td>100.0</td><td>Sperry Sun</td><td>341</td><td>46</td></tr> <tr><td>122.0</td><td>Acid</td><td></td><td>47</td></tr> <tr><td>150.0</td><td>Sperry Sun</td><td>338</td><td>44</td></tr> <tr><td>152.0</td><td>Acid</td><td></td><td>46</td></tr> <tr><td>183.0</td><td>Acid</td><td></td><td>45</td></tr> <tr><td>214.0</td><td>Acid</td><td></td><td>45</td></tr> </tbody> </table>	Depth	Method	Azimuth	Dip	Collar	Compass	341	50	6.0	Acid		50	50.0	Sperry Sun	343	48	60.0	Acid		49	91.0	Acid		47	100.0	Sperry Sun	341	46	122.0	Acid		47	150.0	Sperry Sun	338	44	152.0	Acid		46	183.0	Acid		45	214.0	Acid		45		<table border="1"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr><td>244.0</td><td>Acid</td><td></td><td>44</td></tr> <tr><td>250.0</td><td>Sperry Sun</td><td>339</td><td>42</td></tr> <tr><td>274.0</td><td>Acid</td><td></td><td>44</td></tr> <tr><td>305.0</td><td>Acid</td><td></td><td>43</td></tr> <tr><td>336.0</td><td>Acid</td><td></td><td>43</td></tr> <tr><td>350.0</td><td>Sperry Sun</td><td>340</td><td>41</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Depth	Method	Azimuth	Dip	244.0	Acid		44	250.0	Sperry Sun	339	42	274.0	Acid		44	305.0	Acid		43	336.0	Acid		43	350.0	Sperry Sun	340	41																							
Depth	Method	Azimuth	Dip																																																																																																			
Collar	Compass	341	50																																																																																																			
6.0	Acid		50																																																																																																			
50.0	Sperry Sun	343	48																																																																																																			
60.0	Acid		49																																																																																																			
91.0	Acid		47																																																																																																			
100.0	Sperry Sun	341	46																																																																																																			
122.0	Acid		47																																																																																																			
150.0	Sperry Sun	338	44																																																																																																			
152.0	Acid		46																																																																																																			
183.0	Acid		45																																																																																																			
214.0	Acid		45																																																																																																			
Depth	Method	Azimuth	Dip																																																																																																			
244.0	Acid		44																																																																																																			
250.0	Sperry Sun	339	42																																																																																																			
274.0	Acid		44																																																																																																			
305.0	Acid		43																																																																																																			
336.0	Acid		43																																																																																																			
350.0	Sperry Sun	340	41																																																																																																			

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

HOLE: AK-91-38

PAGE: 1 of 23

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

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

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

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

SIGNED BY


(W. Benham)

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 1.50	OVERBURDEN					
1.50 33.50	ASH/LAPILLI TUFF		432.80 - 432.90 Chlorite + quartz + pyrite breccia vein.	387.35 390.10	2.75	0.41
33.50 55.40	LAPILLI TUFF	433.40 441.60	CONGLOMERATE/GRAYWACKE/MUDSTONE	including		
55.40 84.40	LAPILLI TUFF	441.60 451.80	LAPILLI TUFF	389.50 390.10	0.60	1.14
	Monolithic		Sericitic			
84.40 112.70	LAPILLI TUFF/SILTSTONE	451.80 459.30	ASH TUFF			
112.70 135.55	LAPILLI TUFF		Hematitic	546.90 552.00	5.10	1.97
135.55 144.00	LAPILLI TUFF/CONGLOMERATE	459.30 469.50	LAPILLI TUFF	including		
144.00 241.50	GRAYWACKE		Sericitic	546.90 547.35	0.45	8.18
241.50 261.90	CONGLOMERATE	469.50 545.00	LAPILLI TUFF			
	Foliated @ 30° tca.		Zones of hematite, sericite and chlorite alteration.			
261.90 299.40	LAPILLI TUFF	545.00 560.10	LAPILLI TUFF	559.60 560.60	1.00	0.33
299.40 320.90	GRAYWACKE		Sericitic, foliated @ 35-40° tca.			
320.90 357.70	CONGLOMERATE		546.95 - 547.30 Sericite + pyrite + quartz vein @ 30-40° tca.	566.50 567.00	0.50	0.29
357.70 369.05	LAPILLI TUFF		547.80 - 548.37 Sericite + pyrite + quartz vein @ 30° tca.	568.80 573.50	4.70	0.20
369.05 398.90	CONGLOMERATE		559.20 - 559.55 sericite + pyrite + quartz vein @ 35° tca.			
	381.50 - 390.00 Foliated @ 30° tca, sericite.			577.60 578.60	1.00	2.66
	389.70 - 390.00 Fault @ 55-60° tca, 25% quartz, 1% pyrite.			including		
398.90 420.30	SILTSTONE/MUDSTONE	560.10 564.10	CONGLOMERATE/GRAYWACKE	578.10 578.60	0.50	4.55
420.30 427.90	CONGLOMERATE		Sericitic			
427.90 433.40	GRAYWACKE	564.10 583.10	LAPILLI TUFF			
	431.30 1 cm quartz + pyrite vein.		Sericitic, foliated @ 30° tca.			

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

HOLE: AK-91-38

PAGE: 2 of 23

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

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

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

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

SIGNED BY _____
(W. Benham)

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

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

HOLE: AK-91-38

PAGE: 3 of 23

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

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

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

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

SIGNED BY _____
(W. Benham)

SUMMARY LOG

ASSAY SUMMARY

INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t																																																																																																																																											
	<table border="1"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr><td>Collar</td><td>Compass</td><td>161</td><td>74</td></tr> <tr><td>5.0</td><td>Acid</td><td></td><td>74</td></tr> <tr><td>30.0</td><td>Acid</td><td></td><td>74</td></tr> <tr><td>60.0</td><td>Acid</td><td></td><td>74</td></tr> <tr><td>90.0</td><td>Acid</td><td></td><td>73</td></tr> <tr><td>100.0</td><td>Sperry Sun</td><td>157</td><td>75</td></tr> <tr><td>100.0</td><td>Tropari</td><td>160</td><td>72</td></tr> <tr><td>122.0</td><td>Acid</td><td></td><td>73</td></tr> <tr><td>150.0</td><td>Acid</td><td></td><td>72</td></tr> <tr><td>183.0</td><td>Acid</td><td></td><td>72</td></tr> <tr><td>200.0</td><td>Sperry Sun</td><td>152</td><td>73</td></tr> </tbody> </table>	Depth	Method	Azimuth	Dip	Collar	Compass	161	74	5.0	Acid		74	30.0	Acid		74	60.0	Acid		74	90.0	Acid		73	100.0	Sperry Sun	157	75	100.0	Tropari	160	72	122.0	Acid		73	150.0	Acid		72	183.0	Acid		72	200.0	Sperry Sun	152	73		<table border="1"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr><td>213.0</td><td>Acid</td><td></td><td>71</td></tr> <tr><td>243.0</td><td>Acid</td><td></td><td>69</td></tr> <tr><td>275.0</td><td>Tropari</td><td>160</td><td>69</td></tr> <tr><td>275.0</td><td>Acid</td><td></td><td>69</td></tr> <tr><td>300.0</td><td>Sperry Sun</td><td>147</td><td>70.5</td></tr> <tr><td>305.0</td><td>Acid</td><td></td><td>69</td></tr> <tr><td>335.0</td><td>Acid</td><td></td><td>69</td></tr> <tr><td>365.0</td><td>Acid</td><td></td><td>68</td></tr> <tr><td>400.0</td><td>Acid</td><td></td><td>67</td></tr> <tr><td>425.0</td><td>Acid</td><td></td><td>66</td></tr> <tr><td>450.0</td><td>Sperry Sun</td><td>144</td><td>67</td></tr> </tbody> </table>	Depth	Method	Azimuth	Dip	213.0	Acid		71	243.0	Acid		69	275.0	Tropari	160	69	275.0	Acid		69	300.0	Sperry Sun	147	70.5	305.0	Acid		69	335.0	Acid		69	365.0	Acid		68	400.0	Acid		67	425.0	Acid		66	450.0	Sperry Sun	144	67		<table border="1"> <thead> <tr> <th>Depth</th> <th>Method</th> <th>Azimuth</th> <th>Dip</th> </tr> </thead> <tbody> <tr><td>455.0</td><td>Acid</td><td></td><td>66</td></tr> <tr><td>488.0</td><td>Acid</td><td></td><td>64</td></tr> <tr><td>500.0</td><td>Sperry Sun</td><td>144</td><td>64</td></tr> <tr><td>518.0</td><td>Acid</td><td></td><td>63</td></tr> <tr><td>548.0</td><td>Acid</td><td></td><td>61</td></tr> <tr><td>580.0</td><td>Acid</td><td></td><td>60</td></tr> <tr><td>600.0</td><td>Sperry Sun</td><td>147</td><td>60</td></tr> <tr><td>610.0</td><td>Tropari</td><td>160</td><td>60</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Depth	Method	Azimuth	Dip	455.0	Acid		66	488.0	Acid		64	500.0	Sperry Sun	144	64	518.0	Acid		63	548.0	Acid		61	580.0	Acid		60	600.0	Sperry Sun	147	60	610.0	Tropari	160	60								
Depth	Method	Azimuth	Dip																																																																																																																																														
Collar	Compass	161	74																																																																																																																																														
5.0	Acid		74																																																																																																																																														
30.0	Acid		74																																																																																																																																														
60.0	Acid		74																																																																																																																																														
90.0	Acid		73																																																																																																																																														
100.0	Sperry Sun	157	75																																																																																																																																														
100.0	Tropari	160	72																																																																																																																																														
122.0	Acid		73																																																																																																																																														
150.0	Acid		72																																																																																																																																														
183.0	Acid		72																																																																																																																																														
200.0	Sperry Sun	152	73																																																																																																																																														
Depth	Method	Azimuth	Dip																																																																																																																																														
213.0	Acid		71																																																																																																																																														
243.0	Acid		69																																																																																																																																														
275.0	Tropari	160	69																																																																																																																																														
275.0	Acid		69																																																																																																																																														
300.0	Sperry Sun	147	70.5																																																																																																																																														
305.0	Acid		69																																																																																																																																														
335.0	Acid		69																																																																																																																																														
365.0	Acid		68																																																																																																																																														
400.0	Acid		67																																																																																																																																														
425.0	Acid		66																																																																																																																																														
450.0	Sperry Sun	144	67																																																																																																																																														
Depth	Method	Azimuth	Dip																																																																																																																																														
455.0	Acid		66																																																																																																																																														
488.0	Acid		64																																																																																																																																														
500.0	Sperry Sun	144	64																																																																																																																																														
518.0	Acid		63																																																																																																																																														
548.0	Acid		61																																																																																																																																														
580.0	Acid		60																																																																																																																																														
600.0	Sperry Sun	147	60																																																																																																																																														
610.0	Tropari	160	60																																																																																																																																														

APPENDIX II
ASSAY CERTIFICATES



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Assay Certificate

2W-0096-RA1

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

Date: FEB-05-92

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 1 of 2

2W-0105-RA1

Assay Certificate


Date: FEB-10-92

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

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

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

Au was determined using 1 AT fusions

Certified by 



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 2 of 2

2W-0105-RA1

Date: FEB-10-92

Assay Certificate

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

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

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

Au was determined using 1 AT fusions

Certified by



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 1 of 2

Assay Certificate

2W-0107-RA1

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

Date: FEB-11-92

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 2 of 2

2W-0107-RA1

Assay Certificate

Date: FEB-11-92

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

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

RECEIVED FEB 17 1992

Page 1 of 2

2W-0114-RA1

Assay Certificate

Date: FEB-12-92

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

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 2 of 2

Assay Certificate

2W-0114-RA1

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

Date: FEB-12-92

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 1 of 2

2W-0122-RA1

Assay Certificate

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

Date: FEB-14-92

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 2 of 2

2W-0122-RA1

Assay Certificate

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

Date: FEB-14-92

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

Sample Number	Au g/tonne	Au check g/tonne	Au 2nd g/tonne
2262	1.92		486.0 - 487.0
2263	1.65		407.0 - 408.0
2264	0.55		
2265	0.65		
2266	0.27		
2267	0.10		
2268	0.10		
2269	0.07		491- 492.0

Au was determined using 1 AT fusions

Certified by Donna Garano



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 1 of 2

2W-0169-RA1

Assay Certificate

Date: FEB-18-92

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

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

RECEIVED FEB 24 1992

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 2 of 2

2W-0169-RA1

Assay Certificate

Date: FEB-18-92

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

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Assay Certificate

2W-0161-RA1

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

Date: FEB-20-92

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

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

Au was determined using 1 AT fusions

Certified by Wonna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Assay Certificate

2W-0179-RA1

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

Date: FEB-24-92

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 1 of 2

2W-0185-RA1

Assay Certificate

Date: FEB-28-92

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

RECEIVED MAR 16 1992

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

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

Au was determined using 1 AT fusions

Certified by Wonna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 2 of 2

2W-0185-RA1

Assay Certificate

Date: FEB-28-92

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

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 1 of 2

Assay Certificate

2W-0214-RA1

Date: MAR-05-92

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

RECEIVED MAR 16 1992

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 2 of 2

2W-0214-RA1

Assay Certificate

Date: MAR-05-92

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

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 1 of 2

2W-0215-RA1

Date: MAR-05-92

Assay Certificate

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

RECEIVED MAR 16 1992

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 2 of 2

2W-0215-RA1

Date: MAR-05-92

Assay Certificate

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

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Established 1928

Assaying - Consulting - Representation

Page 1 of 3

2W-0231-RA1

Assay Certificate

Date: MAR-10-92

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

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 2 of 3

2W-0231-RA1

Assay Certificate

Date: MAR-10-92

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

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

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

Au was determined using 1 AT fusions

Certified by Wonna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 3 of 3

2W-0231-RA1

Assay Certificate

Date: MAR-10-92

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

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Assay Certificate

2W-0235-RA1

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

Date: MAR-11-92

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

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

Au was determined using 1 AT fusions

Certified by Donna Herdner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 1 of 2

2W-0260-RA1

Assay Certificate

Date: MAR-17-92

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

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 2 of 2

2W-0260-RA1

Assay Certificate

Date: MAR-17-92

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

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 1 of 3

Assay Certificate

2W-0288-RA1

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

Date: APR-07-92

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 2 of 3

Assay Certificate

2W-0288-RA1

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

Date: APR-07-92

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 3 of 3

2W-0288-RA1

Assay Certificate

Date: APR-07-92

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

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

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

Au was determined using 1 AT fusions

Certified by Gonna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Assay Certificate

2W-0278-RA1

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

Date: **MAR-19-92**

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

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

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Assay Certificate

2W-0614-RA1

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

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

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 1 of 2

2W-0616-RA1

Assay Certificate

Date: JUN-24-92

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

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

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

Au was determined using 1 AT fusions

Certified by *Donna Gardner*



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 2 of 2

2W-0616-RA1

Assay Certificate

Date: JUN-24-92

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

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 1 of 2

2W-0623-RA1

Assay Certificate

Date: JUN-24-92

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

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

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

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

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 2 of 2

2W-0623-RA1

Assay Certificate

Date: JUN-24-92

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

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

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

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

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 1 of 3

2W-0637-RA1

Assay Certificate

Date: JUL-13-92

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

RECEIVED JUL 22 1992

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 2 of 3

2W-0637-RA1

Date: JUL-13-92

Assay Certificate

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

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

RECEIVED JUL 22 1992

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 3 of 3

2W-0637-RA1

Assay Certificate

Date: JUL-13-92

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

RECEIVED JUL 22 1992

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Assay Certificate

2W-0639-RA1

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

Date: JUL-03-92

RECEIVED JUL 13 1992

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Assay Certificate

2W-0641-RA1

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

Date: JUL-03-92

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

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

RECEIVED JUL 13 1992

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

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Assay Certificate

2W-0647-RA1

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

Date: JUL-08-92

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

RECEIVED JUL 13 1992

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Assay Certificate

2W-0650-RA1

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

Date: JUL-08-92

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 1 of 3

Assay Certificate

2W-0669-RA1

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

Date: JUL-09-92

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

RECEIVED JUL 22 1992

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 2 of 3

2W-0669-RA1

Assay Certificate

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

Date: JUL-09-92

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

RECEIVED JUL 22 1992

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 3 of 3

2W-0669-RA1

Assay Certificate

Date: JUL-09-92

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

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

RECEIVED JUL 21 1992

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Assay Certificate

2W-0670-RA1

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

Date: JUL-13-92

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

RECEIVED JUL 22 1992

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 1 of 2

2W-0679-RA1

Assay Certificate

Date: JUL-14-92

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

RECEIVED JUL 22 1992

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 2 of 2

2W-0679-RA1

Assay Certificate

Date: JUL-14-92

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

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

RECEIVED JUL 22 1992

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Assay Certificate

2W-0683-RA1

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

Date: JUL-14-92

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

RECEIVED JUL 22 1992

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

Au was determined using 1 AT fusions

Certified by Donna Gardner

RECEIVED AUG - 4 1992



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Assay Certificate

2W-0759-RA1

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

Date: JUL-29-92

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

RECEIVED AUG 10 1992

Page 1 of 2

2W-0768-RA1

Assay Certificate

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

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

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 2 of 2

Assay Certificate

2W-0768-RA1

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

Date: **JUL-31-92**

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

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Assay Certificate

2W-0787-RA1


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

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

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

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

Au was determined using 1 AT fusions

Certified by 



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 1 of 3

Assay Certificate

2W-0805-RA1

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

Date: AUG-12-92

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

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

Certified by Donna Gardner

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

Telephone (705) 642-3244

FAX (705) 642-3300



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 2 of 3

2W-0805-RA1

Date: AUG-12-92

Assay Certificate

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

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

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

Certified by Donna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 3 of 3

Assay Certificate

2W-0805-RA1

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

Date: AUG-12-92

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

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

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 1 of 2

Assay Certificate

2W-0818-RA1

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

Date: AUG-12-92

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

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

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

Certified by Donna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 2 of 2

Assay Certificate

2W-0818-RA1

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

Date: **AUG-12-92**

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

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

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

Certified by Donna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 1 of 3

Assay Certificate

2W-0858-RA1

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

Date: **AUG-26-92**

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 2 of 3

Assay Certificate

2W-0858-RA1

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

Date: **AUG-26-92**

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

Sample Number	Au g/tonne	Au check g/tonne	Au 2nd g/tonne	Ag PPM	Cu PPM	Mn PPM	Pb PPM	Zn PPM	Te PPM	ICAP Multi
3876	0.72			1.2	190	5	652	40	1	
3877	0.38			0.6	85	5	266	36	1	
3878	3.22			2.1	171	5	144	29	2	
3879	1.12			0.5	221	2	72	41	1	
3880	6.00	5.90	5.78	3.1	425	3	66	33	1	
3881	3.29			1.7	98	5	59	34	1	
3882	1.82	1.65		0.9	45	11	35	34	1	
3883	2.06			1.1	32	15	34	41	1	
3884	0.51			0.3	80	5	17	65	1	
3885	0.54			0.2	41	3	20	81	1	
3886	0.24			0.2	25	4	12	98	1	
3887	0.14			0.1	45	3	8	87	1	
3888	0.02									
3889	0.04									
3890	0.02									
3891	0.02									
3892	Ni1									
3893	0.03									
3894	0.04	0.03								
3895	Ni1									
3896	0.04									
3897	0.01									
3898	0.01									
3899	0.04									
3900	0.01	0.01								
3901	0.01									
3902	Ni1									
3903	Ni1									
3904	0.02									
3905	Ni1									

Au was determined using 1 AT fusions

Certified by Sonna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 1 of 3

Assay Certificate

2W-0858-RA1

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

Date: **AUG-26-92**

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 3 of 3

Assay Certificate

2W-0858-RA1

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

Date: **AUG-26-92**

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Assay Certificate

2W-0859-RA1

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

Date: AUG-20-92

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Assay Certificate

2W-0868-RA1

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

Date: AUG-20-92

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

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

Au was determined using 1 AT fusions

Certified by Wonna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Assay Certificate

2W-0897-RA1

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

Date: **AUG-26-92**

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

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

Au was determined using 1 AT fusions

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

2W-0307-PG1

Date: MAR-24-92

RECEIVED MAR 30 1992

Geochemical Analysis Certificate

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

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

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

Certified by Donna Gardner

SWASTIKA LABORATORIES

P.O. BOX 10, SWASTIKA ONTARIO

PHONE #: 705-642-3244

FAX #: 705-642-3300

REPORT No. : T1309

Page No. : 1 of 1

File No. : MR27MA

Date : MAR-27-1992

BATTLE MOUNTAIN CAN. INC.

ATTN: W. BENHAM

2W-0307-001

I.C.A.P. PLASMA SCAN

Multi Acid Digestion

PROJ:75-JV-28

SAMPLE #	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
2222	26	4.0	20	390	< 1	40	2.3	2	19	1300	280	3.0	0.77	710	36	0.04	45	280	660	30	5	< 10	380	430	83	< 10	5	360	45
2255	14	5.2	< 5	77	< 1	15	2.0	2	19	710	63	3.1	0.64	620	20	0.06	65	510	2300	30	10	< 10	260	490	99	< 10	9	480	70
2258	3	5.6	< 5	260	< 1	25	3.7	110	22	700	54	4.5	1.0	1400	< 2	0.07	74	580	6600	70	13	< 10	440	610	110	< 10	11	9999	83
2386	6	6.0	< 5	620	< 1	35	2.6	2	35	920	110	4.5	0.91	1100	78	0.44	130	740	300	30	16	< 10	490	1900	210	< 10	15	140	120
3156	2	6.7	< 5	310	< 1	25	4.4	< 1	30	890	89	4.1	0.97	930	< 2	0.50	72	1500	60	25	16	< 10	520	1800	210	< 10	23	82	210

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

SIGNED :

DR

Laboratoires TSL/ASSAYERS Laboratories

780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6

PHONE #: 819-797-4653

FAX #: 819-797-4501

REPORT No. : **T1907**

Page No. : 1 of 1

File No. : AT28MB

Date : SEP-01-1992

BATTLE MOUNTIN

2W-0858-RA1

ATTN:W.BENHAM

PROJ.:75-JV-28

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	V ppm	Sr ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
3849	0.73	3.5	3.6	0.85	0.03	27	1100	940	22	300	6	740	31	9999	100	16	330	39	< 2	5	< 1	< 1	< 10	15	8	3	< 10	60	< 5	< 10
3860	0.44	3.8	3.1	0.87	0.01	14	1200	870	20	230	7	430	28	9700	710	18	400	39	< 2	6	6	< 1	< 10	15	9	5	< 10	65	< 5	< 10
3871	0.20	4.0	1.5	0.48	< 0.01	7	990	1100	12	640	6	2600	280	9999	48	13	170	44	4	30	1	< 1	< 10	90	12	2	< 10	510	25	< 10
3872	0.10	5.0	0.53	0.34	< 0.01	8	610	360	9	1200	24	5300	40	9999	110	17	85	22	2	69	< 1	< 1	< 10	40	4	< 1	< 10	290	15	10
3873	0.08	6.4	0.60	0.47	< 0.01	7	1000	320	7	740	20	7000	48	9999	99	11	100	39	< 2	79	< 1	< 1	< 10	35	3	1	< 10	400	< 5	20
3874	0.26	4.1	1.4	0.47	< 0.01	8	900	1100	20	290	5	230	33	900	14	12	170	33	4	6	< 1	< 1	< 10	5	11	2	< 10	140	5	20
3880	0.20	3.0	2.7	0.80	0.01	9	1300	1300	41	250	4	480	26	100	21	9	420	25	< 2	3	< 1	< 1	< 10	5	14	3	< 10	35	< 5	< 10

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

SIGNED :

[Handwritten Signature]

Laboratoires TSL/ASSAYERS Laboratories

780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6

PHONE #: 819-797-4653

FAX #: 819-797-4501

REPORT No. : T1906

Page No. : 1 of 1

File No. : AT28MB

Date : SEP-01-1992

BATTLE MOUNTIN

ATTN: W. BENHAM

PROJ.: 75-JV-28

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Al %	Fe %	Ca %	Mg %	Na %	Ti ppm	Mn ppm	P ppm	Ba ppm	Cr ppm	Zr ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	V ppm	Br ppm	Co ppm	Mo ppm	Ag ppm	Cd ppm	Be ppm	B ppm	Sb ppm	Y ppm	Sc ppm	W ppm	As ppm	Bi ppm	Sn ppm
3981	0.25	0.59	0.06	0.21	0.01	6	39	150	210	200	4	530	16	5800	10	8	350	10	2	< 1	< 1	< 1	< 10	< 5	1	< 1	< 10	< 5	< 5	< 10

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

SIGNED :

W. Benham

Kirkland Lake Project

Amalgamated Kirkland Drilling, 1992

APPENDIX III
CERTIFICATE OF QUALIFICATIONS

Battle Mountain (Canada) Inc.

November, 1992


CERTIFICATE OF QUALIFICATIONS

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

DO HEREBY CERTIFY:

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

Signed: _____



Wayne Benham
Toronto, Ontario

Dated this November 23, 1992

Vol 2 of 3

Battle Mountain (Canada) Inc.

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

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

VOLUME II

DRAWINGS -PART 1

**Toronto, Ontario
November, 1992**

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

Battle Mountain (Canada) Inc.

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

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

VOLUME II

DRAWINGS -PART 1

**Toronto, Ontario
November, 1992**

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

VOLUME II**LIST OF DRAWINGS**

<u>Drawing Number</u>	<u>Description</u>	<u>Scale</u>
DP-003	Drill Plan	1:2,500
GL-030	Drill Plan and Simplified Geology Plan	1:2,500
DC-039-1 to 4	Section 7600 E, Hole AK92-41	1:500
DC-038	Section 7600 E, Hole AK92-41	1:500
DC-036-1 to 3	Section 8000 E, Holes AK92-39, 39A, 43	1:500
DC-006-1 to 4	Section 8050 E, Holes AK92-39A, 43, 44	1:500
DC-008-1 to 3	Section 8100 E, Holes AK92-25 Ext., 39A,43,44,45	1:500
DC-007	Section 8100 E, Hole AK92-43	1:500
DC-066-1, 2	Section 8150, Hole AK92-44	1:500
DC-010-1 to 3	Section 8190E, Hole AK92-42	1:500
DC-017-1 to 3	Section 8400 E, Hole AK92-40	1:500
DC-065	Section 8400 E, Hole AK92-40	1:500

Vol 3 of 3

Battle Mountain (Canada) Inc.

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

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

VOLUME III

DRAWINGS - PART 2

**Toronto, Ontario
November, 1992**

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

Battle Mountain (Canada) Inc.

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

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

VOLUME III

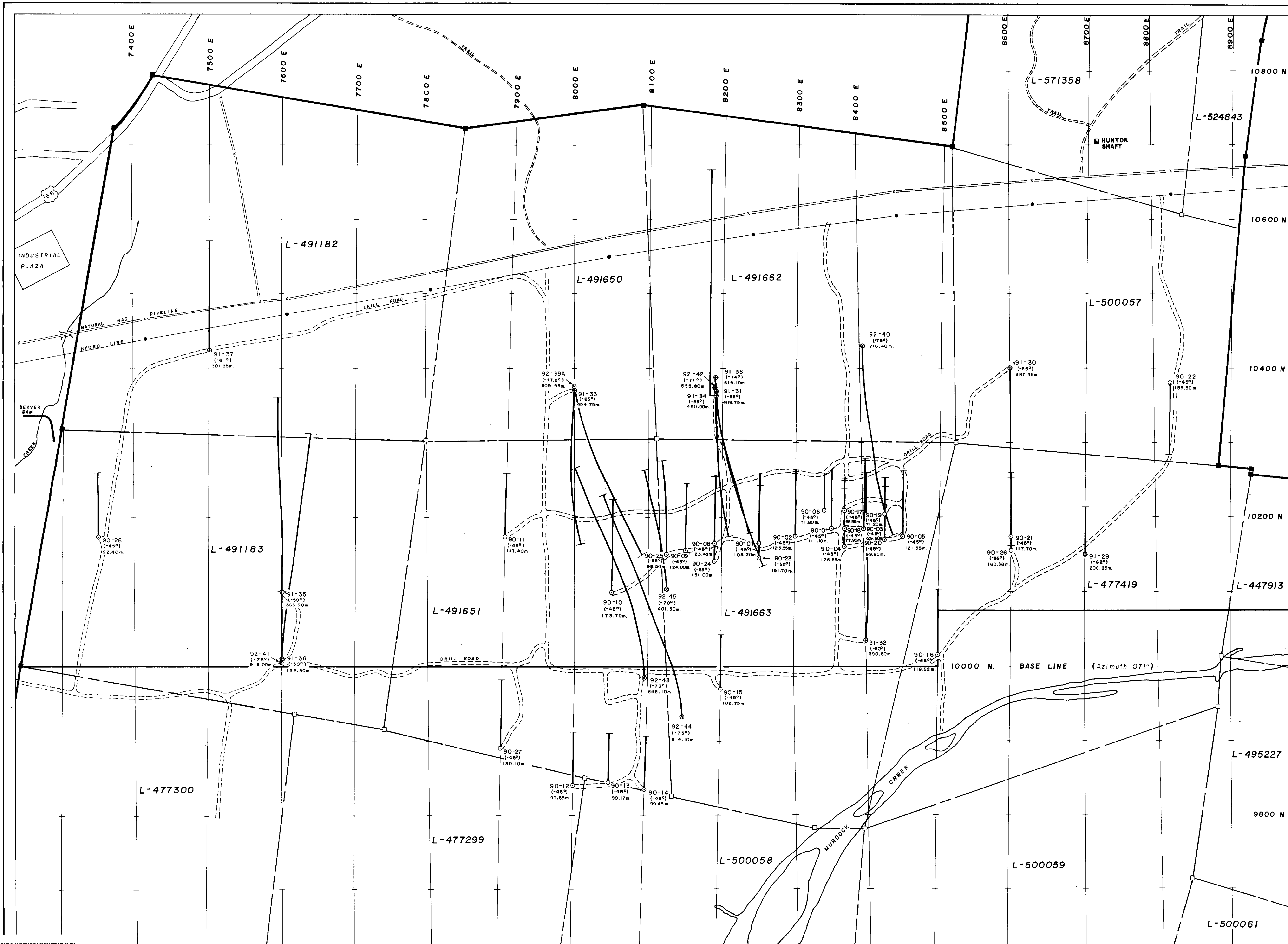
DRAWINGS - PART 2

**Toronto, Ontario
November, 1992**

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

VOLUME IIILIST OF DRAWINGS

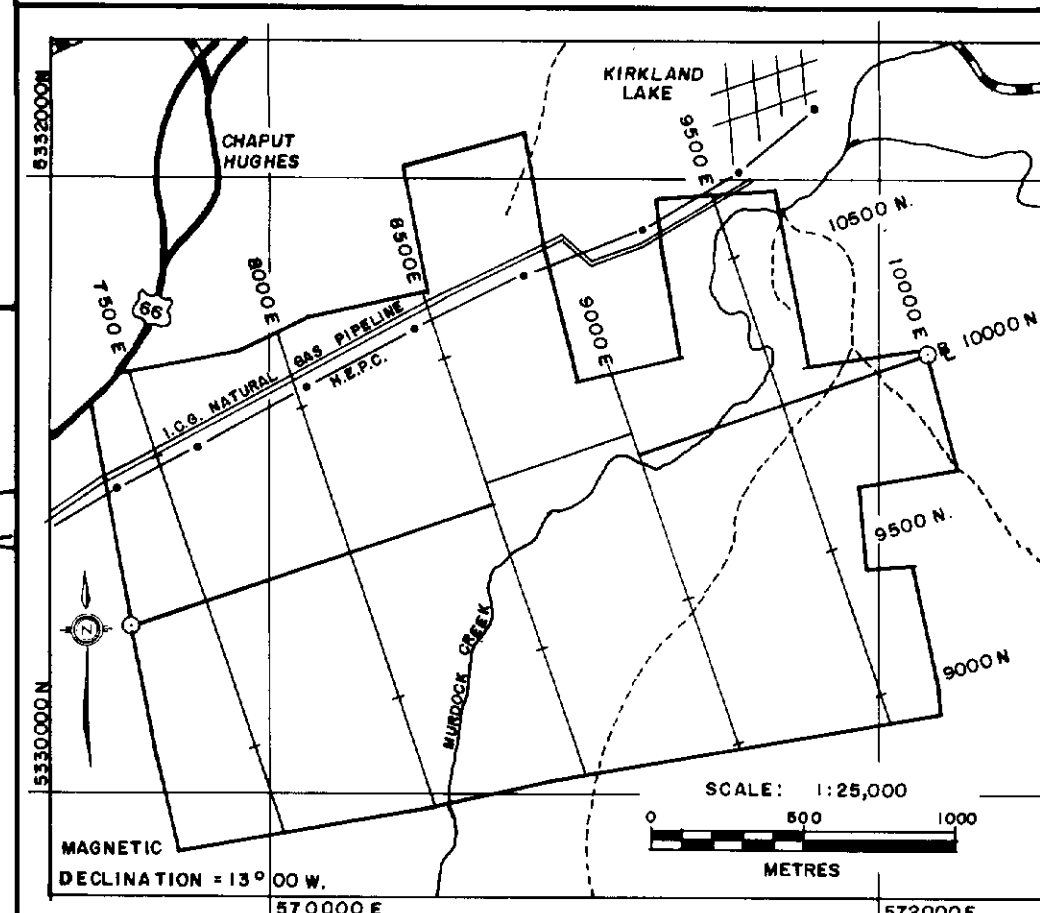
<u>Drawing Number</u>	<u>Description</u>	<u>Scale</u>
DL-008	Vertical Longitudinal Section "102"/"103"/"104" Gold Zones	1:2,500
DL-006	Vertical Longitudinal Section "102" Zone	1:2,500
DL-007	Vertical Longitudinal Section "103" Zone	1:2,500
DL-010	Vertical Longitudinal Section "104" Zone	1:2,500
DL-009	Vertical Longitudinal Section "105", "106" "A-5, -6" and "107" Zones	1:2,500
DC-045	Section 7350E	1:2,500
DC-046	Section 7500E	1:2,500
DC-047	Section 7600E	1:2,500
DC-048	Section 7900E	1:2,500
DC-049	Section 8000E	1:2,500
DC-050	Section 8050E	1:2,500
DC-051	Section 8100E	1:2,500
DC-052	Section 8150E	1:2,500
DC-053	Section 8200E	1:2,500
DC-054	Section 8250E	1:2,500
DC-055	Section 8300E	1:2,500
DC-056	Section 8350E	1:2,500
DC-057	Section 8375E	1:2,500
DC-058	Section 8400E	1:2,500
DC-059	Section 8425E	1:2,500
DC-060	Section 8450E	1:2,500
DC-061	Section 8500E	1:2,500
DC-062	Section 8600E	1:2,500
DC-063	Section 8700E	1:2,500
DC-064	Section 8800E	1:2,500
DC-067	Composite Cross-Section "102" Gold Zone	1:2,500
DC-068	Composite Cross-Section "103" Gold Zone	1:2,500
DC-069	Composite Cross-Section "104" Gold Zone	1:2,500
DC-073	Composite Cross-Section "102/103/104" Gold Zones With Significant Intersections	1:2,500



LEGEND

- 1990 DRILL PROGRAM
- ⊕ 1991 DRILL PROGRAM
- ⊗ 1992 DRILL PROGRAM

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



BATTLE MOUNTAIN (CANADA) INC.

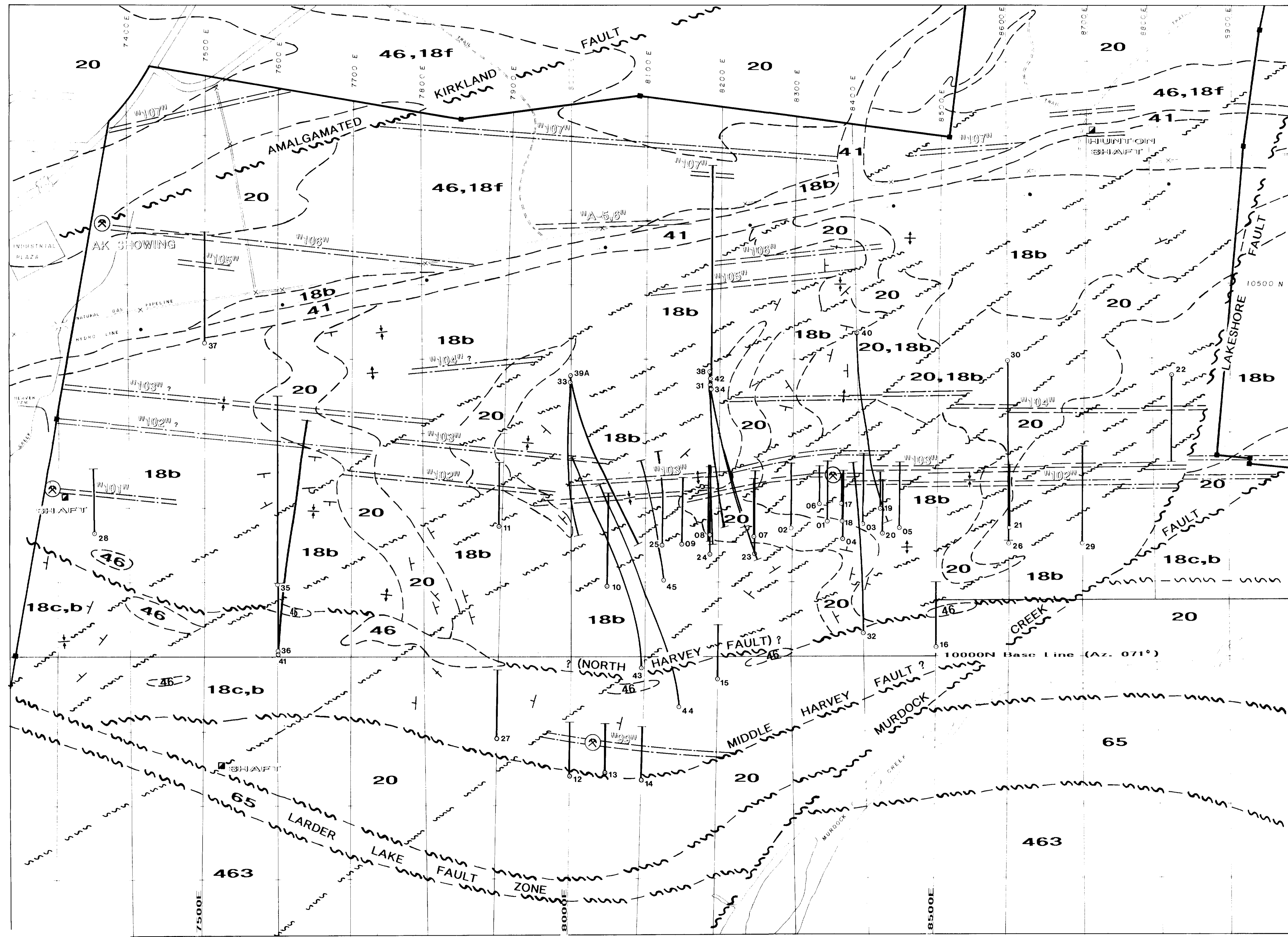
KIRKLAND LAKE PROJECT
 Queenston Mining Inc.
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY

1990/91/92 D.D.H. PLAN
 (WITH CLAIMS)

PROJECT No.: 78-JV-28	DATA BY: W. Benham / M. Masson
NTS: 42A / 1	DRAWN BY: B. H. Madill
DRAWING No.: DP-003	DATE: Revised Sept., 1992

SCALE: 1:2500

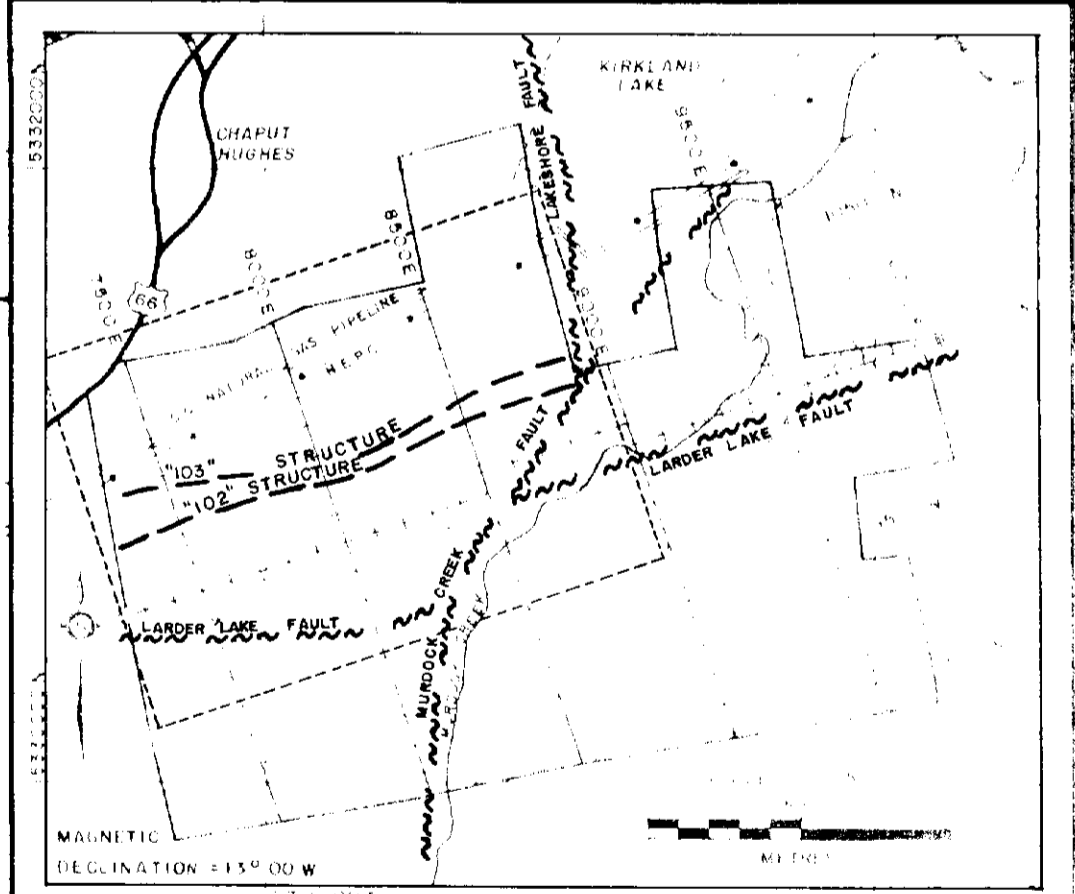
50 0 50 100 METRES



LEGEND

- 41 Diabase
 - 65 Larder Lake Fault Zone
 - 46 Syenite
 - 463 Murdock Creek Syenite Stock
- TIMISKAMING GROUP**
- Sediments**
- 20 Conglomerate, Graywacke, Mudstone & Siltstone
- Volcanics**
- 18b Lapilli/Ash Tuffs
 - 18c Block/Lapilli Tuffs
 - 18f Trachytic Flows

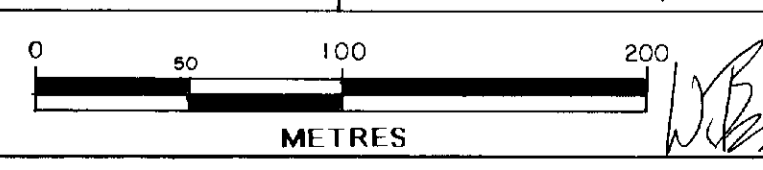
- "GOLD ZONE"
- "GOLD ZONE"
- Inferred Structure, Magnetic Low
- Gold Showing
- D.D.H. Collar

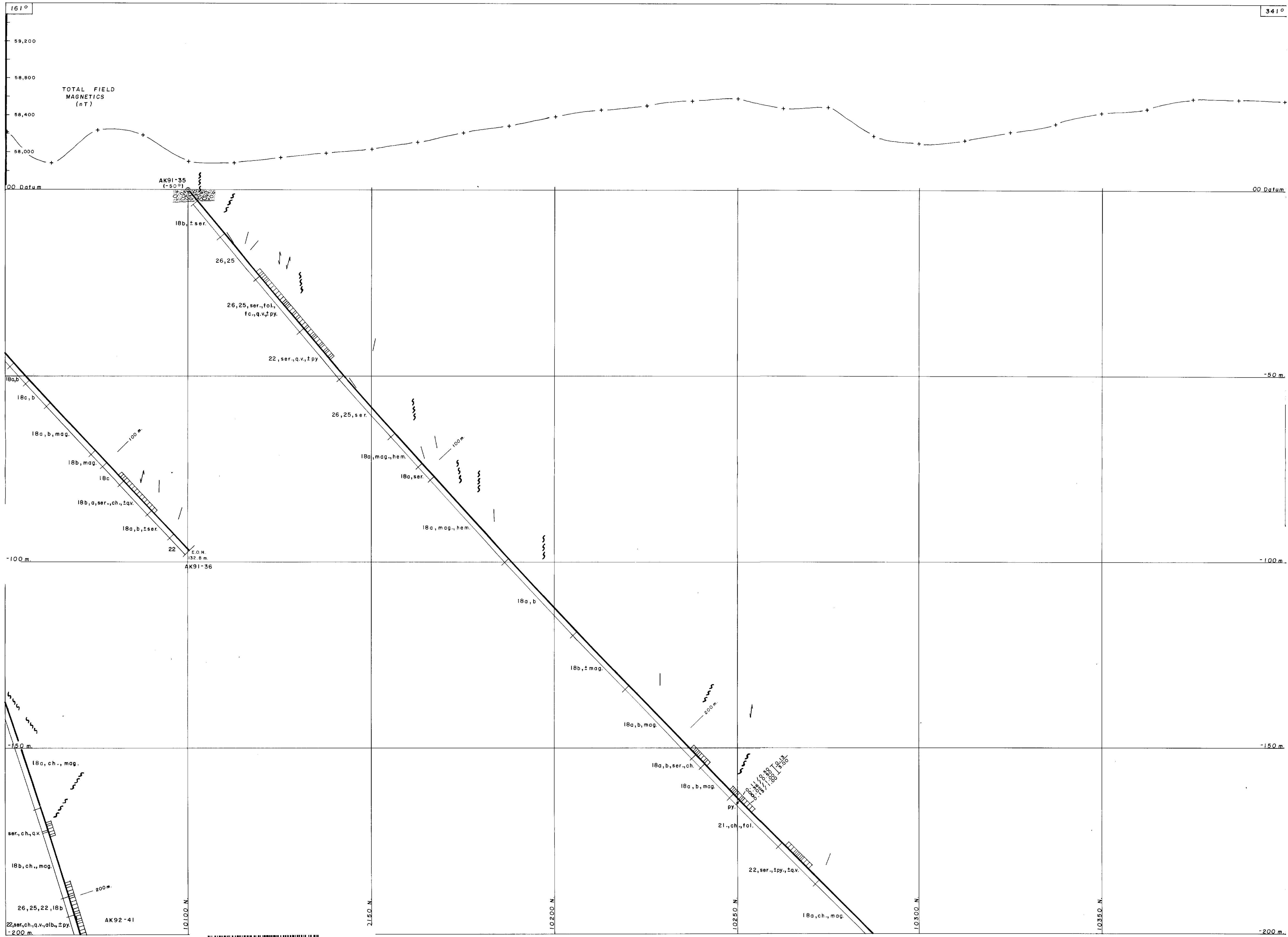


BATTLE MOUNTAIN (CANADA) INC.

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

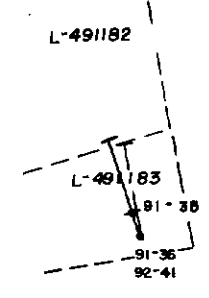
PROJECT No.: 75-JV-28	DATA BY: W. Benham / M. Masson
NTS: 42A/1	DRAWN BY: B. H. Madill, Tech.
DRAWING No: GL-030	DATE: Revised October, 1992
SCALE: 1:2500	





fol. - foliated
 alb. - albite

Collar co-ordinates and elevations are not surveyed

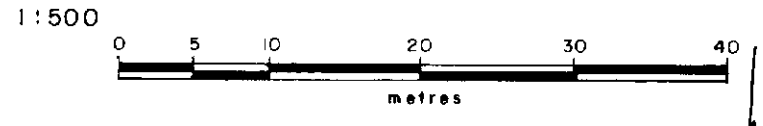


MAGNETIC DECLINATION = 13°00' W.

SECTION 7600 E
 HOLES AK91-35
 & AK91-36 & AK92-41

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

DC-039-1 (SHEET 1 of 4)

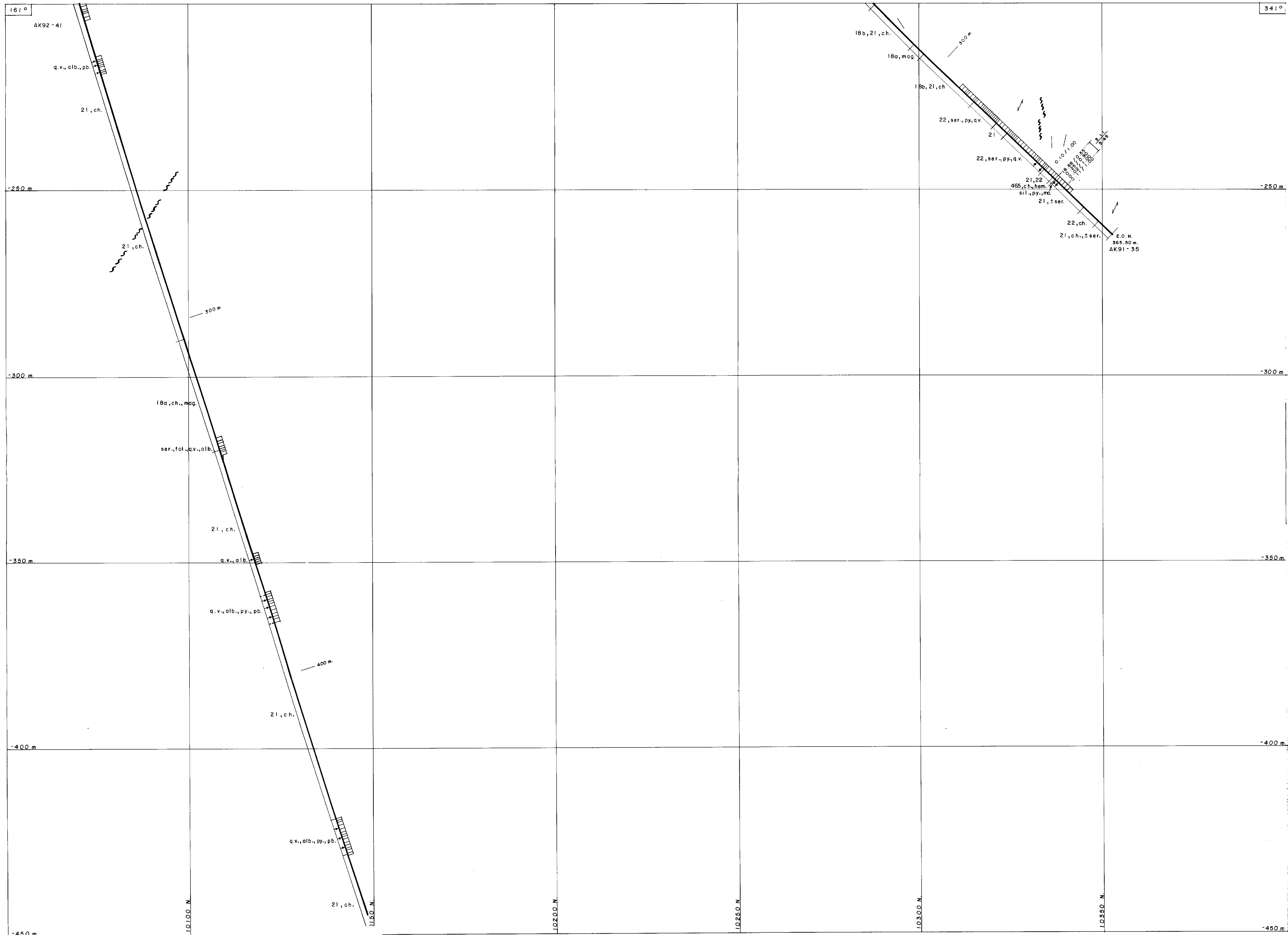


[Handwritten signature]



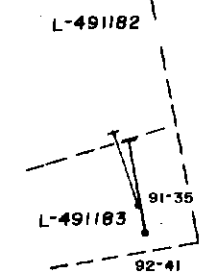
SHEET ALIGNMENT POINT

SHEET ALIGNMENT POINT



bl - bleached alb - albite

Collar co-ordinates and elevations are not surveyed



MAGNETIC DECLINATION ± 13°00' W

SECTION 7600E

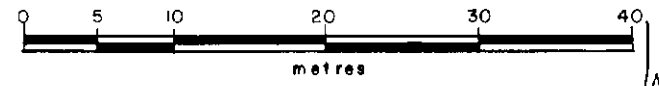
HOLES AK91-35 & AK92-41

M. Masson / W. Benham
S. H. Modill, Tech.

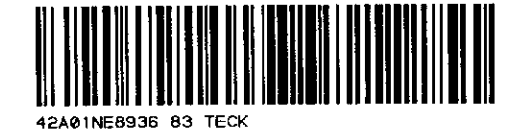
DC-039-2 (SHEET 2 of 4)

April, 1992

1:500



W.B.



SHEET ALIGNMENT POINT

SHEET ALIGNMENT POINT

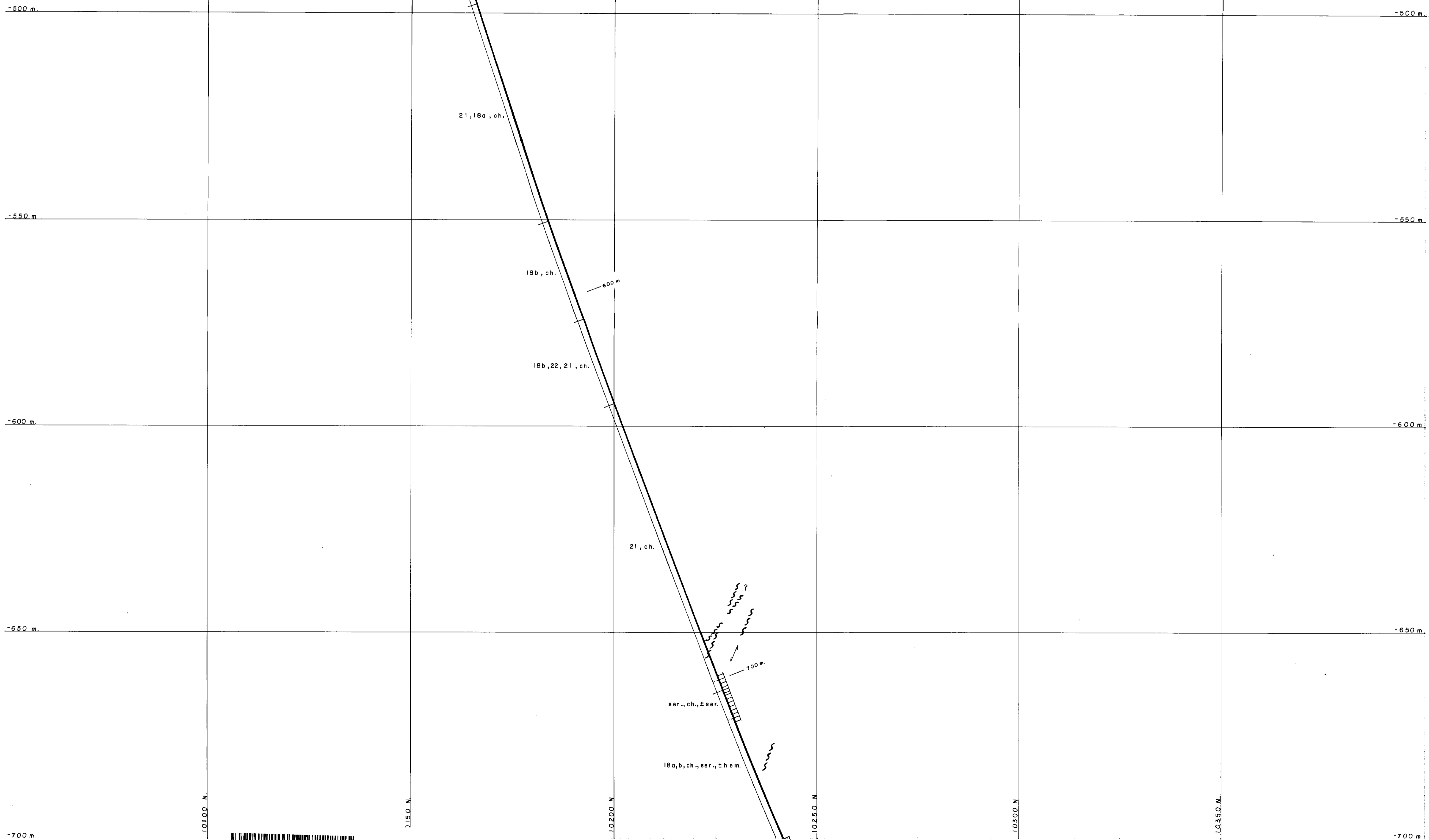
SHEET ALIGNMENT POINT

161°

AK92-41

341°

SHEET ALIGNMENT POINT



Collar co-ordinates and elevations are not surveyed

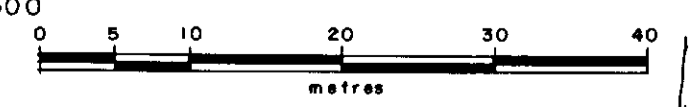
L-491/83
92-41

MAGNETIC DECLINATION
+ 13°00' W.

SECTION 7600E
HOLE AK92-41

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

DC-039-3 (SHEET 3of4)
1:500



WB

10100 N.

10150 N.

10200 N.

10250 N.

10300 N.

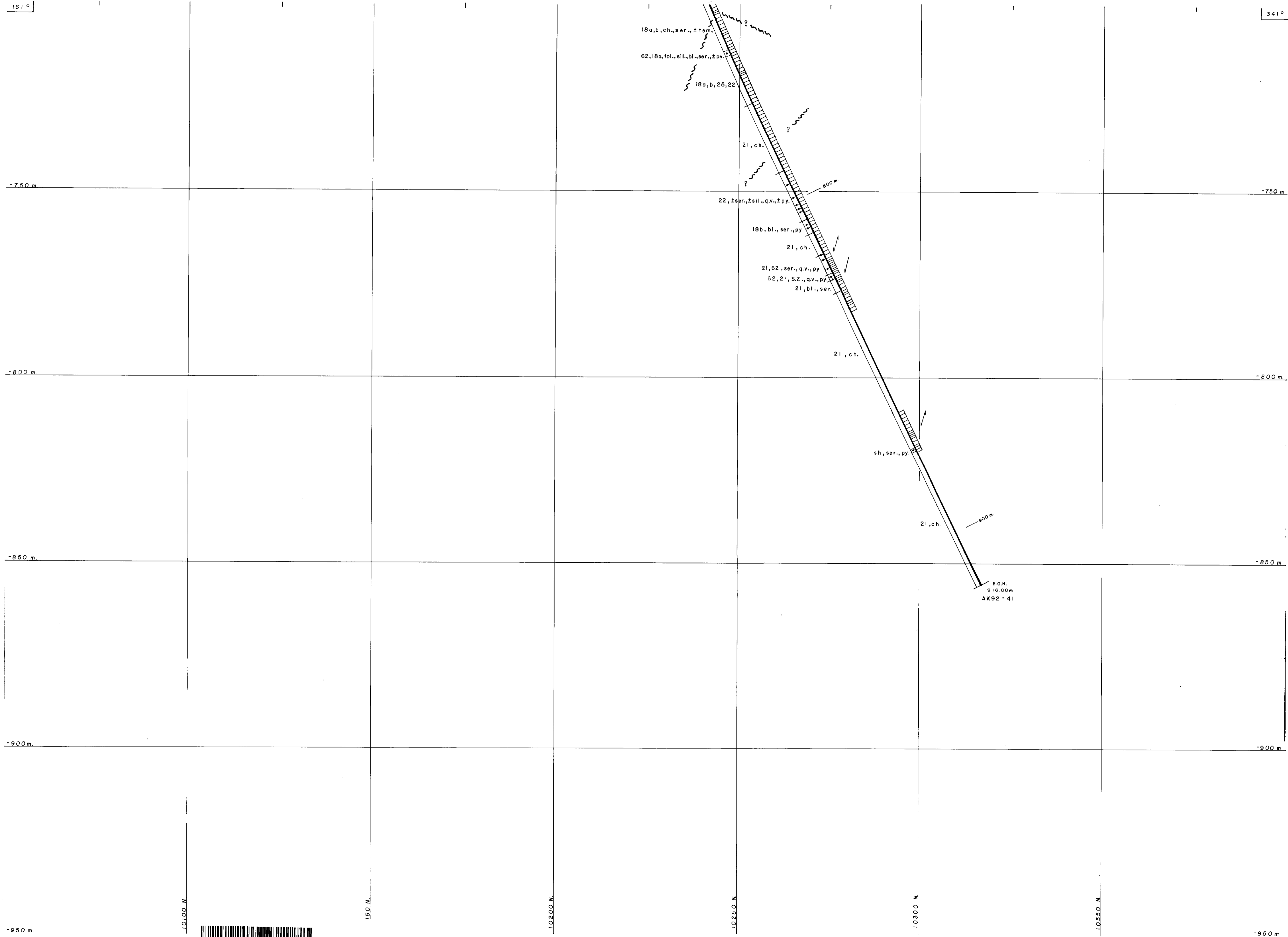
10350 N.



4241NE8836 63 1E0X

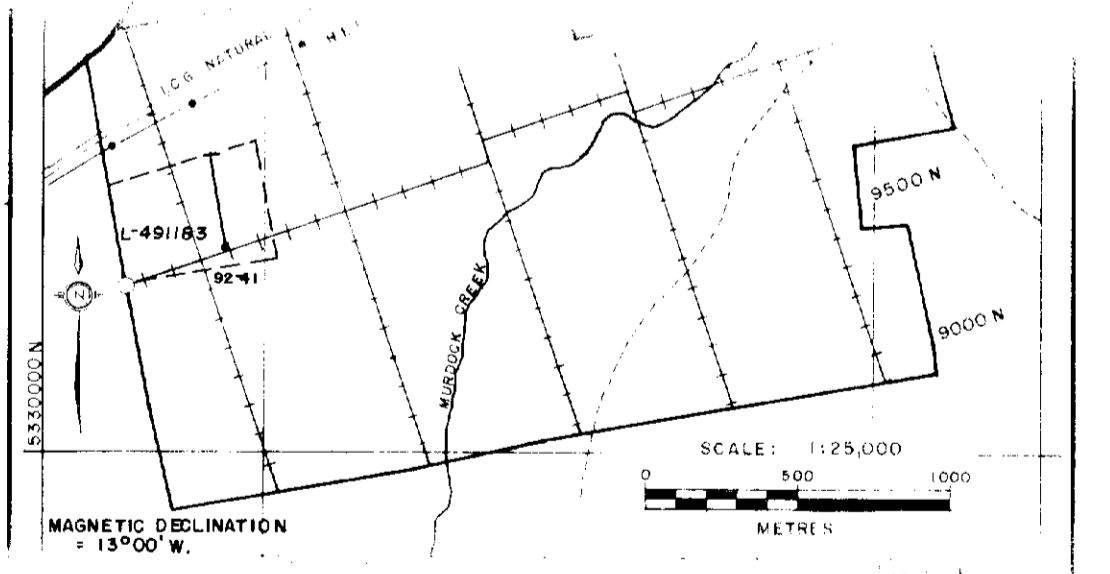
SHEET ALIGNMENT POINT

SHEET ALIGNMENT POINT



bl. -bleached

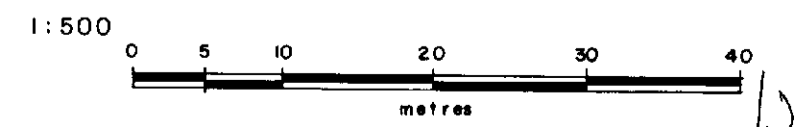
Collar co-ordinates and elevations are not surveyed



SECTION 7600E
HOLE AK92-41

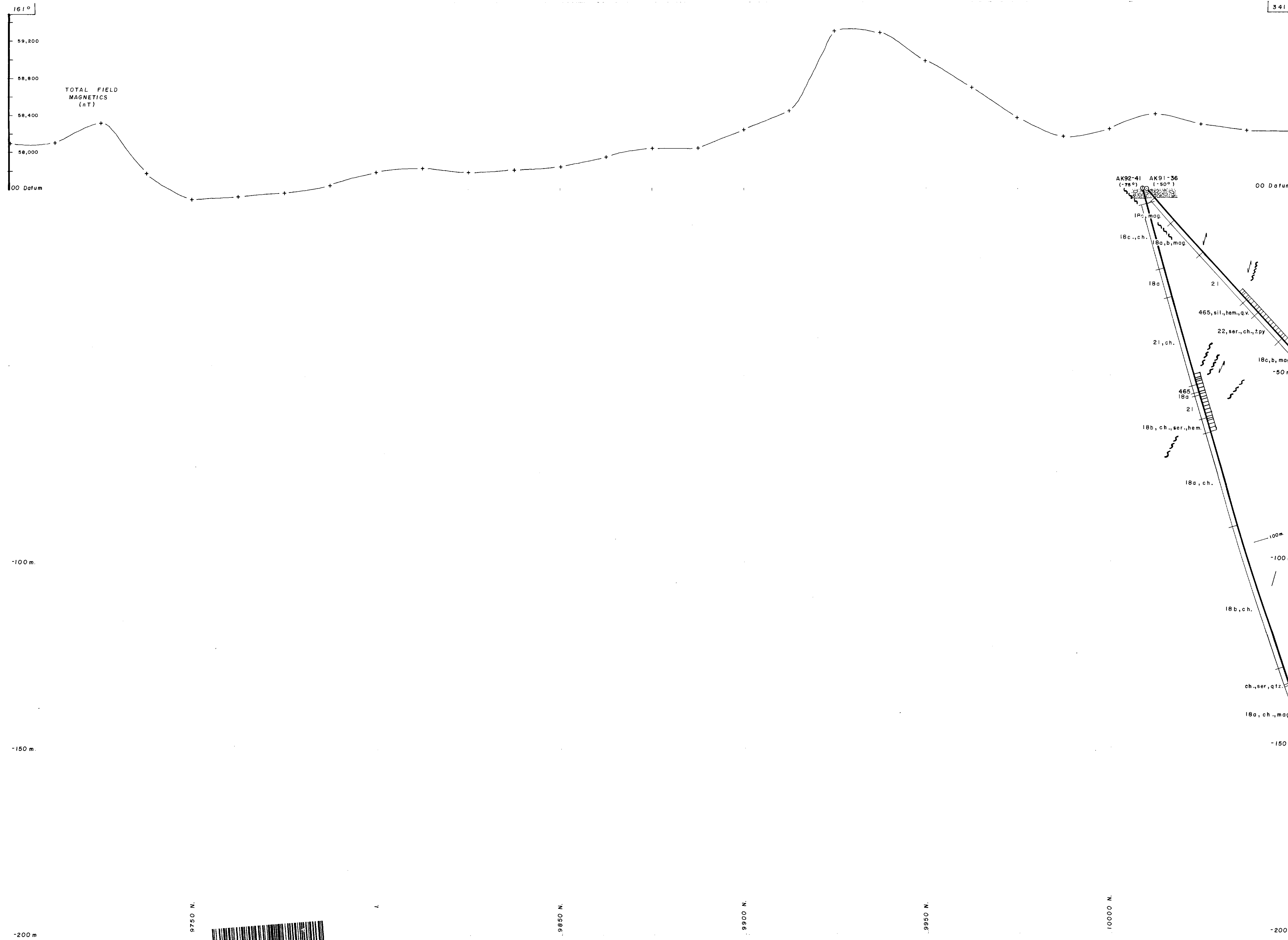
M. Masson / W. Benham
B.H. Modill, Tech.
April, 1992

DC-039-4 (SHEET 4 of 4)



WB

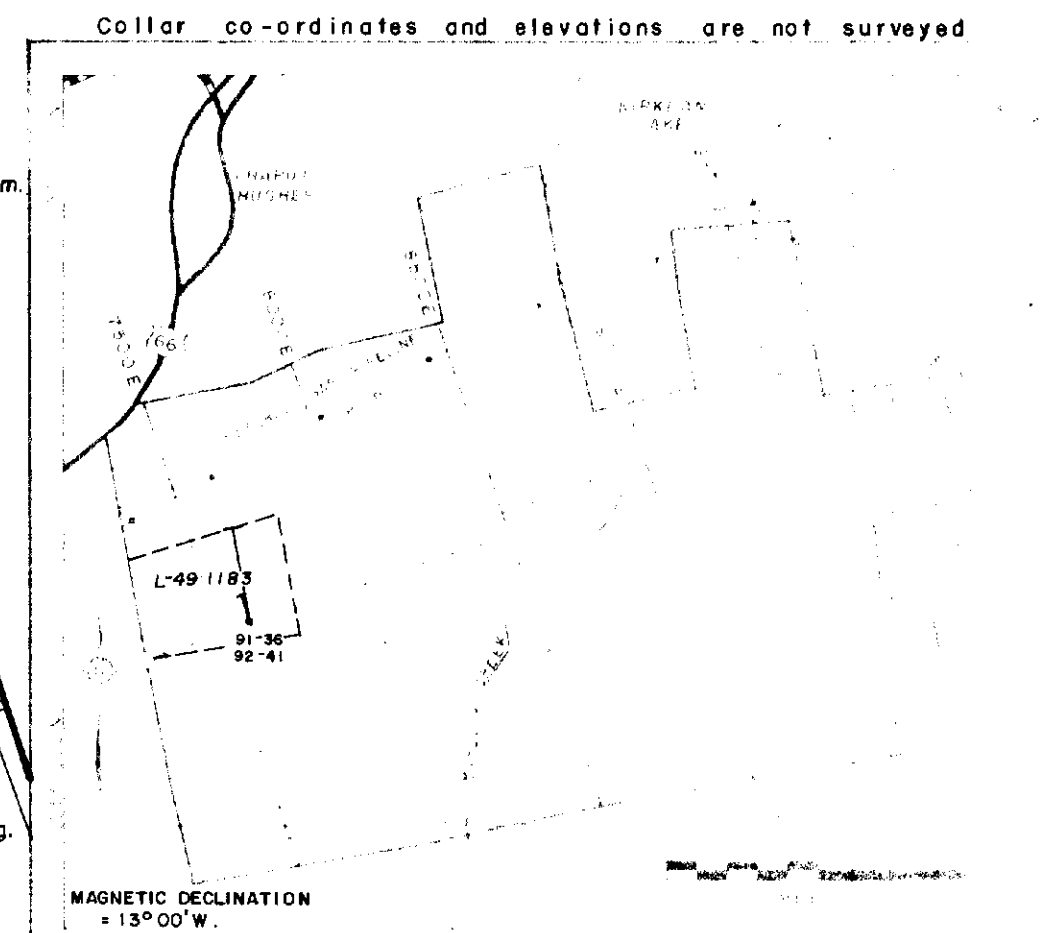




SYMBOLS

ABBREVIATION

18a, ch.	18a, ch.
18b, ch.	18b, ch.
18c, ch.	18c, ch.
21, ch.	21, ch.
465, sil., hem., qv.	465, sil., hem., qv.
22, ser., ch., top	22, ser., ch., top
18c, b, mag.	18c, b, mag.
465, 18a	465, 18a
21	21
18b, ch., ser., hem.	18b, ch., ser., hem.
18a, ch.	18a, ch.



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE (CANADA) INC.

SECTION 7600E

HOLES AK91-36 & AK92-41

PROJECTED BY: M. Masson / W. Benham

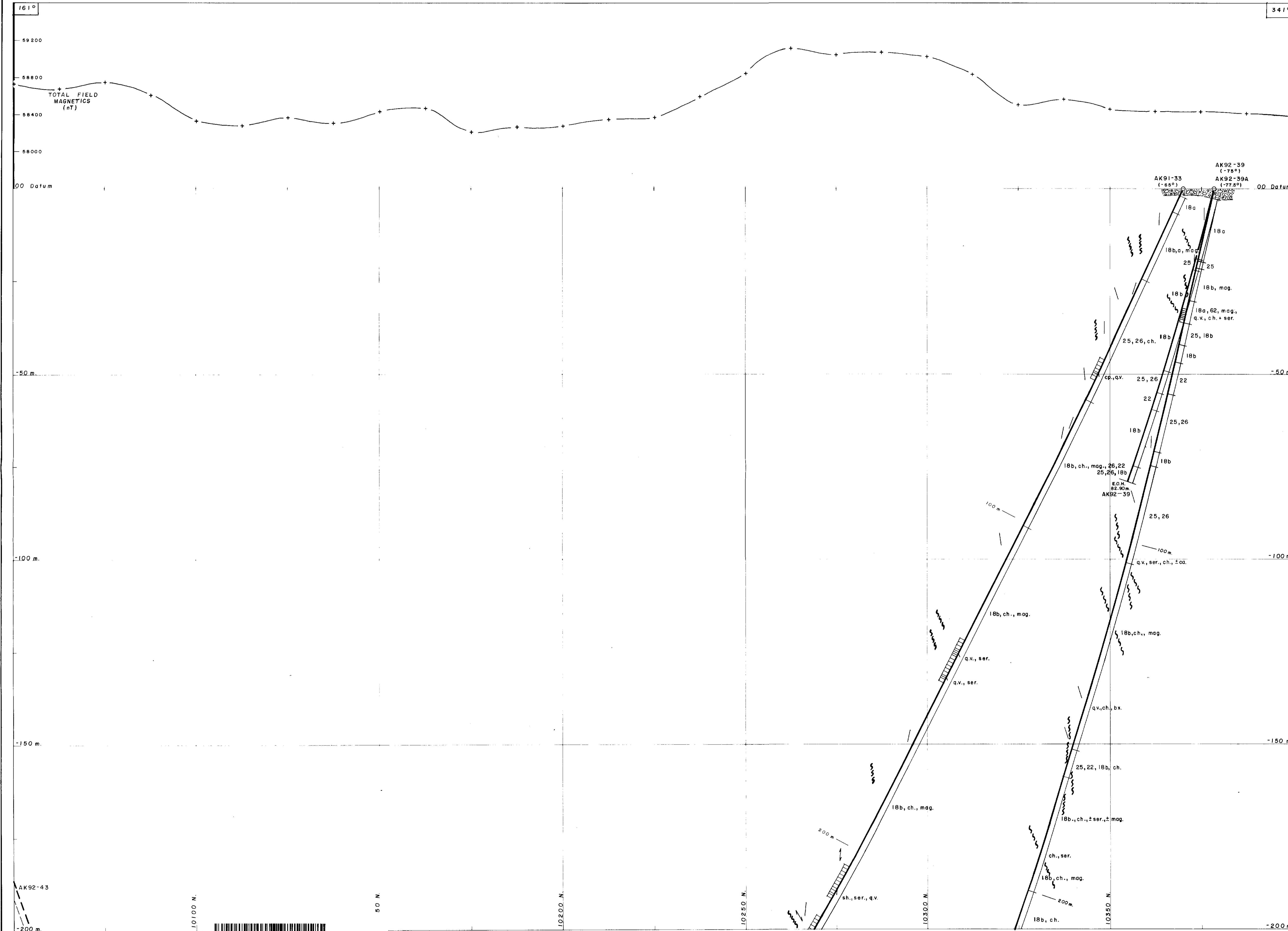
DRAWN BY: B.H. Modil, Tech.

DATE: DC-038 April, 1992

SCALE: 1:500

0 5 10 20 30 40 metres





LEGEND

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

SYMBOLS

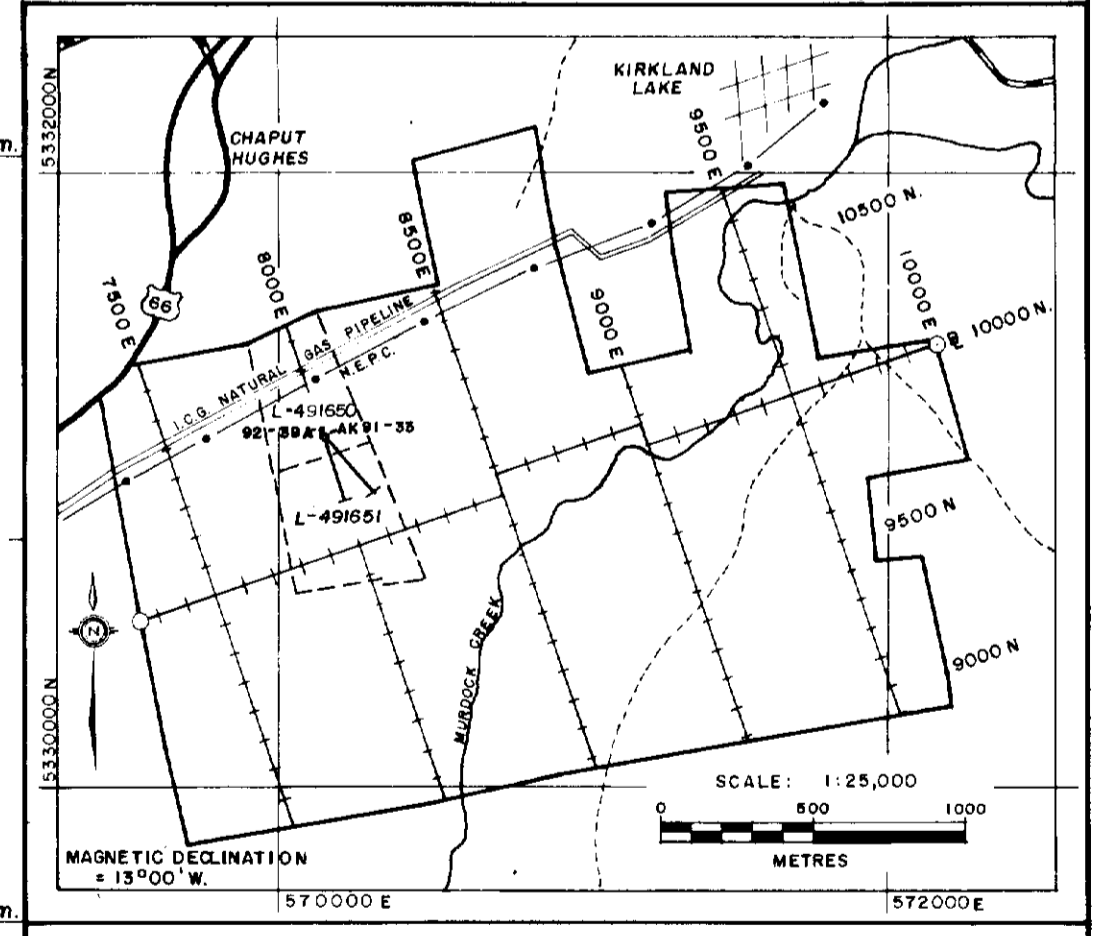
	Bedding, contacts
	Breccia
	Facing direction
	Foliation
	Fault, Fault Zone
	Drag folding
	Pyrite Mineralization

ABBREVIATIONS

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

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

Collar co-ordinates and elevations are not surveyed.



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

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

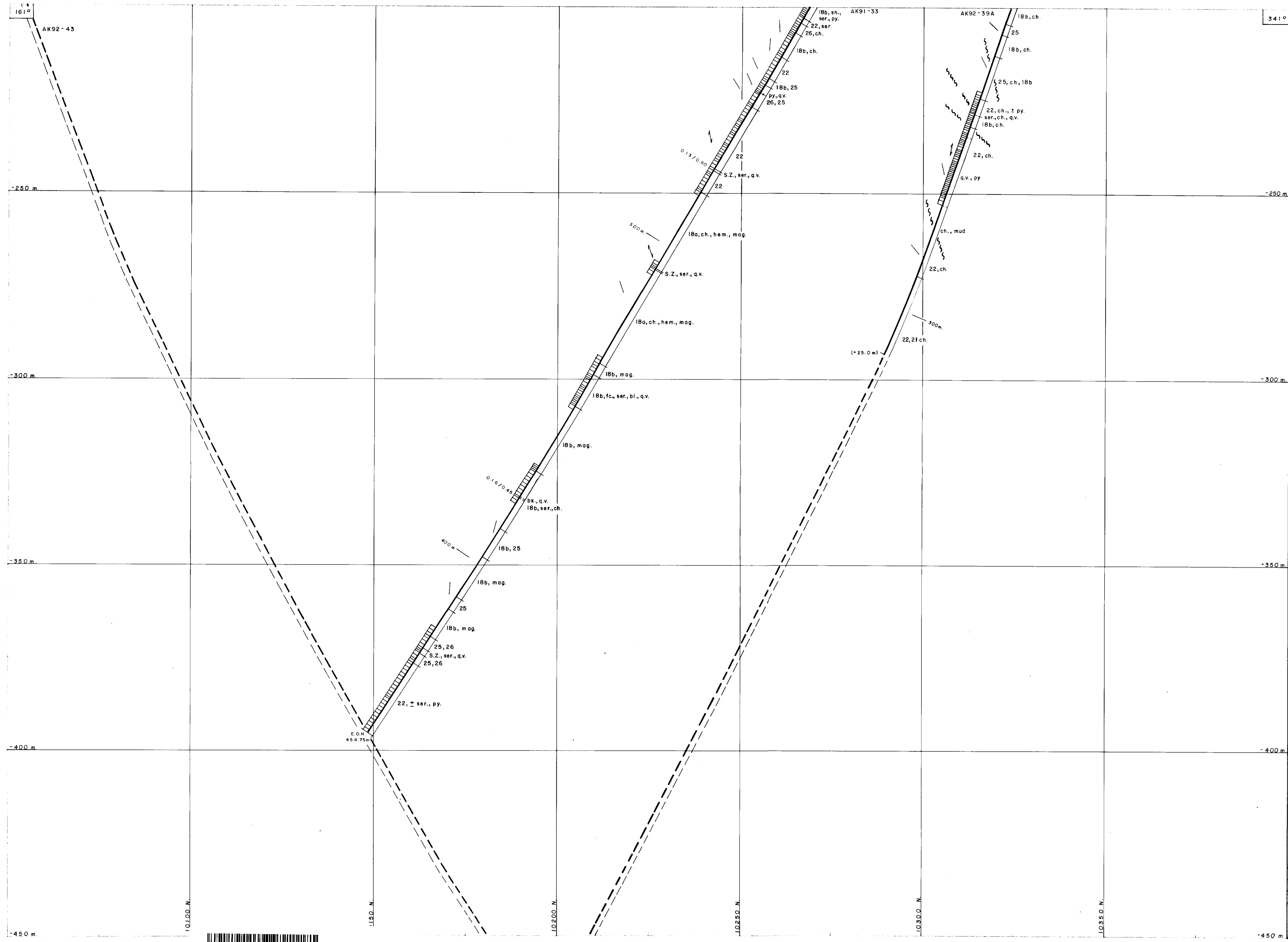
PROJECT No.: 75-JV-28	DATA BY: M. Masson, W. Benham
NTS:	DRAWN BY: B.H. Modill, Tech.
DRAWING No.: DC-036-1 (SHEET 1 of 3)	DATE: April, 1992

SCALE: 1:500



SHEET ALIGNMENT POINT 8

SHEET ALIGNMENT POINT 8



LEGEND

60 ALTERATION	20 SEDIMENTS
61 [Symbol] Siliceous	21 [Symbol] Sandstone
62 [Symbol] Sericitic	22 [Symbol] Siltstone
63 [Symbol] Hematitic	23 [Symbol] Claystone
64 [Symbol] Spinel	24 [Symbol] Shale
65 [Symbol] Carbonated	25 [Symbol] Volcanics
40 INTRUSIVES	10 VOLCANICS
41 [Symbol] Gabbro	11 [Symbol] Basalt
42 [Symbol] Amphibolite	12 [Symbol] Andesite
46 [Symbol] Syenite	13 [Symbol] Diabase
461 [Symbol] Augite Syenite	14 [Symbol] Gabbro
462 [Symbol] Matrix Syenite	15 [Symbol] Basalt
465 [Symbol] Pargasite Peridotite	16 [Symbol] Andesite

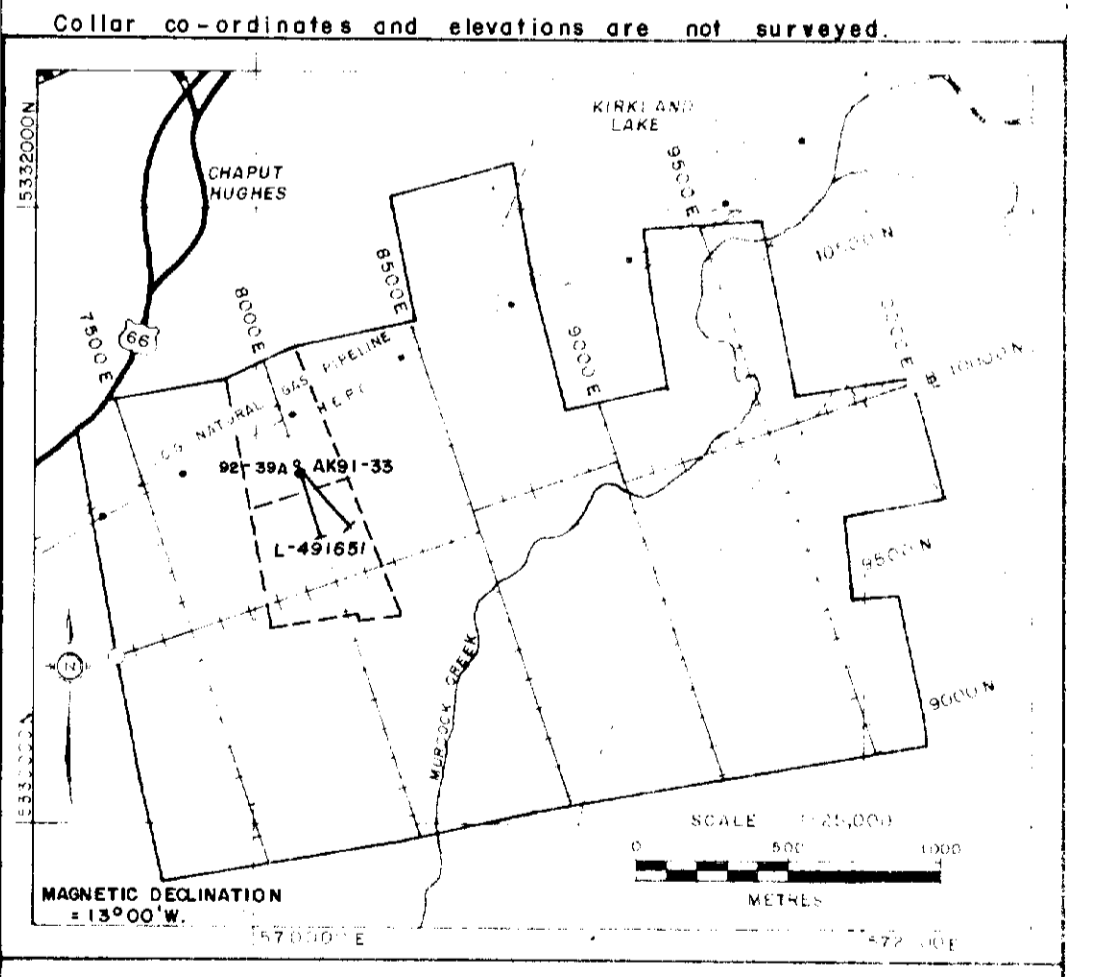
SYMBOLS

- [Symbol] Bedding contacts
- [Symbol] Breccia
- [Symbol] Faring direction
- [Symbol] Foliation
- [Symbol] Fault, fault zone
- [Symbol] Drag folding
- [Symbol] Pyrite Mineralization

ABBREVIATIONS

top - topographic	fb - felsic	py - pyrite
amp - amphibolite	fs - felsic	sp - spinel
amp - amphibolite	g - gabbro	st - staurolite
gsk - gabbro	hem - hematite	tr - tourmaline
bx - breccia	lq - limestone	vt - vermiculite
ca - calcite	m - massive	z - zircon
cd - carbonate	mg - magnetite	zr - zircon
ch - chlorite	pb - galena	
co - calcopropylite	py - pyrite	
fc - fractured	qu - quartzite	
fz - fault zone		

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



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8000 E

HOLES AK91-33 & AK92-39A

PROJECT No: 75-JV-28	DATA BY: M. Masson, W. Benham
NTS: 4:2 A/1	DRAWN BY: B.H. Madill, Tech.
DRAWING No: DC-036-2 (SHEET 2 of 3)	DATE: May, 1992

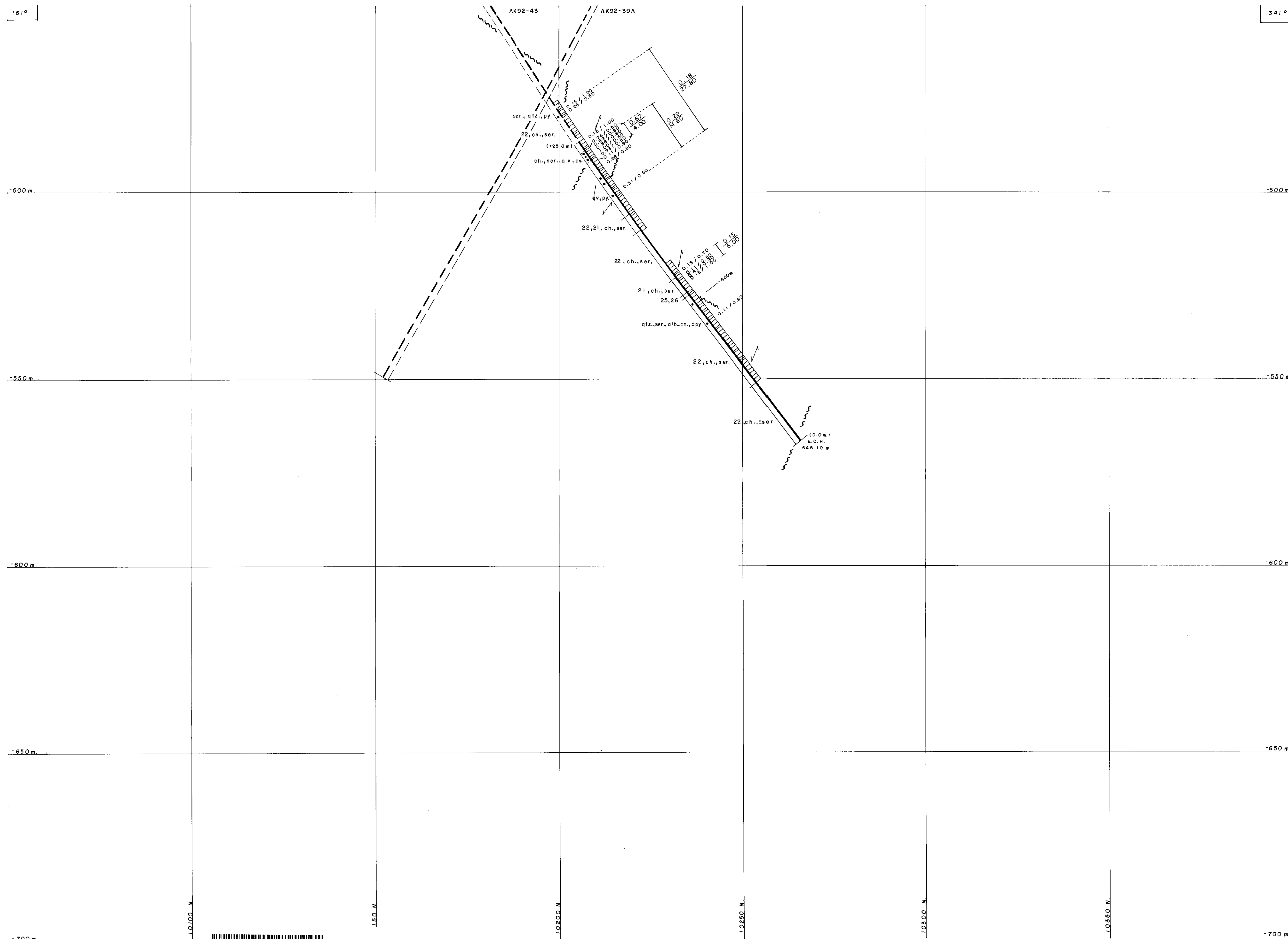
SCALE: 1:1500

WB

SHEET ALIGNMENT POINT 8

SHEET ALIGNMENT POINT 8

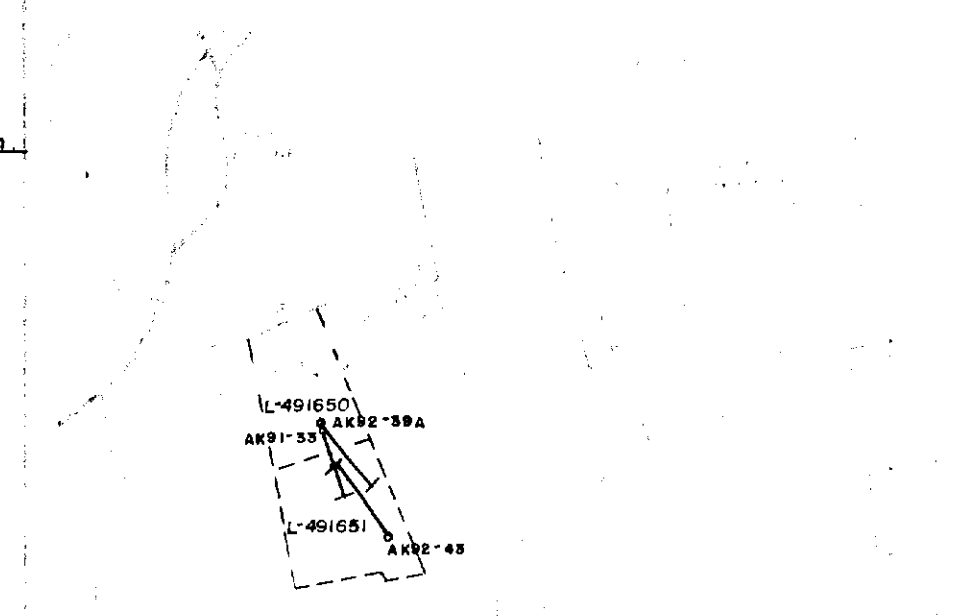




bl. - bleached

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

Collar co-ordinates and elevations are not surveyed.

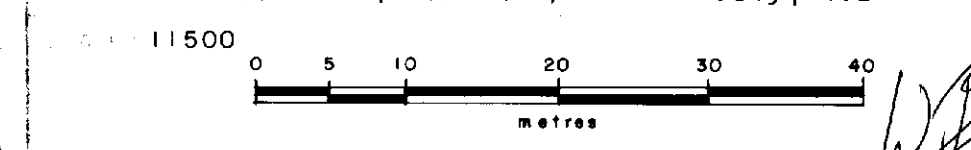


MAGNETIC DECLINATION
= 13° 00' W

RAUCHE MOUNTAIN CANADIAN

SECTION 8000
HOLE AK92-43

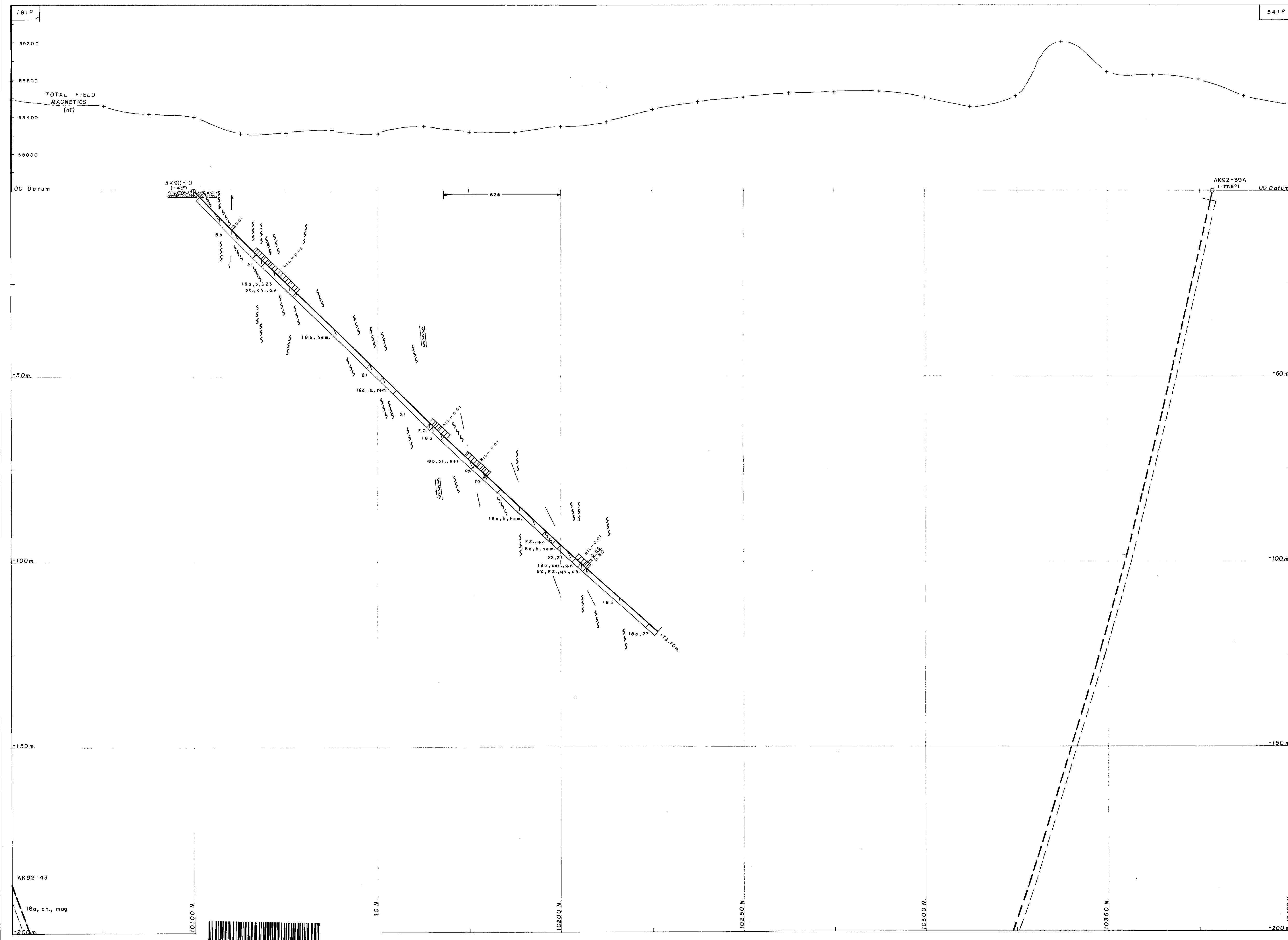
M. Masson / W. Benham
B.H. Modill, Tech.
DC-036-3 (SHEET 3 of 3)
July, 1992



WB



42481M8336 83 TECH



LEGEND

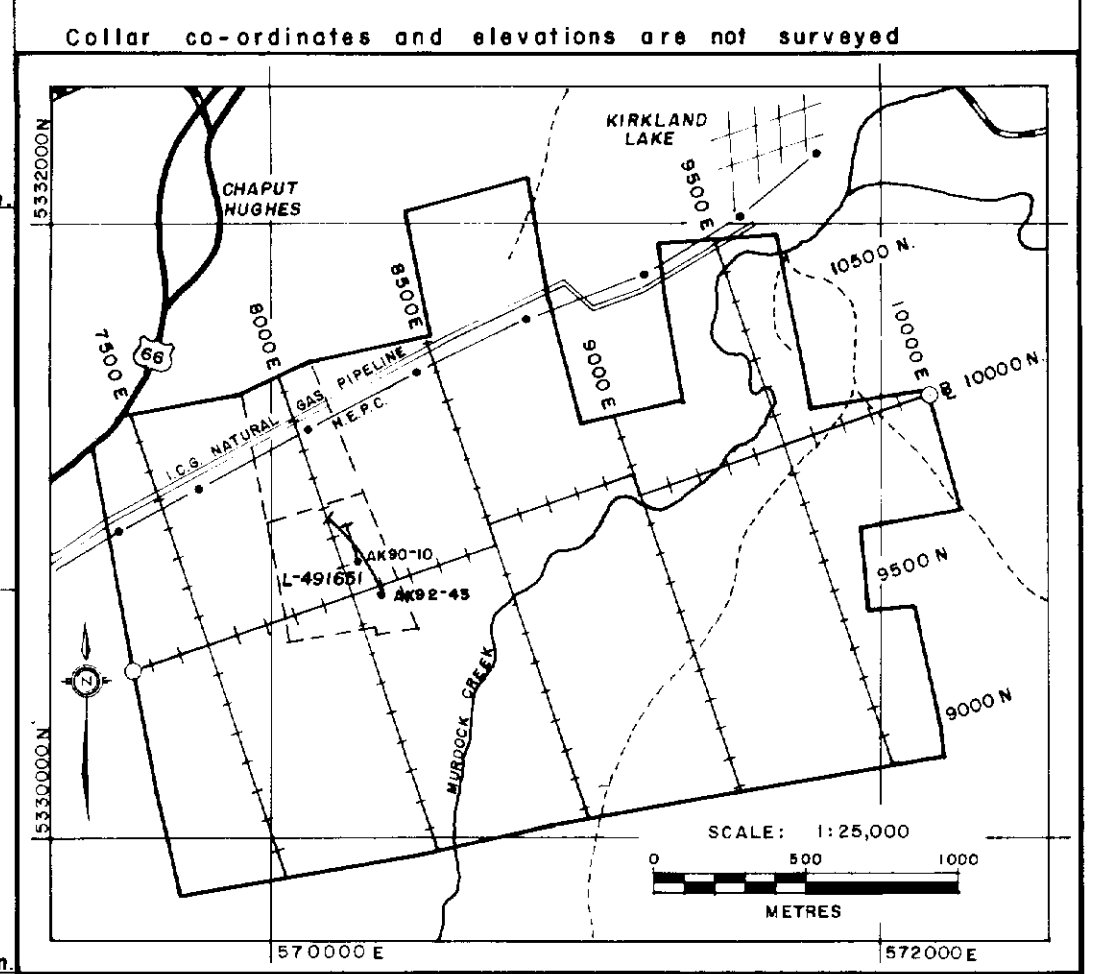
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trochytes
42 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Block Tuff
462 Mafic Syenite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

SYMBOLS

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

ABBREVIATIONS

agp. - augite porphyritic	fp. - feldspar porphyritic	q.v. - quartz vein
amp. - amygdales	fsp. - feldspathic	ser. - sericitic
amf. - amphibolite	gf. - graphitic	sil. - silicic
ank. - ankerite	hem. - hematitic	sp. - sphalerite
bx. - breccia	lam. - laminated	sh. - sheared
ca. - calcite	m. - massive	s.z. - shear zone
cb. - carbonate	mag. - magnetite	trc. - trochoidal
ch. - chlorite	pb. - galena	var. - variolitic
cp. - chalcopyrite	py. - pyrite	vbs. - vasculator
fc. - fractured	mo. - molybdenite	vg. - visible gold
fz. - fault zone	bl. - bleached	



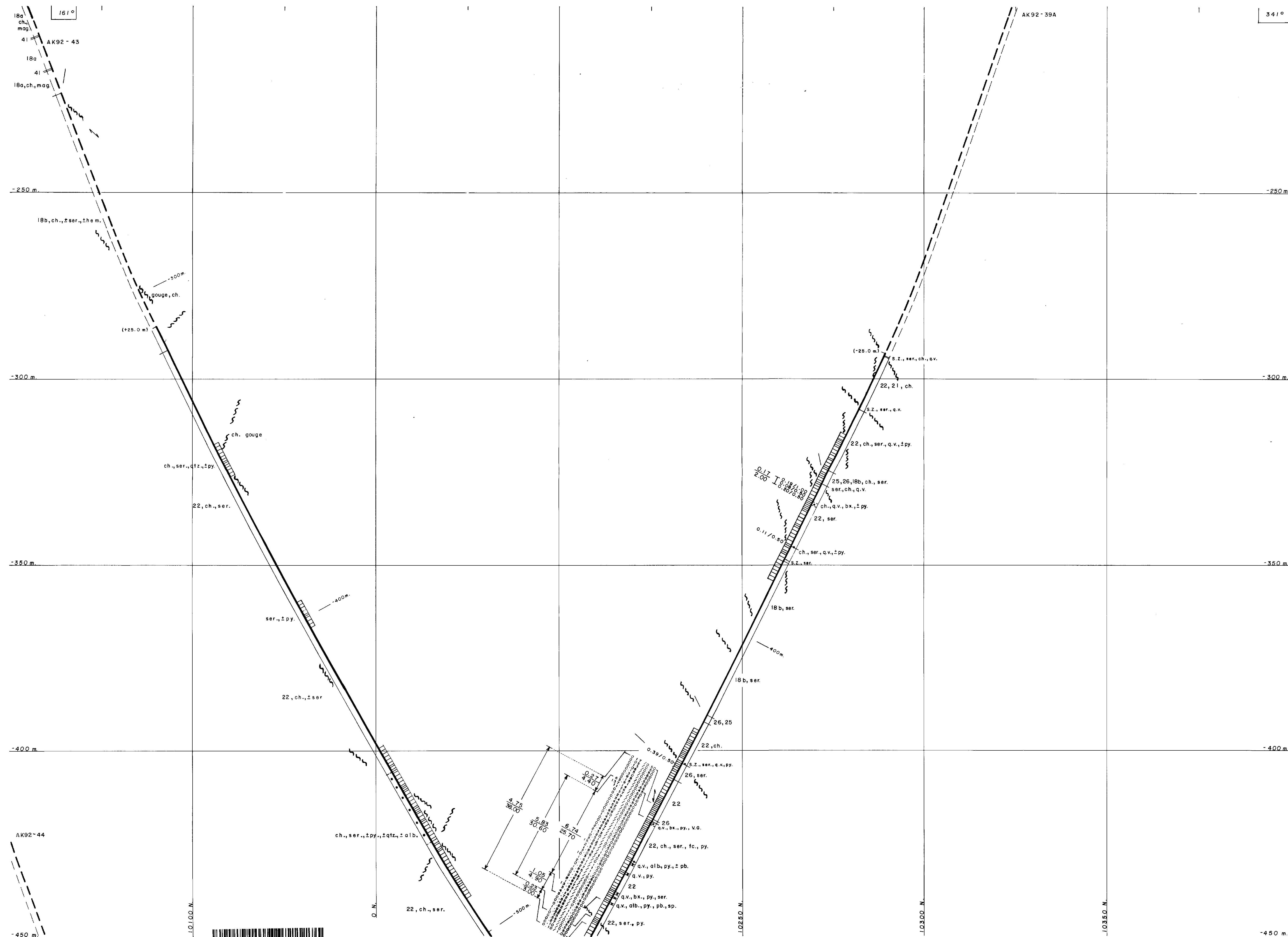
BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8050 E
HOLES AK90-10
and AK92-43

PROJECT No.: 75-JV-28	DATA BY: W. Benham
NTS: 42 A/1	DRAWN BY: B.H. Madill, Tech.
DRAWING No: DC-006-1 (SHEET 1 of 4)	DATE: Revised July, 1992

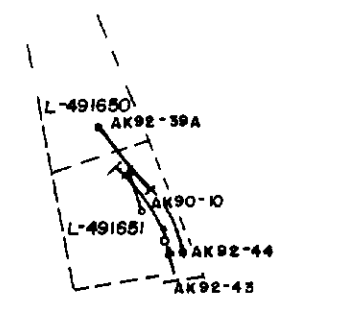
SCALE: 1:500



alb. - albite

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

Collar co-ordinates and elevations are not surveyed



MAGNETIC DECLINATION
= 13°00'W.

SECTION 8050E

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

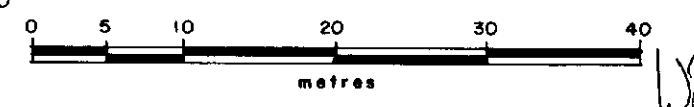
M. Masson/W. Benham.

B.H. Madill, Tech.

Revised Sept., 1992

DC-006-2 (SHEET 2 of 4)

1:500

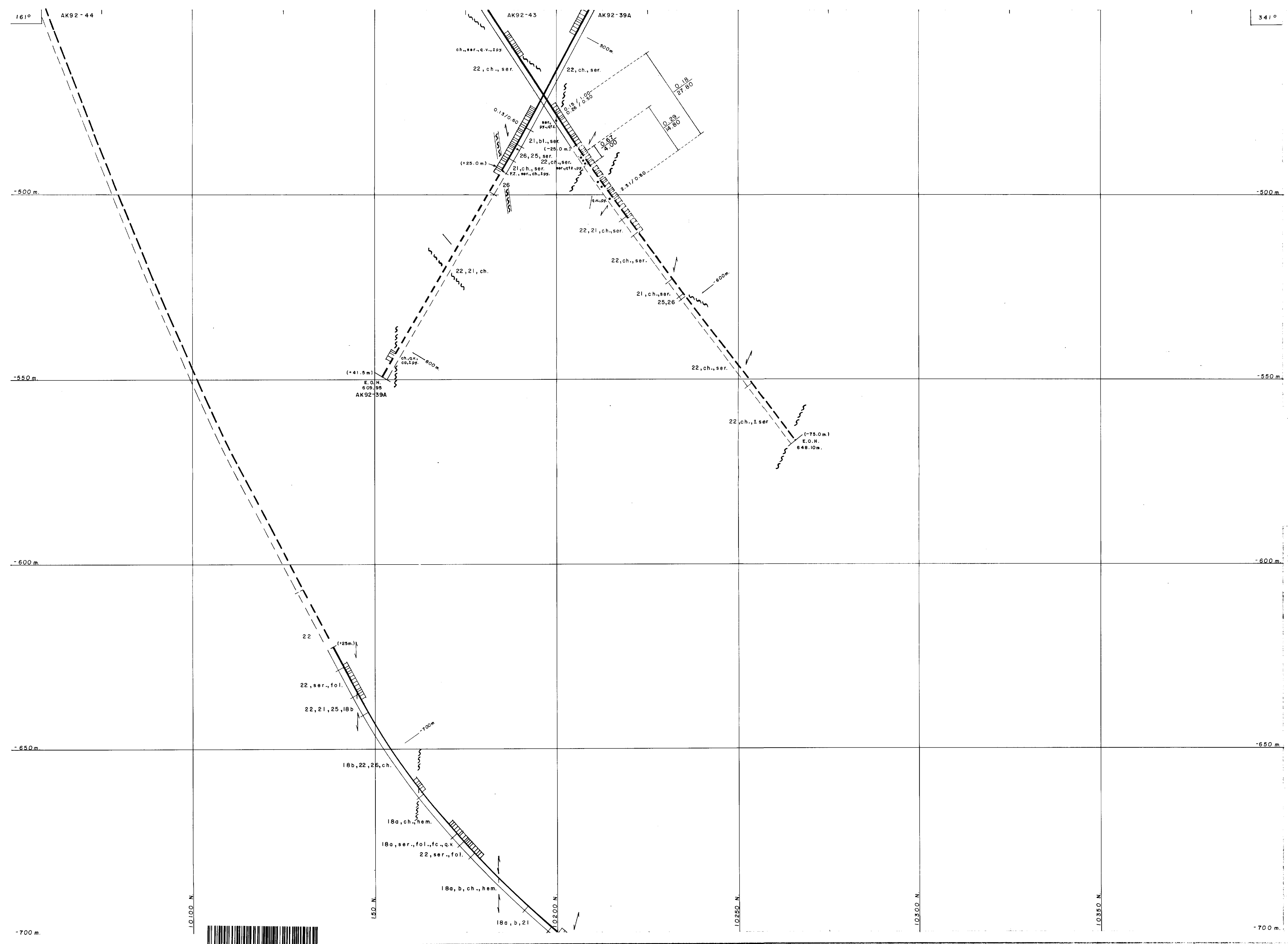


WFB



SHEET ALIGNMENT POINT

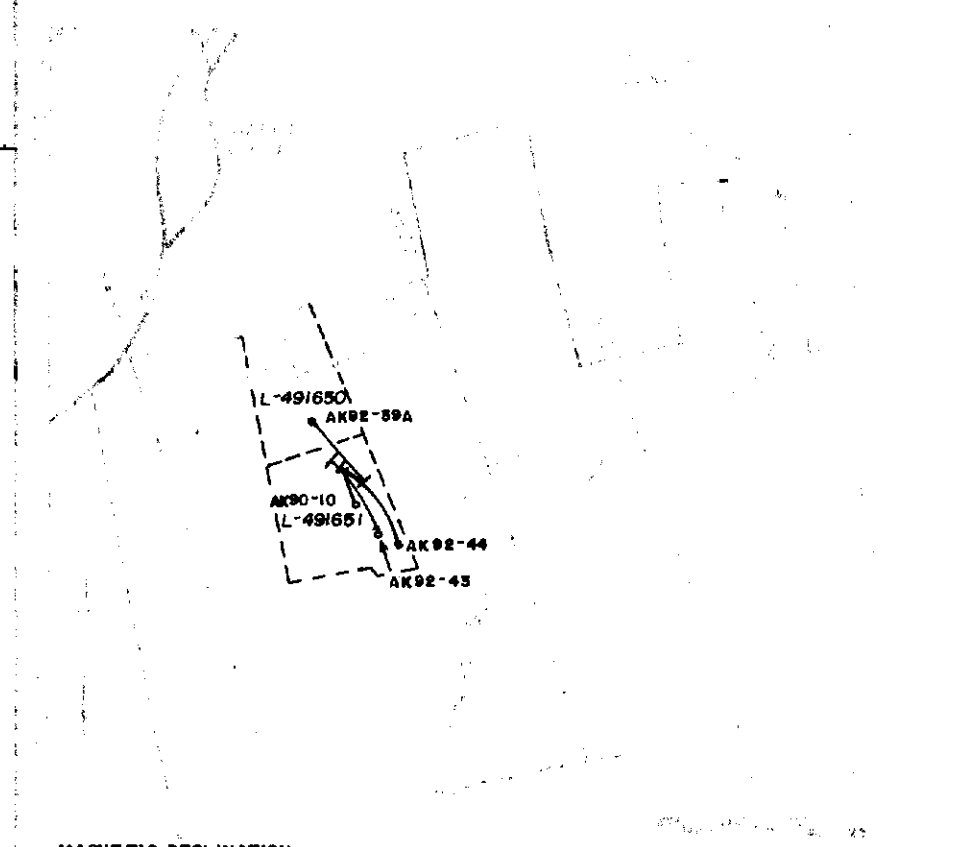
SHEET ALIGNMENT POINT



bl. - bleached

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

Collar co-ordinates and elevations are not surveyed.



MAGNETIC DECLINATION = 13°00'W

SECTION 8050E

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

M. Masson / W. Benham
B.H. Madill, Tech.

Revised Sept., 1992

DC-006-3 (SHEET 3 of 4)

1:500

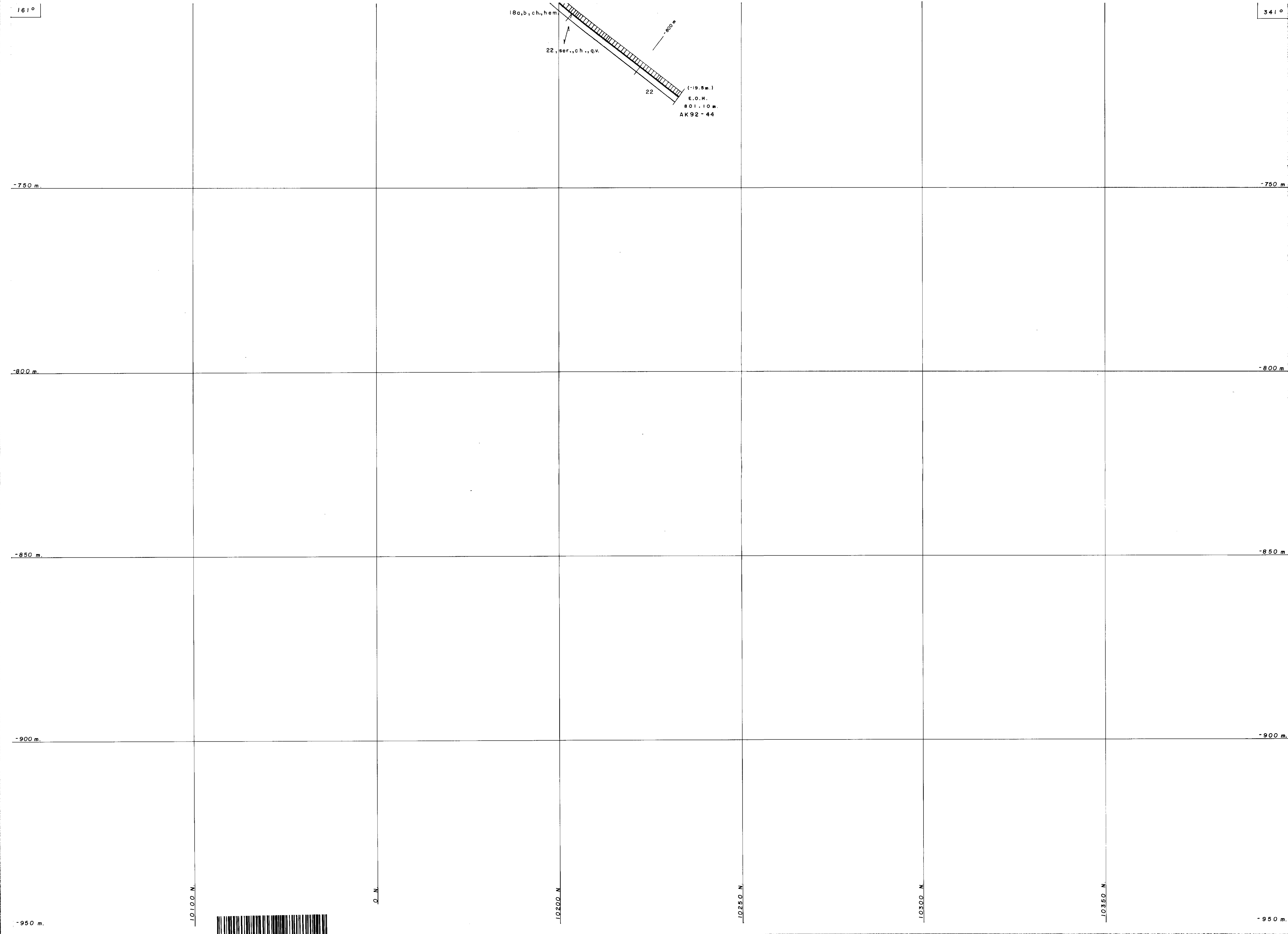


W.B.

SHEET ALIGNMENT POINT

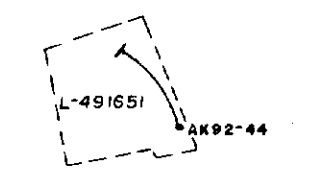
SHEET ALIGNMENT POINT





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

Collar co-ordinates and elevations are not surveyed.



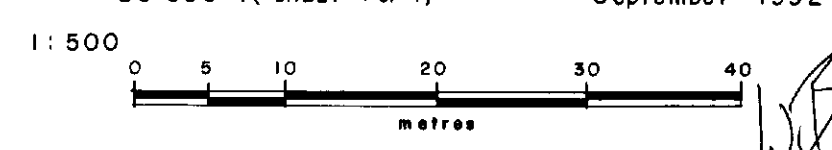
MAGNETIC DECLINATION
 +13'00" W.

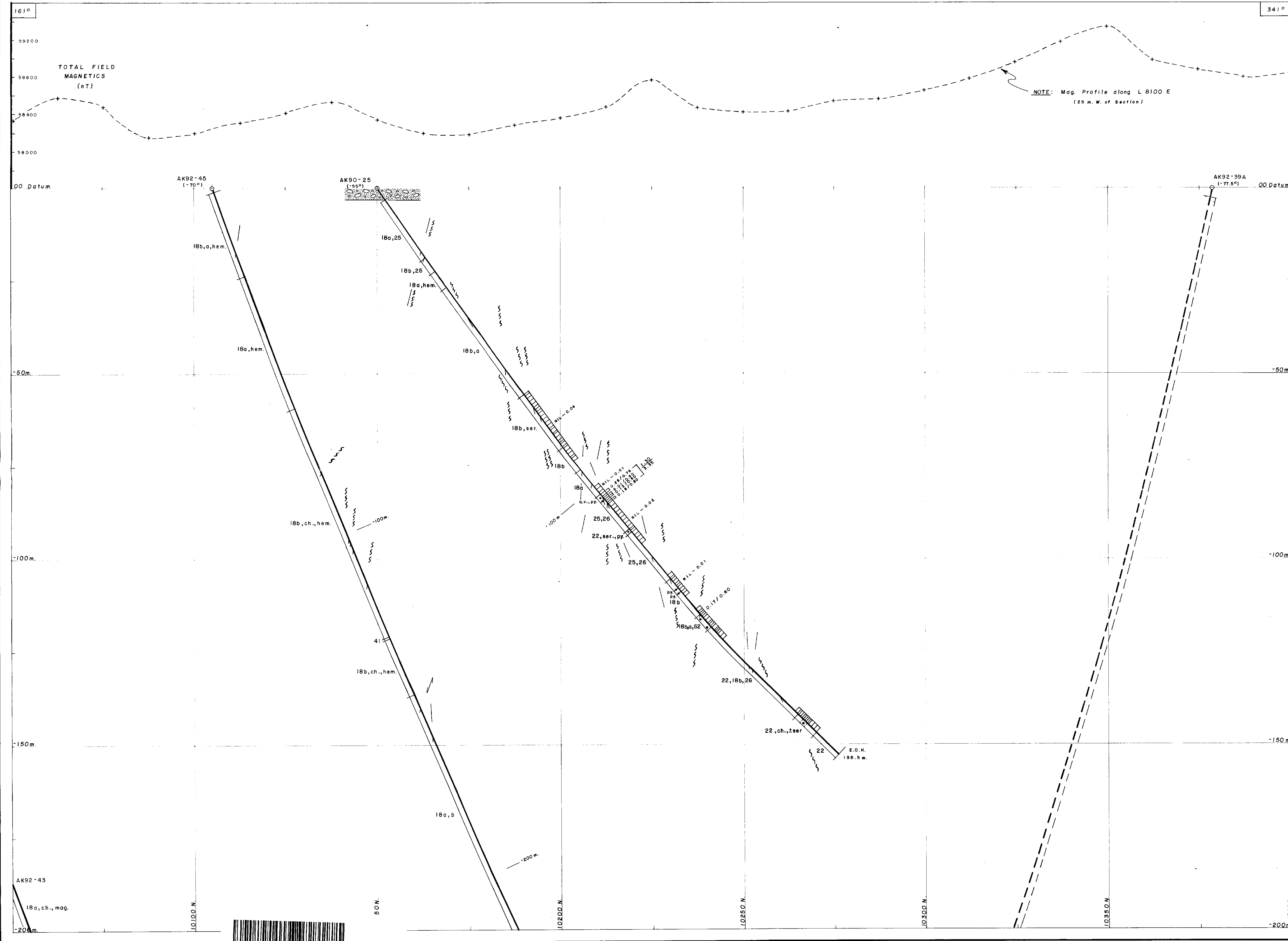
DAVID M. SKINNER (MANABAI) INC.

SECTION 8050E
 HOLE AK92-44

W. Benham / M. Masson
 B. H. Modill, Tech.

DC-006-4 (SHEET 4 of 4)
 September 1992





NOTE: Mag. Profile along L 8100 E
(25 m. W. of Section)

LEGEND

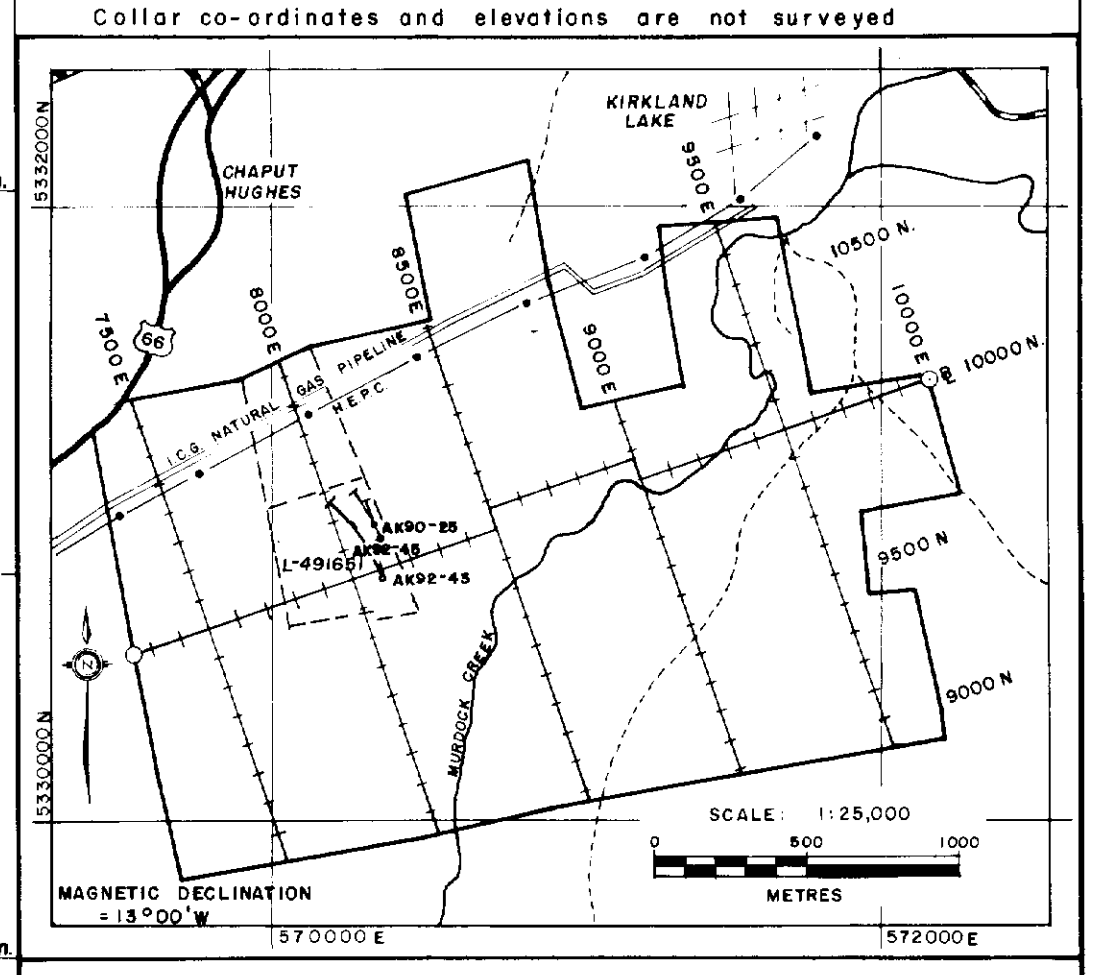
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Greywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
412 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Block Tuff
462 Mafic Syenite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

SYMBOLS

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

ABBREVIATIONS

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



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

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

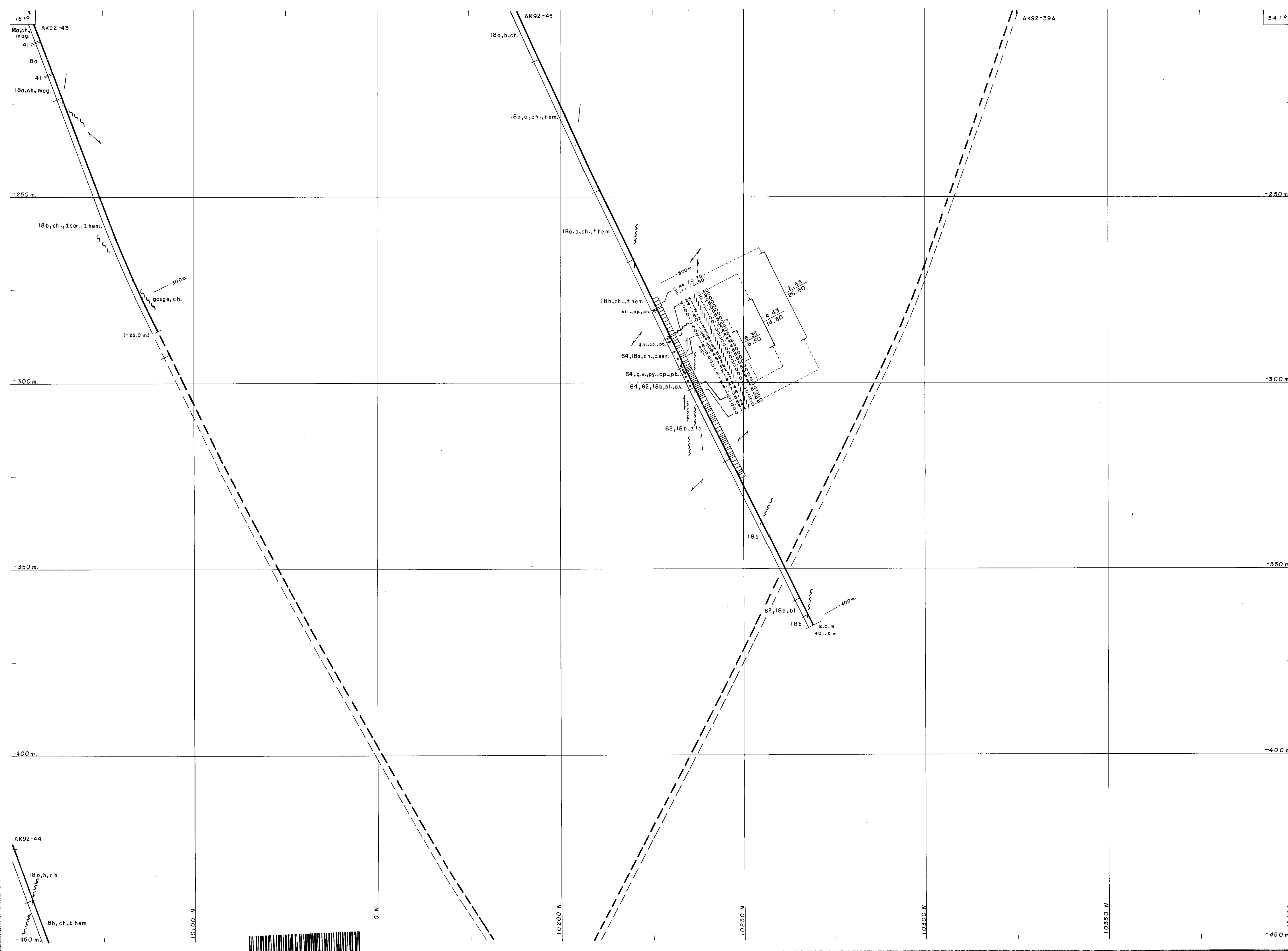
PROJECT No.: 75-JV-28	DATA BY: W. Banham
NTS: 42 A/1	DRAWN BY: B.H. Madill, Tech.
DRAWING No.: DC-008-1 (SHEET 1 of 3)	DATE: Revised September, 1992

SCALE: 1:1500



SHEET ALIGNMENT POINT

SHEET ALIGNMENT POINT



LEGEND

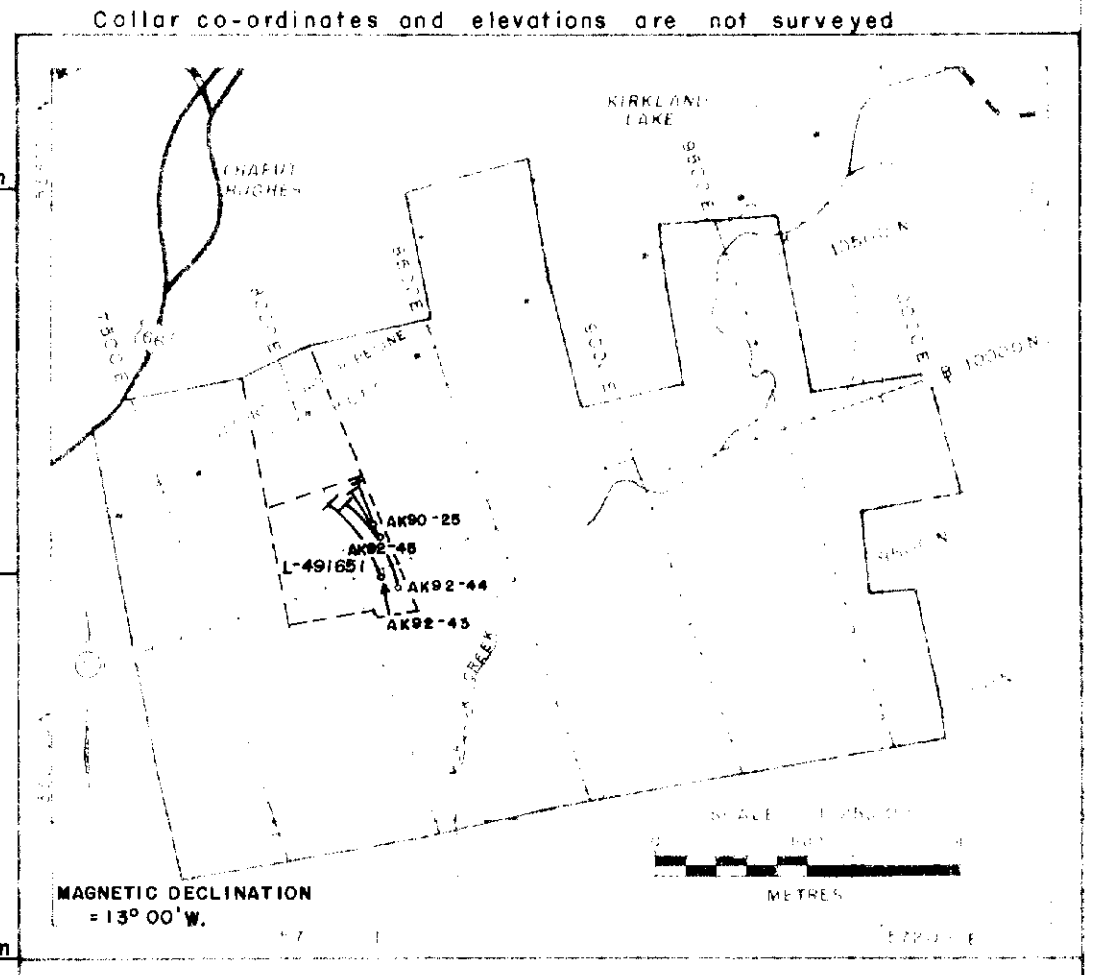
1610	AK92-43	18a, ch., mag.	41	18a	41	18a, ch., mag.
1610	AK92-45	18a, b, ch.		18b, c, ch., hem.		
1610	AK92-39A	18a, b, ch., t. hem.		18b, ch., t. hem.		
1610		18b, ch., t. hem.		64, 18a, ch., t. ser.		
1610		64, q.v., py., cp., pb.		64, 62, 18b, bl., q.v.		
1610		62, 18b, t. fol.		18b		
1610		62, 18b, bl.		18b		

SYMBOLS

ABBREVIATIONS

q.v.	quartz vein	bl.	bleached
py.	pyrite	cp.	calcite
pb.	pyrrhotite	hem.	hematite
cp.	calcite	mag.	magnetite
py.	pyrite	ser.	sericite
q.v.	quartz vein	fol.	foliation
py.	pyrite	q.v.	quartz vein
pb.	pyrrhotite	py.	pyrite
cp.	calcite	pb.	pyrrhotite
py.	pyrite	cp.	calcite
q.v.	quartz vein	py.	pyrite
bl.	bleached	q.v.	quartz vein

NOTE: Holes AK92-39A, 43, 44 and 45 are plotted according to downhole directional survey data (Sperry Sun). Due to hole deviation downhole measurements will appear foreshortened.



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
STAS
W.A. GAMATEL - KIRKLAND PROPERTY

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

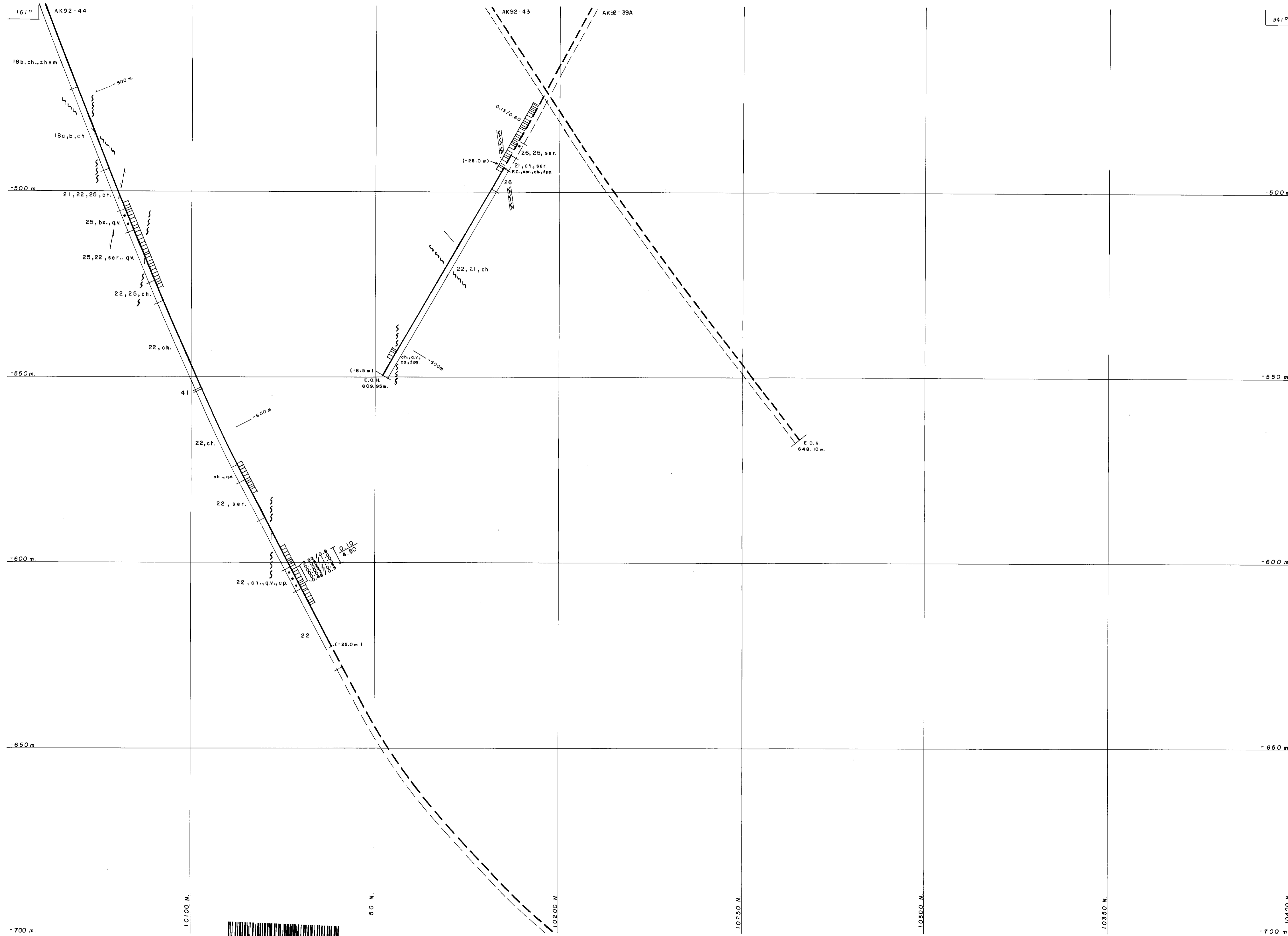
PREPARED BY: W. Benham / M. Masson
DRAWN BY: B.H. Madill, Tech.
DATE: September, 1992
SCALE: 1:1500

0 5 10 20 30 40 metres

SHEET ALIGNMENT POINT

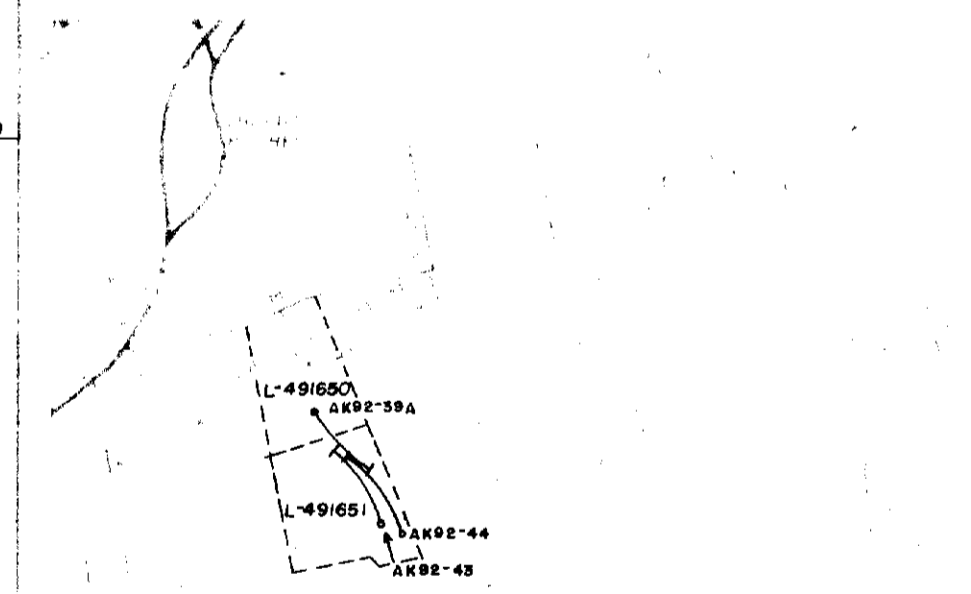
SHEET ALIGNMENT POINT





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

Collar co-ordinates and elevations are not surveyed.



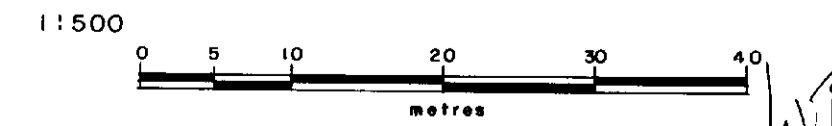
MAGNETIC DECLINATION
 +13°00'W

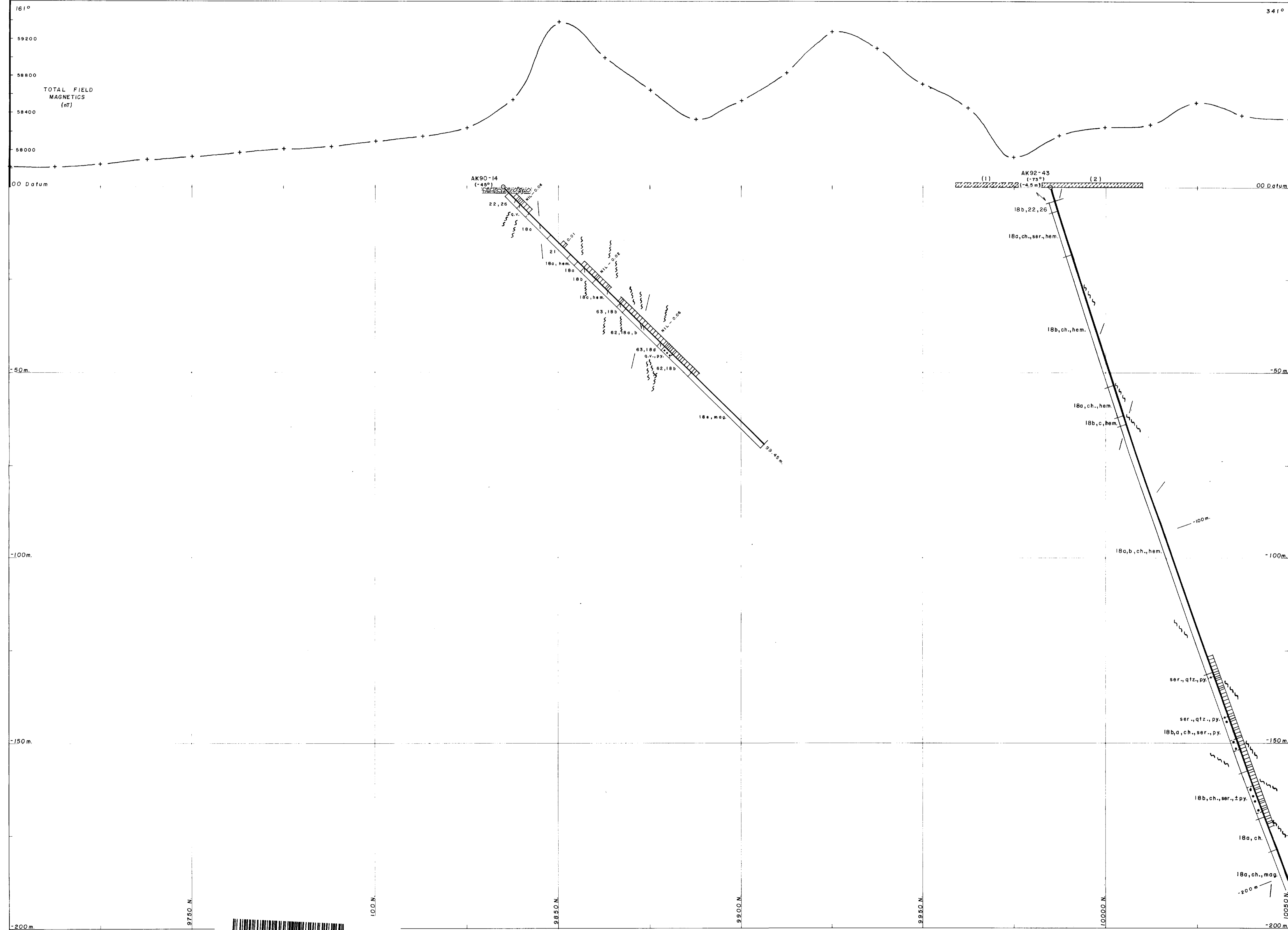
LITTLE MOUNTAIN CANADA, INC.

SECTION 8100 E
 HOLES AK92-39A
 and AK92-44

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

DC-008-3 (SHEET 3 of 3)





LEGEND

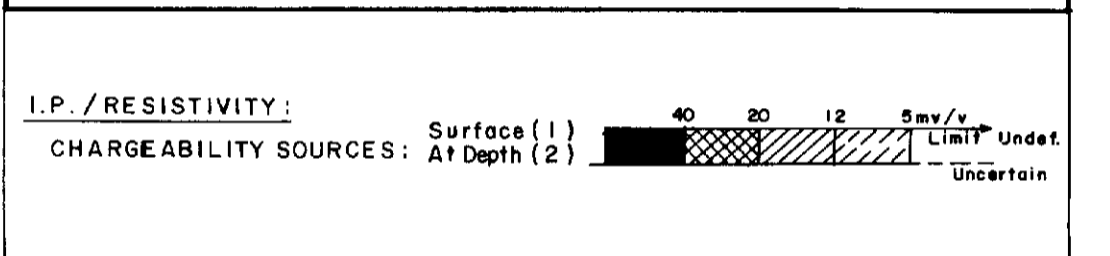
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
42 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Block Tuff
462 Mafic Syenite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

SYMBOLS

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

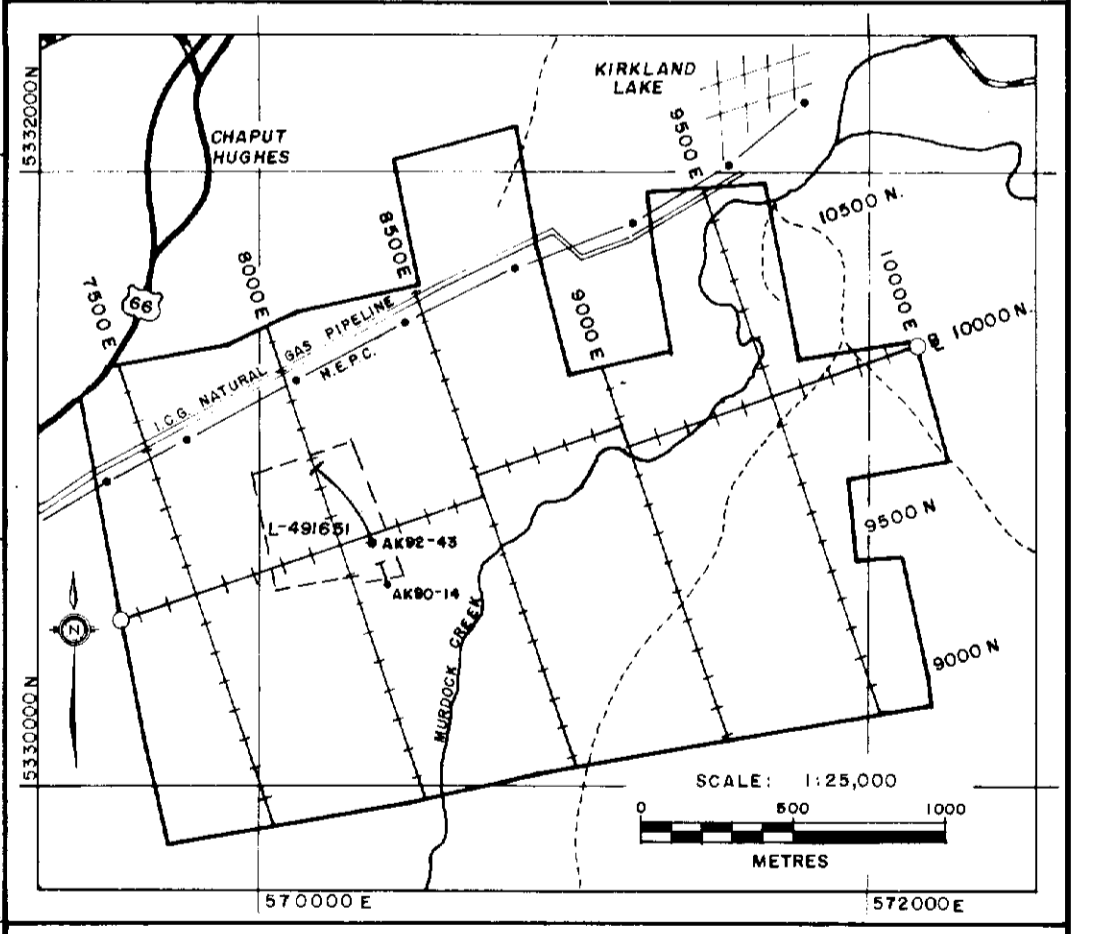
ABBREVIATIONS

agp - augite porphyritic	fp - feldspar porphyritic	qv - quartz vein
amg - amygdule	fsp - feldspathic	ser - sericitic
amp - amphibolite	gf - graphitic	sil - silicic
ank - ankerite	hem - hematite	sp - sphalerite
bx - breccia	lam - laminated	sh - sheared
cc - calcite	m - massive	s.z - shear zone
cd - carbonate	mag - magnetite	trc - trachoid
ch - chlorite	pb - galena	var - variolitic
cd - chalcopyrite	py - pyrite	ves - vesicular
fc - fractured	ma - molybdenite	vg - visible gold
f.z - fault zone		



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

Collar co-ordinates and elevations are not surveyed



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8100E
HOLES AK90-14
and AK92-43

PROJECT No.: 75-JV-28	DATA BY: W. Benham
NTS: 42 A/1	DRAWN BY: B.H. Madill, Tech.
DRAWING No: DC-007	DATE: Revised July 1992

SCALE: 1:500

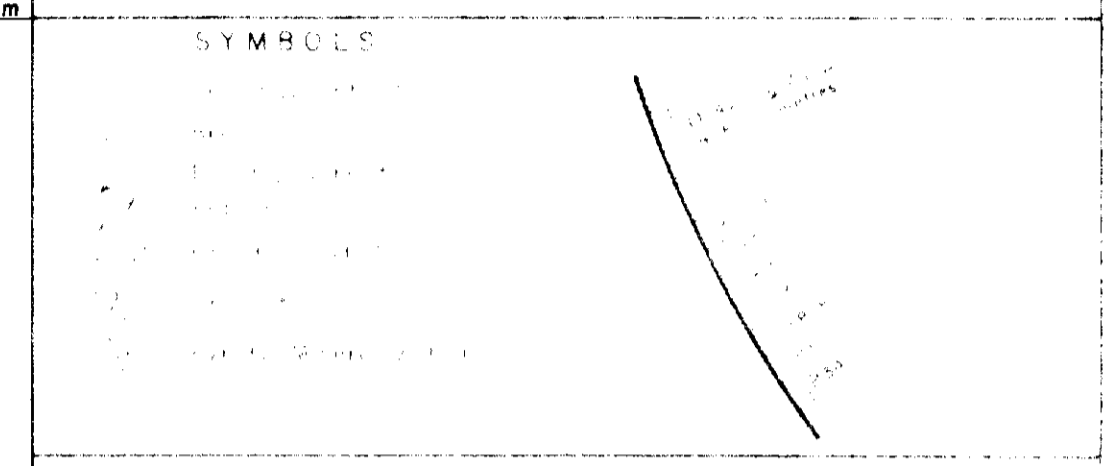


161°

341°

LEGEND

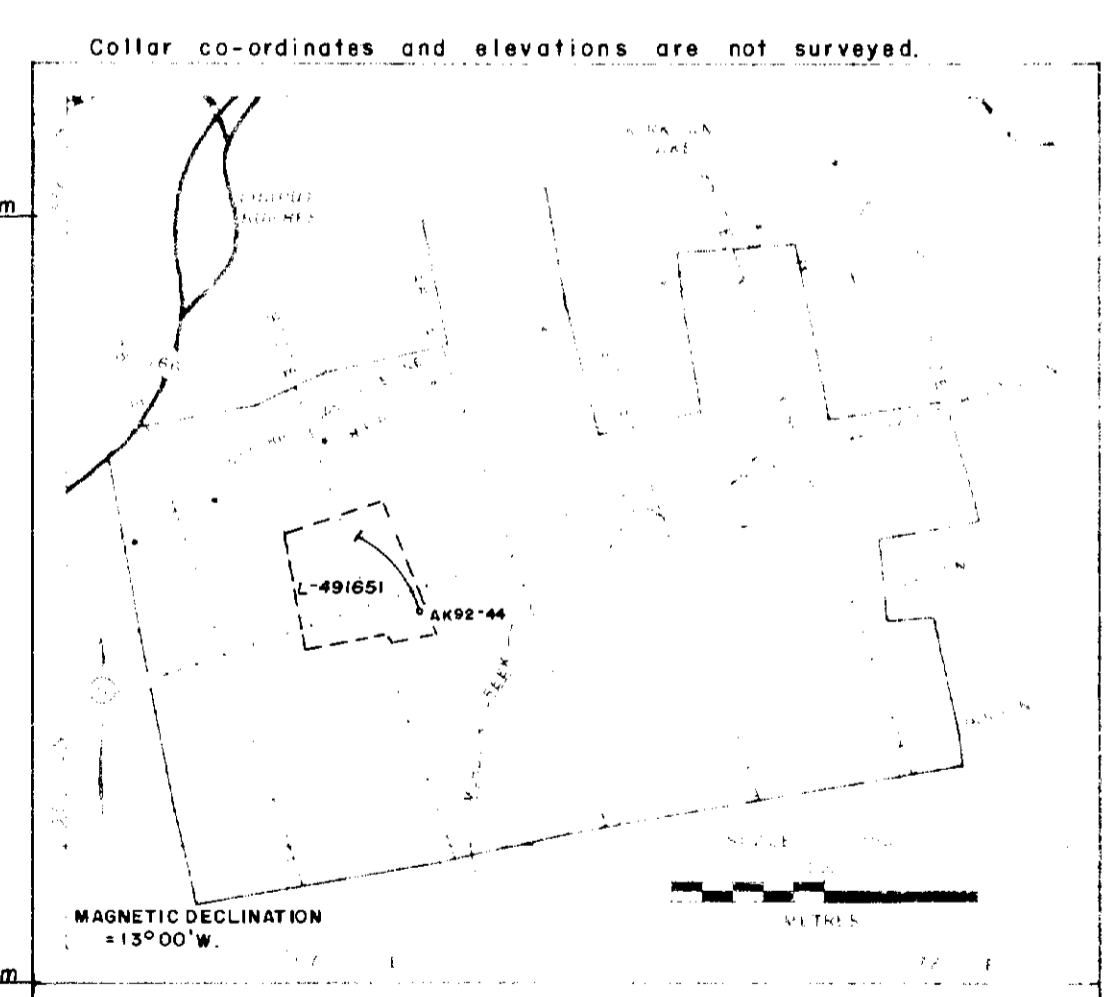
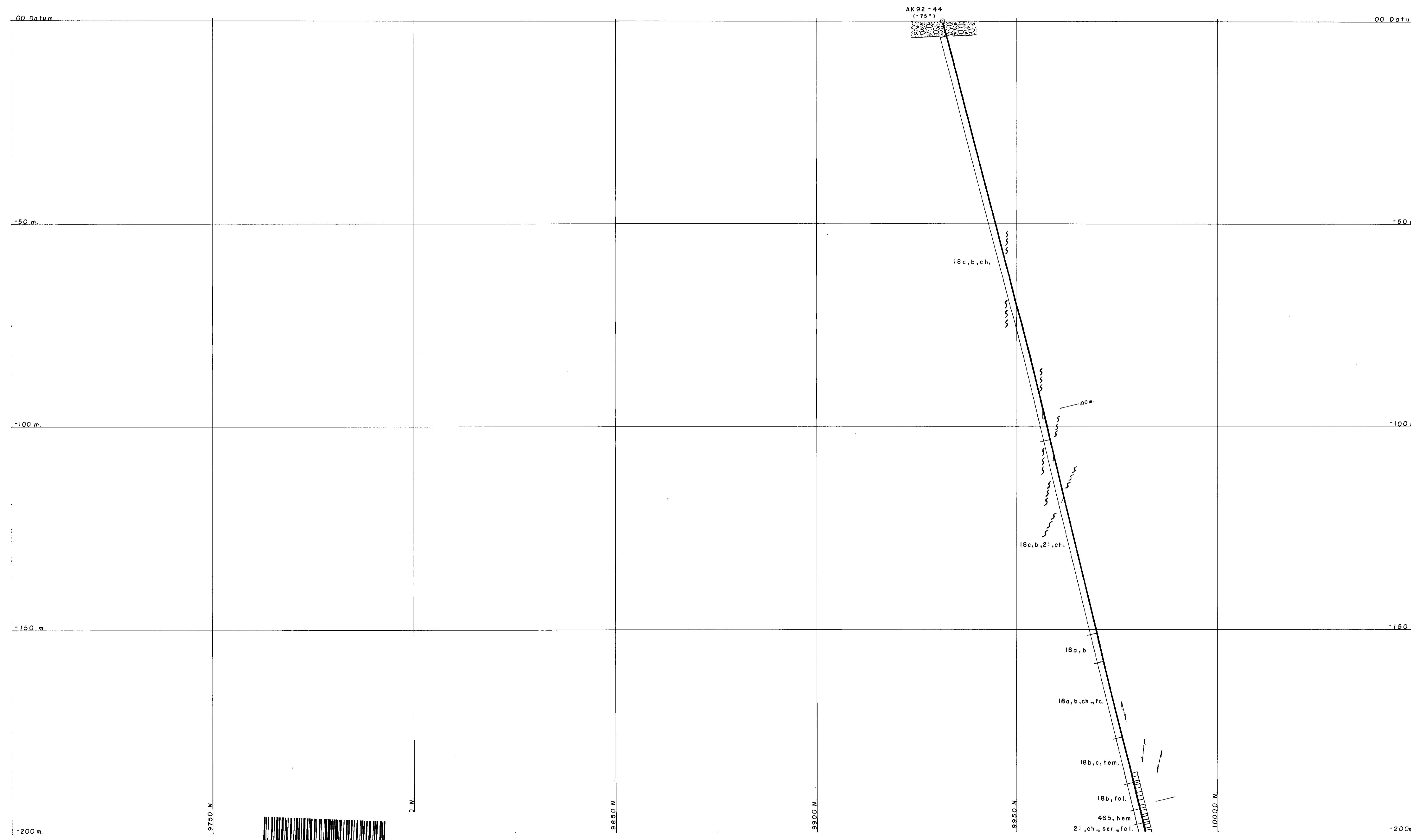
60 ALTERATION	20 SEDIMENTS
[61] [62] [63] [64] [65]	[21] [22] [23] [24] [25] [26]
40 INTERGLACIALS	10 VOLCANICS
[41] [42] [43] [44] [45]	[10] [11] [12] [13] [14]



ABBREVIATIONS

AK	AD	AL	AN	AR	AS	AT	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DV	DW	DX	DY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

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



BATTLE MOUNTAIN (CANADA) INC.

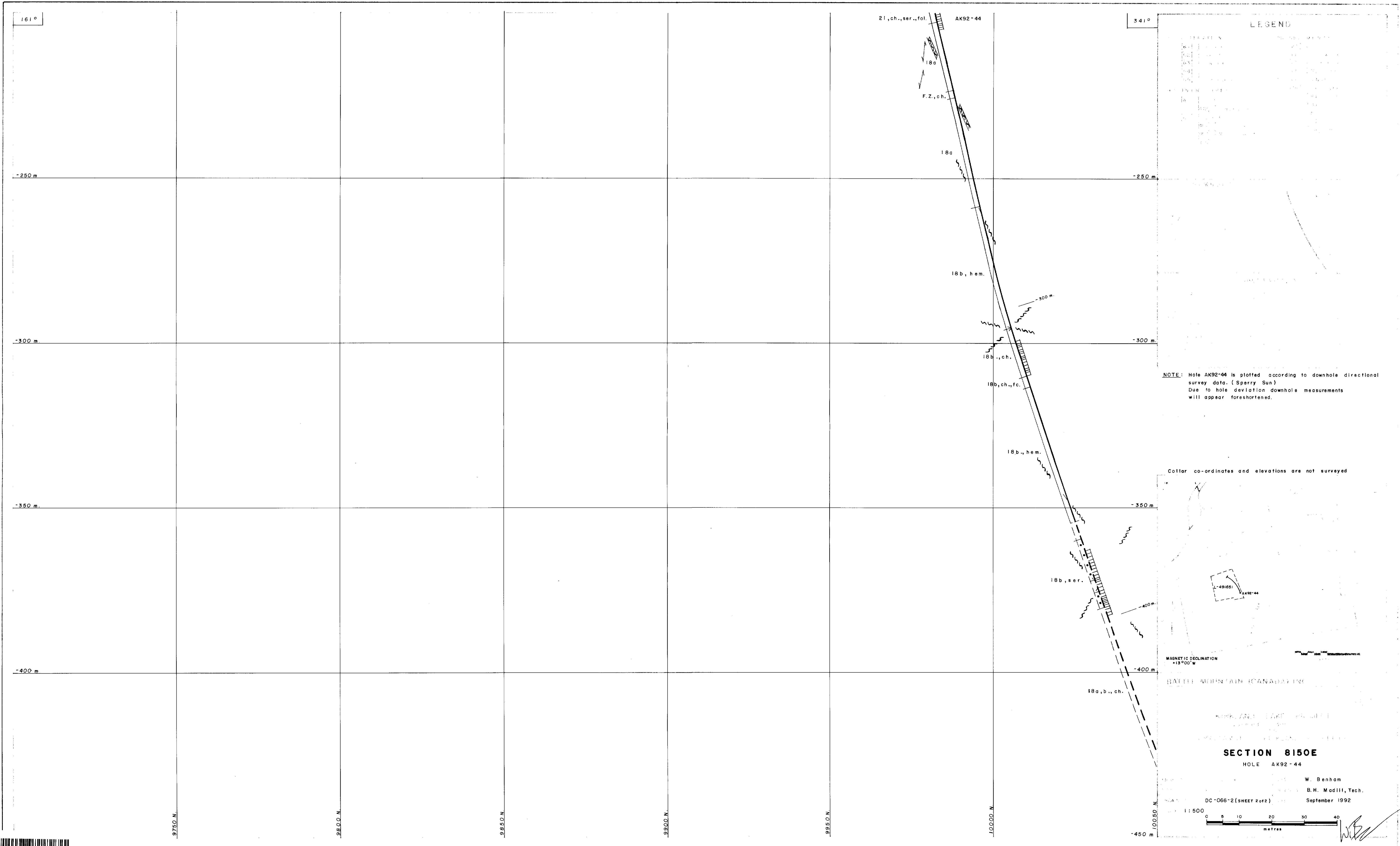
KIRKLAND LAKE PROJECT
Quekston Mining Inc.
LTD.
AMALGAMATED KIRKLAND PROPERTY

SECTION 8150E
HOLE AK92-44

PREP BY: ZSUV-28 DRAWN BY: W. Benham
CHECKED BY: DESIGNED BY: B.H. Modill, Tech
SCALE: DC-066-1 (SHEET 1 of 2) DATE: September 1992

SCALE: 1:1500





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

Collar co-ordinates and elevations are not surveyed

MAGNETIC DECLINATION
+13°00' W

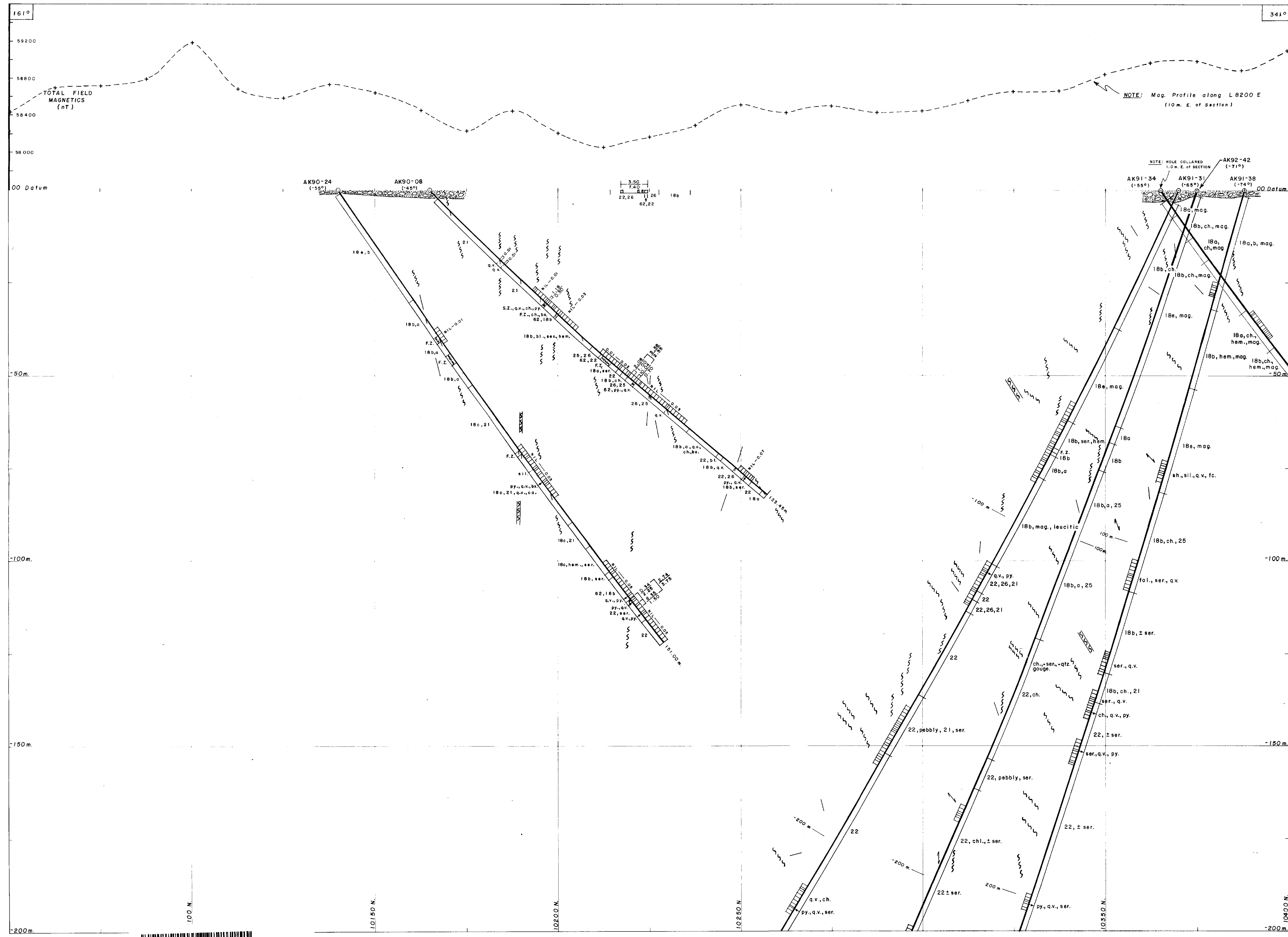
BALLET MOUNTAIN (CANADA) DISTRICT

SECTION 8150E
HOLE AK92-44

W. Benham
B. H. Madill, Tech.
September 1992

DC-066-2 (SHEET 2 of 2)
1:500
metres





LEGEND

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

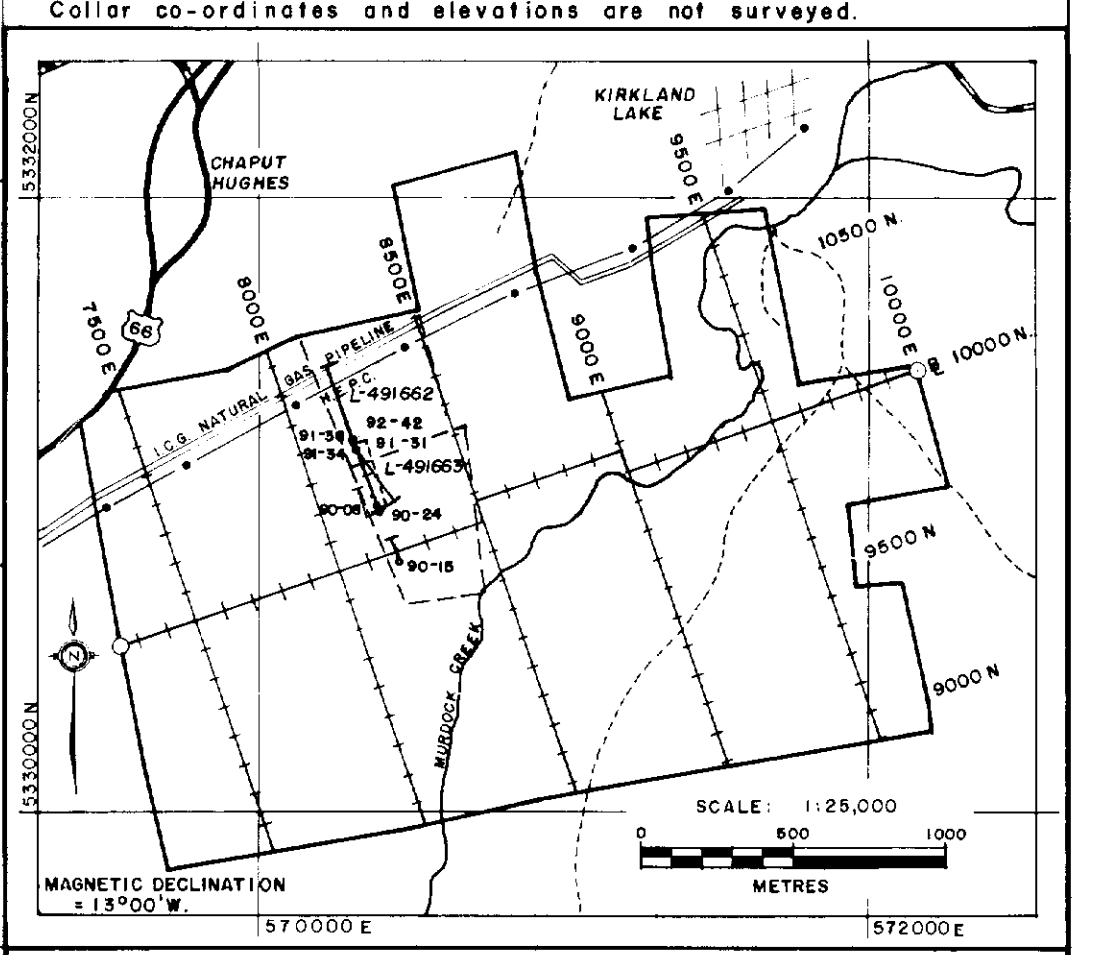
SYMBOLS

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

ABBREVIATIONS

agp - augite porphyritic	fp - feldspar porphyritic	qv - quartz vein
amg - amygdule	fsp - feldspathic	ser - sericitic
amp - amphibolite	glt - graphitic	sil - silicic
ax - axinite	hem - hematite	sp - sphalerite
bx - breccia	lam - laminated	sh - sheared
ca - calcite	m - massive	sz - shear zone
cb - carbonate	mag - magnetite	trc - trachoid
ch - chlorite	pb - galena	var - variolitic
cp - chalcopyrite	py - pyrite	ves - vesicular
fc - fractured	mo - molybdenite	vg - visible gold
fz - fault zone	bl - bleached	
fol - foliated		

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



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

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

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

SCALE: 1:500





LEGEND

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

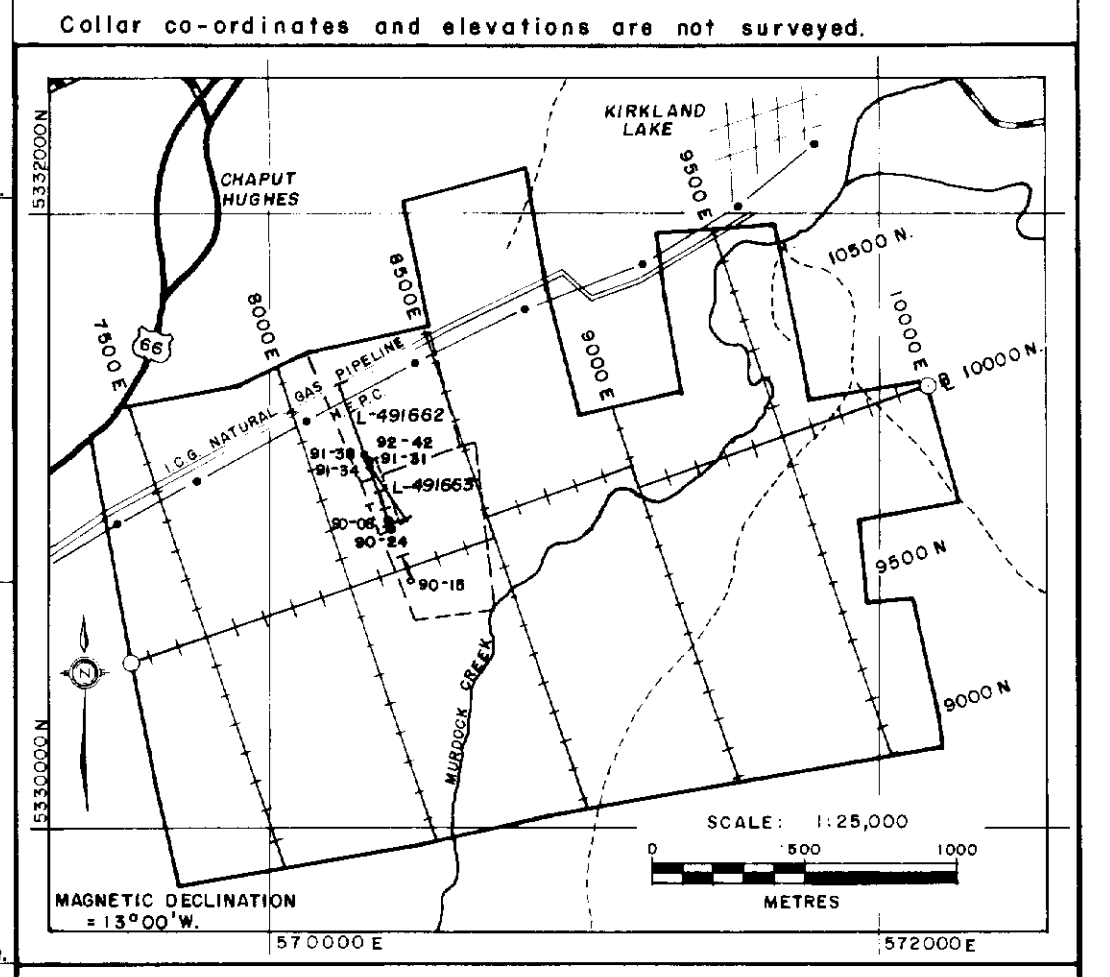
SYMBOLS

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

ABBREVIATIONS

agp - augite porphyritic	fp - feldspar porphyritic	qv - quartz vein
amg - amygdule	fsp - felspathic	ser - sericitic
amp - amphibole	gf - graphic	sil - silicic
ank - ankerite	hem - hematite	sp - sphalerite
ca - calcite	lam - laminated	sh - sheared
cb - carbonate	m - massive	s.z - shear zone
ch - chlorite	mag - magnetite	trc - trachoidal
cp - chloropyrite	pb - galena	var - variolitic
fr - fractured	py - pyrite	ves - vesicular
fz - fault zone	mo - molybdenite	vg - visible gold
	alb - albite	bl - bleached

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



NB. Possible sample mix-up Anomalous interval may start 5 samples further uphole than it is shown?

BATTLE MOUNTAIN (CANADA) INC.

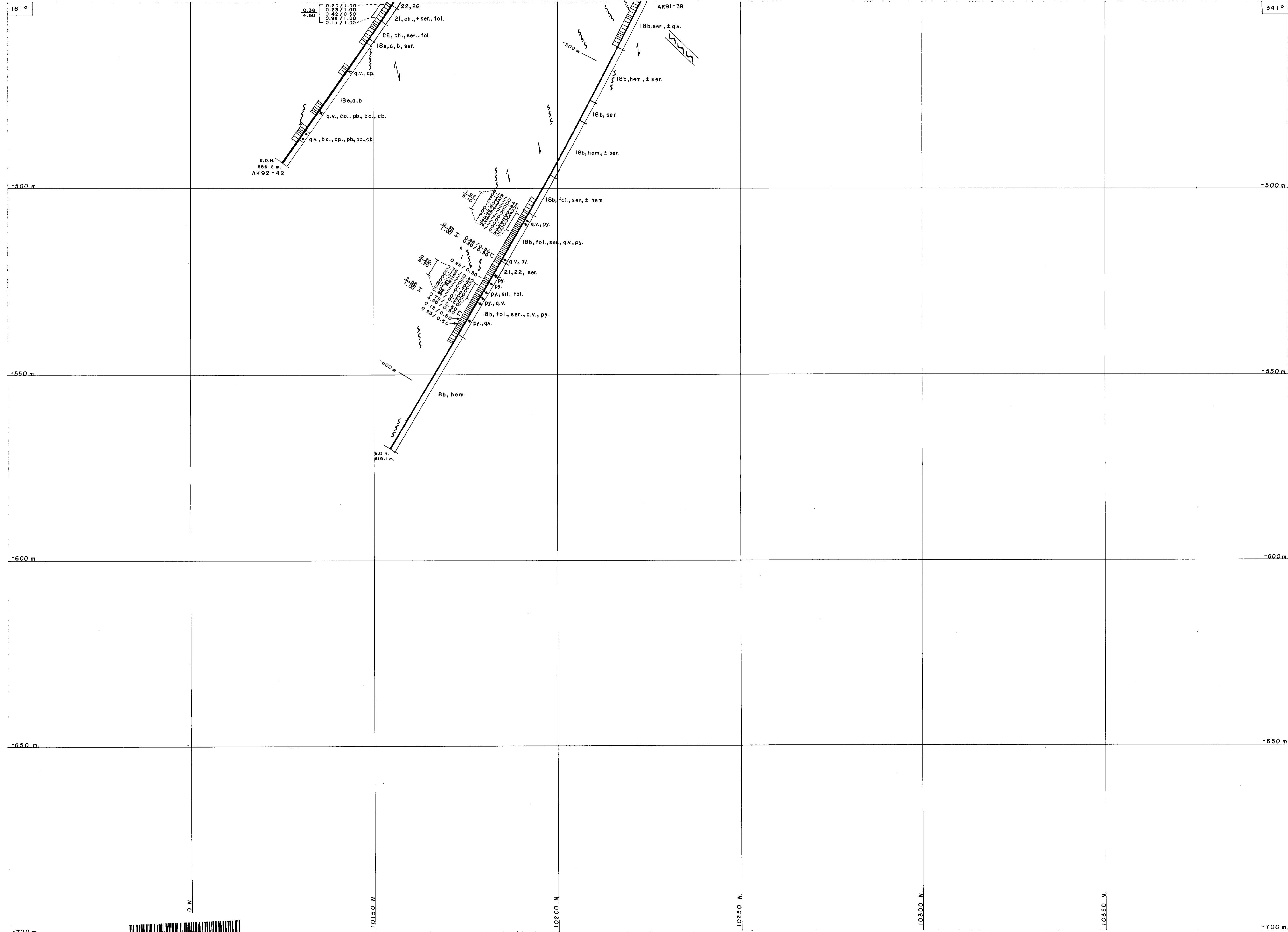
KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

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

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

SCALE: 1:1500





LEGEND

60 ALTERATION	70 SEDIMENTS
61 Siliceous	21 Sandstone
62 Sericite	22 Clay shale
63 Hematitic	25 Tuffaceous
64 Sulfidic	26 Manganese
65 Carbonized	10 VOLCANICS
40 INTRUSIVES	181 Trachyte
41 Granite	182 Basalt
42 Amphibole	183 Andesite
45 Syenite	184 Basalt
461 Augite Syenite	185 Basalt
462 Micro Syenite	186 Basalt
463 Feldspar Syenite	

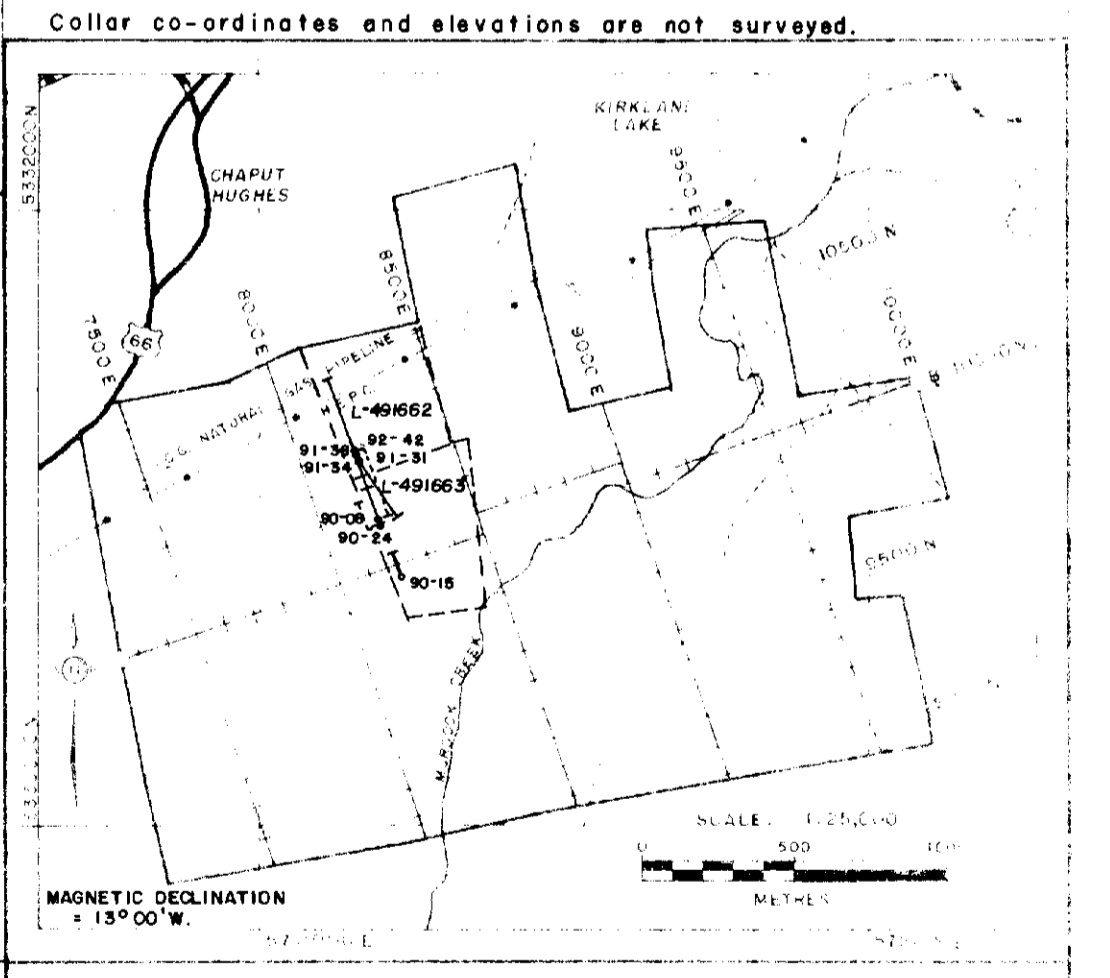
SYMBOLS

- Wavy line: Unconformity
- Horizontal line: Breccia
- Arrow: Facing direction
- Vertical line: Fault line
- Zone: Fault, fault zone
- Curved line: Drag folding
- Star: Pyrite Mineralization

ABBREVIATIONS

sp: white siliceous	py: pyrite	ch: chlorite
am: amphibole	qt: quartzite	ep: epidote
mp: magnetite	gt: garnetite	sl: siliceous
or: orthopyroxene	hem: hematite	sp: sphalerite
bx: breccia	lm: laminated	ch: chlorite
tr: trachyte	m: massive	vt: vuggy zone
cb: calcite	mg: magnetite	tr: trachyte
cl: chlorite	gls: galena	vt: vuggy zone
o: orthopyroxene	py: pyrite	ep: epidote
fr: fracture	bc: amphibole	vg: vuggy zone
fz: fault zone	ba: barite	

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



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queensland Mining Inc.
ONTARIO

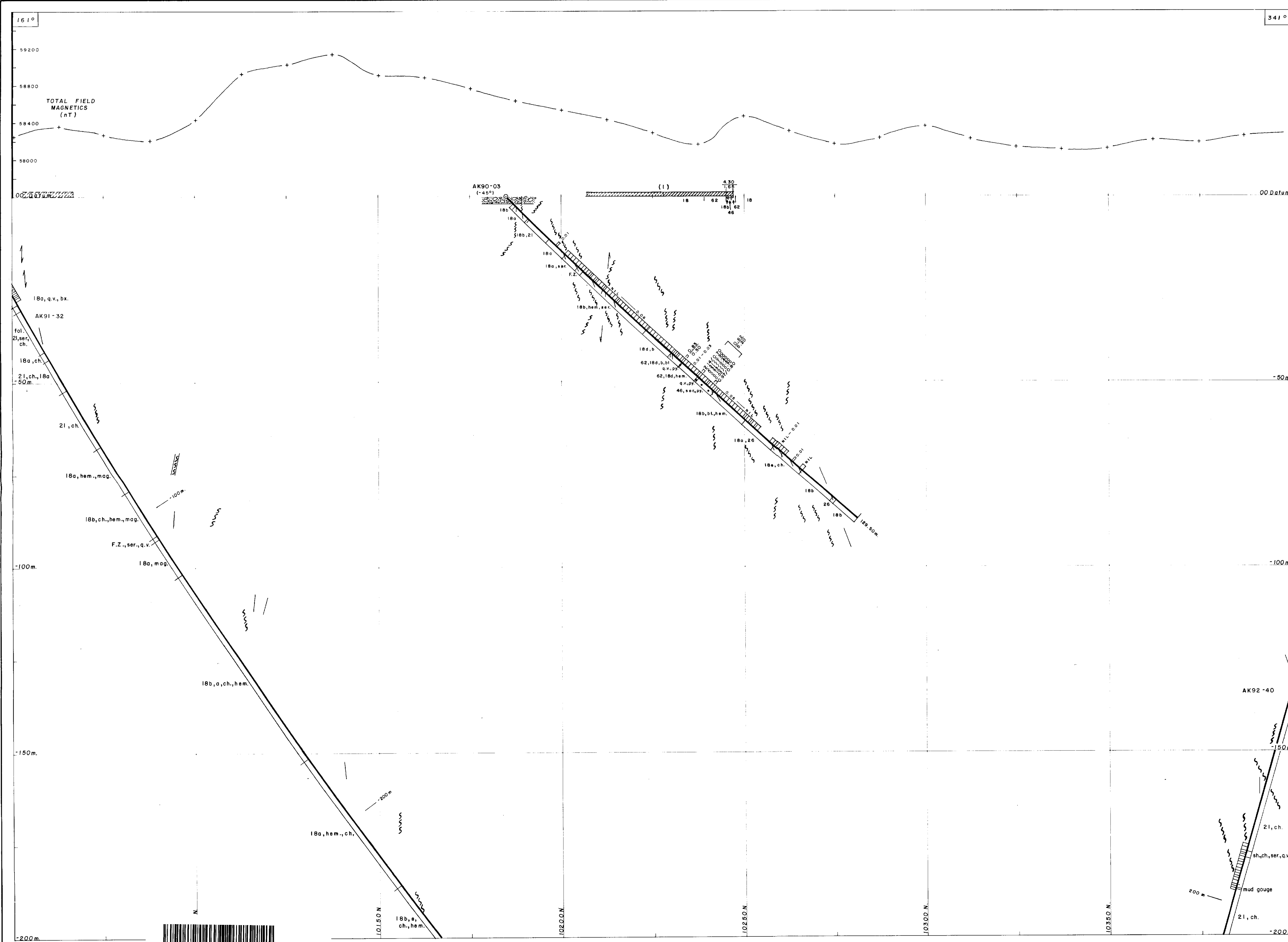
AMALGAMATED KIRKLAND PROPERTY

SECTION 8190E
HOLES AK91-38
and AK92-42

PROJECT No. 75-39-2P	DRAWN BY: M. Masson, W. Benham
DATE: 27-07-92	DATE: 27-07-92
ENGINEER: DC-010-3 (SHEET 3 of 3)	DATE: Revised July, 1992

SCALE 1:500





LEGEND

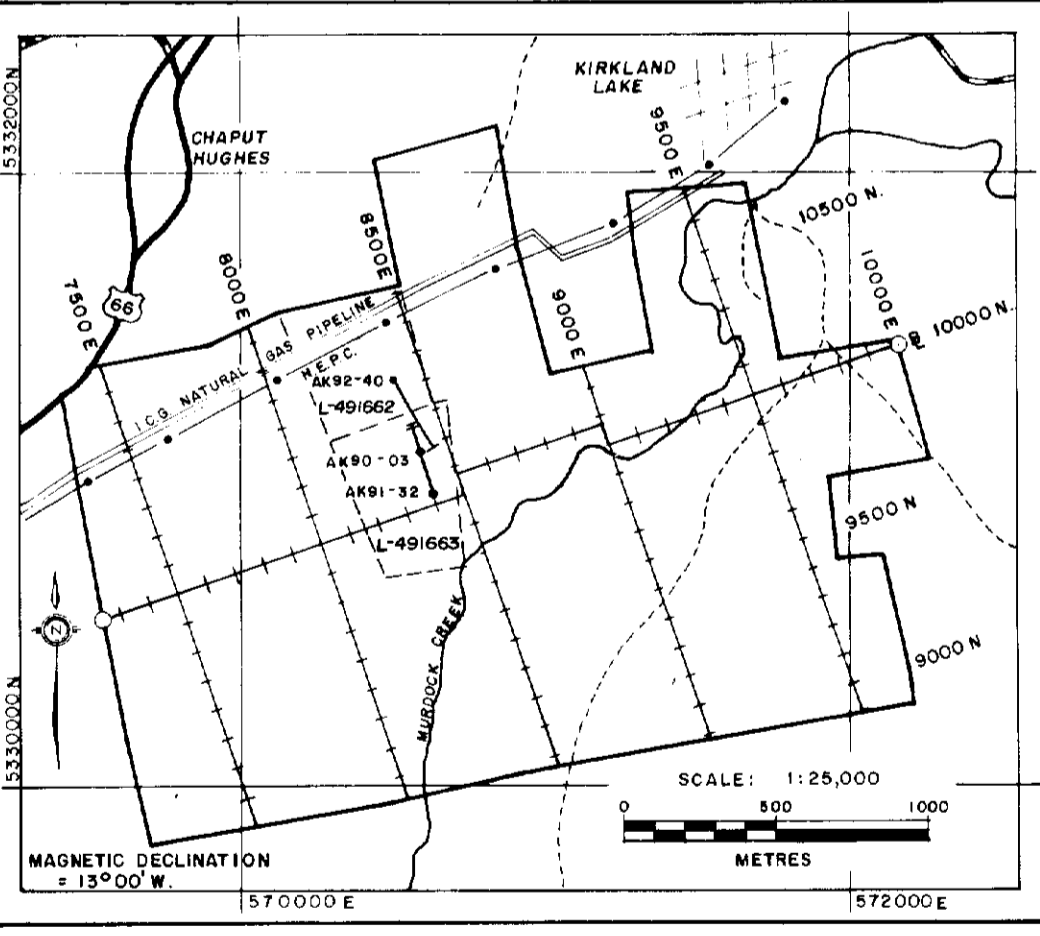
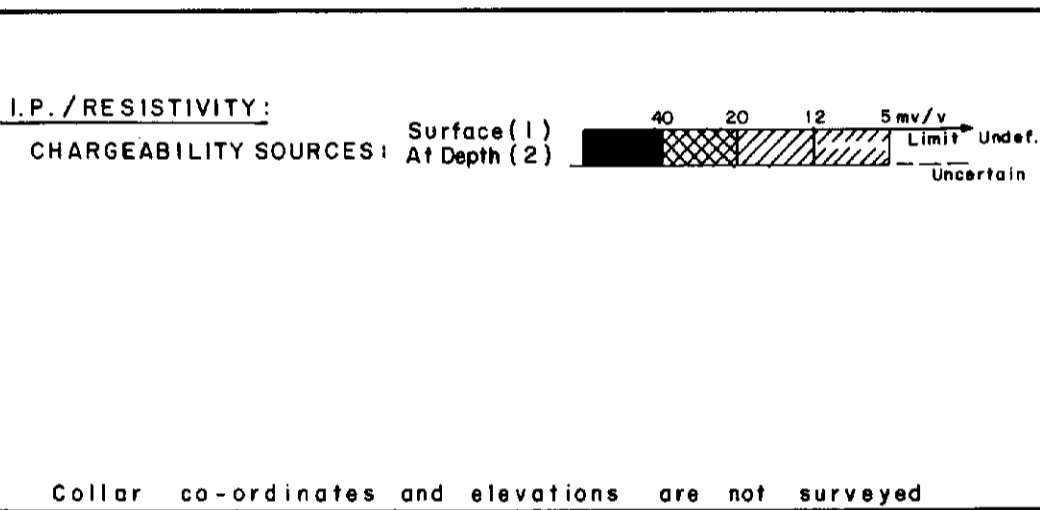
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
42 Lomprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
46i Augite Syenite	18c Block Tuff
46s Mafic Syenite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

SYMBOLS

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

ABBREVIATIONS

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



BATTLE MOUNTAIN (CANADA) INC.

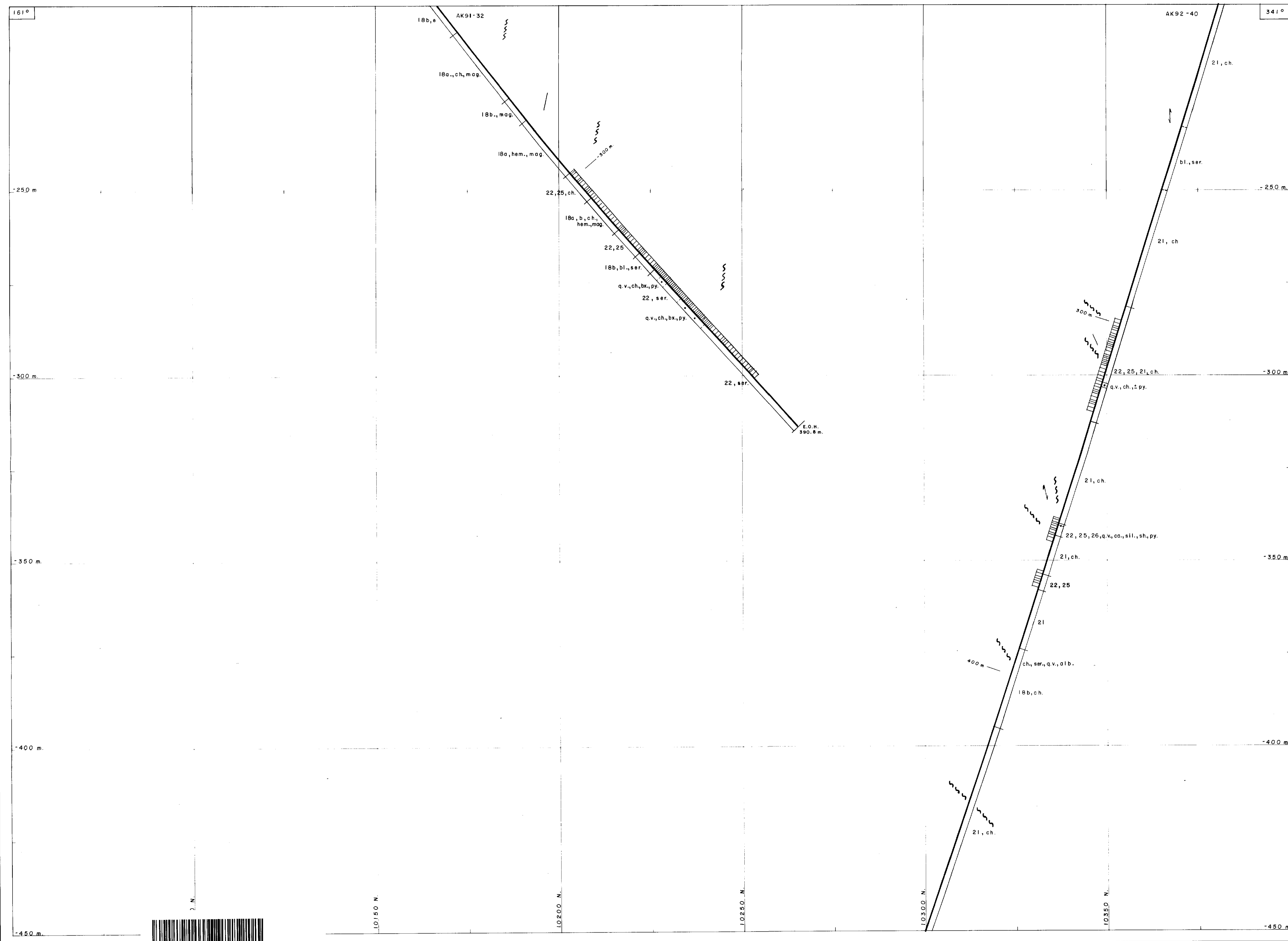
KIRKLAND LAKE PROJECT
 Queenston Mining Inc.
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY

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

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

SCALE: 1:500





LEGEND

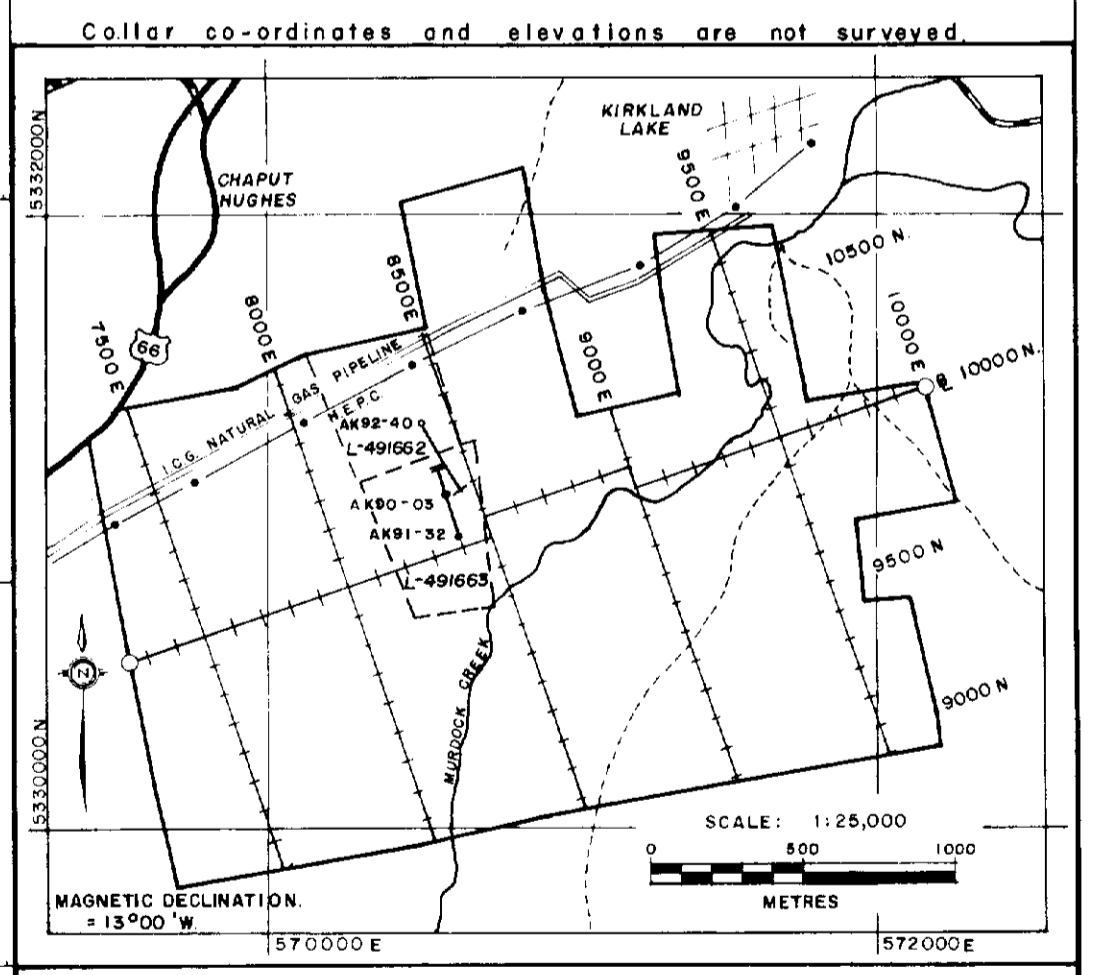
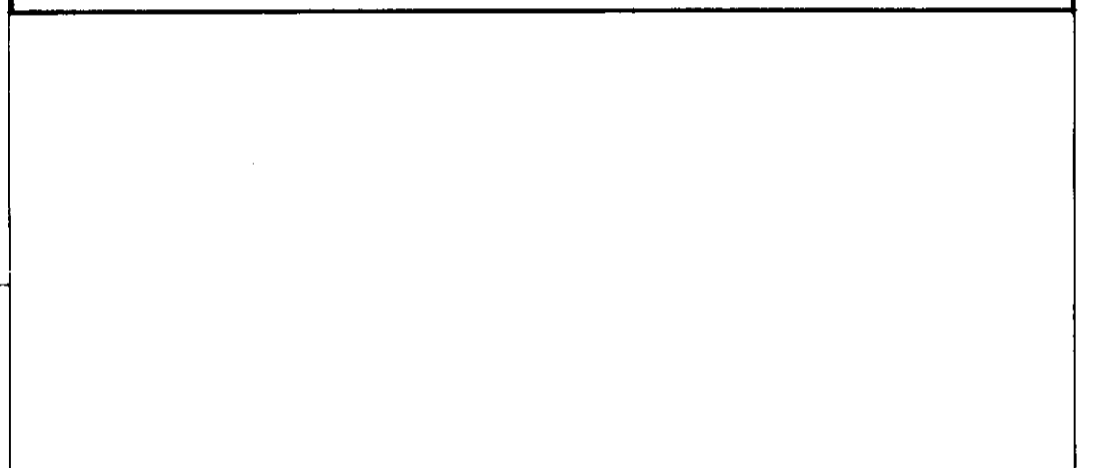
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
42 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Black Tuff
462 Mafic Syenite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

SYMBOLS

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

ABBREVIATIONS

agp - augite porphyritic	fp - feldspar porphyritic	q.v. - quartz vein
amg - amygdule	isp - feldspathic	ser. - sericitic
amp - amphibolite	gf - gneissic	sil - silicic
ank - ankerite	hem - hematite	sp - sphalerite
bx - breccia	lam - laminated	sh - sheared
ca - calcite	m - massive	s.z - shear zone
cb - carbonate	mag - magnetite	trc - trachoid
ch - chlorite	gal - galena	var - variolitic
cp - chlorophyllite	py - pyrite	ves - vesicular
fc - fractures	mo - molybdenite	vg - visible gold
fz - fault zone	alb - albite	



BATTLE MOUNTAIN (CANADA) INC.

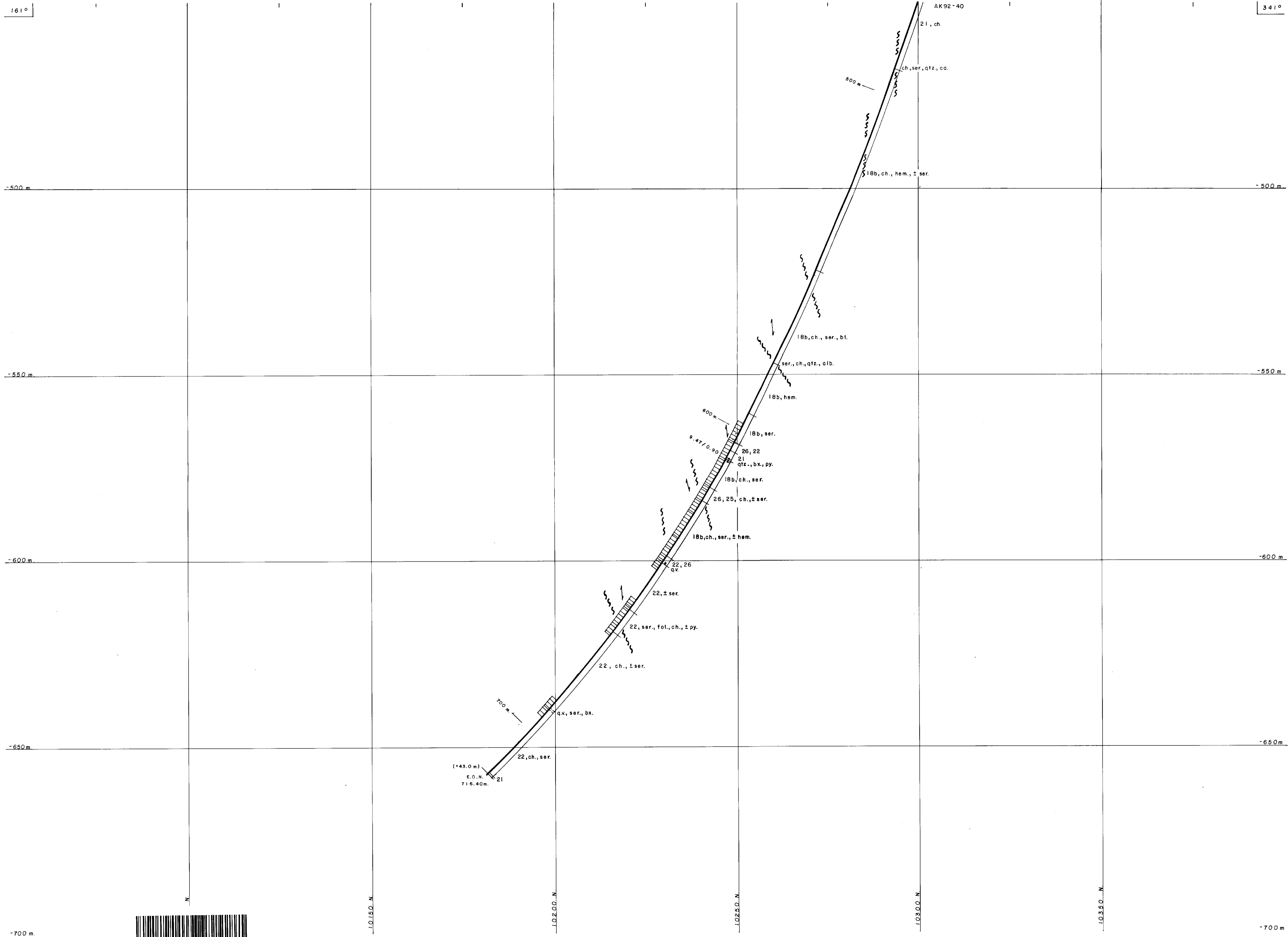
KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8400 E
HOLES AK91-32
and AK92-40

PROJECT No.: 75-JV-28	DATA BY: M. Masson, W. Benhom
NTS: 42 A/1	DRAWN BY: B.H. Madill, Tech.
DRAWING No.: DC-017-2 (SHEET 2 of 3)	DATE: May, 1992

SCALE: 1:500





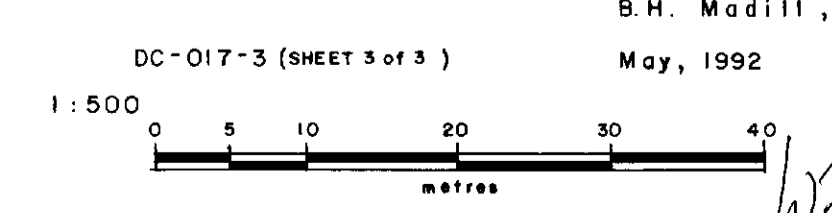
alb - albite
 qtz. - quartzite
 bl. - bleached
 fol. - foliated

Collar co-ordinates and elevations are not surveyed.

MAGNETIC DECLINATION
 +13°00' W.

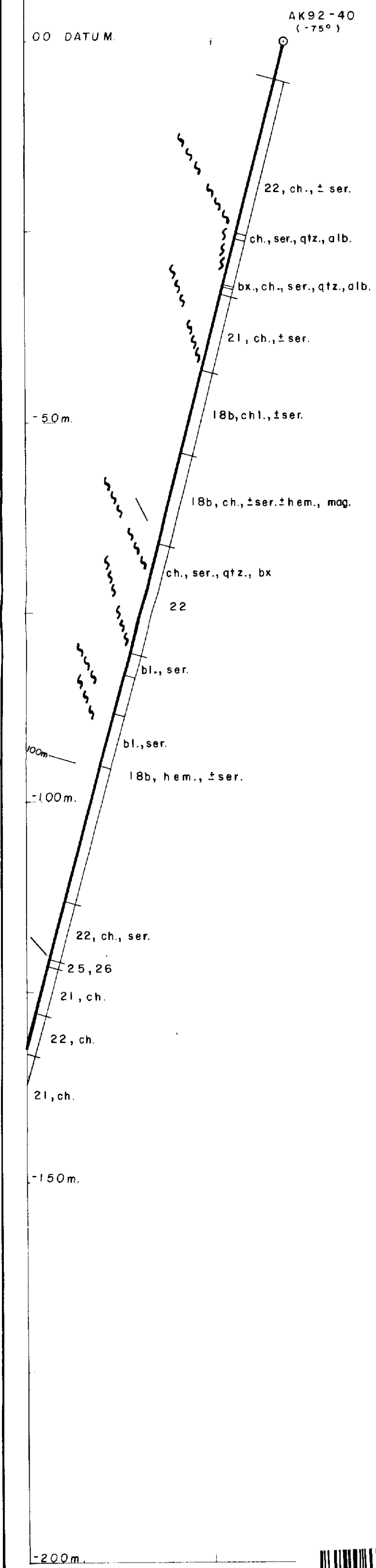
SECTION 8400E
 HOLE AK92-40

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



161°

341°



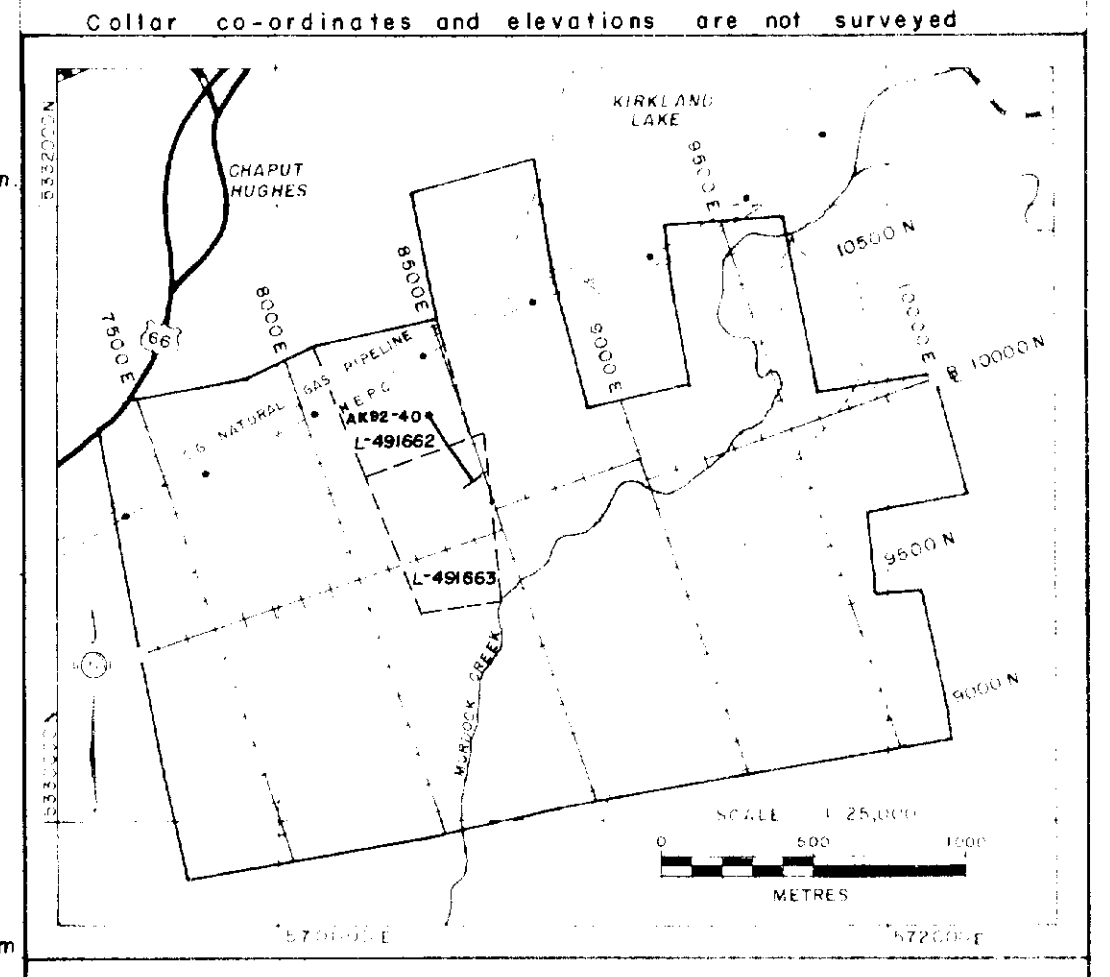
LEGEND

50 ALTERATION	20 SEDIMENTS
61 Oxidized	21 Sandstone
62 Sulfidated	22 Shale
63 Hematitic	23 Siltstone
64 Siliceous	24 Volcanic
65 Carbonized	10 VOLCANICS
40 INTRUSIVES	18 Trachyte
41 Gabbro	18a Basalt
42 Lamprophyre	18b Basalt
43 Syenite	18c Basalt
44 Quartz Syenite	18d Basalt
45 Melic Syenite	18e Melic Syenite
46 Felspar Porphyry	

SYMBOLS

ABBREVIATIONS

amp - amphibole	ep - epidote	qtz - quartz
amg - amygdule	fsp - feldspar	ser - sericite
amp - amphibole	gl - graphite	st - staurolite
ank - ankaramite	hem - hematite	sp - sphalerite
bx - breccia	lab - labradorite	st - staurolite
ca - calcite	m - massive	st - staurolite
cl - chlorite	mag - magnetite	tr - tourmaline
ch - chlorite	pd - pyrite	vt - vermiculite
ch - chlorite	py - pyrite	vms - vuggy
cl - chlorite	mo - molybdenite	vq - vein quartz
fz - fault zone	bl - bleached	qtz - quartz
alb - albite		



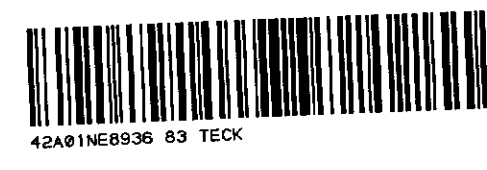
BATTLE MOUNTAIN (CANADA) INC.

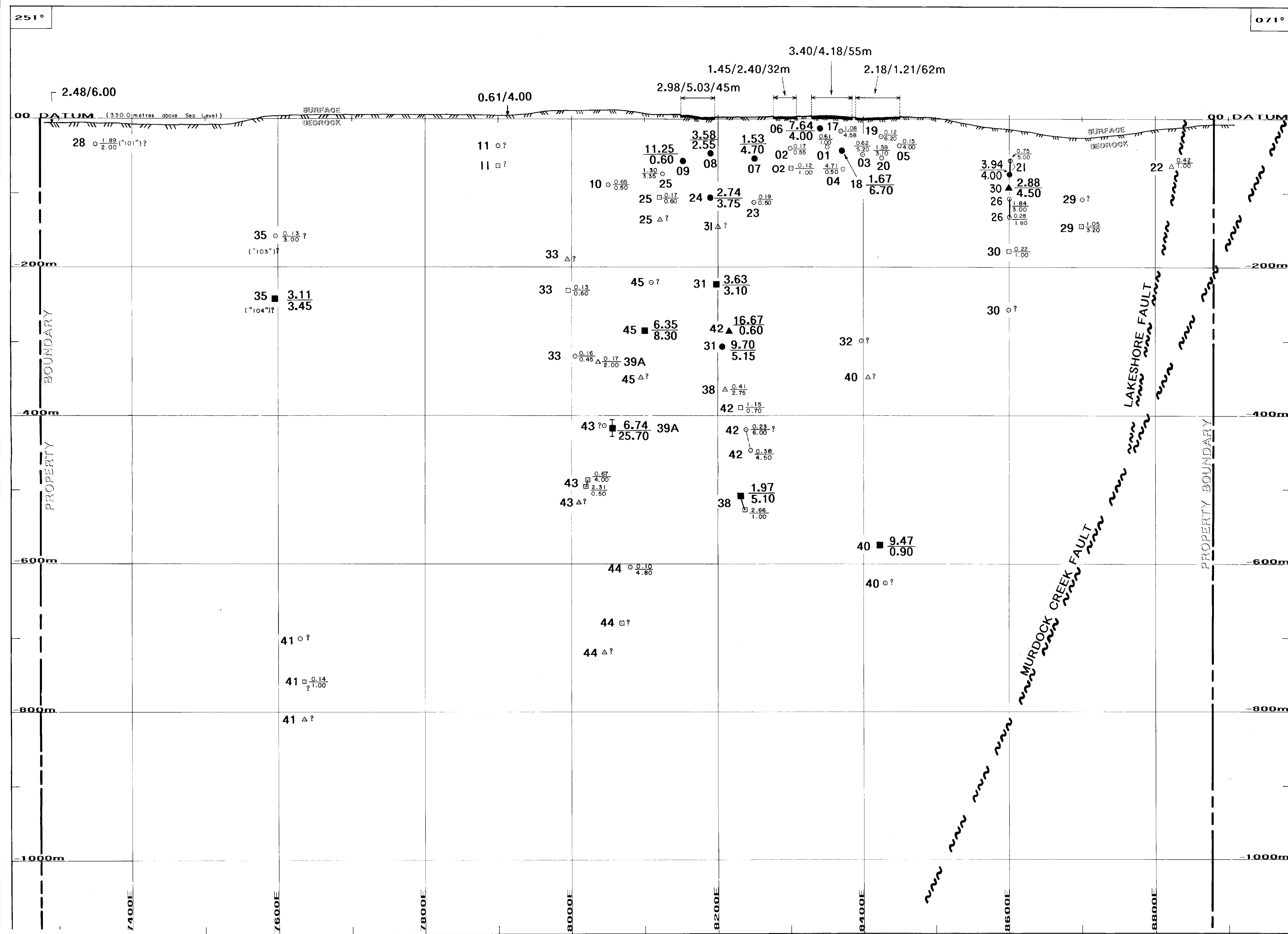
KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8400E
HOLE AK92-40

PROJECT No.: 75-JV-28	DATA BY: M. Masson / W. Benham
NTS: 4 A / 1	DRAWN BY: B.H. Modill, Tech.
DRAWING No: DC-065	DATE: May, 1992

SCALE: 1:500





LEGEND

(Hole No.)
 31 ○ 5.15 (g/t Au) / 9.70 metres 43 ○? Interpreted location of zone uncertain

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

"102" ZONE

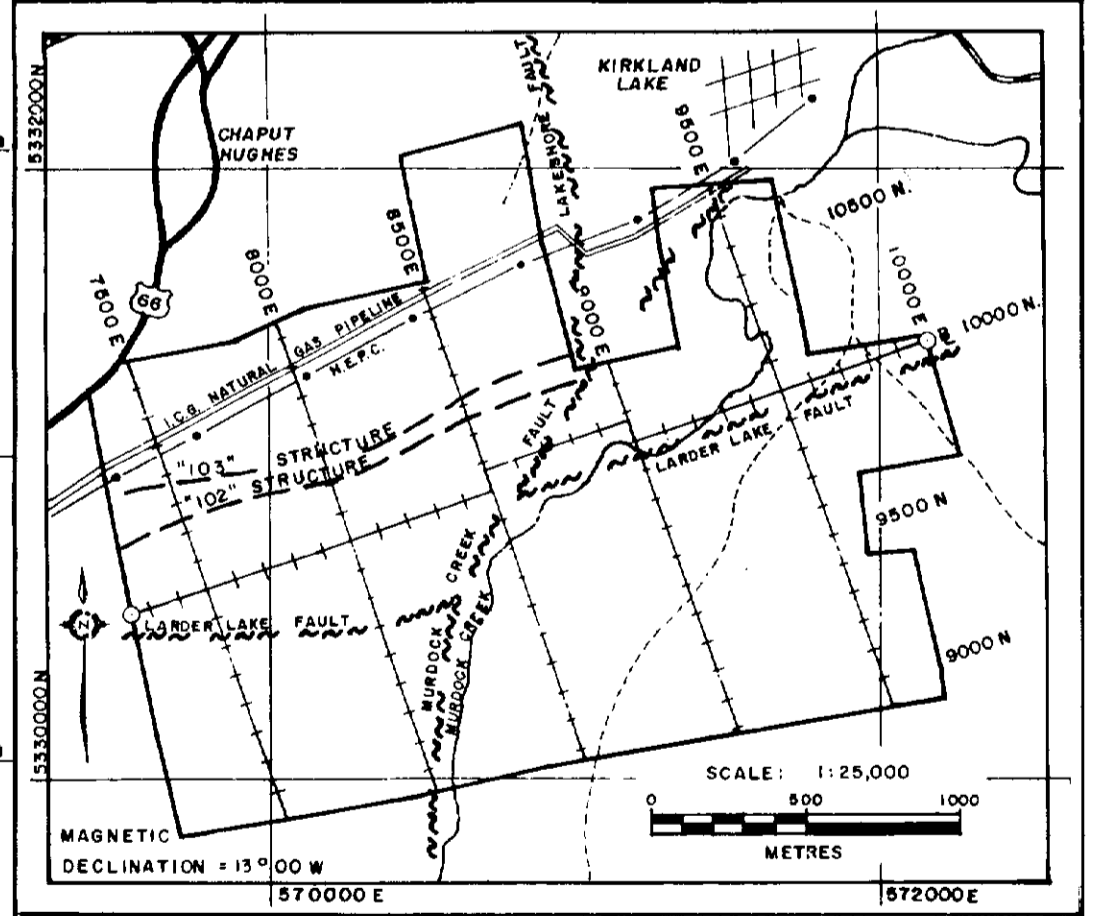
- >6.00g/t Au x metres
- No Significant Intersection

"103" ZONE

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

"104" ZONE

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



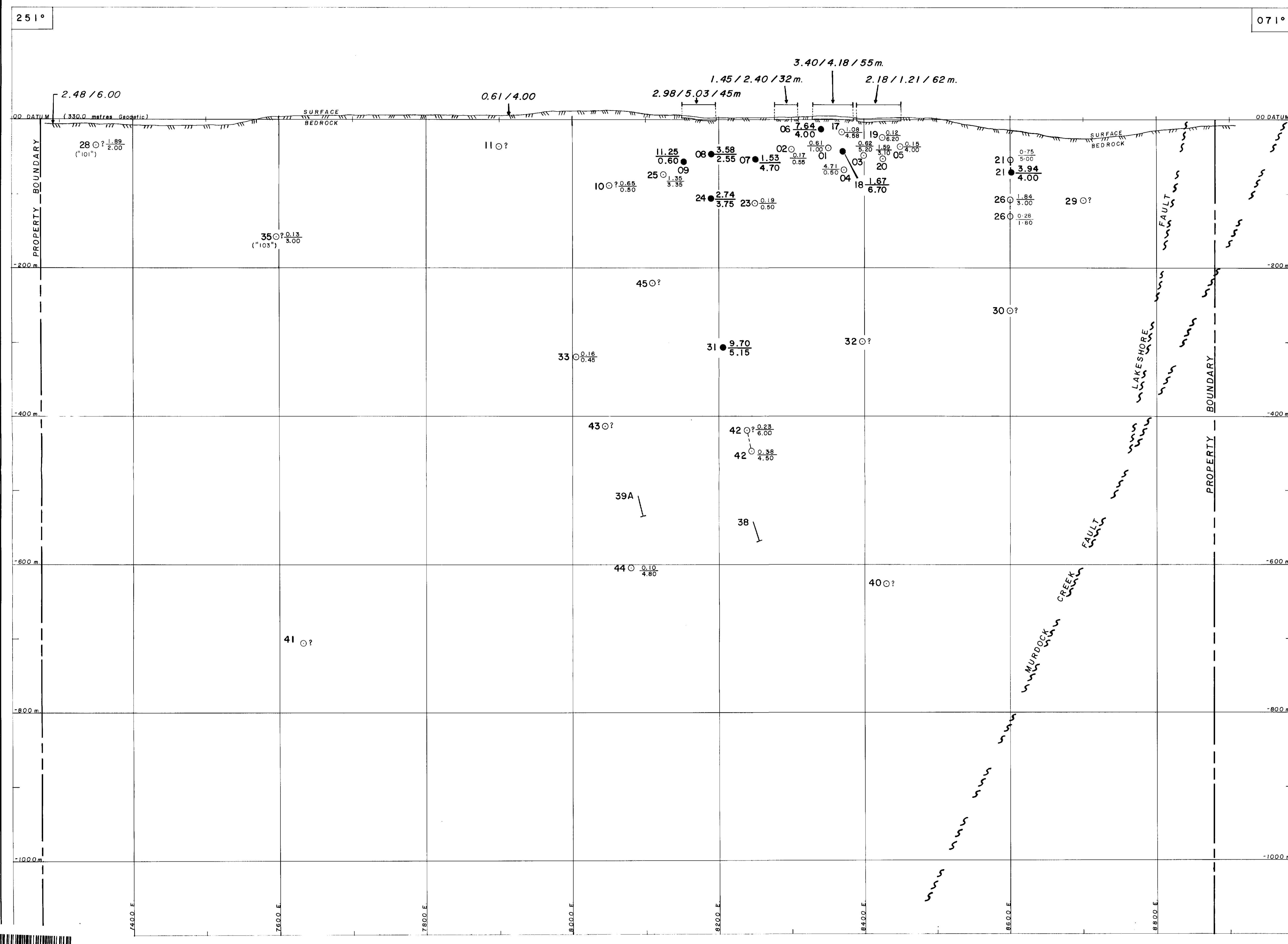
BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
 Queenston Mining Inc.
 ONTARIO

AMALGAMATED KIRKLAND PROPERTY
"102"/"103"/"104" AU ZONES
LONGITUDINAL SECTION

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

SCALE: 1:2500
 0 100 200 METRES



LEGEND

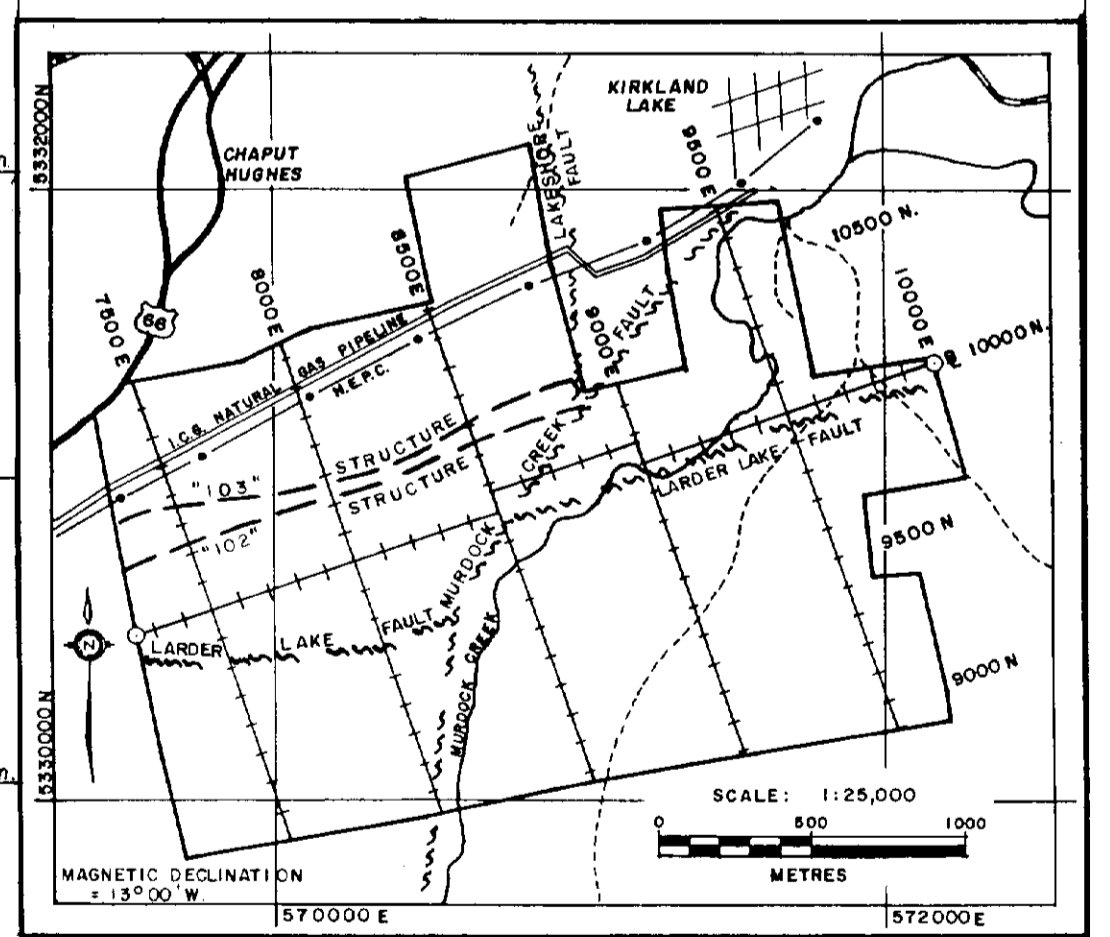
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hemalitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	10 VOLCANICS
40 INTRUSIVES	18 Trachytes
41 Diabase	18a Ash Tuff
42 Lamprophyre	18b Lapilli Tuff
43 Syenite	18c Block Tuff
451 Augite Syenite	18d Lithic Tuff
452 Mafic Syenite	18e Monolithic Tuff
453 Feldspar Porphyry	18f Flow
454 Hornblende - Feldspar Porphyry	

(Hole No.)
 31 $\frac{9.70}{5.15}$ (g./t. Au / metres)
 MIDPOINT OF INTERSECTION
 32? Interpreted location of zone uncertain.
 2.98/5.03/45m (g/t Au/width/length)
 SURFACE CHANNEL SAMPLING

"102" ZONE

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

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



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
 Queenston Mining Inc.
 ONTARIO
 A MARGAMATED KIRKLAND PROPERTY

"102" ZONE
 LONGITUDINAL SECTION

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

SCALE: 1:2500

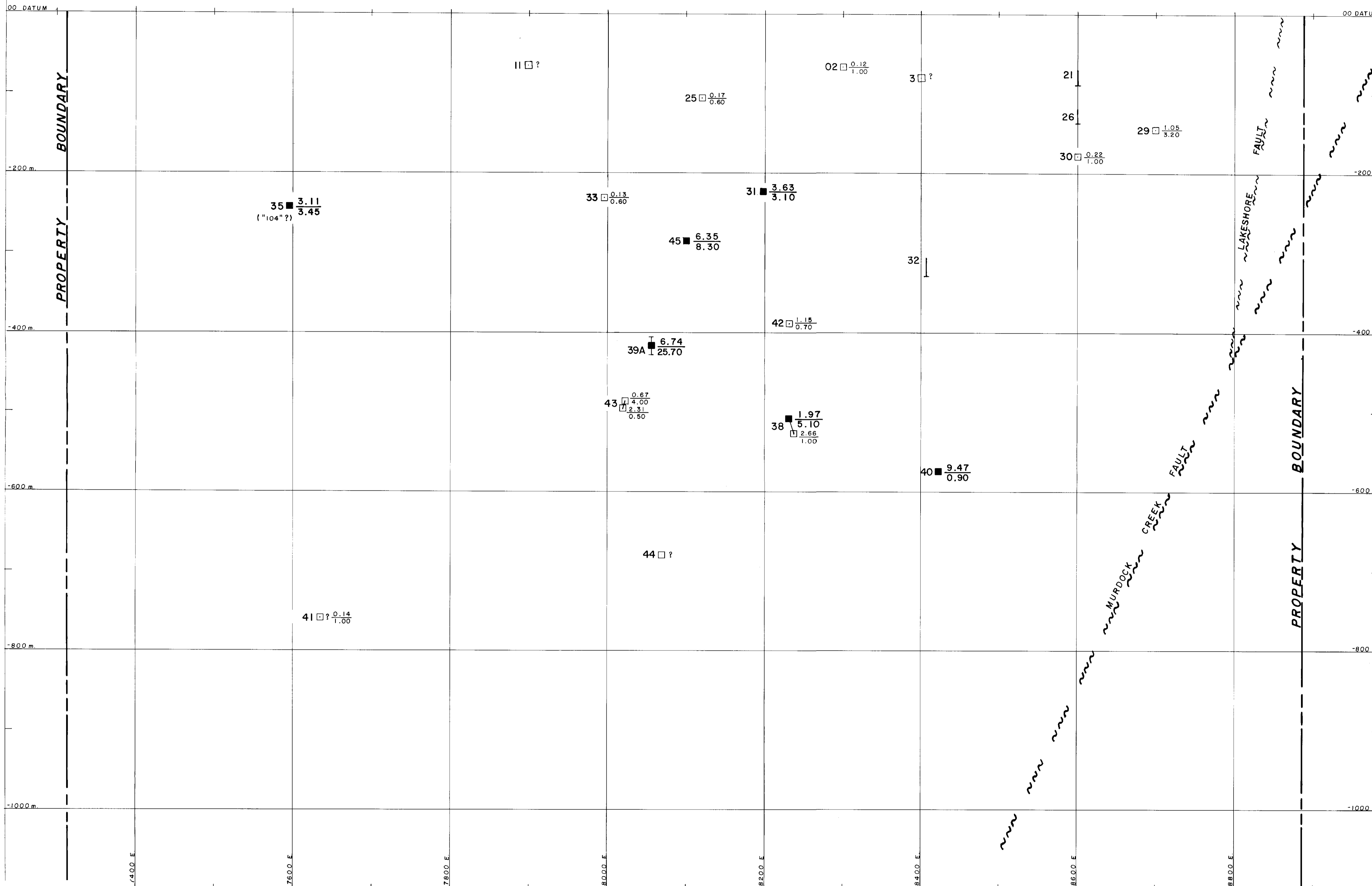
W.B.

251°

071°

LEGEND

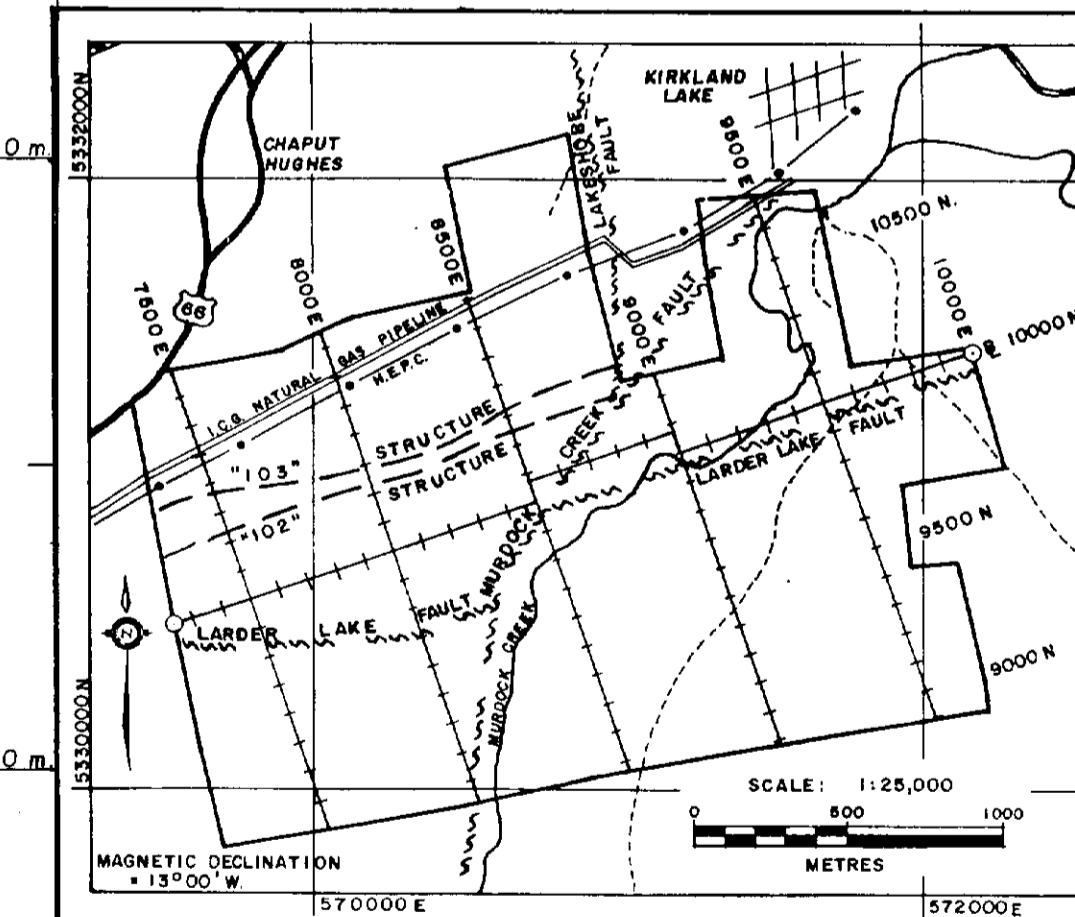
50 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	23 Siltstone
64 Silicic	24 Mudstone
65 Carbonatized	10 VOLCANICS
40 INTRUSIVES	18 Trachytes
41 Diabase	18a Ash Tuff
412 Lamprophyre	18b Lapilli Tuff
46 Syenite	18c Black Tuff
461 Augite Syenite	18d Lithic Tuff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



(Hole No.)
 31 ■ 3.63 (g/t Au)
 3.10 metres
 MIDPOINT OF INTERSECTION
 44 □ ? Interpreted location of zone uncertain.

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

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



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
 Queenston Mining Inc.
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY

"103" ZONE
 LONGITUDINAL SECTION

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

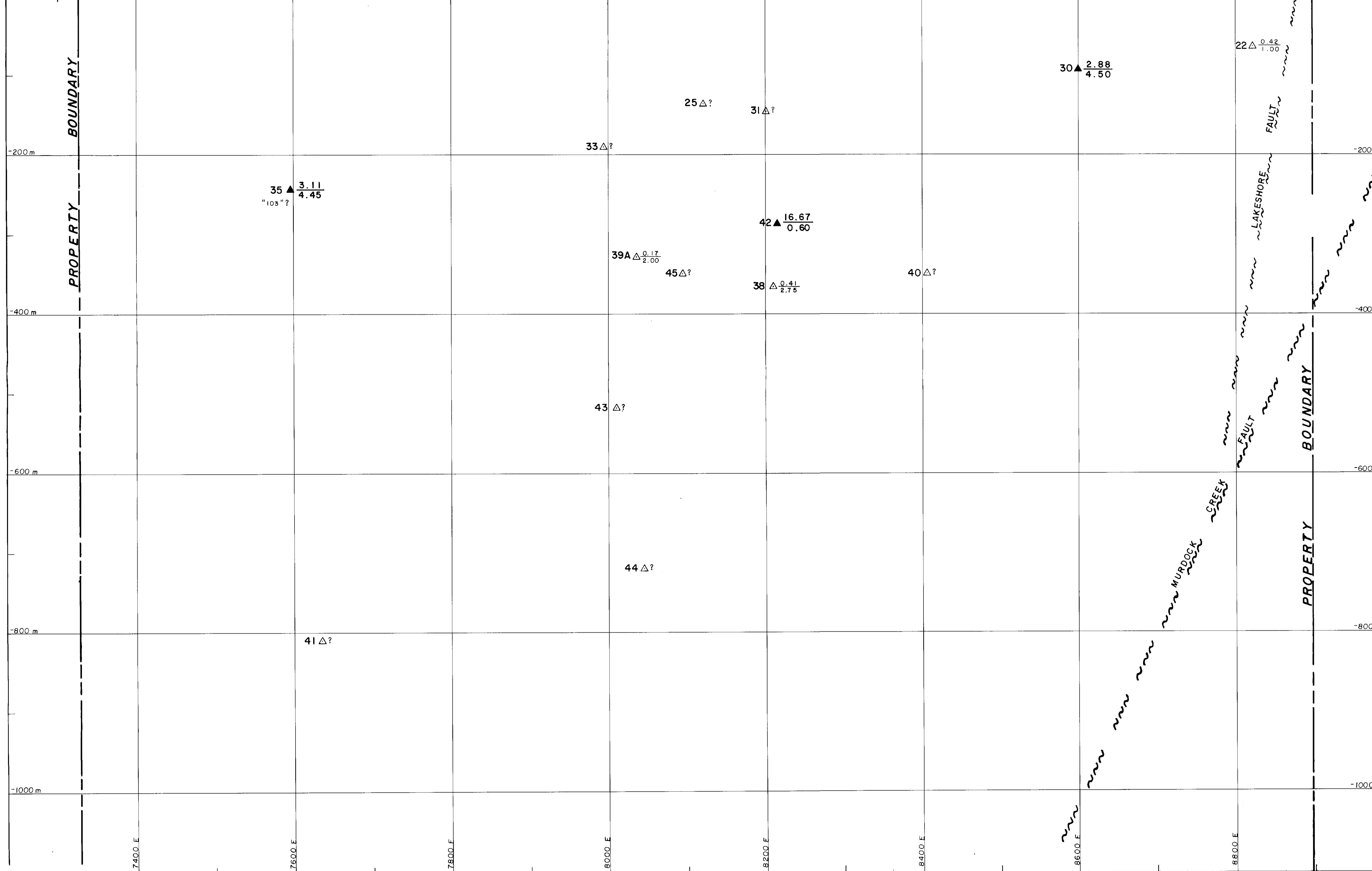
SCALE: 1:2500

251°

071°

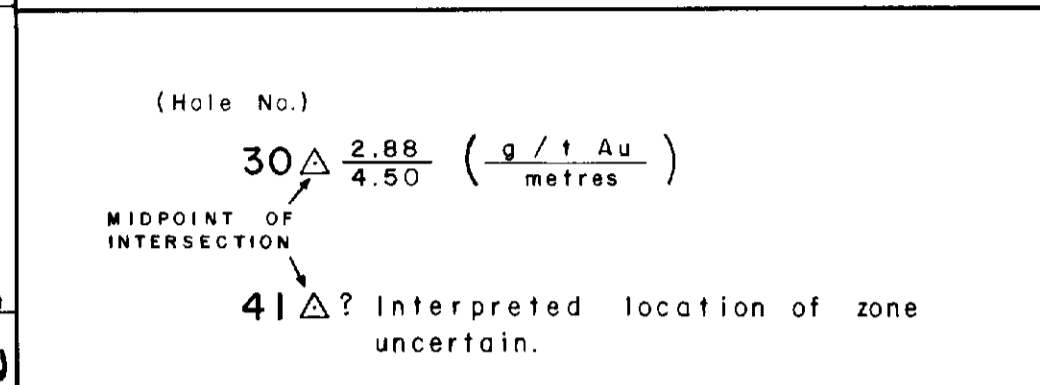
00 DATUM (330.0 metres Geodetic)

00 DATUM



LEGEND

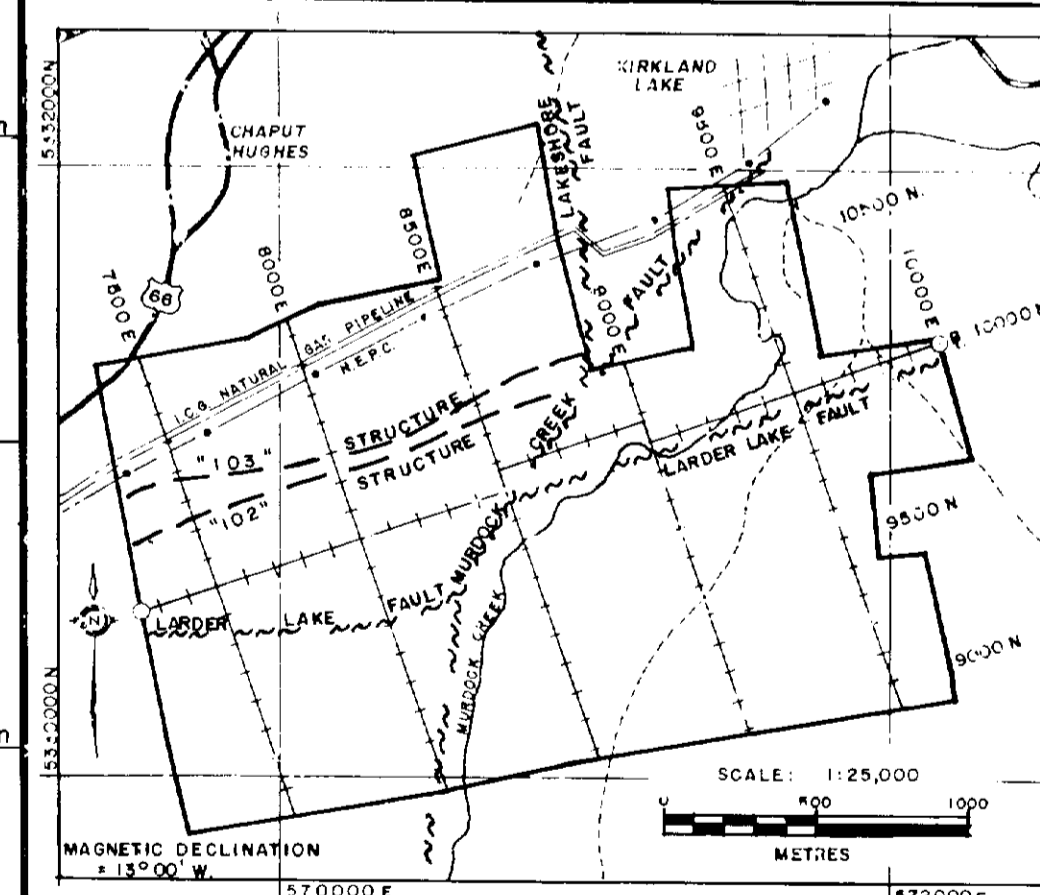
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	23 Siltstone
64 Siliceous	24 Mudstone
65 Carbonatized	10 VOLCANICS
40 INTRUSIVES	18 Trachytes
41 Diabase	18a Ash Tuff
412 Lamprophyre	18b Lapilli Tuff
46 Syenite	18c Block Tuff
461 Aegirine Syenite	18d Lithic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



"104" ZONE

\blacktriangle > 6.00 g/t Au x metres

Δ No Significant Intersection



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

"104" ZONE
LONGITUDINAL SECTION

PROJECT No.: 75-JV-28	DATA BY: W. Benham/M. Masson
NTS: 42A/1	DRAWN BY: B. H. Madill
DRAWING No.: DL-010	DATE: September 1992

SCALE: 1:2500

50 0 50 100 METRES

W. Benham

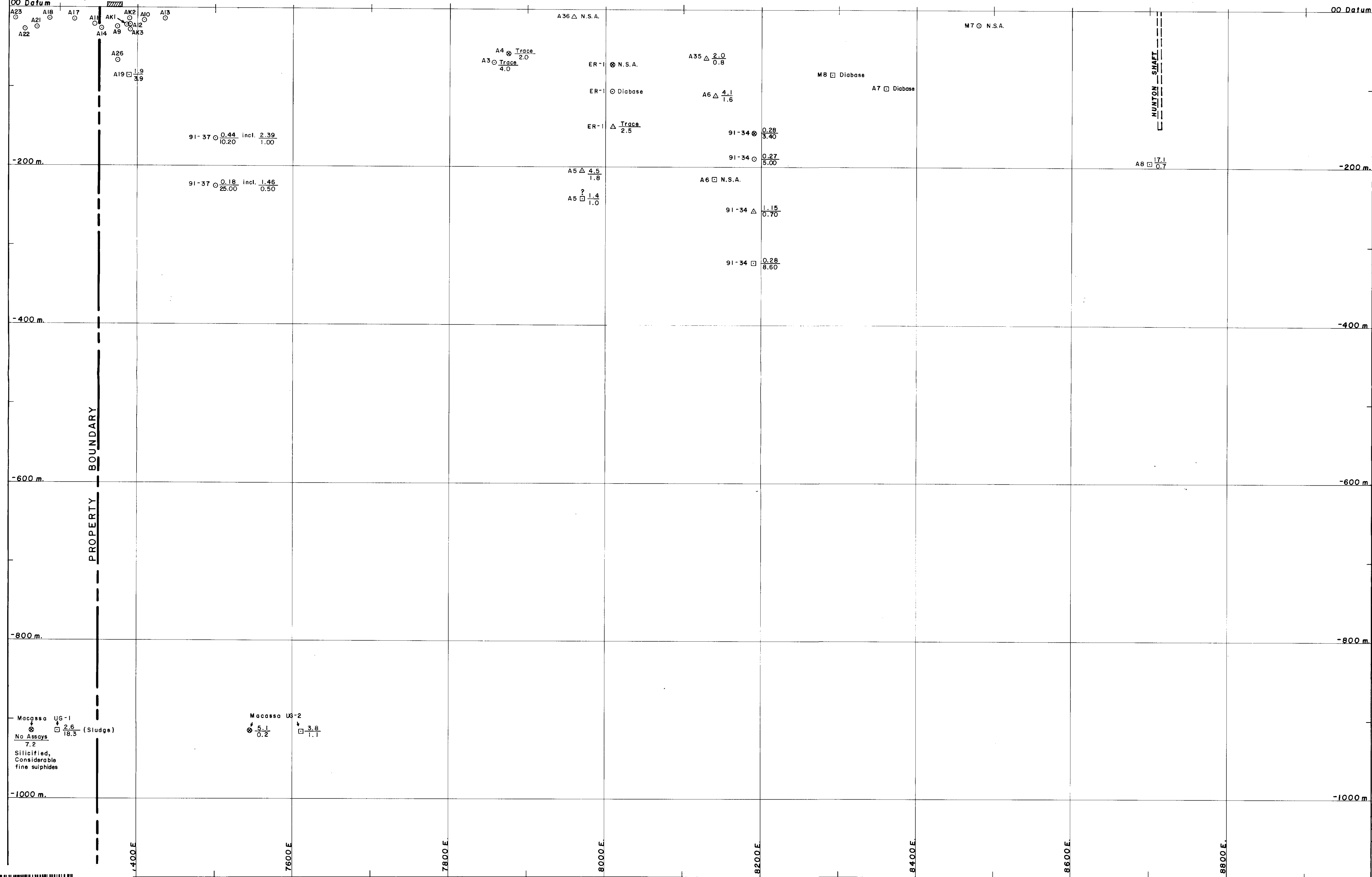
251°

071°

"AK/106" ZONE

HOLE No.	ASSAY (g/t Au/m)
A9	2.4 / 2.5
A10	1.3 / 2.9
A11	2.0 / 0.9
A12	10.6 / 3.6
A13	2.4 / 0.8
A14	N.S.A.
A17	N.S.A.
A18	7.2 / 4.8
A28	N.S.A.
AK1	5.7 / 3.0
AK2	15.7 / 0.4
AK3	4.5 / 0.2

"AK" SHOWING
8.2g/t Au / 0.8m / 12.2m



LEGEND

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

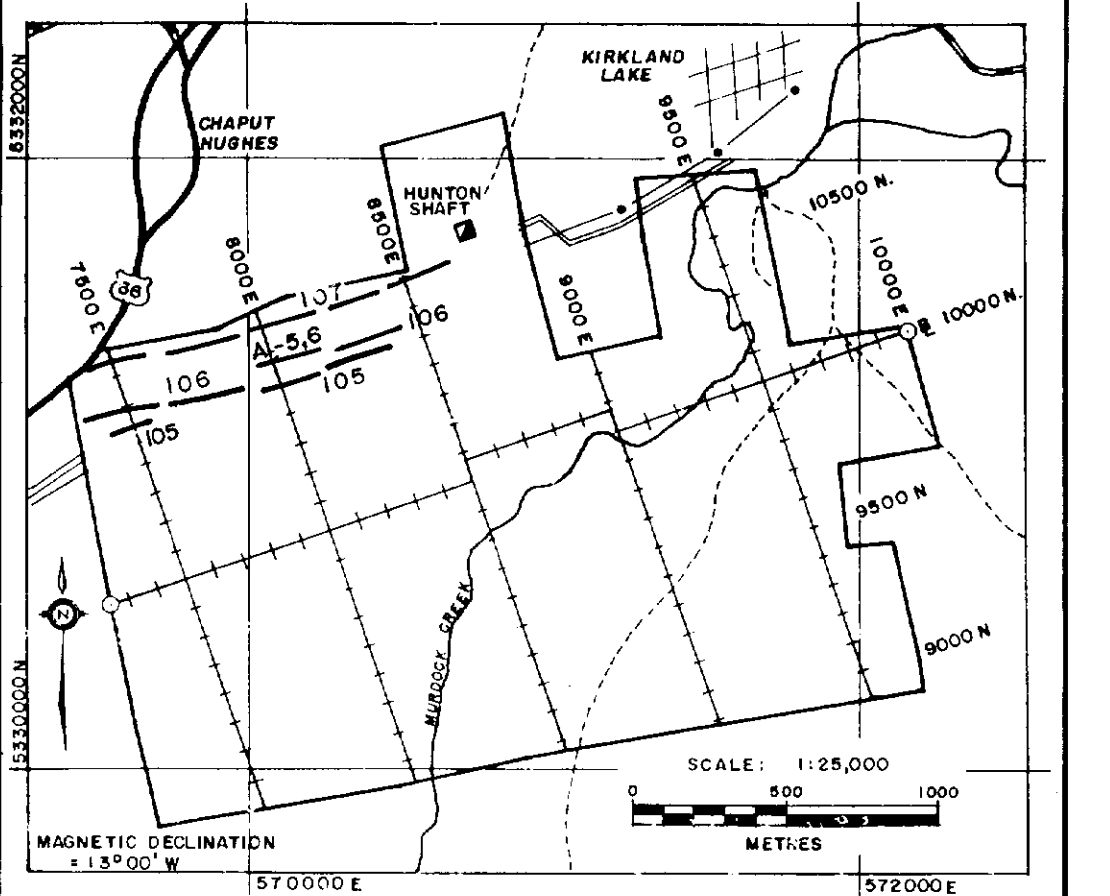
(Hole No.)
91-37 $\frac{0.44}{10.20}$ g / t Au
WIDPOINT of INTERSECTION metres

DRILL HOLES

A3 to A36	AMALGAMATED KIRKLAND MINES LTD., 1939, 40
UG-1, 2	MACASSA MINES LTD., 1940
M7, 8	MAYFIELD EXPLORATIONS LTD., 1972
AK 1	LAMPE RESOURCES LTD., 1981
AK2, 3	EDEN ROC MINERAL CORP., 1983
ER-1	EDEN ROC MINERAL CORP., 1983
91-34, 37	BATTLE MOUNTAIN(CANADA) INC., 1991

GOLD ZONES	g / t Au x metres
⊗ "105" ZONE	○ + 50
○ "106" ZONE	○ 40-50
△ "A-5,6" ZONE	○ 30-40
□ "107" ZONE	○ 20-30
	○ 10-20
	○ 3-10
	○ 0-3
	N.S.A. - No Significant Assays

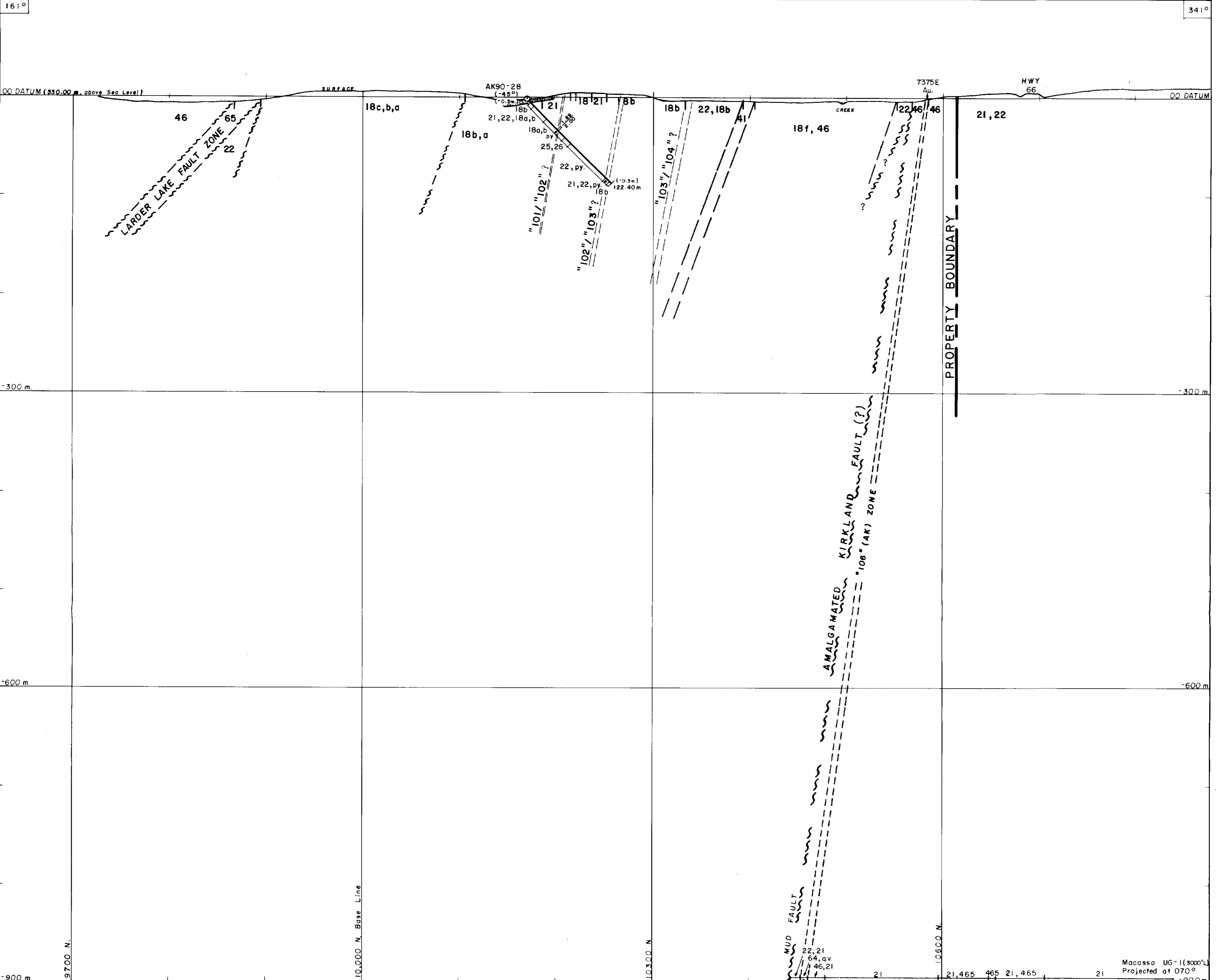
NOTE: Except for holes 91-34 and 91-37
Collar co-ordinates and elevations are not surveyed.



BATTLE MOUNTAIN (CANADA) INC.
A 56 107 106 105

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY
"105"; "106"; "A-5,6"; "107" STRUCTURES
LONGITUDINAL SECTION

PROJECT No.: 75-JV-28	DATA BY: W. Benham
NTS: 42A/1	DRAWN BY: B.H. Modill, Tech.
DRAWING No.: DL-009	DATE: April 1992
SCALE: 1:2500	



LEGEND

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

SYMBOLS

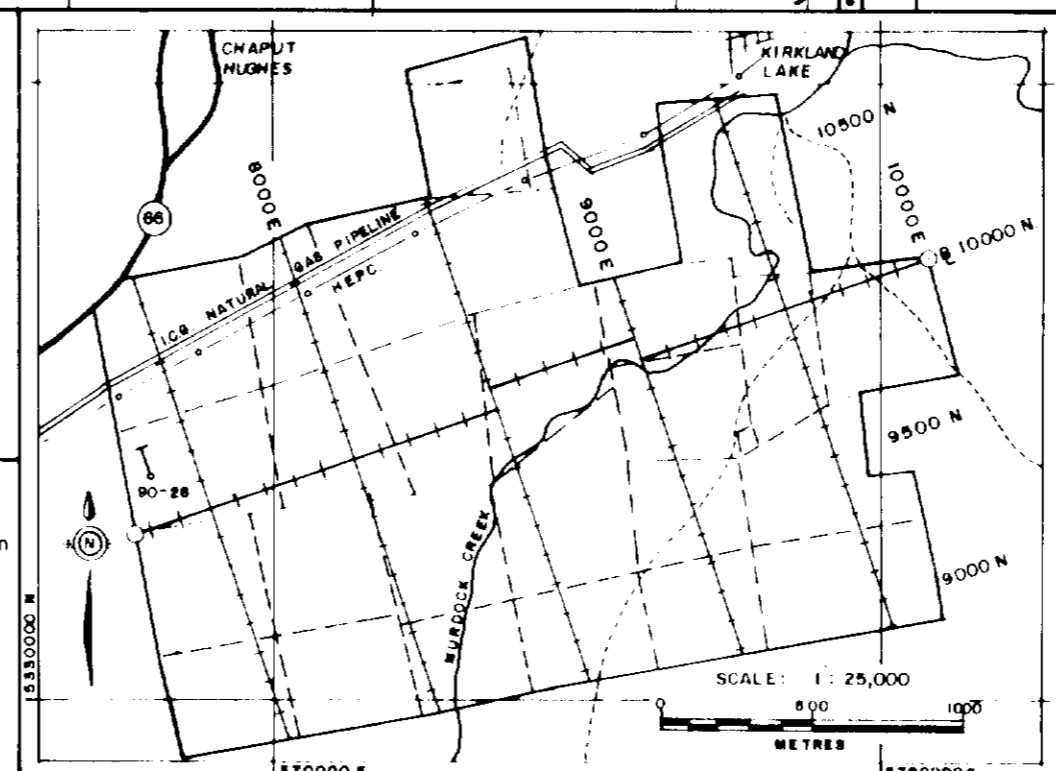
- Bedding, Contacts
- Braccio
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization

ABBREVIATIONS

- cp - Chalcopyrite
- mo - Molybdenite
- gf - Graphitic
- mag - Magnetite
- pb - Galena
- q.v. - Quartz Vein
- sh. - Sheared
- v.g. - Visible Gold

NOTES

1) Magnetic Declination = 13°00' West



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO

AMALGAMATED KIRKLAND PROPERTY

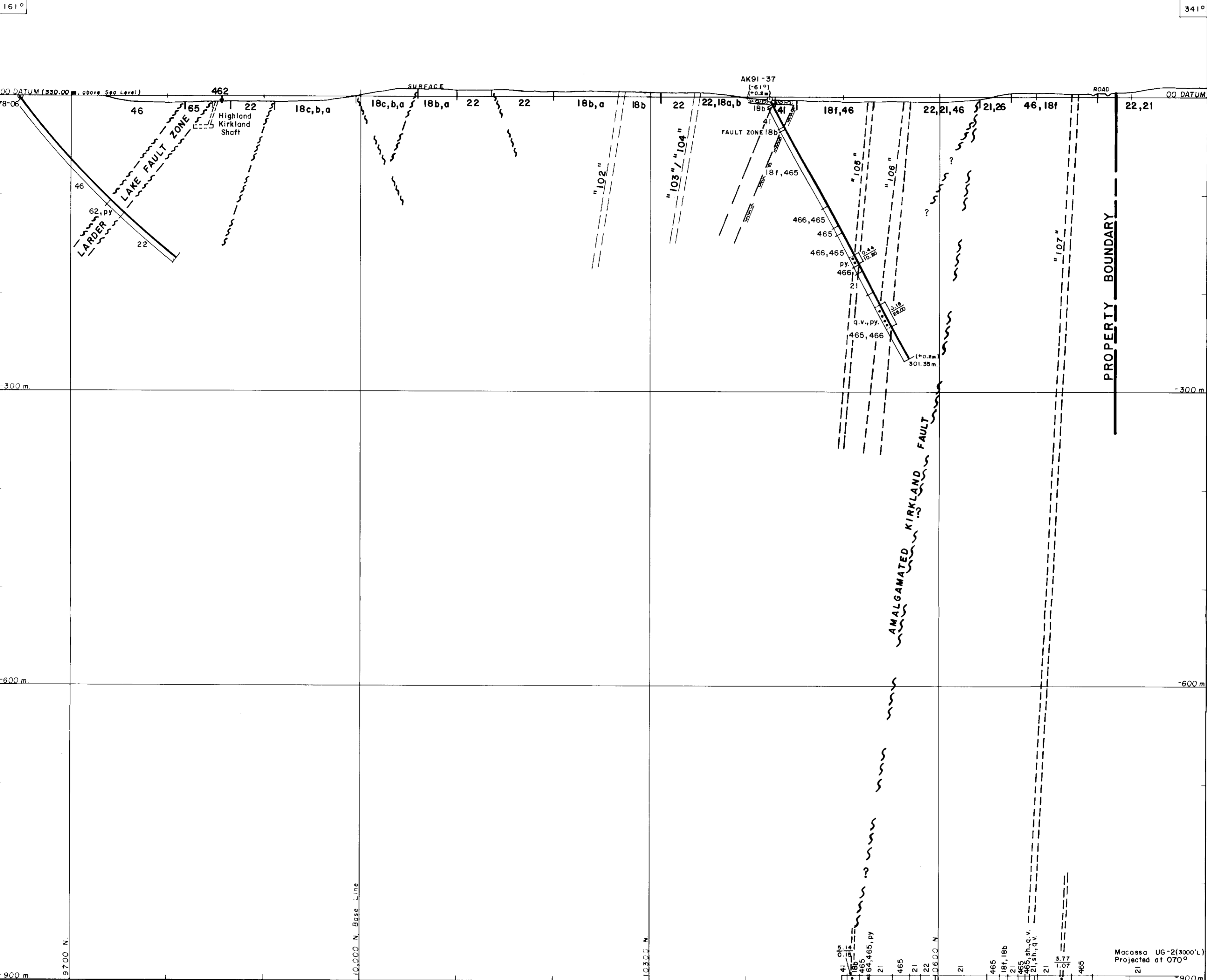
SECTION 7350E
HOLE AK90-28

PROJECT No: 75-JV-28	DATA BY: W. Benham / M. Masson
N.T.S. 42A / 1	DRAWN BY: B. H. Madill, Tech.
DRAWING No: DC-045	DATE: April, 1992

SCALE: 1:25000

50 0 50 100 METRES

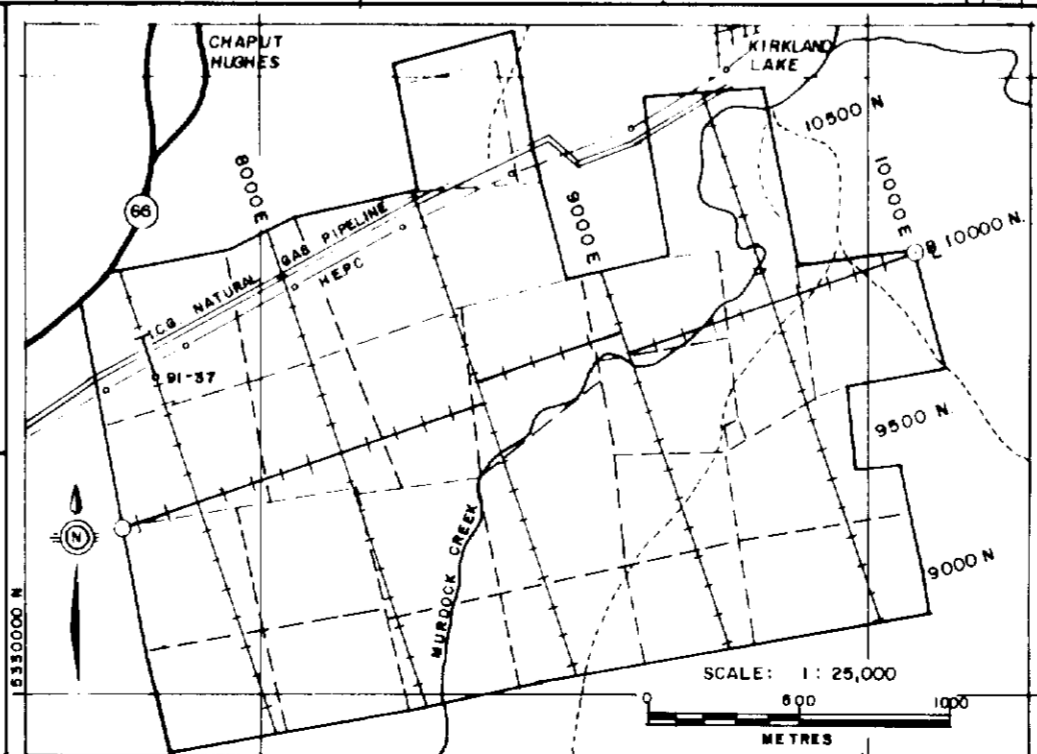




LEGEND	
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18a Ash Tuff
42 Lamprophyre	18b Lapilli Tuff
46 Syenite	18c Block Tuff
461 Augite Syenite	18d Lithic Tuff
462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

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

ABBREVIATIONS	
cp	Chalcopyrite
mo	Molybdenite
gf	Graphitic
mag.	Magnetite
pb.	Galena
q.v.	Quartz Vein
sh.	Sheared
vg.	Visible Gold



BATTLE MOUNTAIN (CANADA) INC.

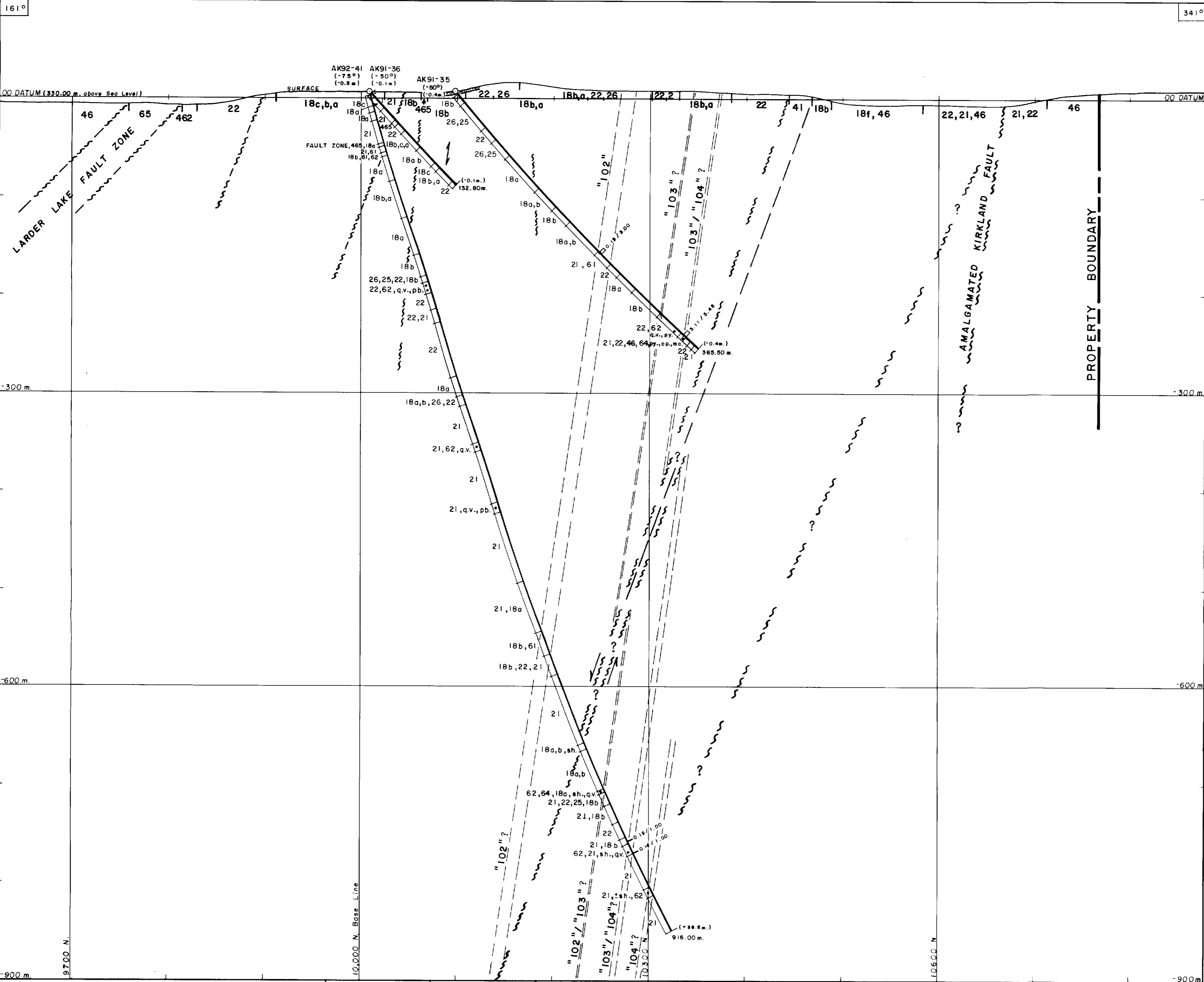
KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY
SECTION 7500E
HOLE AK91-37

PROJECT No.: 75-JV-28	DATA BY: W. Benham / M. Masson
N.T.S. 42A/1	DRAWN BY: B. H. Madill, Tech.
DRAWING No.: DC-046	DATE: April, 1992

SCALE: 1:2500

W. Benham

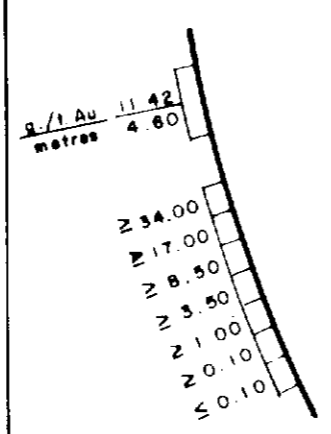




LEGEND	
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
412 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Block Tuff
462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

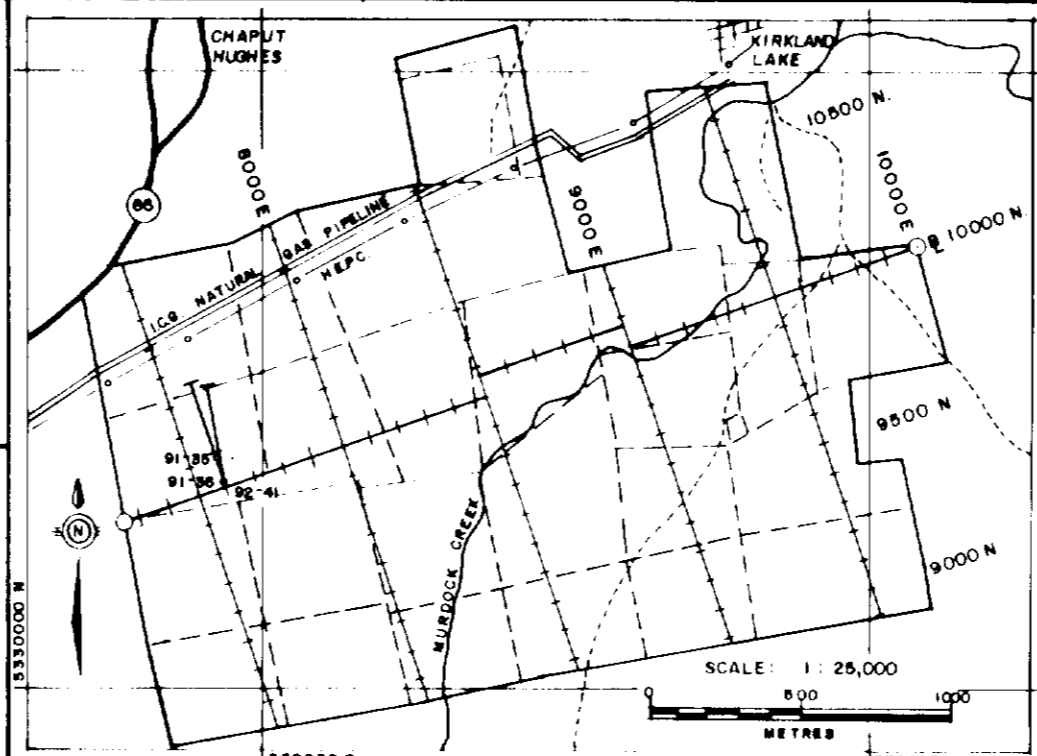
SYMBOLS	
	Bedding, Contacts
	Breccia
	Facing direction
	Foliation
	Fault, Fault Zone
	Drag folding
	Pyrite Mineralization

ABBREVIATIONS
cp - Chalcopyrite
mc - Molybdenite
gf - Graphitic
mag - Magnetite
pb - Galena
q.v. - Quartz Vein
sh - Sheared
vg - Visible gold



NOTES

1) Magnetic Declination = 15° 00' West



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

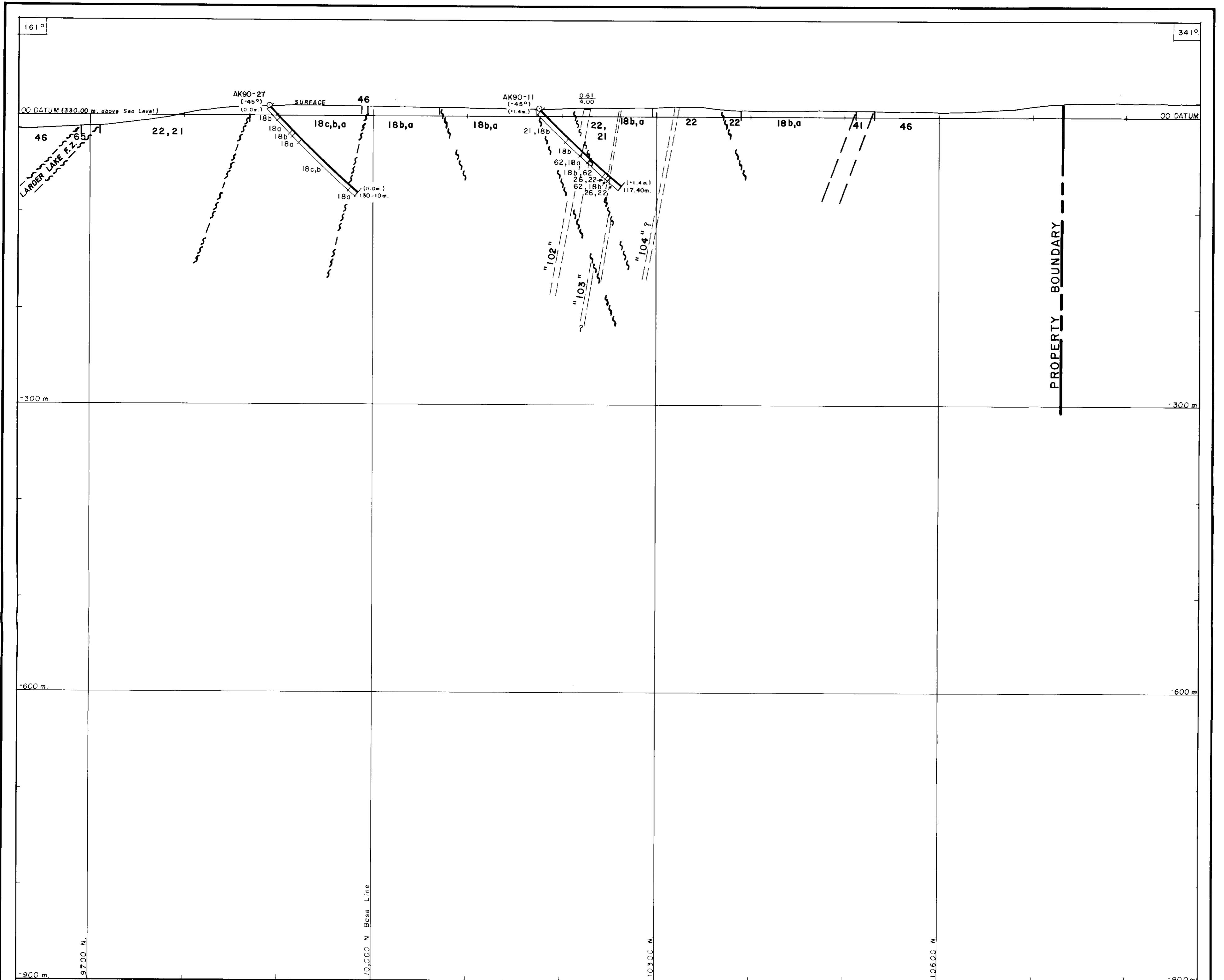
SECTION 7600E
HOLE AK91-35 & 36,
and AK92-41

PROJECT No: 76-JV-28	DATA BY: W. Benham / M. Masson
N.T.S. 42 A / 1	DRAWN BY: B.H. Madill, Tech.
DRAWING No: DC-047	DATE: April, 1992

SCALE: 1:2500

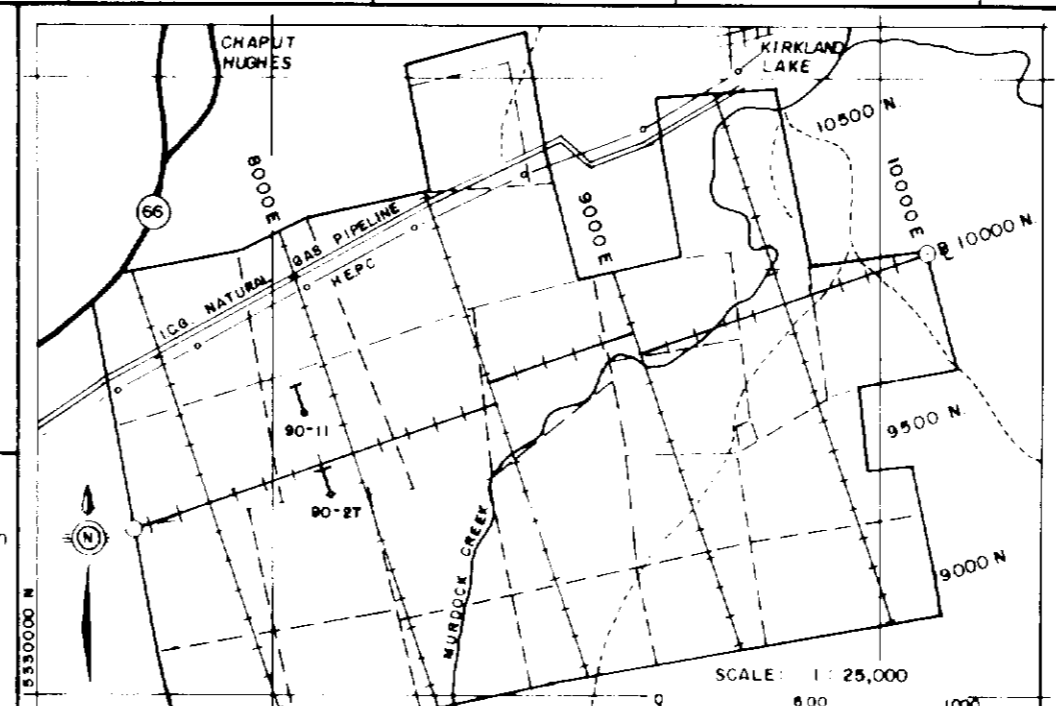
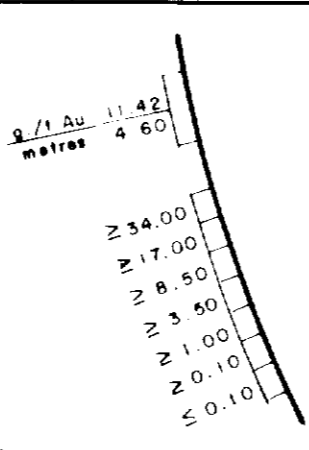
W.B.





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

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



ABBREVIATIONS

cp - Chalcopyrite
 mo - Molybdenite
 gf - Graphitic
 mag - Magnetite
 pb - Galena
 q.v. - Quartz Vein
 sh - Sheared
 v.g. - Visible Gold

NOTES

1) Magnetic Declination = 13° 00' West

BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
 Queenston Mining Inc.
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY

SECTION 7900E
 HOLE AK90-11 & 27

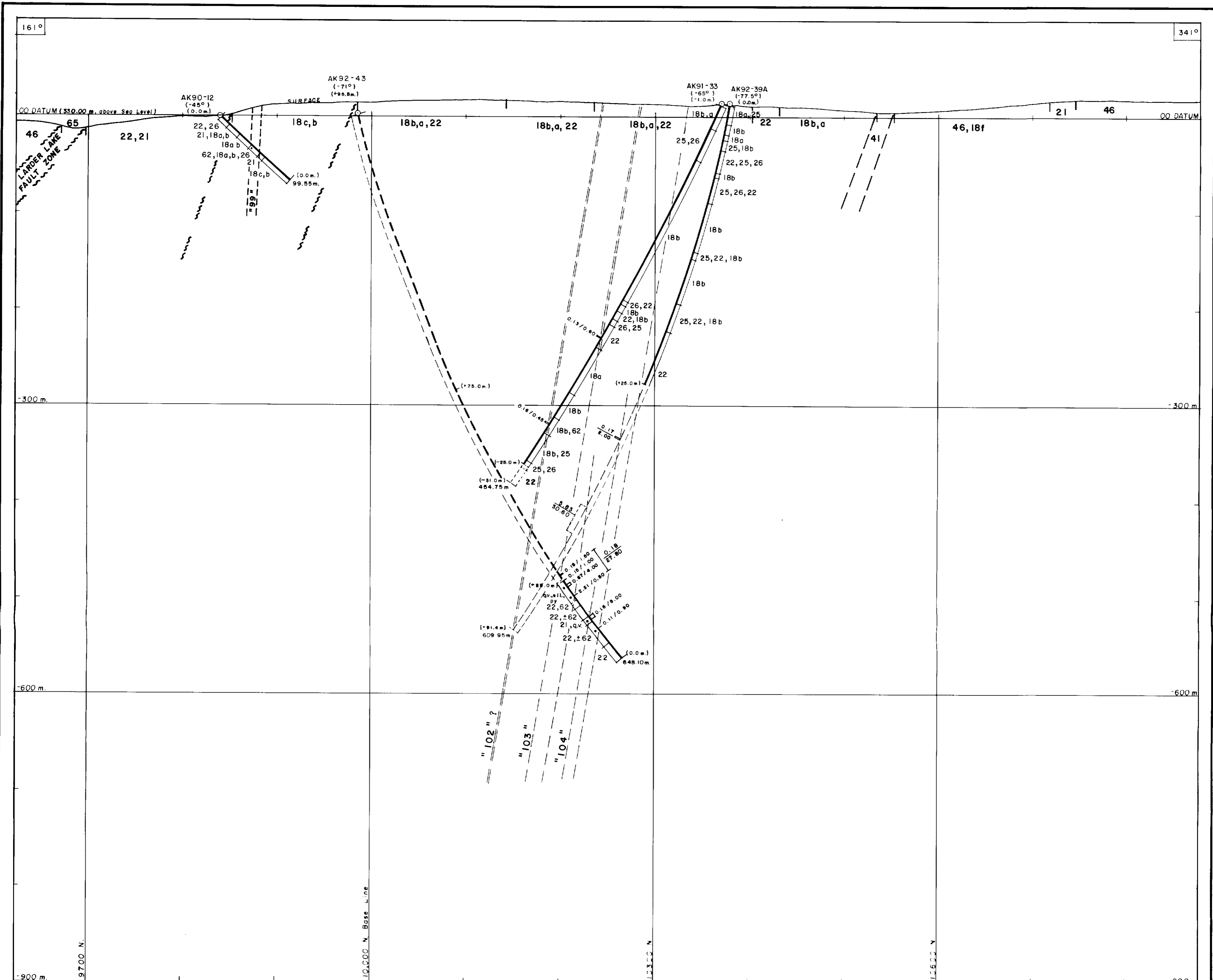
PROJECT No: 78-JV-28	DATA BY: W. Benham / M. Masson
N.T.S. 42 A / 1	DRAWN BY: B. H. Madill, Tech.
DRAWING No: DC-048	DATE: April, 1992

SCALE: 1:2500

50 0 50 100 METRES

42A81NE936 83 TECK

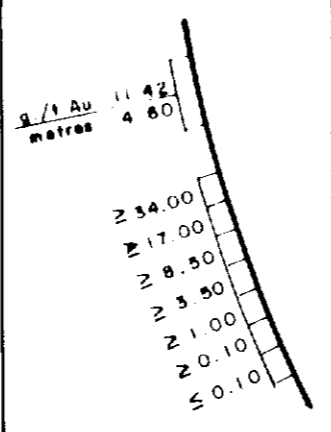




LEGEND	
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Sillicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
42 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Block Tuff
462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

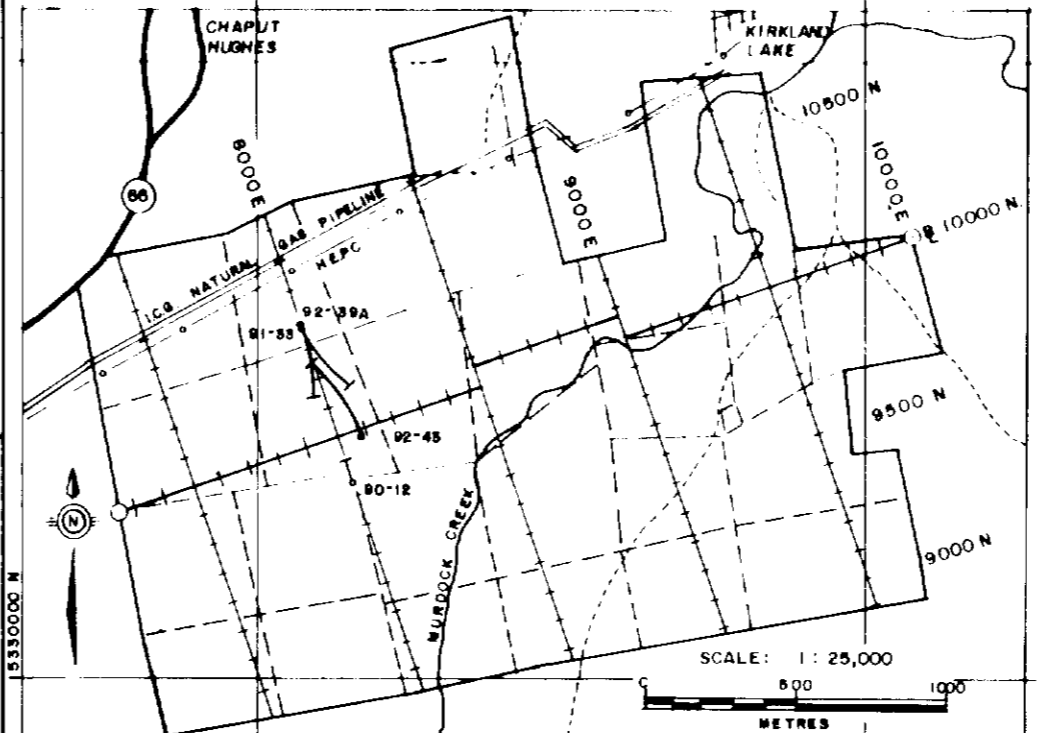
SYMBOLS	
	Redding, Contacts
	Breccia
	Facing direction
	Foliation
	Fault, Fault Zone
	Drag folding
	Pyrite Mineralization

ABBREVIATIONS	
cp	- Chalcopyrite
mo	- Molybdenite
gf	- Graphitic
mag.	- Magnetite
pb.	- Galena
q.v.	- Quartz Vein
sh.	- Sheared
v.g.	- Visible Gold



NOTES

1) Magnetic Declination = 13° 00' West



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8000E
HOLE AK90-12 & AK91-33
& AK92-39A & 43

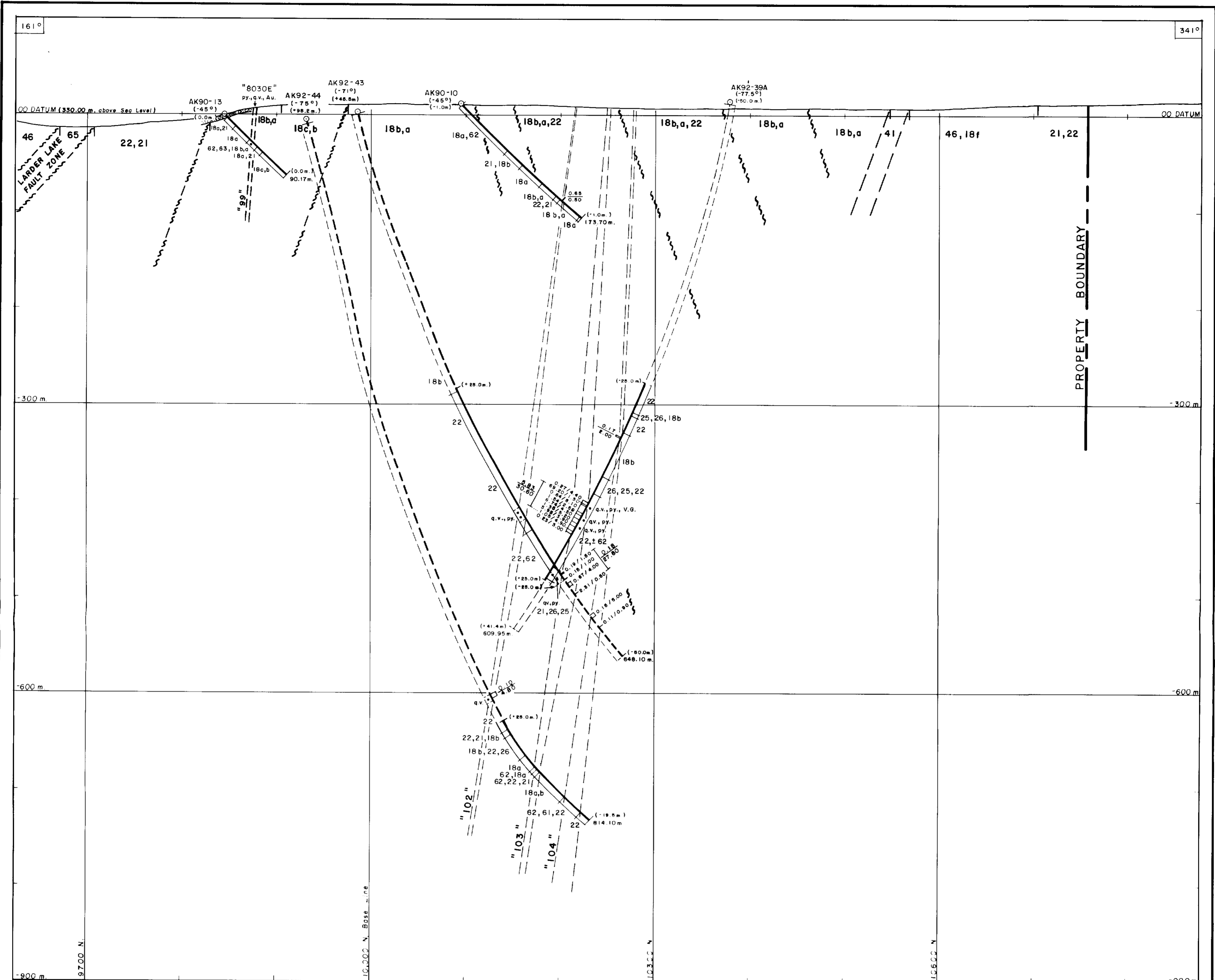
PROJECT No: 75-JV-28	DATA BY: W. Benham / M. Masson
N.T.S. 424 / 1	DRAWN BY: B. H. Madill, Tech.
DRAWING No: DC-049	DATE: Revised July, 1992

SCALE: 1:25000

50 0 50 100 METRES

W. Benham

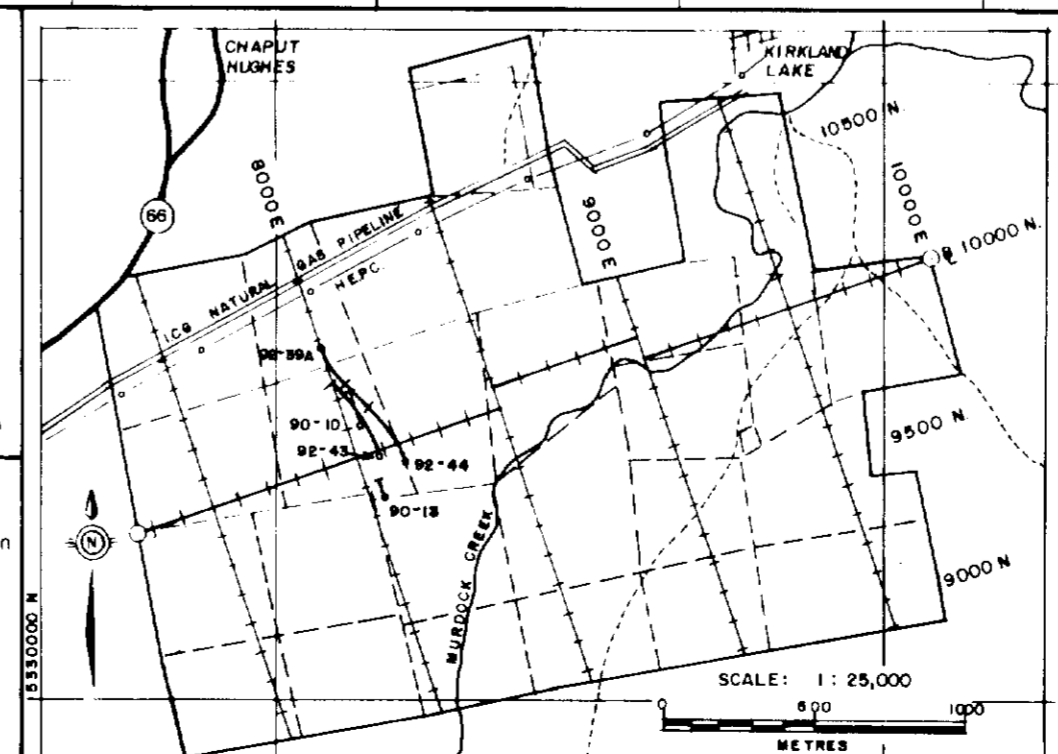




LEGEND	
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	23 Siltstone
64 Sillicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
42 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Block Tuff
462 Mafic Syenite	18d Lithic Tuff
465 Feldspar Porphyry	18e Monolithic Tuff
466 Hornblende - Feldspar Porphyry	18f Flow

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

ABBREVIATIONS	
cp	- Chalcopyrite
mo	- Molybdenite
gf	- Graphitic
mag.	- Magnetite
pb.	- Galena
q.v.	- Quartz Vein
sh.	- Sheared
v.g.	- Visible Gold



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

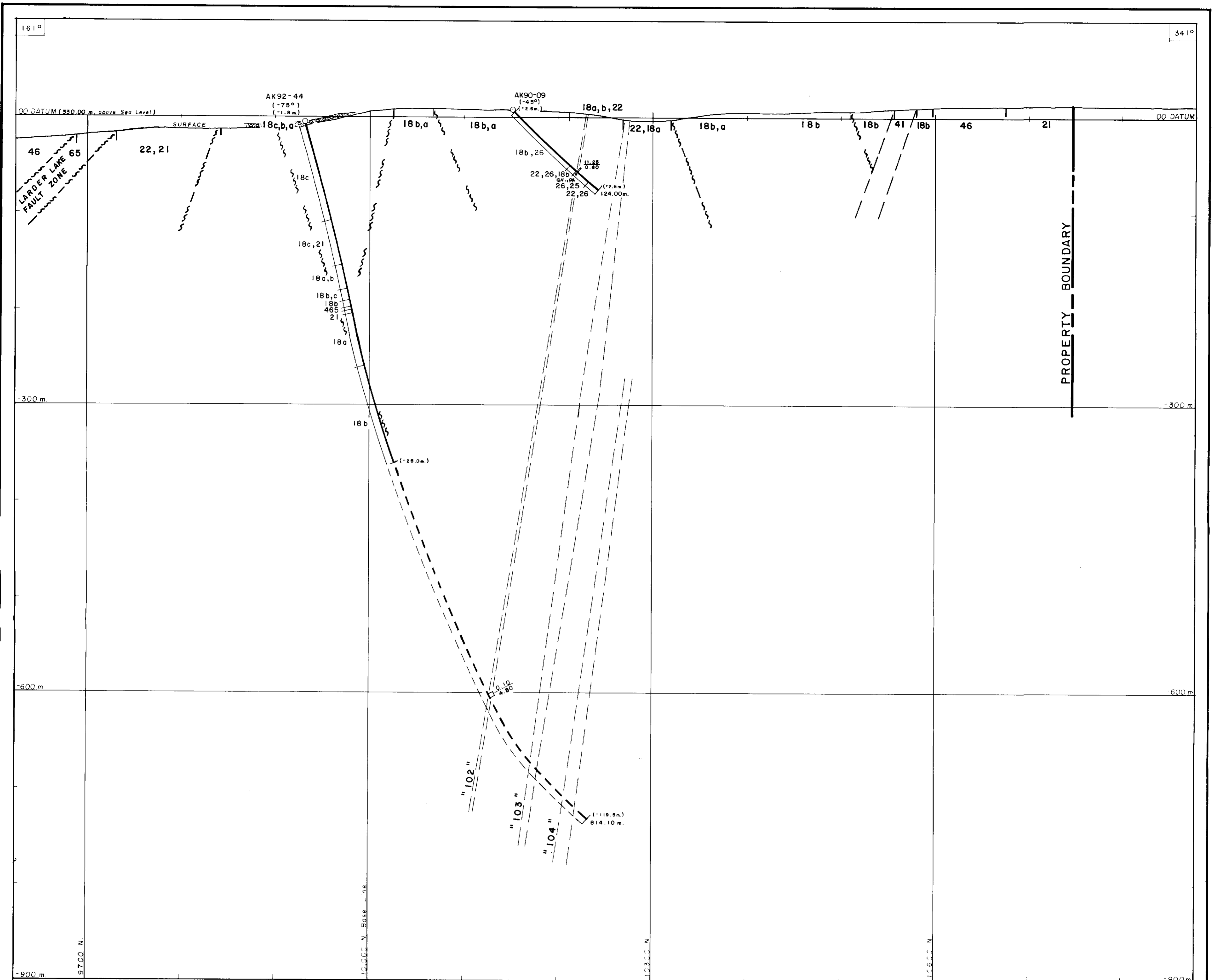
SECTION 8050E
HOLE AK90-10 a 13
a AK92-39A, 43 a 44

PROJECT No.: 75-JV-28	DATA BY: W. Benham / M. Masson
N.T.S. 42 A / 1	DRAWN BY: B.H. Madill, Tech.
DRAWING No.: DC-050	DATE: Revised Sept., 1992

SCALE: 1:25000

W.B.M.





LEGEND

60 ALTERATION

- 61 Chloritic
- 62 Sericitic
- 63 Hematitic
- 64 Silicic
- 65 Carbonatized

40 INTRUSIVES

- 41 Diabase
- 42 Lamprophyre
- 46 Syenite
- 461 Augite Syenite
- 462 Mafic Syenite
- 465 Feldspar Porphyry
- 466 Hornblende - Feldspar Porphyry

20 SEDIMENTS

- 21 Conglomerate
- 22 Graywacke
- 25 Siltstone
- 26 Mudstone

10 VOLCANICS

- 18 Trachytes
- 18a Ash Tuff
- 18b Lapilli Tuff
- 18c Block Tuff
- 18d Lithic Tuff
- 18e Monolithic Tuff
- 18f Flow

SYMBOLS

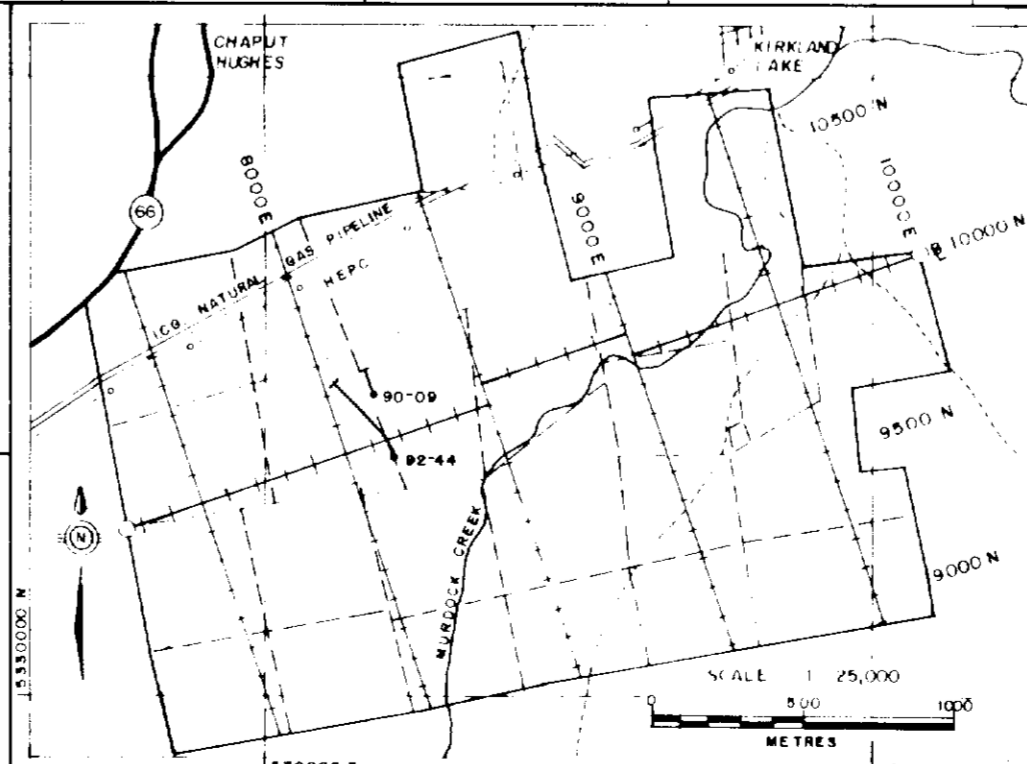
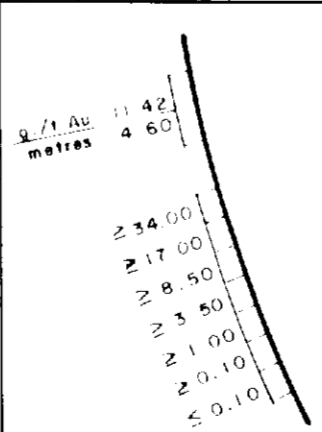
- Redding/Contacts
- Breccia
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization

ABBREVIATIONS

- cp - Chalcopyrite
- mo - Molybdenite
- gf - Graphitic
- mag - Magnetite
- pb - Galena
- qv - Quartz Vein
- sh - Sheared
- vq - Visible Gold

NOTES

- 1) Magnetic Declination - 15° 00' West



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

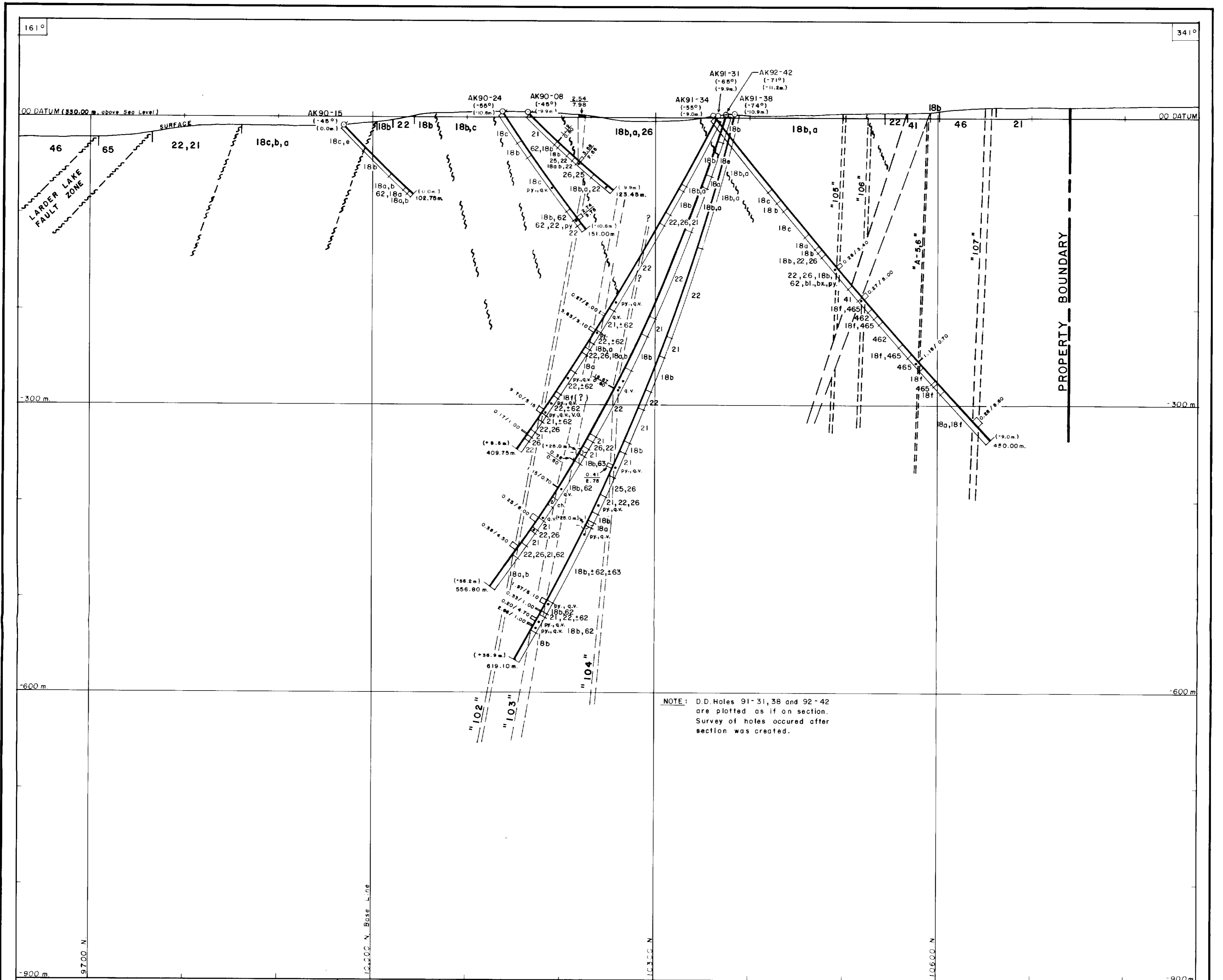
SECTION 8150E

HOLE AK90-09
AK92-44

PROJECT No.: 75-JV-28	DATA BY: W. Benham / M. Masson
NTS: 42A/1	DRAWN BY: B. H. Madill, Tech.
DRAWING No.: DC-052	DATE: Revised Sept., 1992

SCALE: 1:2500





NOTE: D.D. Holes 91-31, 38 and 92-42 are plotted as if on section. Survey of holes occurred after section was created.

LEGEND

- | | |
|------------------------------------|---------------------|
| 60 ALTERATION | 20 SEDIMENTS |
| 61 Chloritic | 21 Conglomerate |
| 62 Sericitic | 22 Graywacke |
| 63 Hematitic | 25 Siltstone |
| 64 Silicic | 26 Mudstone |
| 65 Carbonatized | |
| 40 INTRUSIVES | 10 VOLCANICS |
| 41 Diabase | 18 Trachytes |
| 412 Lamprophyre | 18a Ash Tuff |
| 46 Syenite | 18b Lapilli Tuff |
| 461 Augite Syenite | 18c Block Tuff |
| 462 Mafic Syenite | 18d Lithic Tuff |
| 465 Feldspar Porphyry | 18e Monolithic Tuff |
| 466 Hornblende - Feldspar Porphyry | 18f Flow |

SYMBOLS

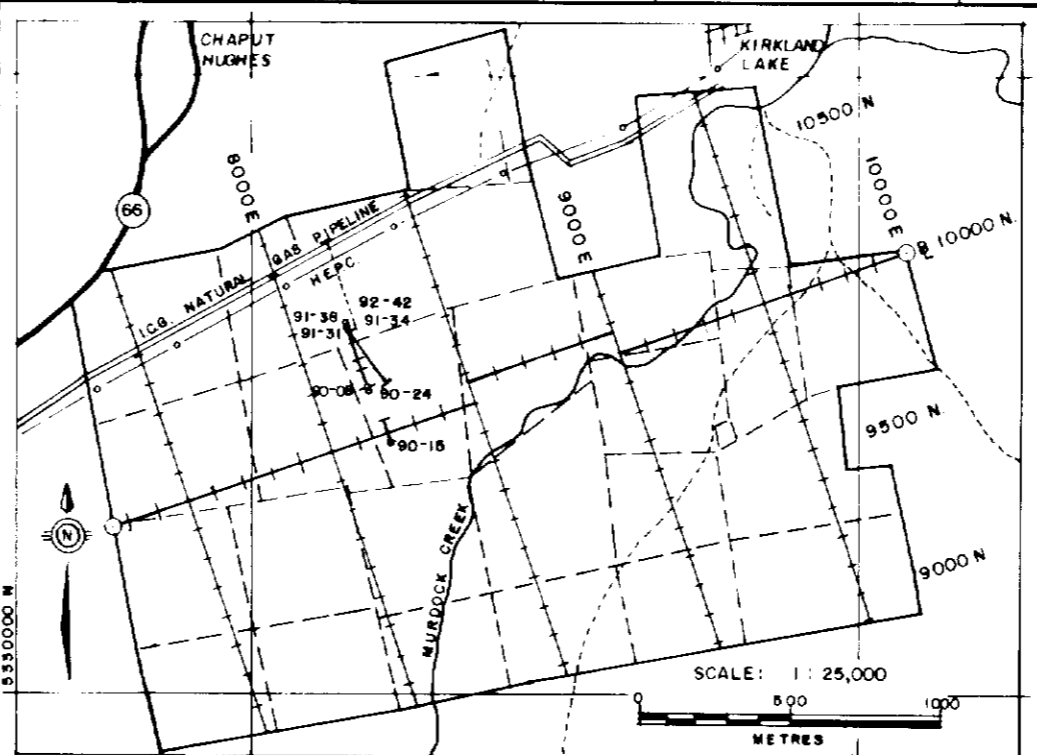
- Bedding, Contacts
- Breccia
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization

ABBREVIATIONS

- cp - Chalcopyrite
- mo - Molybdenite
- gf - Graphitic
- mag - Magnetite
- pb - Galena
- qv - Quartz Vein
- sh - Shear
- vg - Visible Gold
- ch - Chloritic

NOTES

1) Magnetic Declination = 13° 00' West



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8200E
HOLES AK90-08, 15, 24,
and AK91-31, 34, 38 and AK92-42

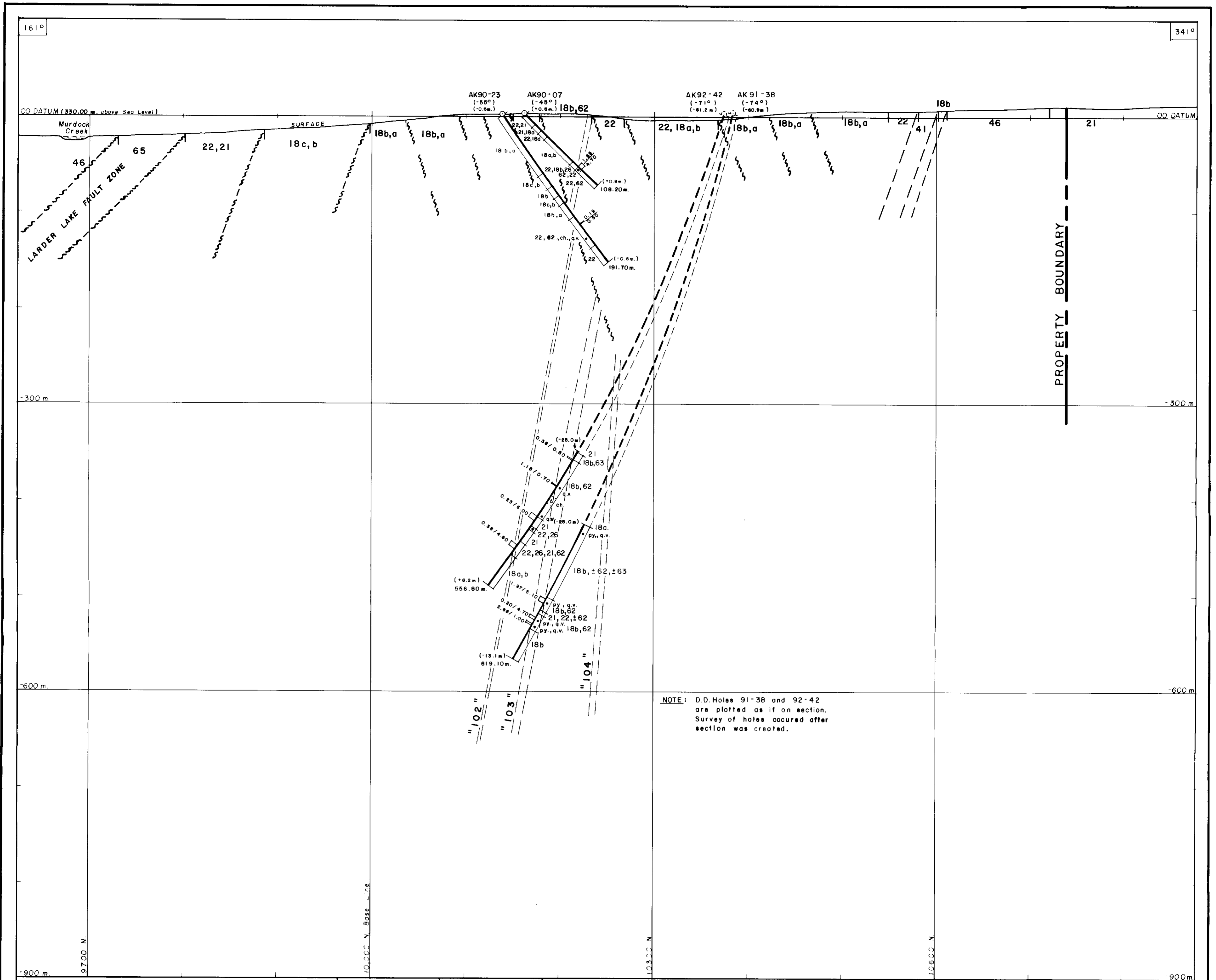
PROJECT No.: 75-JV-28	DATA BY: W. Benham / M. Masson
N.T.S. 42 A / 1	DRAWN BY: B. H. Madill, Tech.
DRAWING No.: DC-053	DATE: Revised Sept., 1992

SCALE: 1:2500



W. Benham





NOTE: D.D. Holes 91-38 and 92-42 are plotted as if on section. Survey of holes occurred after section was created.

LEGEND

- | | |
|------------------------------------|---------------------|
| 60 ALTERATION | 20 SEDIMENTS |
| 61 Chloritic | 21 Conglomerate |
| 62 Sericitic | 22 Graywacke |
| 63 Hematitic | 25 Siltstone |
| 64 Silicic | 26 Mudstone |
| 65 Carbonatized | |
| 40 INTRUSIVES | 10 VOLCANICS |
| 41 Diabase | 18 Trachytes |
| 42 Lamprophyre | 18a Ash Tuff |
| 46 Syenite | 18b Lapilli Tuff |
| 461 Augite Syenite | 18c Block Tuff |
| 462 Mafic Syenite | 18d Lithic Tuff |
| 465 Feldspar Porphyry | 18e Monolithic Tuff |
| 466 Hornblende - Feldspar Porphyry | 18f Flow |

SYMBOLS

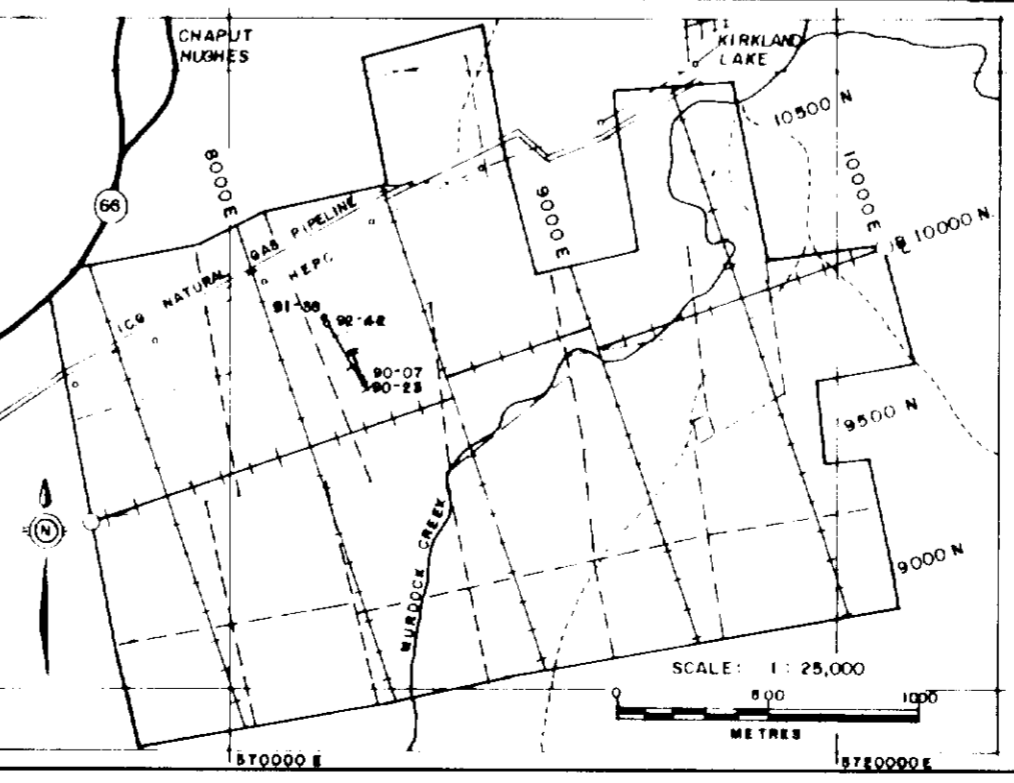
- Bedding, Contacts
- Ravine
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization

ABBREVIATIONS

- cp - Chalcopyrite
- mo - Molybdenite
- gf - Graphitic
- mag - Magnetite
- pb - Galena
- qv - Quartz Vein
- sh - Sheared
- vg - Visible Gold

NOTES

1) Magnetic Declination = 13° 00' West



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8250E
HOLES AK90-07 & 23,
AK91-38 and AK92-42

PROJECT No: 78-JV-78	DATA BY: W. Benham / M. Masson
N.T.S. 42 A / 1	DRAWN BY: B.H. Madill, Tech.
DRAWING No: DC-054	DATE: Revised Sept., 1992

SCALE: 1:25000

50 0 50 100 METRES

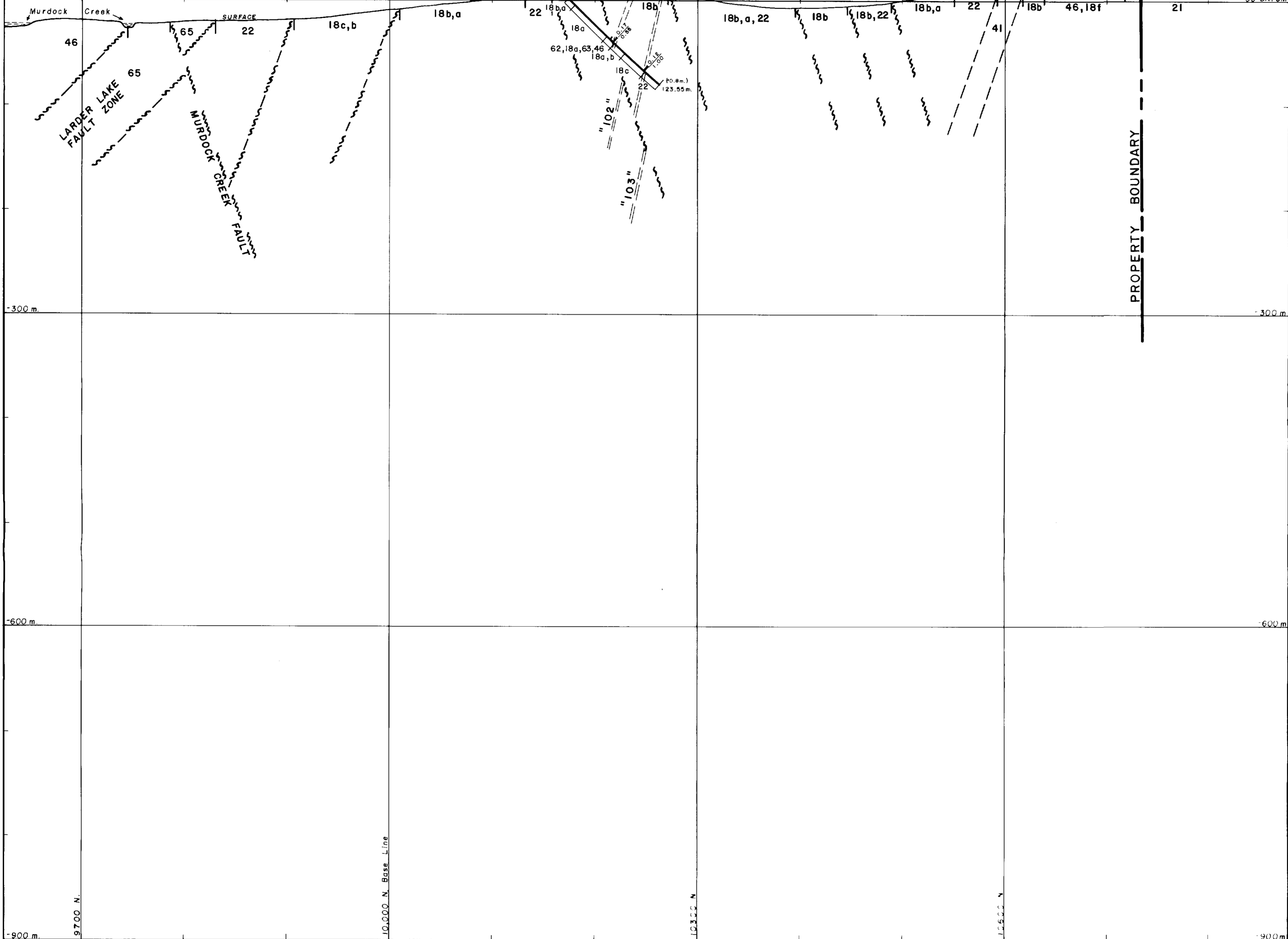


161°

341°

OO DATUM (330.00 m. above Sea Level)

OO DATUM



LEGEND

60 ALTERATION

- 61 Chloritic
62 Sericitic
63 Hematitic
64 Sillicic
65 Carbonatized

40 INTRUSIVES

- 41 Diabase
412 Lamprophyre
46 Syenite
461 Augite Syenite
462 Mafic Syenite
465 Feldspar Porphyry
466 Hornblende - Feldspar Porphyry

20 SEDIMENTS

- 21 Conglomerate
22 Graywacke
23 Siltstone
26 Mudstone

10 VOLCANICS

- 18 Trachytes
18a Ash Tuff
18b Lapilli Tuff
18c Block Tuff
18d Lithic Tuff
18e Monolithic Tuff
18f Flow

SYMBOLS

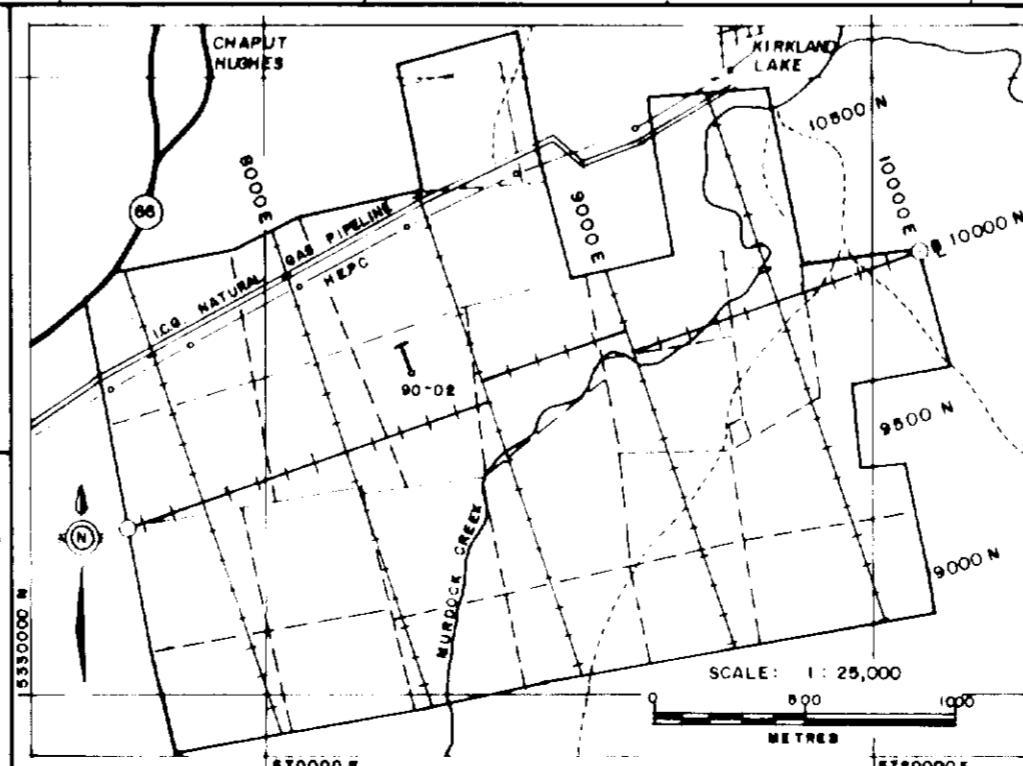
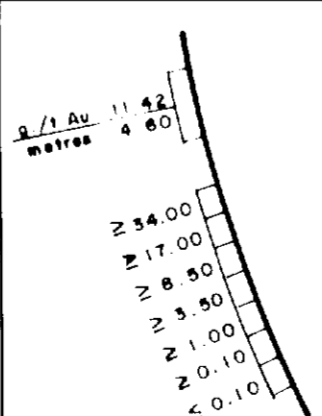
- Bedding, Contacts
Breccia
Foliation direction
Foliation
Fault, Fault Zone
Drag folding
Pyrite Mineralization

ABBREVIATIONS

- cp - Chalcopyrite
mo - Molybdenite
gf - Graphitic
mag. - Magnetite
pb. - Galena
q.v. - Quartz Vein
sh. - Sheared
v.g. - Visible Gold

NOTES

- 1) Magnetic Declination
= 15° 00' West



BATTLE MOUNTAIN (CANADA) INC.



KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY
SECTION 8300 E
HOLE AK90-02

PROJECT No: 76-JV-26

DATA BY: W. Benham / M. Masson

N.T.S. 4EA / 1

DRAWN BY: B. H. Madill, Tech.

DRAWING No: DC-055

DATE: April, 1992

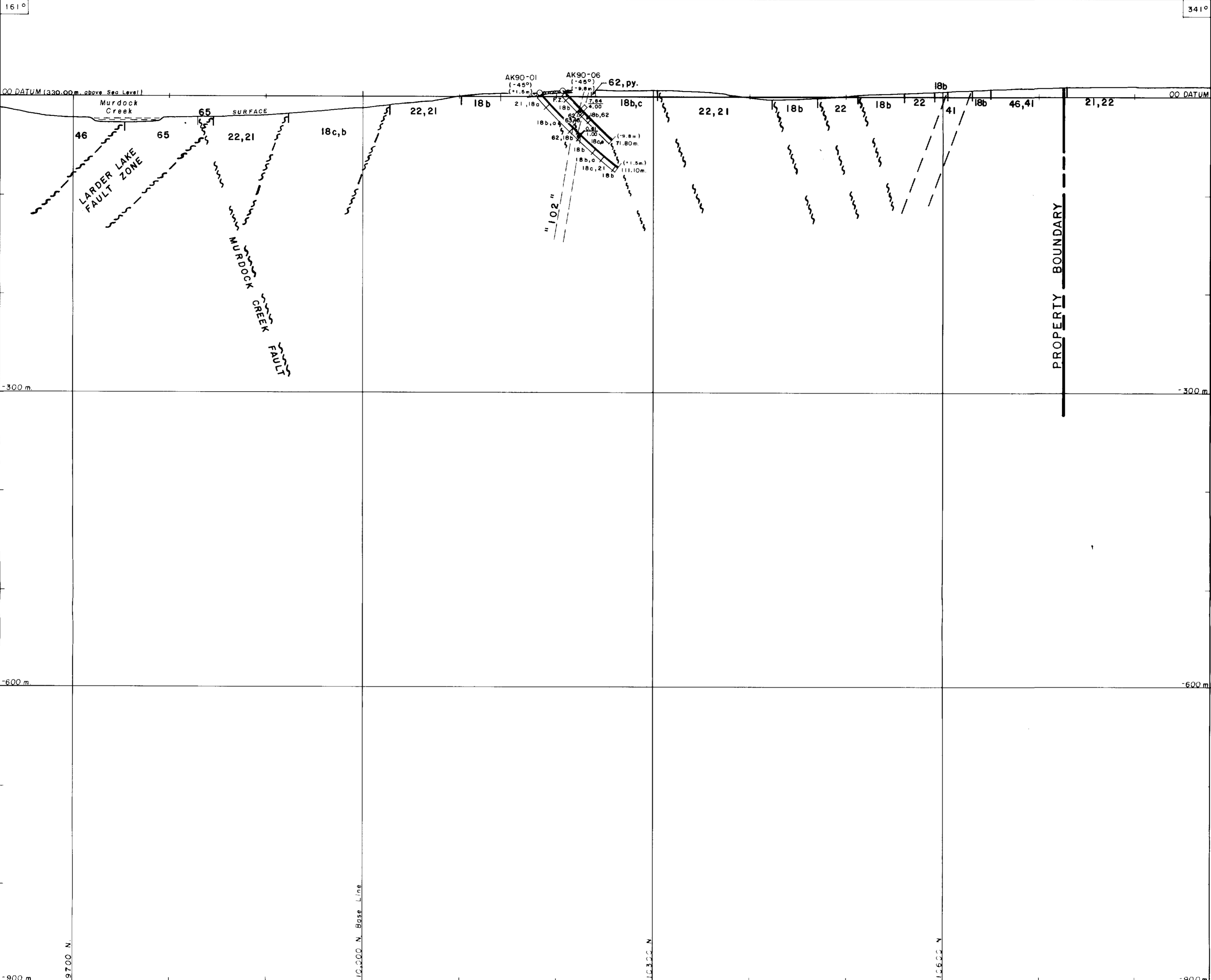
SCALE: 1:2500



W. Benham



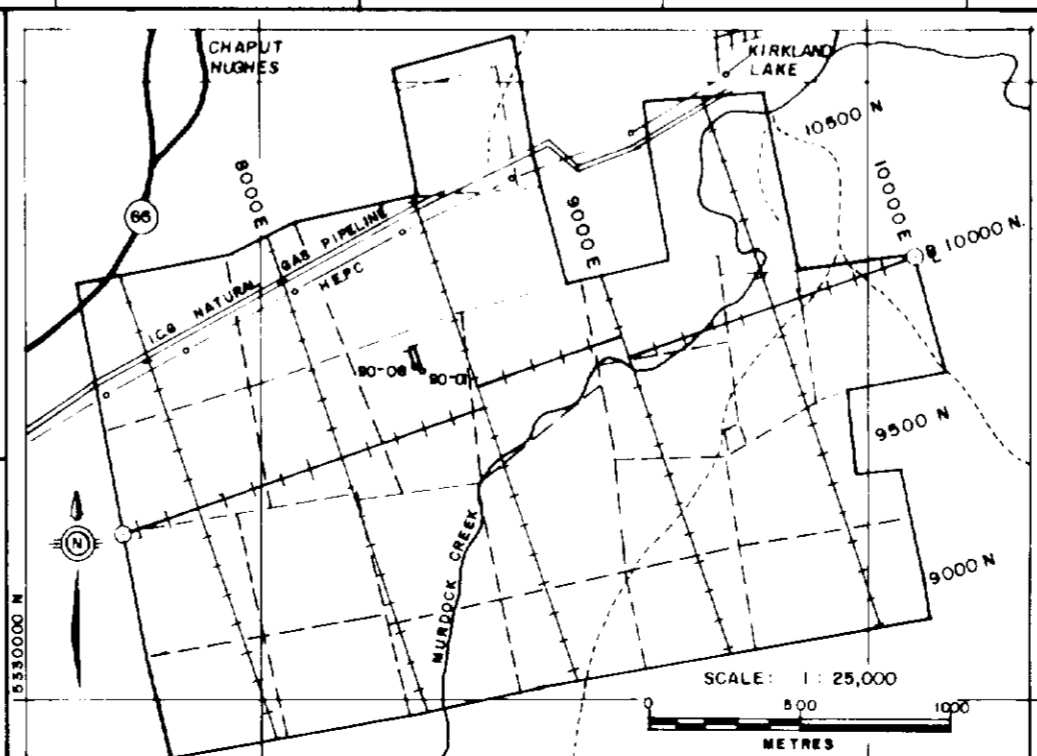
42A01NE8936 83 TECK



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

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

ABBREVIATIONS	NOTES
cp - Chalcopyrite	1) Magnetic Declination = 13° 00' West
mo - Molybdenite	
gf - Graphitic	
mag - Magnetite	
pb - Galena	
qv - Quartz Vein	
sh - Shearad	
vg - Visible Gold	



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8350E
HOLES AK90-01 & 06

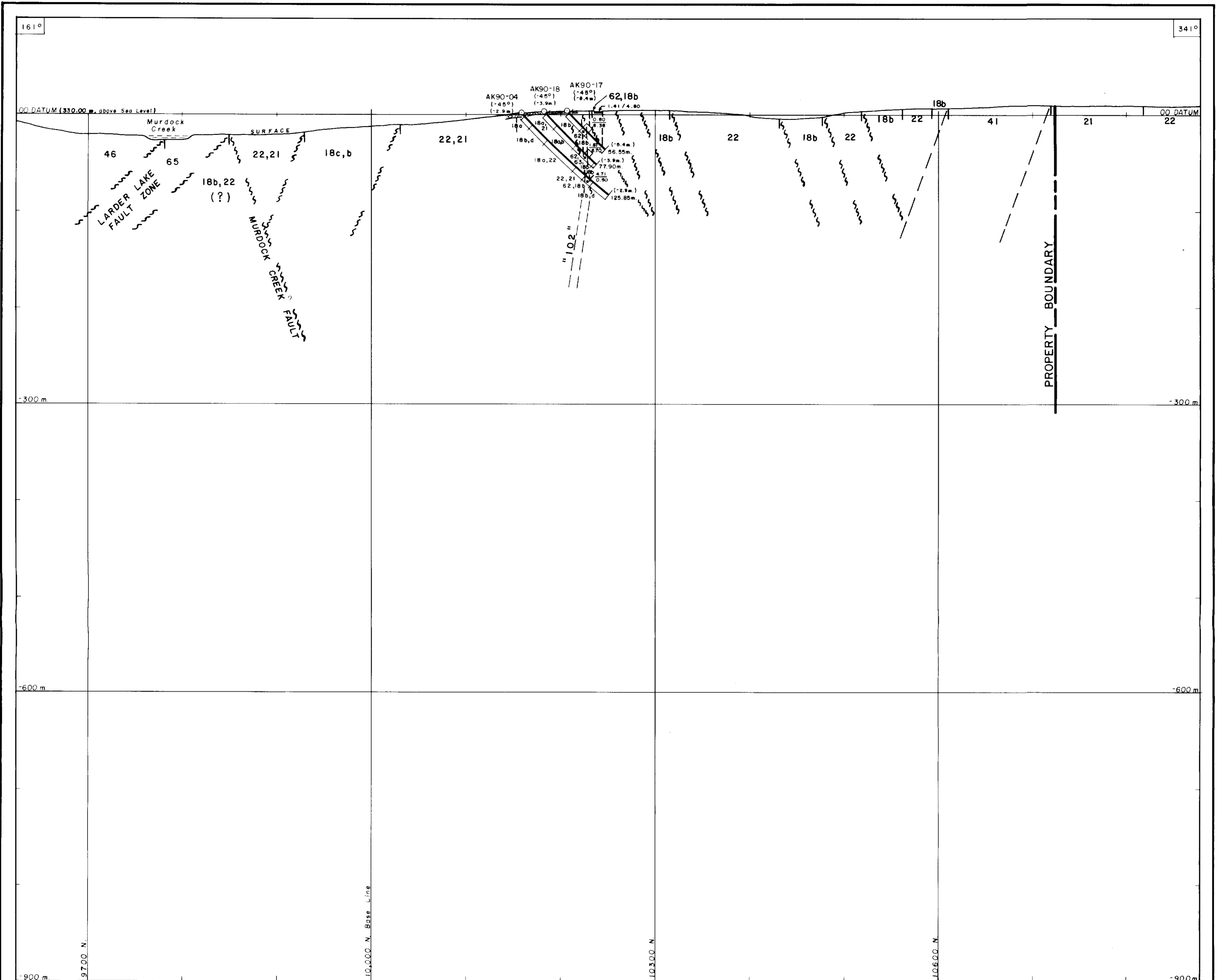
PROJECT No: 75-JV-28	DATA BY: W. Benham / M. Masson
N.T.S. 42 A / 1	DRAWN BY: B.H. Madill, Tech.
DRAWING No: DC-056	DATE: April, 1992

SCALE: 1:2500

50 0 50 100 METRES

W.B.

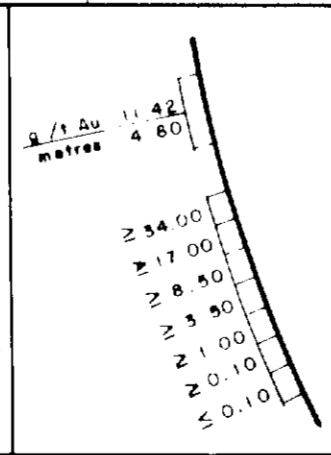




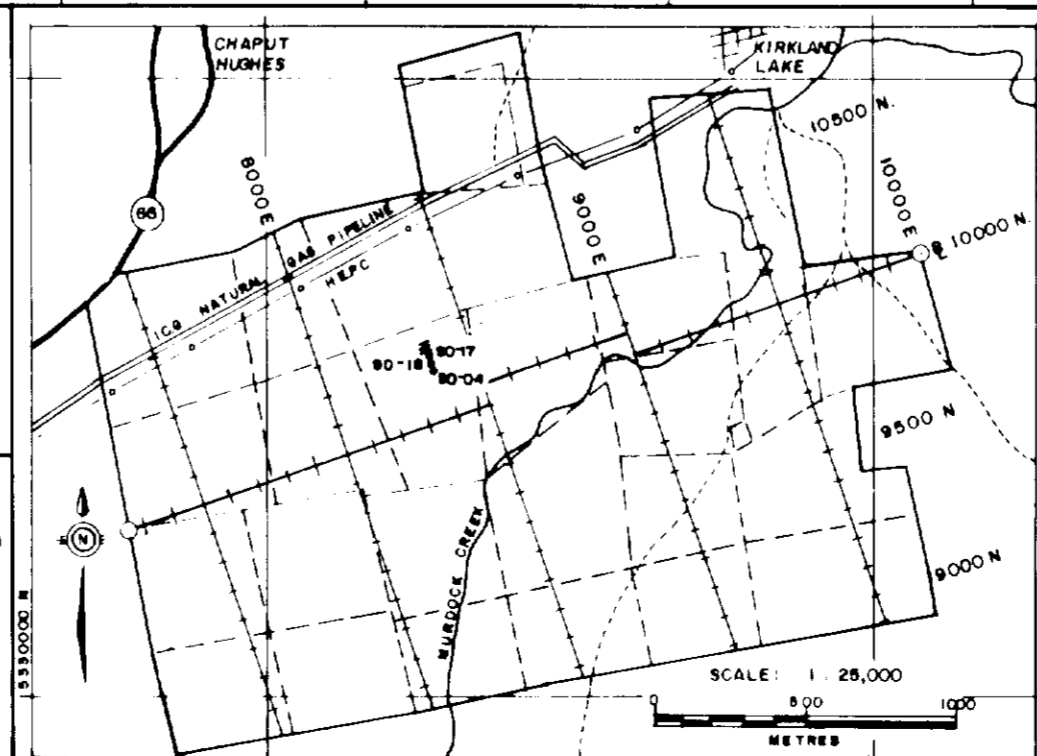
LEGEND	
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
42 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Block Tuff
462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

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

ABBREVIATIONS	
cp	Chalcopyrite
mo	Molybdenite
gf	Graphitic
mag	Magnetite
pb	Galena
qv	Quartz Vein
sh	Sheared
vq	Visible Void



NOTES
 1) Magnetic Declination = 13° 00' West



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
 Queenston Mining Inc
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY

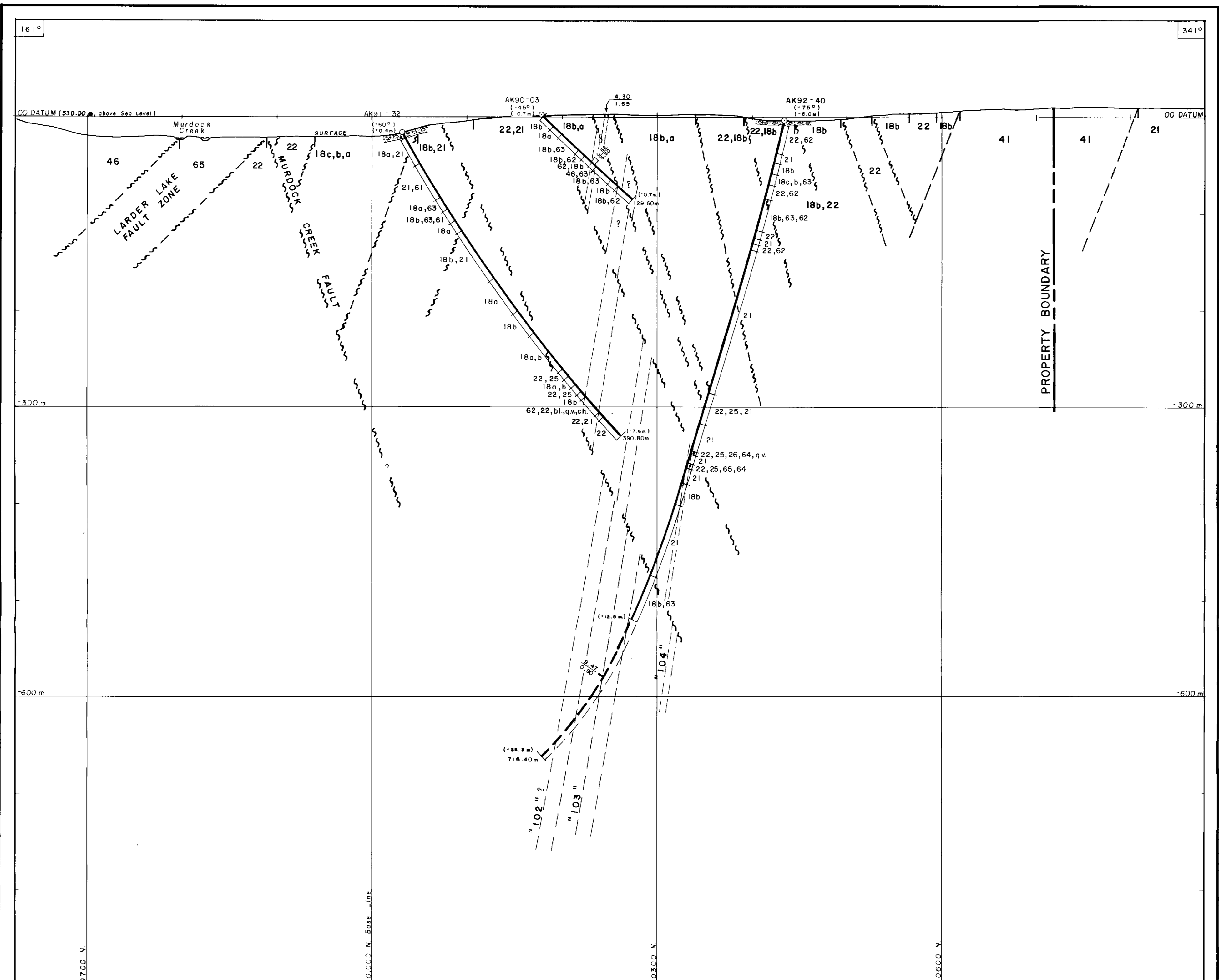
SECTION 8375E
 HOLES AK90-04, 17, 18

PROJECT No: 75-JV-28	DATA BY: W. Benham / M. Masson
N.T.S. 42 A / 1	DRAWN BY: B.H. Madill, Tech.
DRAWING No: DC-057	DATE: April, 1992

SCALE: 1:2500

W. Benham

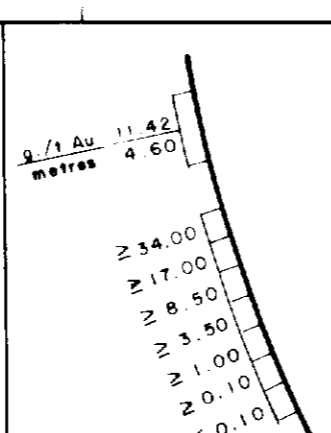




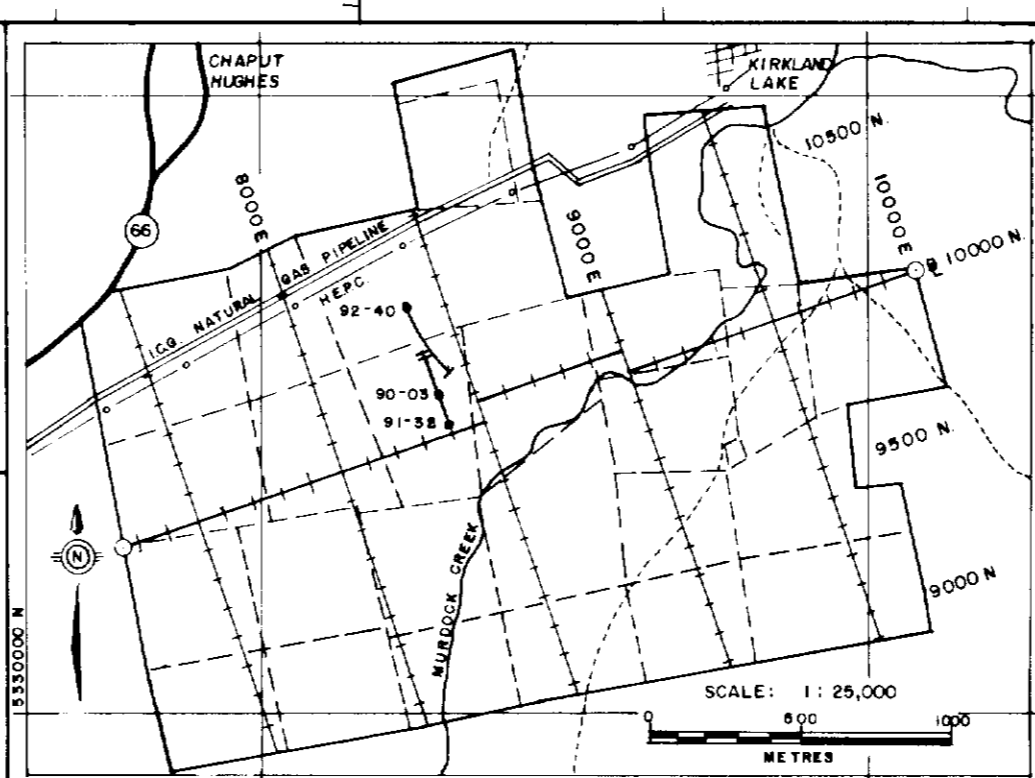
LEGEND	
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
42 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Block Tuff
462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

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

ABBREVIATIONS	
cp	- Chalcopyrite
mo	- Molybdenite
gf	- Graphitic
mag.	- Magnetite
pb.	- Galena
q.v.	- Quartz Vein
sh.	- Sheared
v.g.	- Visible Gold



NOTES
 1) Magnetic Declination = 13°00' West



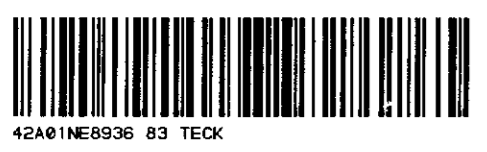
BATTLE MOUNTAIN (CANADA) INC.

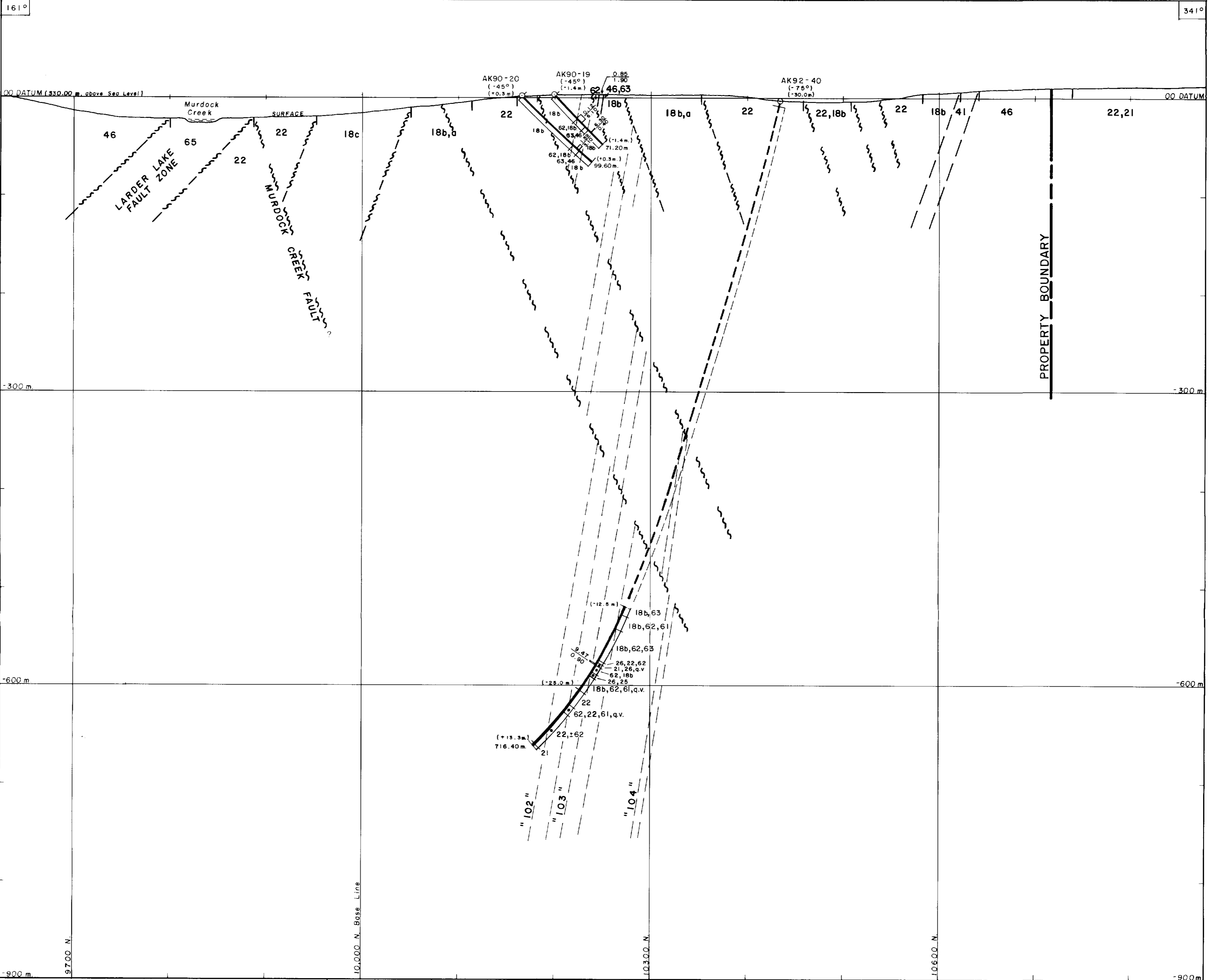
KIRKLAND LAKE PROJECT
 Queenston Mining Inc.
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY

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

PROJECT No.: 75-JV-28	DATA BY: W. Benham / M. Masson
N.T.S. 42 A / 1	DRAWN BY: B.H. Madill, Tech.
DRAWING No: DC-058	DATE: April, 1992

SCALE: 1:2500



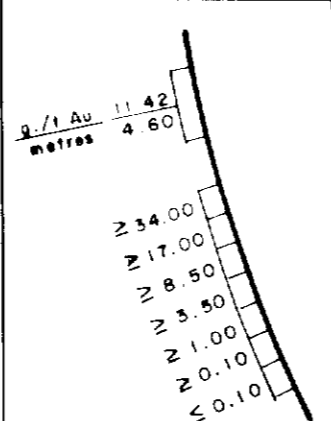


LEGEND

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

SYMBOLS

- Bedding, Contacts
- Brassic
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization

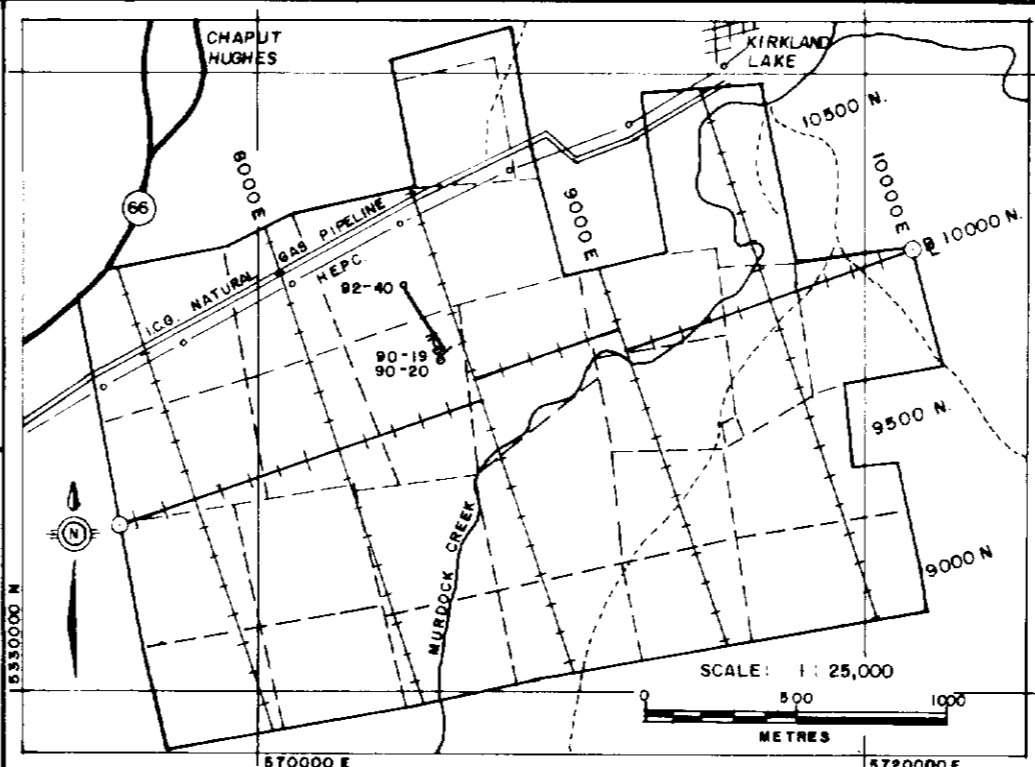


ABBREVIATIONS

- cp - Chalcopyrite
- mo - Molybdenite
- gf - Graphitic
- mag - Magnetite
- pb - Galena
- q.v. - Quartz Vein
- sh - Sheared
- v.g. - Visible Gold

NOTES

1) Magnetic Declination = 13°00' West



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8425 E
HOLES AK90-19 & 20
and AK92-40

PROJECT No: 75-JV-28	DATA BY: W. Benham / M. Masson
N.T.S. 42A / 1	DRAWN BY: B. H. Madill, Tech.
DRAWING No: DC-059	DATE: March 1992

SCALE: 1:2500

W.B.

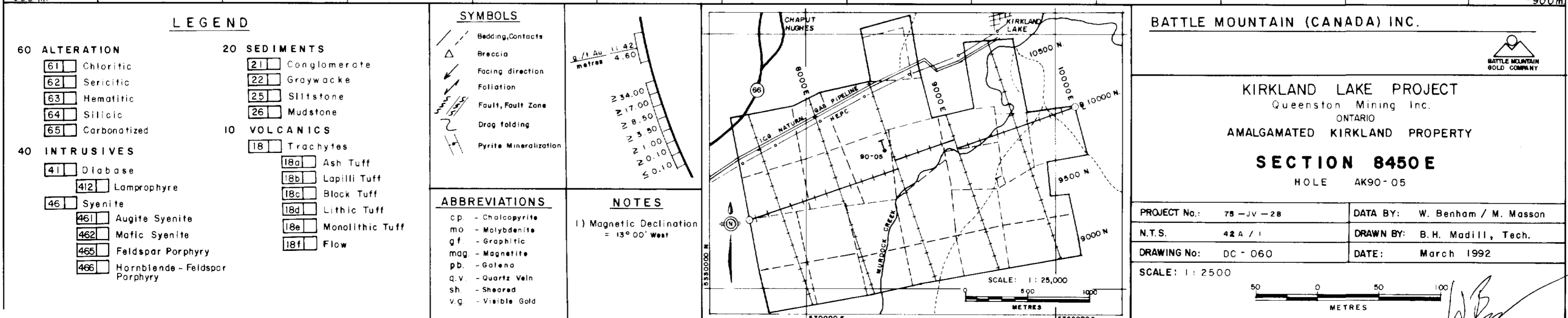
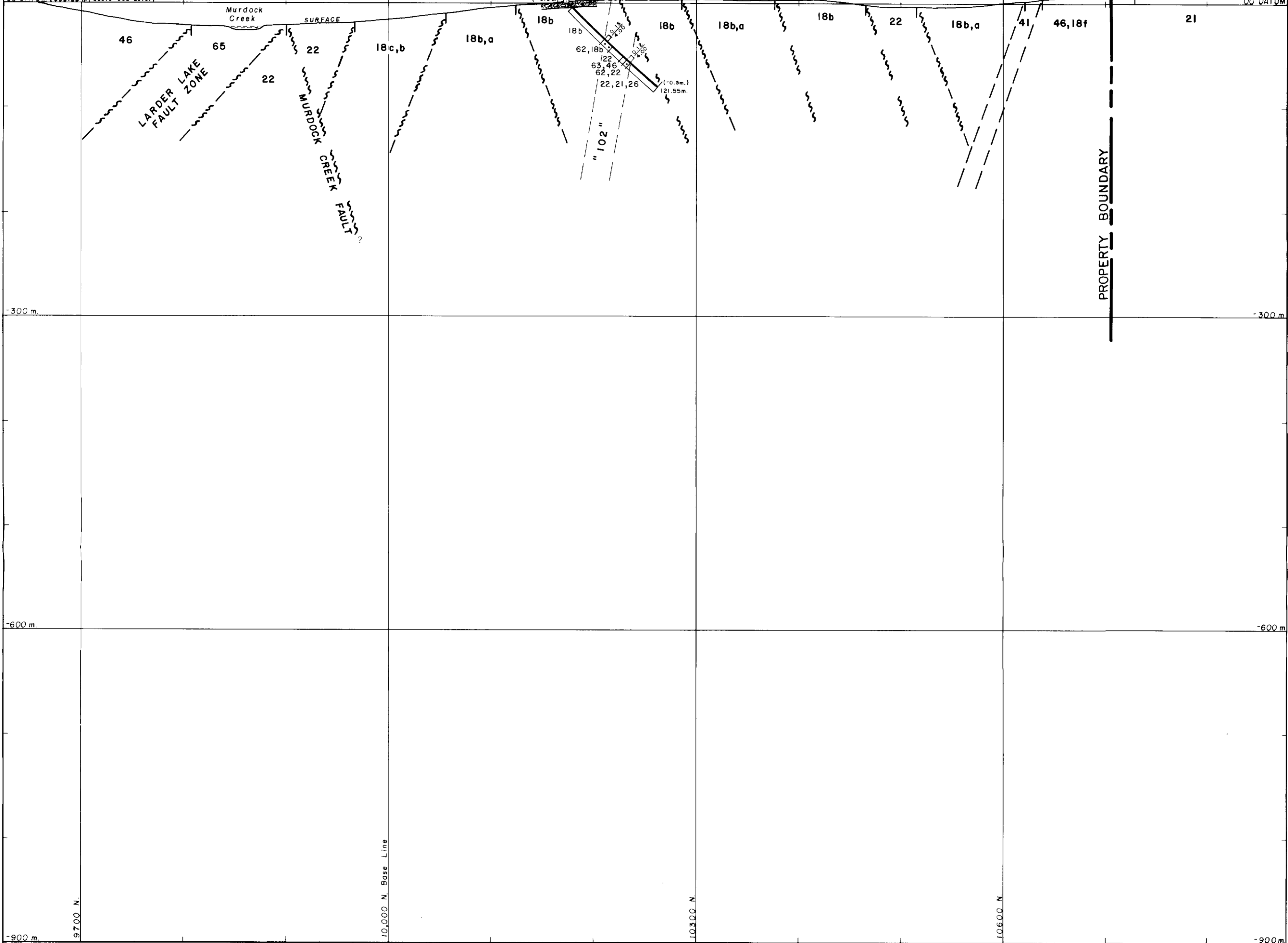


161°

341°

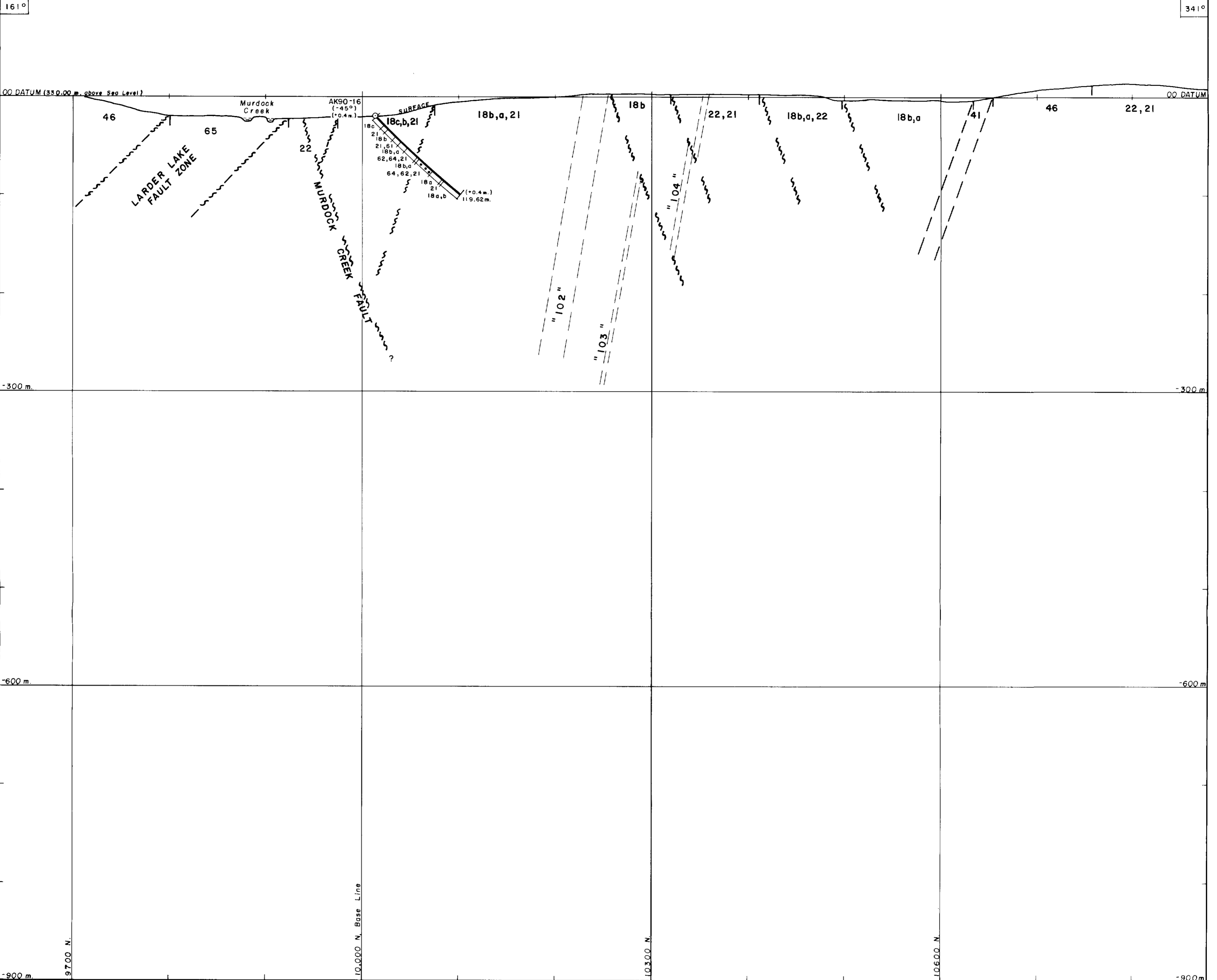
OO DATUM (330.00 m. above Sea Level)

OO DATUM



42481NE6936 63 TECH

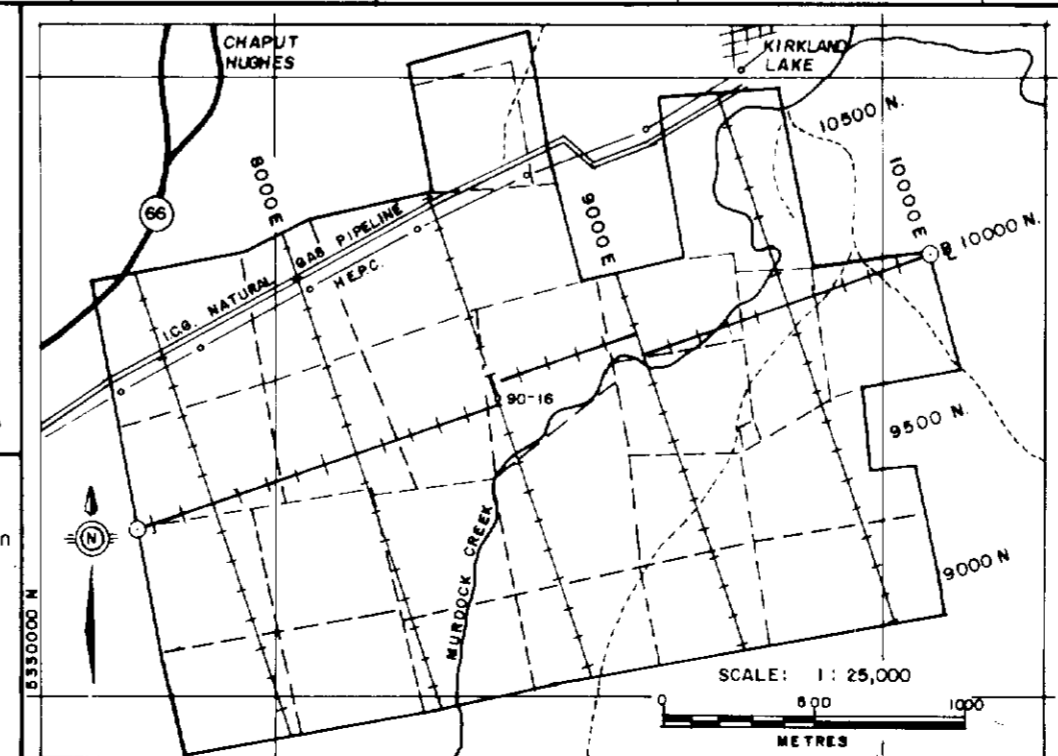
670



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

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

ABBREVIATIONS	
cp	- Chalcopyrite
mo	- Molybdenite
gf	- Graphitic
mag	- Magnetite
pb	- Galena
q.v.	- Quartz Vein
sh	- Sheared
v.g.	- Visible Gold



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

SECTION 8500E
HOLE AK90-16

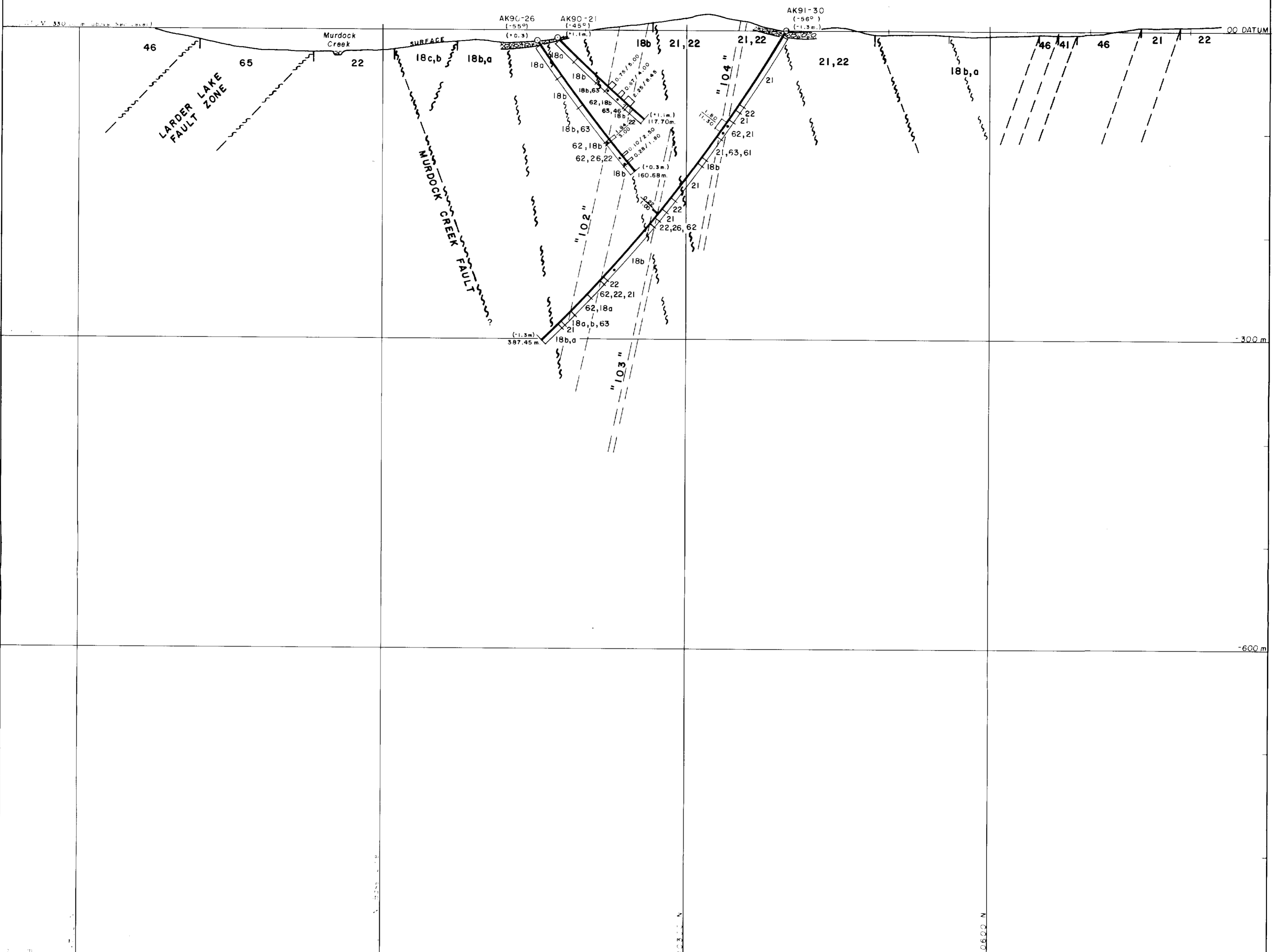
PROJECT No.: 75-JV-28	DATA BY: W. Benham / M. Masson
N.T.S. 42A / 1	DRAWN BY: B.H. Madill, Tech.
DRAWING No: DC-061	DATE: March 1992

SCALE: 1:2500

50 0 50 100 METRES

W.B.



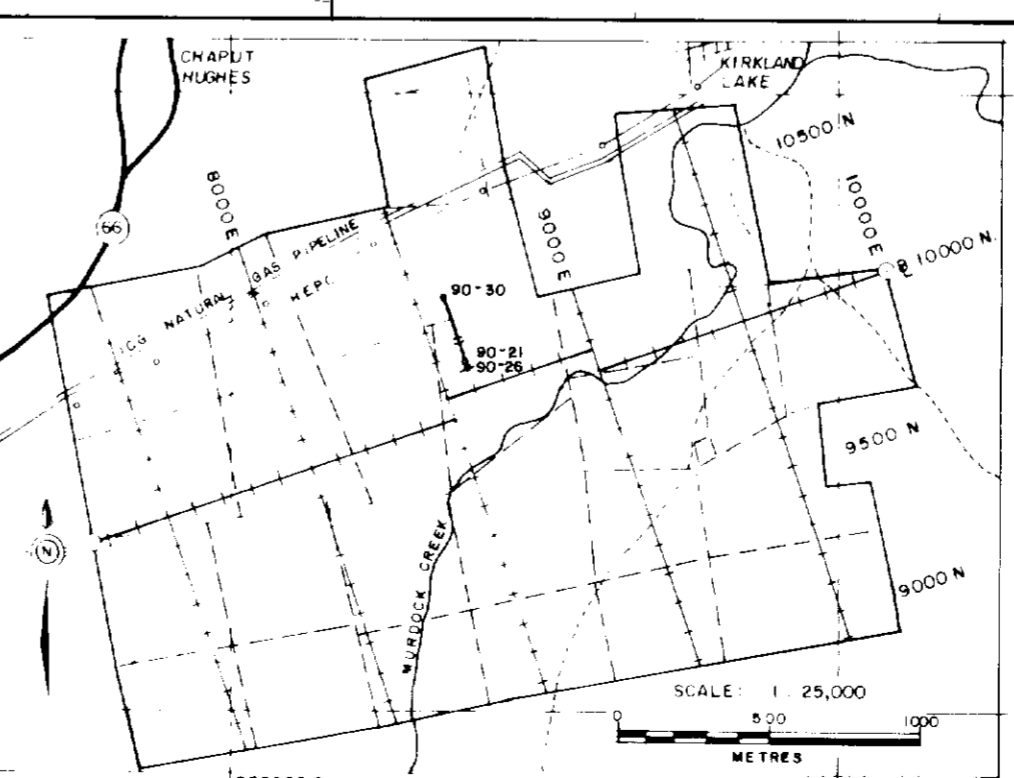


LEGEND	
ALTERATION	SEDIMENTS
INTRUSIVES	VOLCANICS

SYMBOLS	
ABBREVIATIONS	

NOTES

1) Magnetic Inclination
14°00' West



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
AMALGAMATED KIRKLAND PROPERTY

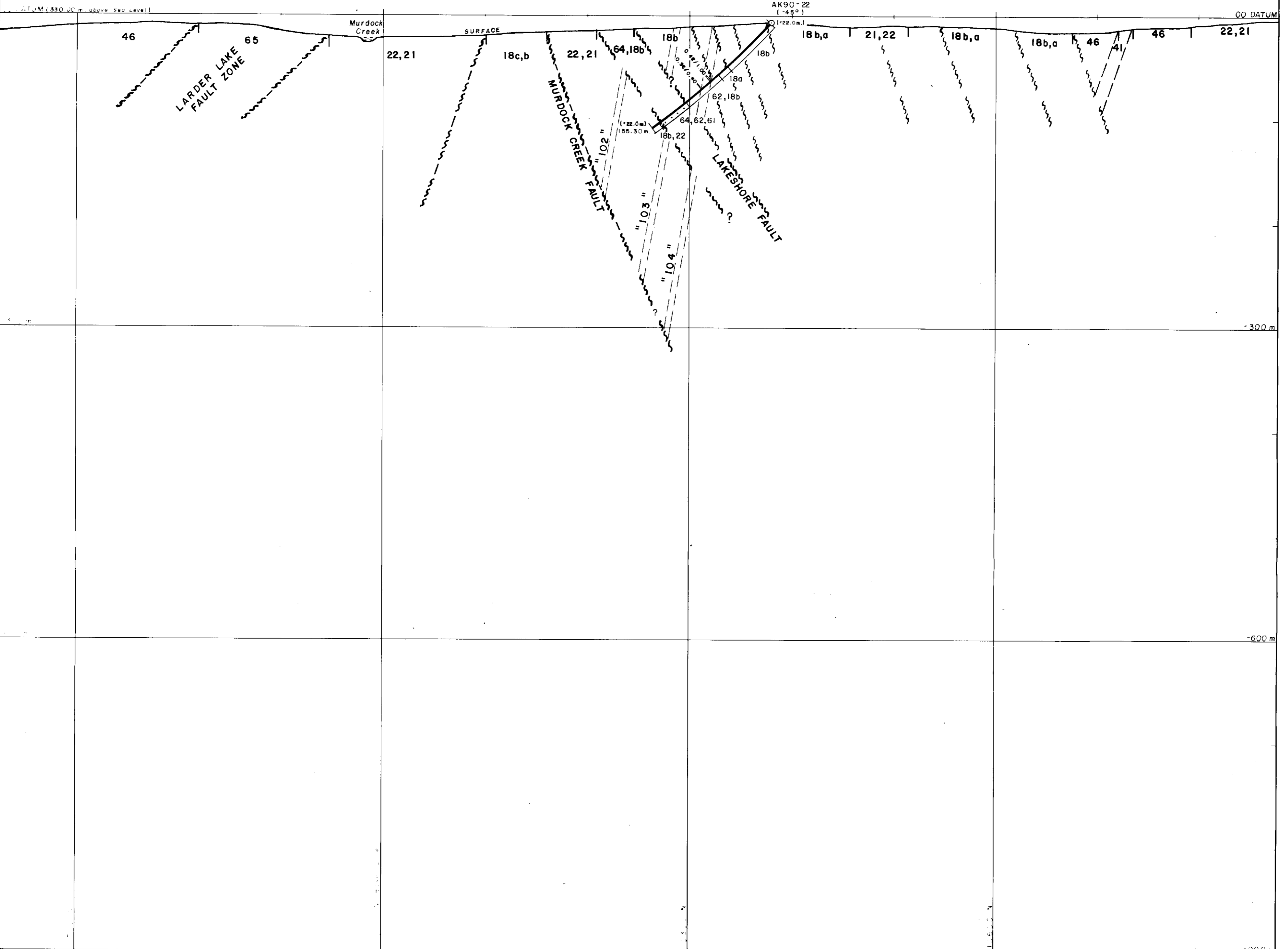
SECTION 8600 E
HOLES AK90-21,26
a AK91-30

PROJECT No: 75-JV-28	DATA BY: W. Benham / M. Masson
N.T.S. 42 A / 1	DRAWN BY: B.H. Madill, Tech.
DRAWING No: DC-062	DATE: March 1992

SCALE: 1:2500

W.B.





INTRODUCTION

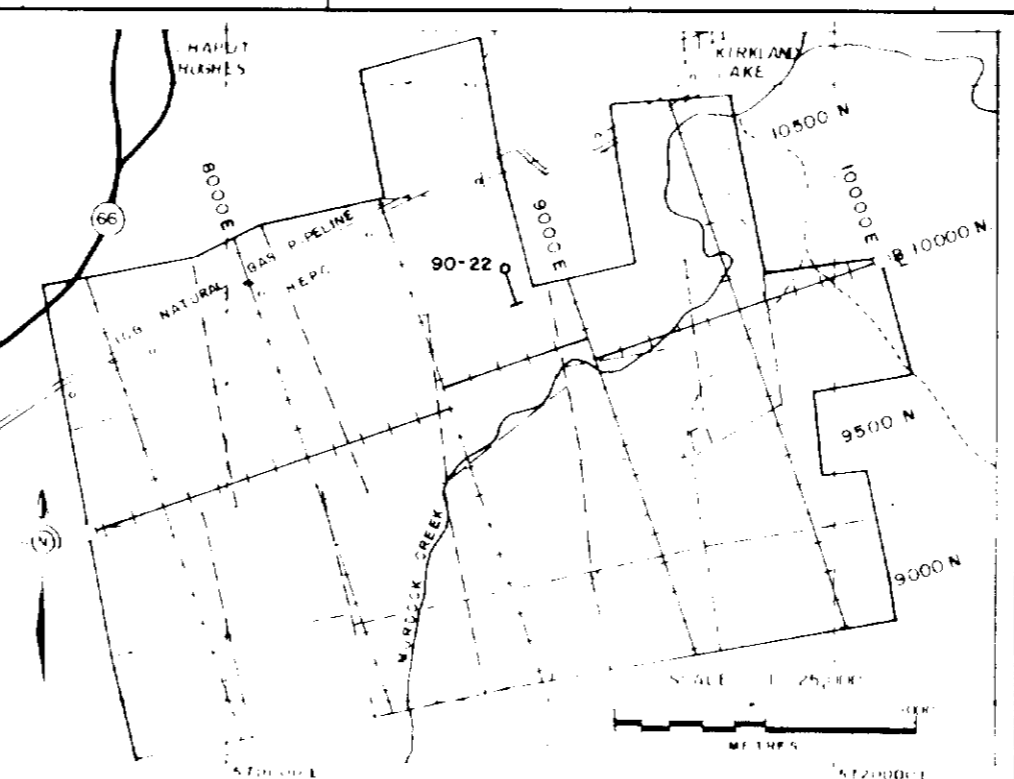
This drawing is a geological cross-section of the Kirkland Lake Project, Ontario, Canada. It shows the surface topography and the subsurface geological structure. The section is oriented along a line that passes through the Larder Lake Fault Zone, the Murdock Creek Fault, and the Lakeshore Fault. The geological units shown are the Larder Lake Formation, the Murdock Creek Formation, and the Lakeshore Formation. The section also shows the location of several boreholes, including AK90-22, and the location of the Larder Lake Fault Zone, the Murdock Creek Fault, and the Lakeshore Fault. The section is drawn to a scale of 1:25,000.

ABBREVIATIONS

AK90-22: Borehole location
 L.L.F.Z.: Larder Lake Fault Zone
 M.C.F.: Murdock Creek Fault
 L.S.F.: Lakeshore Fault
 S: Surface
 N: North

NOTES

1. This drawing is a geological cross-section of the Kirkland Lake Project, Ontario, Canada. It shows the surface topography and the subsurface geological structure. The section is oriented along a line that passes through the Larder Lake Fault Zone, the Murdock Creek Fault, and the Lakeshore Fault. The geological units shown are the Larder Lake Formation, the Murdock Creek Formation, and the Lakeshore Formation. The section also shows the location of several boreholes, including AK90-22, and the location of the Larder Lake Fault Zone, the Murdock Creek Fault, and the Lakeshore Fault. The section is drawn to a scale of 1:25,000.



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
 Queenston Mining Inc.
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY

SECTION 8800E
 HOLE AK90-22

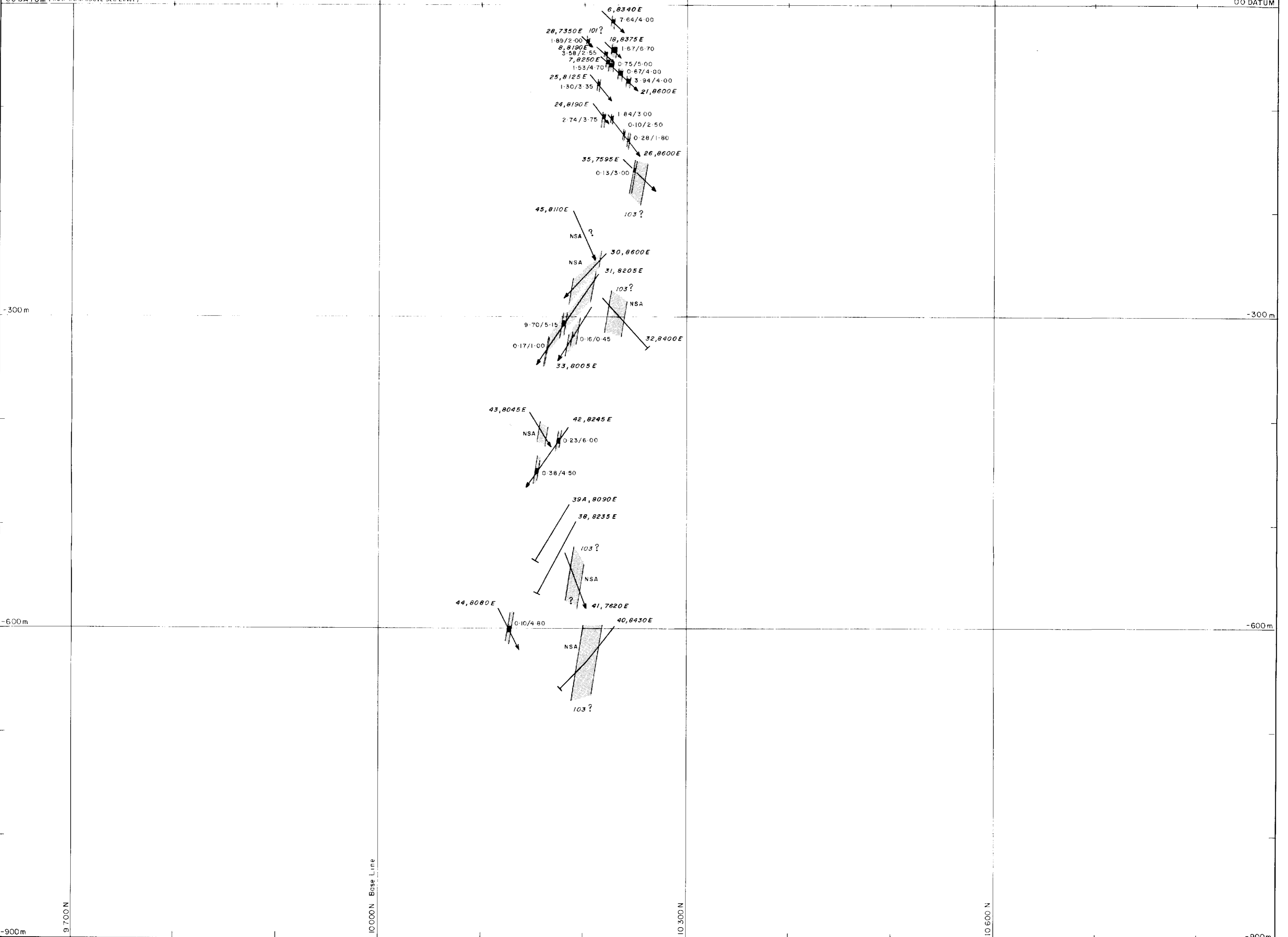
PROJECT No. 75-00V-28	DATA BY: W. Benham / M. Masson
NTS 42 A / 1	DRAWN BY: B.H. Modill, Tech.
DRAWING No. DC-064	DATE: March 1992
SCALE: 1:25,000	

W.B.

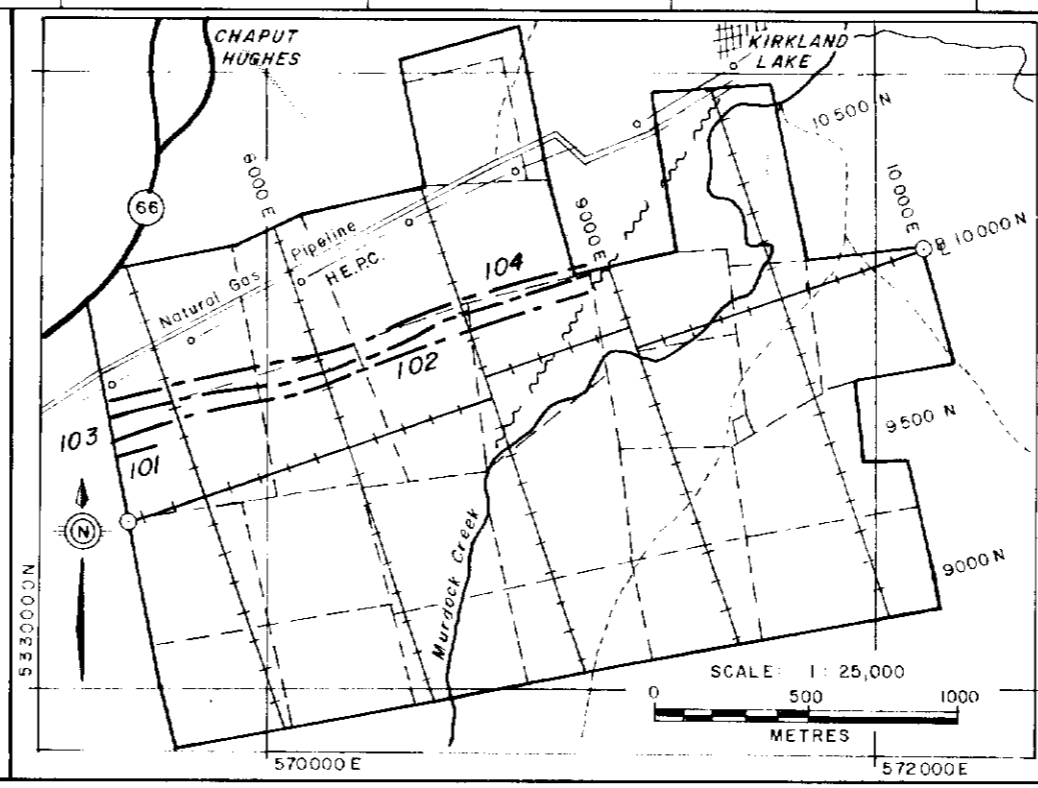
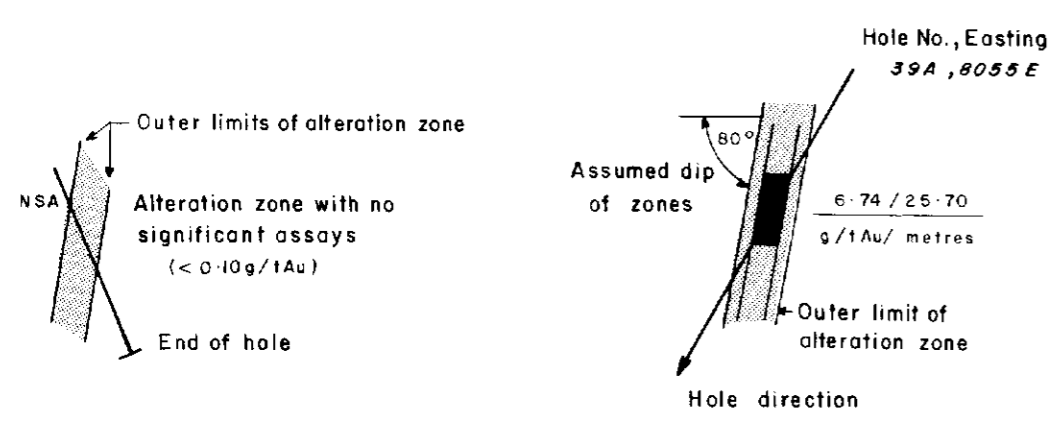


00 DATUM (330.00 m above Sea Level)

00 DATUM



LEGEND



BATTLE MOUNTAIN (CANADA) INC.



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

PROJECT No.: 75 - JV - 28	DATA BY: T.J. Bottrill / W. Benham
N.T.S. 42 A / 1	DRAWN BY: E. Benham
DRAWING No.: DC - 067	DATE: October, 1992

SCALE: 1: 2500



E. Benham



161°

341°

00 DATUM (330.00m above Sea Level)

00 DATUM

-300m

-300m

-600m

-600m

-900m

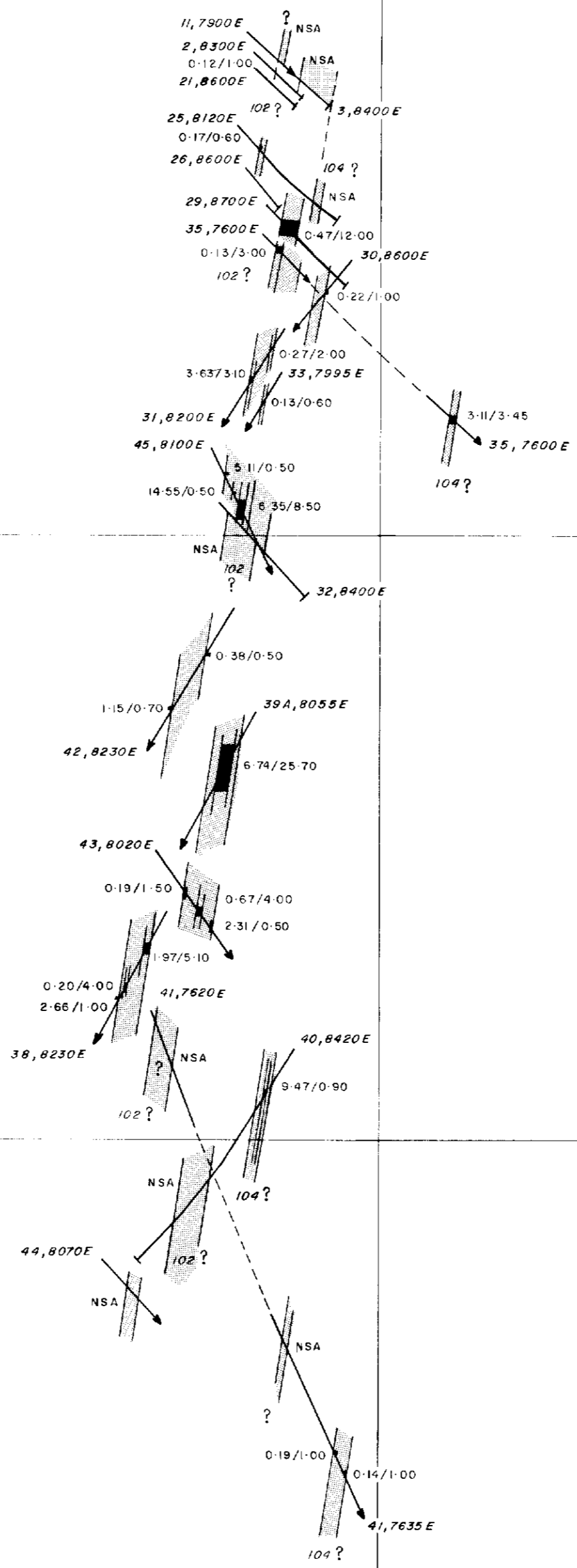
-900m

9700N

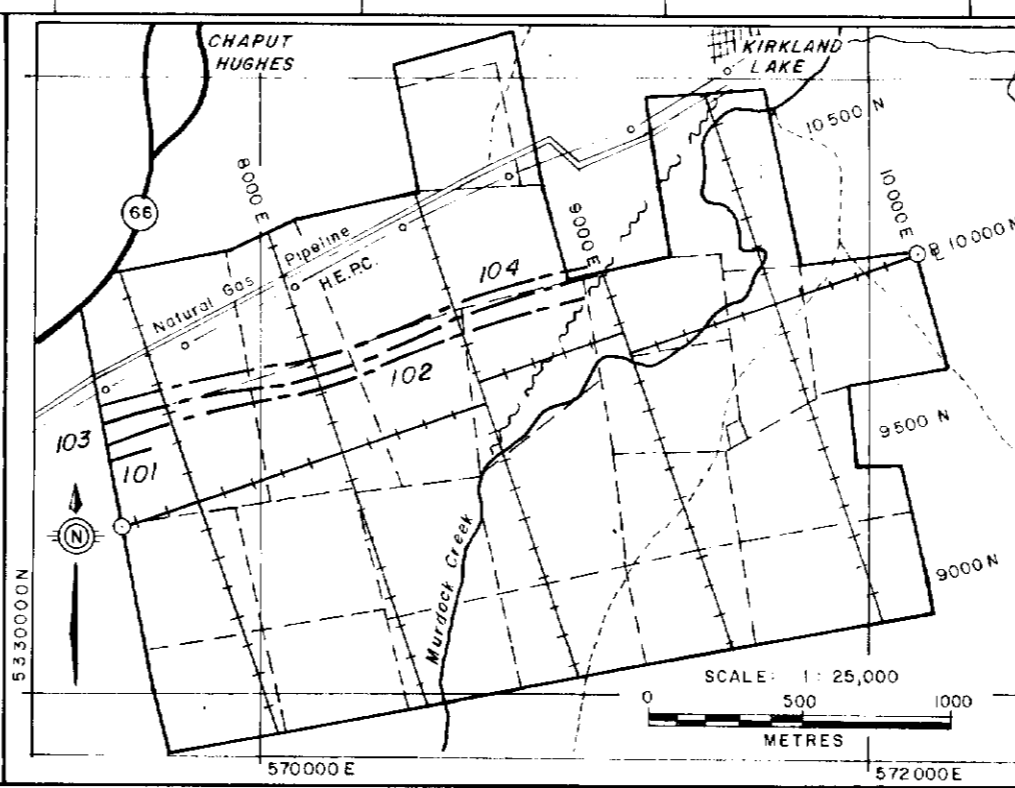
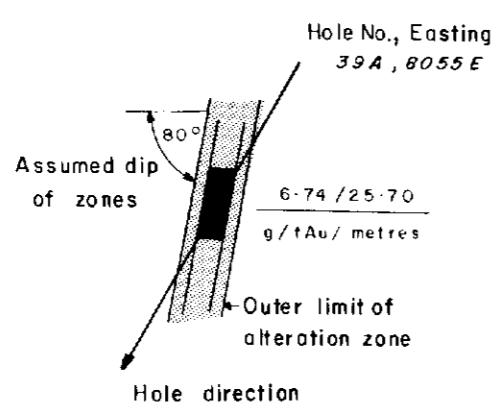
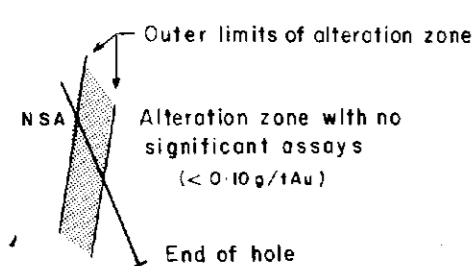
10000N Base Line

10300N

10600N



LEGEND

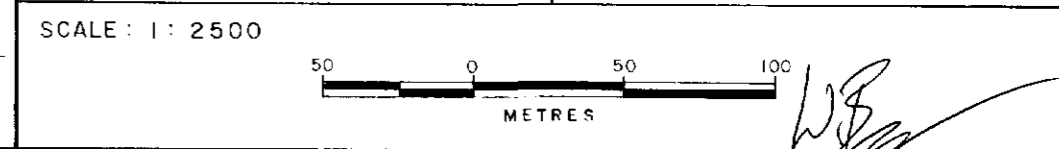


BATTLE MOUNTAIN (CANADA) INC.



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

PROJECT No.: 75 - JV - 28	DATA BY: T.J. Batrill / W. Benham
N.T.S. 42 A / 1	DRAWN BY: E. Benham
DRAWING No.: DC-068	DATE: October, 1992

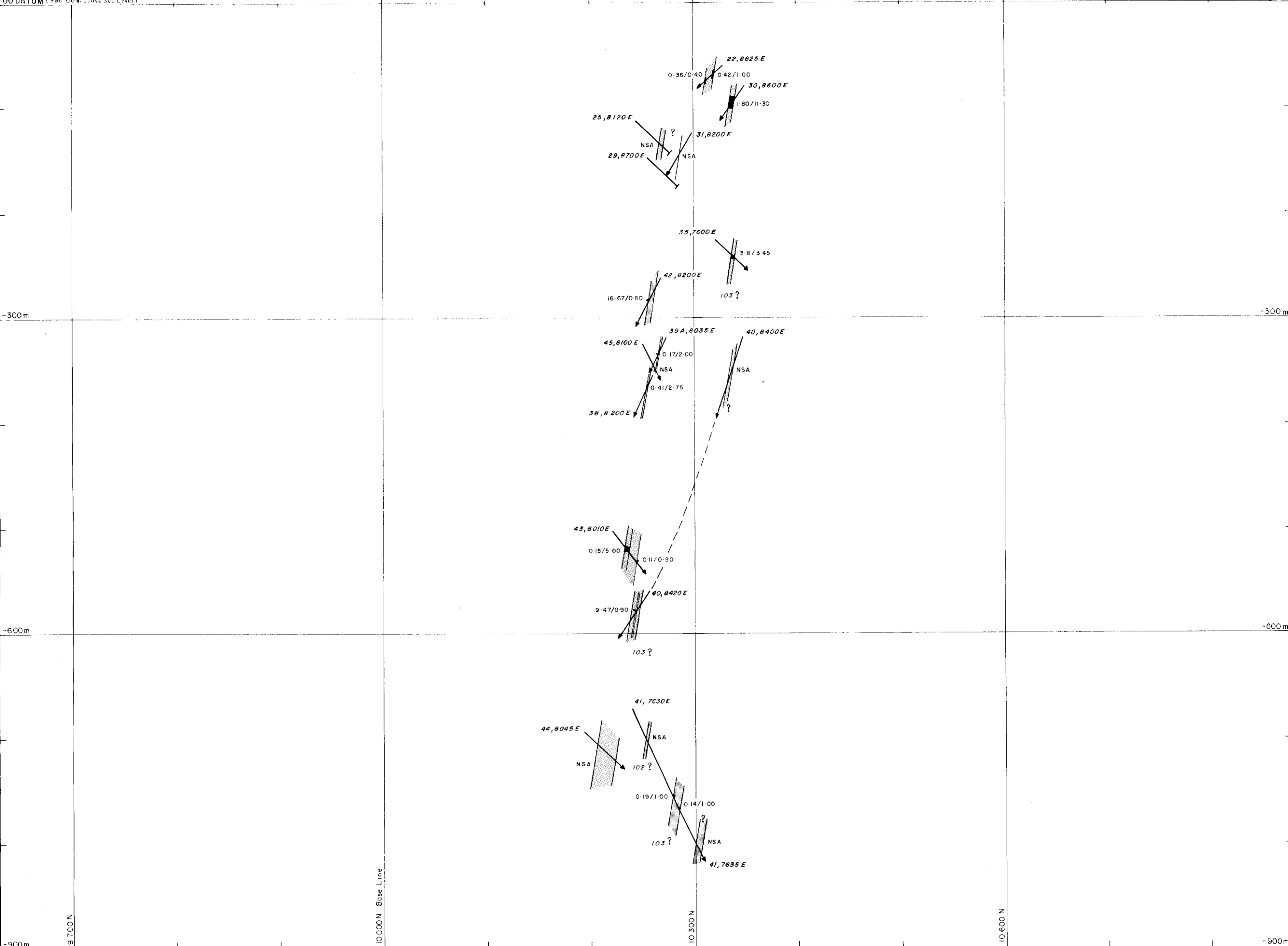


161°

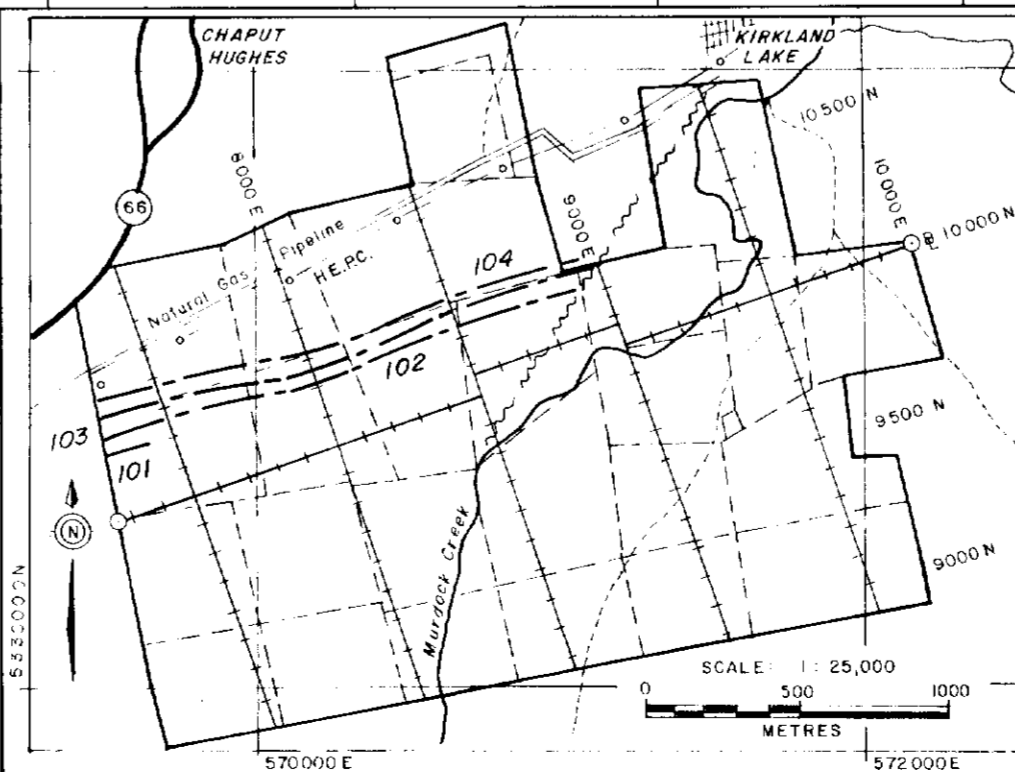
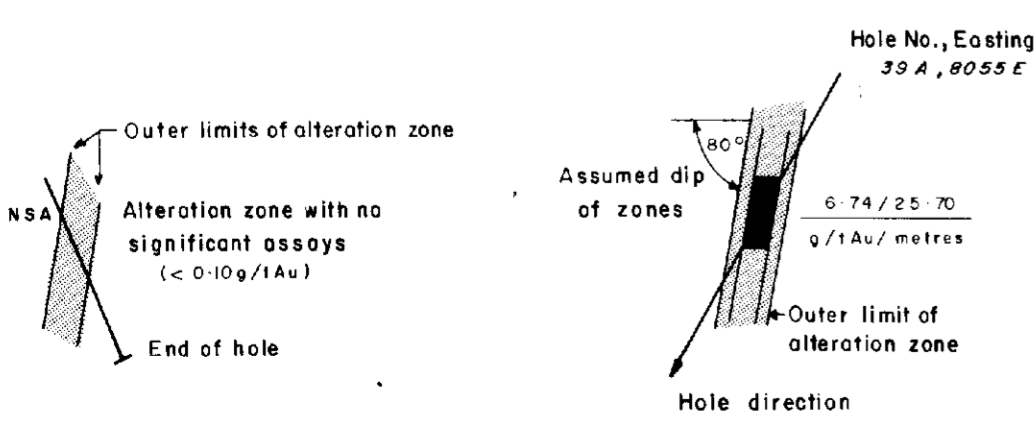
341°

00 DATUM (330.00m above Sea Level)

00 DATUM



LEGEND

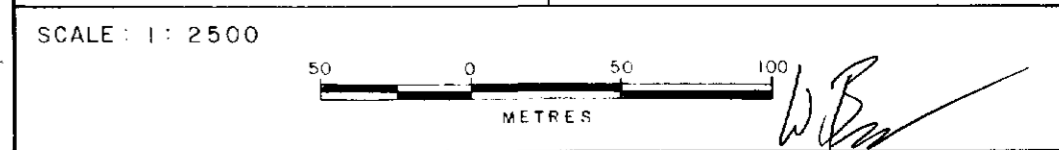


BATTLE MOUNTAIN (CANADA) INC.



KIRKLAND LAKE PROJECT
 Queenston Mining Inc.
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY
COMPOSITE CROSS SECTION
"104" ZONE

PROJECT No.: 75 - JV - 28	DATA BY: T.J. Bottrill / W. Benham
N.T.S. 42A / 1	DRAWN BY: E. Benham
DRAWING No.: DC-069	DATE: October, 1992



161°

341°

00 DATUM (330.00m above Sea Level)

00 DATUM

-300m

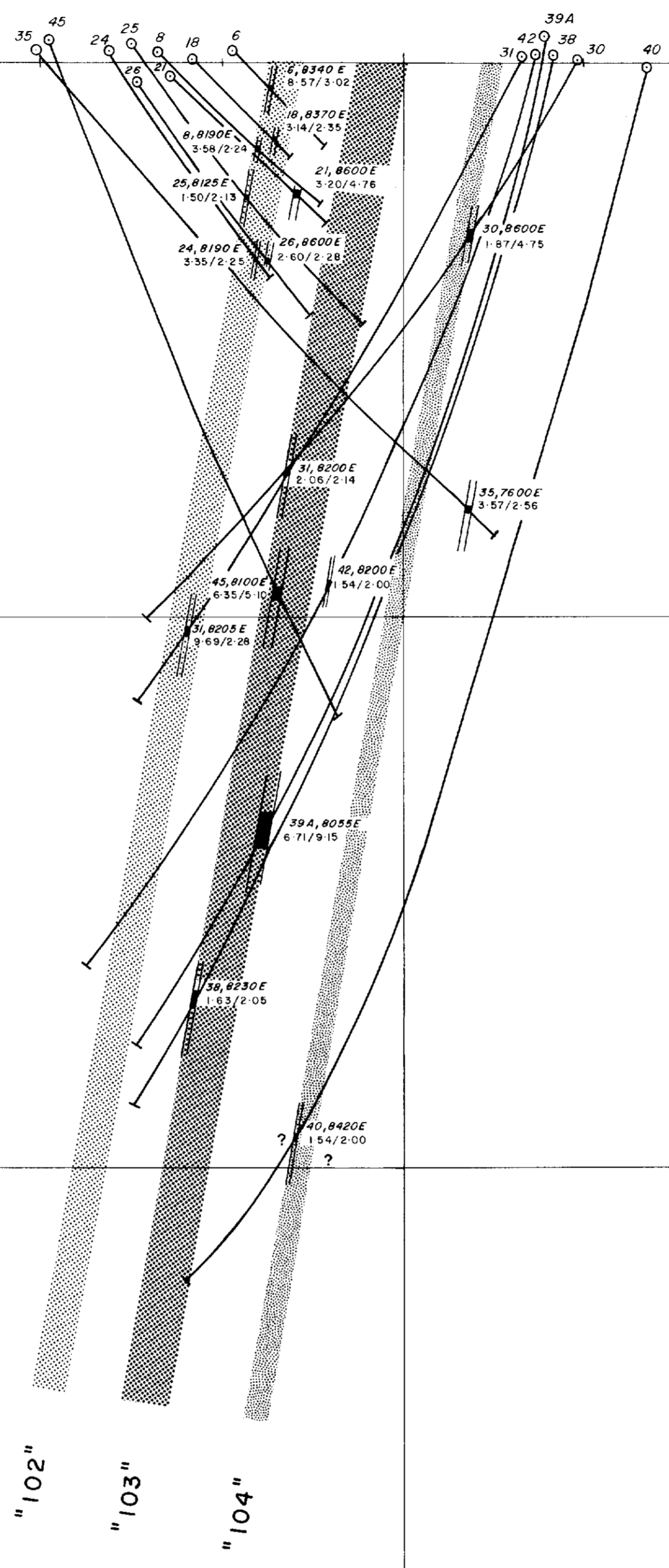
-300m

-600m

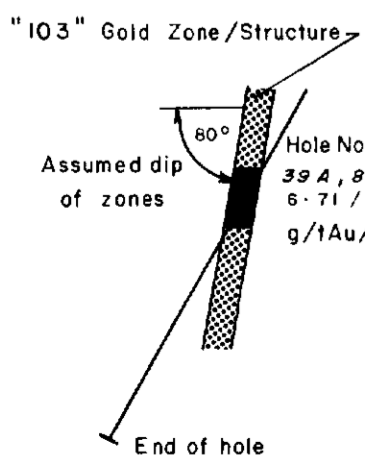
-600m

-900m

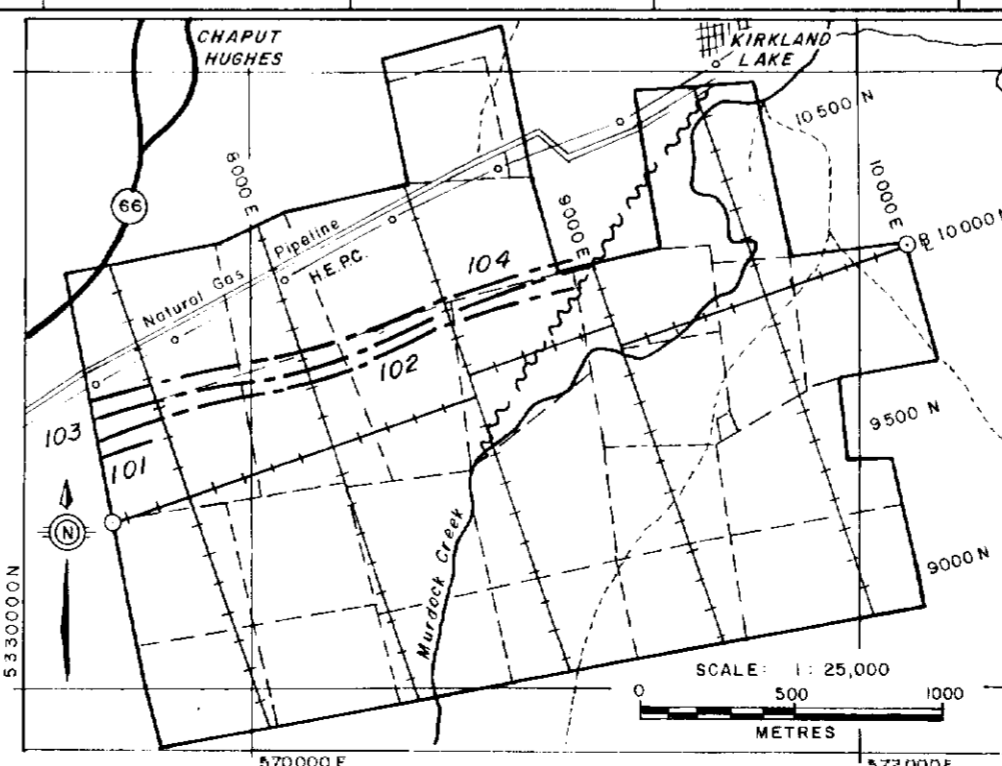
-900m



LEGEND



DRILL HOLES NOT SHOWN					
Hole No.	Easting	g/t Au/m	Depth	Zone	
7	8250	2.04/3.02	51	102	
9	8150	2.92/2.03	55	102	
20	8425	1.94/2.16	51	102	
17	8370	1.26/2.56	17	102	
28	7350	1.57/2.00	33	101	



BATTLE MOUNTAIN (CANADA) INC.



KIRKLAND LAKE PROJECT
 Queenston Mining Inc.
 ONTARIO
 AMALGAMATED KIRKLAND PROPERTY
COMPOSITE CROSS SECTION
 WITH > 3.00 GRAM-METRES HORIZONTAL WIDTH
"102 / 103 / 104" Au ZONES

PROJECT No.: 75-JV-28	DATA BY: T.J. Bottrill / W. Benham
N.T.S. 42 A / 1	DRAWN BY: E. Benham
DRAWING No.: DC-073	DATE: October, 1992

SCALE: 1:2500



W.B.



42A01NE8936 83 TECK

750