



42A01NE0124 79 TECK

010

DIAMOND DRILLING

TOWNSHIP: TECK

REPORT NO: 79

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>
L 491663	AK-90-01	111.1 M	OCT/90	(1)
"	AK-90-02	123.55 M	OCT/90	(1)
"	AK-90-03	129.5 M	OCT/90	(1)
"	AK-90-04	125.85 M	OCT/90	(1)
"	AK-90-05	121.55 M	OCT/90	(1)
"	AK-90-06	71.8 M	OCT/90	(1)
"	AK-90-07	108.2 M	OCT/90	(1)
"	AK-90-08	123.45 M	OCT/90	(1)
L 491663	AK-90-09	124 M	OCT/90	(1)
L 491651	AK-90-10	173.7 M	NOV/90	(1)
"	AK-90-11	117.4 M	NOV/90	(1)
L 477299/491651	AK-90-12	99.55 M	NOV/90	(1)
L 500058/491651	AK-90-13	90.17 M	NOV/90	(1)
"	AK-90-14	99.45 M	NOV/90	(1)
L 491663	AK-90-15	102.75 M	NOV/90	(1)

NOTES: (1) W9108.8 FILED APRIL/91

(CONT'D)

DIAMOND DRILLING

TOWNSHIP: TECK

REPORT NO: 79

WORK PERFORMED FOR: BATTLE MOUNTAIN INC.

RECORDED HOLDER: SAME AS ABOVE

: OTHER

<u>CLAIM NO.</u>	<u>HOLE NO.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
L477419	AK-90-16	119.62 M	NOV/90	(1)
L491663	AK-90-17	56.55 M	NOV/90	(1)
"	AK-90-18	77.9 M	NOV/90	(1)
"	AK-90-19	71.2 M	NOV/90	(1)
"	AK-90-20	99.6 M	NOV/90	(1)
L477419	AK-90-21	117.7 M	NOV/90	(1)
L500057/477419	AK-90-22	155.3 M	NOV/90	(1)
L491663	AK-90-23	191.7 M	NOV/90	(1)
"	AK-90-24	151 M	NOV/90	(1)
"	AK-90-25	142.9 M	NOV/90	(1)
L477419	AK-90-26	160.68 M	NOV-DEC/90	(1)
L491651	AK-90-27	130.1 M	DEC/90	(1)
L491183	AK-90-28	122.4 M	DEC/90	(1)

NOTES: (1) W9108.8 FILED APRIL/91

A.L.

BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT

DIAMOND DRILLING REPORT

**AMALGAMATED KIRKLAND PROPERTY
(OCTOBER - DECEMBER, 1990)**

**TECK TOWNSHIP, LARDER LAKE MINING DIVISION
ONTARIO, CANADA**

Kirkland Lake, Ontario

January, 1991

W. Benham

APPENDIX I
DIAMOND DRILL LOGS

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

PAGE: 1 of 13

HOLE: AK-90-01

PROPERTY	Amalgamated Kirkland	DATE LOGGED	October 17-20 1990	EASTING	8350.00
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10185.00
CLAIM No.	L 491863	SIGNED BY	<i>W. B. Heath</i>	ELEVATION	
STARTED	October 16, 1990	DRILLED BY	Heath & Sherwood	LENGTH	111.10
COMPLETED	October 18, 1990	SURVEYED BY		UNITS	metres
		CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ

DEPTH	AZIMUTH	DIP
Collar	341	45
28.96		45
102.10		40

PURPOSE To test 102-8350 Gold Zone
COMMENTS Alteration Zone 49.7-60.9, 11.2 m
Pyrite Zone 59.4-60.15, 0.75 m

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH In metres	AVERAGE Au g/t
0.00 2.00	CASING		53.50 - 54.10 Foliation @ 60° tca	59.40 60.40	1.00	0.61
2.00 12.30	CONGLOMERATE		54.10 - 56.90 Fault Zone @ 40° tca			
	7.55 - 7.87 Fault @ 22° tca		59.40 - 60.15 Pyrite Zone			
	9.40 - 9.80 Fault @ 30° tca		5 - 10 % py, 1 - 3 % qtz			
	11.90 - 12.15 Fault @ 37° tca		60.60 - 60.85 Fault Zone @ 30° tca			
12.30 14.10	ASH TUFF	60.90 80.10	LAPILLI TUFF			
14.10 14.45	CONGLOMERATE	80.10 83.10	ASH TUFF			
14.45 18.40	LAPILLI TUFF		80.10 - 80.20 Fault @ 17° tca			
	15.85 - 16.00 Fault @ 52° tca		82.80 - 83.10 Fault @ 20° tca			
18.40 22.70	ASH TUFF	83.10 84.75	LAPILLI TUFF			
	22.45 - 22.60 Fault @ 22° tca	84.75 87.80	ASH TUFF			
22.70 41.20	LAPILLI TUFF		84.75 - 85.20 Fault Zone @ 47° tca			
	29.80 - 30.00 Sericite Zone	87.80 92.50	LAPILLI TUFF			
	37.26 - 37.70 Fault Zone @ 40° tca		92.20 - 92.40 Fault @ 47° tca			
41.20 49.70	ASH TUFF	92.50 92.80	CONGLOMERATE			
	41.20 - 42.00 Fault Zone @ 37° tca	92.80 107.50	COARSE LAPILLI TUFF			
49.70 60.90	SERICITIC ALTERATION ZONE	107.50 111.10	LAPILLI TUFF			
	50.80 - 51.65 Fault Zone @ 45° tca					
	52.35 - 53.50 Fault Zone @ 51° tca	111.10	E.O.H.			

BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG

HOLE: AK-90-01

PAGE: 2 of 13

INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au *M
0.00	2.00	CASING									
2.00	12.30	<p>CONGLOMERATE / GRAYWACKE Polymictic pebble conglomerate, matrix supported, weak to non-magnetic, massive to weakly foliated with prominent pebble fabric @ 52° tca. Unit consists of 0 - 25% angular to moderately well rounded, polymictic (mafic volcanic, feldspar porphyry, spotted trachyte) clasts up to 4 cm (avg 2 cm) in a fine grained feldspar + quartz + lithic fragments (graywacke) groundmass. Minor wispy sericite is pervasive throughout.</p>									
	2.85 - 2.87	Fault @ 50° tca	6177	2.00	3.00	1.00		Foliated Cgl, Fault @ 2.85 - 2.87	0.02		
		tight chlorite and sericite schist with moderate to strong ankerite.	6178	3.00	3.50	0.50		Conglomerate - weak sericite	0.02		
	3.74 - 3.85	Fault @ 57° tca	6179	3.50	4.00	0.50		Cgl + sericite + ankerite schist	0.03		
		Sericite + Ankerite Schist - leading contact marked by 1 cm quartz albite veinlet with sharp chloritic boundaries. Lower contact is gradational with wispy sericitic conglomerate.	6180	4.00	5.00	1.00		Weakly foliated Conglomerate	0.03		
			6181	5.00	6.00	1.00		Massive Conglomerate	0.02		
	6.75 - 6.85	Fault @ 23° tca	6182	6.00	6.50	0.50		Massive Conglomerate	0.04		
		Sericite + chlorite + quartz/albite, rubbly button core	6183	6.50	7.00	0.50		Foliated Cgl, fault @ 6.75 - 6.85	0.02		
	7.30 - 7.40	Fault @ 15° tca	6184	7.00	8.00	1.00		Foliated sheared Conglomerate, fault @ 7.30 - 7.55	0.04	0.01	
		Chlorite + sericite + calcite; tight 1 mm wide chlorite schist with calcite along fault faces.									
	7.55 - 7.87	Fault @ 22° tca									
		Sericite + ankerite + chlorite + quartz; open vuggy fault with wispy to laminated sericite, strong rusty appearance due to ankerite weathering.	6185	8.00	9.00	1.00		Massive to foliated Conglomerate	0.02		
	9.40 - 9.80	Fault @ 30° tca	6186	9.00	10.00	1.00		Sheared Cgl - Sericite + Ank + Qtz/Albite	0.02		
		Sericite + ankerite + quartz/albite; strong sericite/ankerite schist and brecciated quartz albite veinlets.	6187	10.00	11.00	1.00		Massive Conglomerate	0.03		
			6188	11.00	11.50	0.50		Massive Conglomerate	0.01		

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

HOLE: AK-90-01

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au* M
	11.90 - 12.15	Fault @ 37° tca Sericitic + chlorite + calcite + quartz; pseudo brecciated to brecciated quartz vein, 3 cm wide, in sericite chlorite schist.	6189	11.50	12.20	0.70		Ser + Chl Schist + Qtz Breccia Massive Ash Tuff	0.01		
			6190	12.20	13.00	0.80			0.01		
12.30	14.10	TRACHYTIC TUFF / ASH TUFF Fine grained, massive, purplish-grey, non-magnetic; contains 1% barren milky white quartz veins up to 0.5 cm wide.	6191	13.00	14.00	1.00		Massive Ash Tuff, fault @ 13.70 - 13.85	0.03		
	13.70 - 13.85	Fault @ 33° tca: sericite + ankerite + chlorite + quartz; boudinaged white quartz ± albite vein ≤ 1 cm wide in sericite + ankerite schist.									
	14.00 - 14.10	Quartz ± albite vein: barren, massive, milk white, irregular contact.									
14.10	14.45	CONGLOMERATE / GRAYWACKE Weakly foliated conglomerate with < 5% clasts in a fine grained graywacke matrix; moderate sericite to 3%; poorly sorted; contacts appear to be co-incident with late barren quartz ± albite veins @ 14.10 and 14.40 m.	6192	14.00	14.50	0.50		Massive Foliated Cgl with white barren quartz veins	0.02	0.01	
14.45	18.40	LAPILLI-TUFF / CONGLOMERATE Massive to moderately well foliated with clast elongation @ 55° tca. Heterolithic clasts from very fine grained dark green to fine grained reddish-brown and spotted trachyte, generally moderately to well rounded in a fine grained feldspar and sericite groundmass. Clast size varies from 1-2 mm to 2 cm (avg. 1 cm) and from 10-50% of unit; poorly sorted; non-bedded and non-magnetic; lower contact marked by 1.5 cm irregular quartz vein.	6193	14.50	15.00	0.50			Massive Lapilli Tuff Massive to foliated Lapilli Tuff - fault @ 15.85 - 16.00	0.03	
	15.85 - 16.00	Fault @ 52° tca: sericite + quartz/albite schist; strong to moderately sericitized tuff with late, barren white quartz veinlets to 0.5 cm.	6194	15.00	16.00	1.00				0.02	
			6195	16.00	17.00	1.00		Massive undeformed Lapilli Tuff Massive Lapilli Tuff with minor late QV's	0.02		
			6196	17.00	17.70	0.70				0.02	

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

HOLE: AK-90-01

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au *M		
18.40	22.70	17.45 - 17.50	6197	17.70	18.40	0.70		Massive Lapilli Tuff	0.02				
		18.00 - 18.06										Fault @ 67° tea: sericite + chlorite + quartz schist; 1 cm buff-milk white quartz vein with 1 mm wide chlorite selvage in strongly sheared sericite schist.	
		18.20 - 18.40										Fault @ 27° tea: sericite + chlorite + quartz pseudo-brecciated to brecciated white quartz vein within sericite-chlorite schist. Contact zone with ash tuff is strongly sericitized with very irregular quartz ± albite veinlets throughout.	
		ASH TUFF		Massive to poorly bedded dark-grey to green ash tuff. Unit is fine grained and very homogeneous in composition and texture. Non-magnetic, undeformed and very weakly altered with < 1% patchy, wispy sericite.									
		18.70 - 18.90	6198	18.40	19.00	0.60		Massive Ash Tuff with sericite + quartz, fault @ 18.70	0.01				
		19.55 - 19.60	6199	19.00	20.00	1.00		Ash Tuff with minor faulting and quartz	0.01				
		19.80 - 20.10	6200 6201	20.00 21.00	21.00 22.00	1.00 1.00		Massive Ash Tuff Massive Ash Tuff	nil 0.01				
22.45 - 22.60	6202	22.00	22.70	0.70		Massive Ash Tuff with fault breccia @ 22.45	0.01						
22.70	41.20	LAPILLI TUFF Multi-coloured, poorly sorted, non-bedded lapilli tuff with 1 - 25% clasts; clasts vary from aphanitic light red trachyte to pale green sericitized spotted trachyte to dirty brown porphyritic trachyte with phenocrysts to 1 - 2 mm in holocrystalline											
		6203	22.70	23.50	0.80		Massive Lapilli Tuff	0.01					
		6204	23.50	24.00	0.50		Massive Lapilli Tuff - minor late calcite	0.01					

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

HOLE: AK-90-01

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au *M
41.20	50.80	ASH TUFF Unit is generally massive to poorly bedded, very fine to fine grained, dark grey to green to mauve (hematite) and contains < 1% clasts greater than 5 mm. Generally non-magnetic but has some locally strongly magnetic areas; irregular, white quartz veinlets up to 0.5 cm are pervasive throughout.	6223	41.20	42.00	0.80		Fault Zone - Qtz breccia , chlorite and sericite	0.01		
	41.20 - 42.00	Fault Zone - Fault Breccia @ 37° tca: sericite + chlorite + quartz; upper contact marked by a sharp 1 mm chlorite slip with a 2 mm quartz vein; section is semi-massive to foliated fault breccia consisting of fractured and brecciated white to creamy coloured quartz masses and veinlets (10-15%) in a fine grained yellow - green sericitic + chloritic groundmass.	6224	42.00	43.00	1.00		Massive Ash Tuff with 2% late Qtz veinlets	0.01		
	43.32 - 43.40	Fault @ 47° tca: sericite + quartz + chlorite; upper and lower contacts marked by tight, 1 - 5 mm chlorite + quartz vein bounding predominantly sericitic ash tuff.	6225	43.00	44.00	1.00		Massive Ash Tuff - fault @ 43.32 - 43.40	0.02		
	44.66 - 44.75	Fault @ 70° tca: sericite + chlorite + quartz; 4 cm buff to white quartz vein bounded by dark green chlorite and wispy sericite.	6226	44.00	45.00	1.00		Ash Tuff - fault @ 44.66 - 44.75	0.01		
	46.26 - 46.35	Quartz Vein: very irregular quartz vein with moderate to strong sericite alteration at contacts and within 1 - 2 cm inclusion; quartz is milk-white to pinkish and appears to have undergone three periods of silicification.	6227	45.00	46.00	1.00		Massive weakly sericitic Ash Tuff	nil		
	48.90 - 49.30	Well bedded Ash Tuff: very fine grained light grey-green ash tuff with 1 - 2 mm wide purple (hematite) beds @ 62° tca. These beds are cross-cut by 1 - 2 mm wide quartz veinlets with distinct 0.5 - 1 cm alteration (sericite?) halos evident which obliterates bedding proximal to these veinlets.	6228	46.00	47.00	1.00		Massive Ash Tuff with 1% quartz veins	nil		
			6229	47.00	48.00	1.00		Ash Tuff with 1% quartz and chlorite veinlets	0.02		
			6230	48.00	49.00	1.00		Massive Ash Tuff with 1 - 2% quartz veinlets	nil		
	49.30 - 49.38	Fault @ 55° tca: sericite + quartz + chlorite; 3 cm buff-pink to white quartz vein bounded by tight, irregular sericite + chlorite slips.	6231	49.00	50.00	1.00		Bedded Ash Tuff - fault @ 49.30	nil		

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

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au* M
		49.70 - 50.40 Sericite isograd @ 49.70 m: unit becomes weakly, pervasively altered with very fine (<= 1 mm) spotty sericite throughout, leading to highly altered and sheared tuffs.	6232	50.00	50.80	0.80		Weakly sericitic Ash Tuff	0.02	0.05	
50.80	51.65	FAULT ZONE @ 45° tca Sericite + Chlorite + Quartz Very strongly deformed and comprised of 70% sericite, 15% chlorite, 15% quartz; fine grained yellow-green sericite + chlorite encompassing a very fine grained light brown to grey groundmass of sericite + chlorite + quartz.	6233	50.80	51.65	0.85		Fault Zone - sheared Lapilli Tuff	nil		
		51.30 - 51.50 Fine grained reddish-pink trachytic clasts up to 1 cm are evident within a strongly foliated sericite + chlorite schist which gives rise to a "Augen" type texture.									
51.65	52.35	LAPILLI TUFF Moderately well foliated @ 57° tca; heterolithic lapilli tuff with clasts from 2 mm - 7 mm (avg. 3-4 mm), moderately rounded and consisting of 75% brown-green, very fine grained clasts, 10 - 15% fine grained red clasts, 10% sericitized yellow-green clasts; groundmass is well foliated and consists of 75% very fine lithics and 25% sericite	6234	51.65	52.35	0.70		Sericitized Lapilli Tuff	0.05		
52.35	53.50	FAULT ZONE @ 51° tca - Sericite + Chlorite + Quartz Strongly deformed lapilli tuff with patchy and wispy sericite + chlorite in a pseudo-brecciated groundmass of lapilli tuff and 10 - 15% irregular quartz masses outlined by dark chloritic boundaries.	6235	52.35	53.00	0.65		Sericitic fault + Fault Breccia Rubbly core - sericite + chlorite + quartz schist	0.01		
		53.10 - 53.60 Tight chlorite + sericite fault approximately 2 - 3 mm wide running sub-parallel to core axis. Rusty limonitic stain to gouge material.	6236	53.00	53.50	0.50			0.04		

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

HOLE: AK-90-01

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INTERVAL		DESCRIPTION	SAMPLE				DESCRIPTION	ASSAYS			
FROM	TO		No.	FROM	TO	Length		% Rec	Au, g/t	Au, Check	Au *M
53.50	54.10	LAPILLI TUFF Well foliated, multi-coloured, heterolithic lapilli tuff; groundmass is fine grained greyish-brown colour comprising 80% of unit. Clasts comprise 20% of unit and consist of roughly equal proportions of red, reddish-brown, light to dark green, very fine grained trachytic fragments. Clasts are angular to sub-rounded from 2 mm - 1 cm (avg. 0.5 cm); prominent stretching @ 60° tca.	6237	53.50	54.10	0.60		Foliated, moderately sericitic Lapilli Tuff	0.01		
54.10	56.90	FAULT ZONE @ 35° - 40° tca Entire section is comprised of strongly foliated to sheared lapilli tuff with closely spaced (10 - 25 cm) tight sericite + chlorite ± quartz faults throughout; sericite alteration is pervasive and occurs as 5 - 10% fine wisps and spots in highly foliated lapilli tuff, to 85% sericite + 15% chlorite + quartz in fault zones. 56.65 Fault Breccia @ 37° tca: angular white-pink quartz + calcite fragments up to 0.5 cm in a 1 cm wide very fine grained black chloritic matrix.	6238	54.10	55.00	0.90		Strongly sheared, foliated sericitic Tuff	nil		
			6239	55.00	56.00	1.00		Sheared Lapilli Tuff - sericite + chlorite	0.02		
			6240	56.00	56.90	0.90		Strongly sheared sericitic Tuff	0.07		
56.90	59.40	ASH TUFF Unit is fine grained greyish-brown to green, massive to moderately well foliated non-magnetic tuff; alteration consists primarily of pervasive sericitization as thin wisps, laminations, spotty sericite and sericitized clasts ranging from 5 - 15% of unit; secondary quartz + chlorite veinlets up to 5 mm comprise 2% of total	6241	56.90	57.90	1.00		Moderately foliated, sericitic Ash Tuff	0.02		
			6242	57.90	58.90	1.00		Massive to foliated Ash Tuff	0.07		
			6243	58.90	59.40	0.50		Massive sericitic Ash Tuff	0.09		
59.40	60.15	PYRITIC ZONE - (Rehealed Breccia) Unit is yellow-brown to green in colour and is brecciated by fine grained dark grey irregular pyritic band or veinlets generally 1 - 3 mm in thickness and coalescing into masses up to 1 cm wide; pyritic bands are comprised of very fine grained pyrite + quartz, 75% and 25% respectively; host rock is pervasively sericitized and contains 1 - 3% very fine grained disseminated pyrite interstitial to more massive pyritic veinlets; at least 2 stages of quartz flooding are evident as 1) white, narrow <= 5	6244	59.40	59.90	0.50		Pyrite Zone, 5 - 10% pyrite in sericitic Tuff	0.88	0.84	
			6245	59.90	60.40	0.50		Pyrite Zone, 3 - 5% pyrite in sericitic Tuff	0.36		

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

HOLE: AK-90-01

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M	
80.10	80.20	FAULT ZONE @ 17° tca Sericite + Chlorite + Quartz buff to pink quartz + calcite breccia in sericite + chlorite schist; fault marks upper contact of fine grained massive, bleached ash tuff	6261	74.50	75.50	1.00			Massive unaltered Lapilli Tuff	nil		
			6262	75.50	76.50	1.00			Massive unaltered Lapilli Tuff	0.02	0.01	
			6263	76.50	77.50	1.00			Massive unaltered Lapilli Tuff	nil		
			6264	77.50	78.50	1.00			Massive unaltered Lapilli Tuff	0.01		
			6265	78.50	79.50	1.00			Massive unaltered Lapilli Tuff	nil		
			6266	79.50	80.50	1.00			Massive Lapilli Tuff - fault @ 80.10	nil		
80.20	83.10	ASH TUFF / ALTERED LAPILLI TUFF Massive to weakly foliated with weak clast elongation @ 55° tca; unit is buff-brown (bleached?) to greyish-green in colour; framework consists of 5% angular to sub-rounded buff-brown coloured clasts, very fine grained to aphanitic and from 1 - 3 mm in size, and appear to be somewhat altered to sericite; groundmass is fine grained, equigranular composed of 95% feldspar and lithic fragments (indiscernible) and 5% black, fine magnetite grains approximately 0.5 mm in size; unit is therefore strongly magnetic; where groundmass is bleached to a buff-brown colour (possibly sericite alteration), clasts become obliterated and difficult to distinguish. 82.80 - 83.10 Lower contact faulted @ 20° tca: sericite + chlorite + pink-buff quartz; minor (<<1%) coarse, euhedral pyrite along slip face.	6267	80.50	81.50	1.00			Bleached Ash Tuff with 5% Magnetite	0.01		
			6268	81.50	82.50	1.00			Massive to bleached Tuff with 3 - 5% Magnetite	0.01		
			6269	82.50	83.50	1.00			Bleached to unaltered Ash - / Lapilli Tuff	0.02		
83.10	84.75	LAPILLI TUFF Medium to coarse grained dark grey to green, moderately magnetic lapilli tuff; clasts from 1 - 2 mm to 2.5 cm (avg. 4 - 5 mm) in size and comprise 1 - 10% of the unit; clasts are angular to sub-rounded and are buff-brown in colour and very fine grained;	6270	83.50	84.50	1.00			Massive Lapilli Tuff	nil		

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

HOLE: AK-90-01

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
84.75	85.20	matrix is fine grained dark grey-green, equigranular and consists of 65% feldspar, 35% lithics. FAULT ZONE Sericite + Chlorite + Quartz @ 47° tca Leading contact marked by 1 - 2 cm pink-white quartz vein with sharp, black chloritic edges 1 - 2 mm wide; lower contact also marked by 0.5 cm pink-buff quartz vein with 2 - 5 mm sericite + chlorite contacts.	6271	84.50	85.20	0.70		Sericite + Chlorite + Quartz Fault	0.01	0.01	
85.20	87.80	ASH TUFF Fine grained, massive dark-green ash tuff with <= 1% buff-brown lapilli fragments; unit is characterized by patchy buff-brown sericite alteration halos up to 2 cm wide centered on narrow (1 - 5 mm) white-pink quartz veinlets oriented @ 40° tca (25% + sericite); buff-brown alteration halos have very diffuse boundaries grading outward into less altered, sericitic tuffs with 1 - 5% sericite; contact with lower lapilli tuff unit is gradational and is noted by an increase in lapilli size clast content	6272	85.20	86.00	0.80		Ash Tuff with sericitic halos proximal to quartz veins	0.01		
			6273	86.00	87.00	1.00		Ash Tuff with sericite alteration halos	0.01		
			6274	87.00	87.80	0.80		Ash tuff with sericite alteration halos	0.01		
87.80	89.10	LAPILLI TUFF Intercalated ash; unit is quite variable in colour and texture from dark grey-green, brown to brown purple and contains from 1 - 5% sub-rounded, buff-brown trachytic clasts in a fine to very fine grained matrix.	6275	87.80	88.50	0.70		Massive unaltered Lapilli Tuff	0.03		
			6276	88.50	89.10	0.60		Massive Lapilli-/ Ash Tuff with magnetite	0.02		
		88.85 - 89.10 Light brown, fine grained ash tuff with weakly bedded magnetite grains and specks throughout (2 - 3% of total).									
89.10	92.50	LAPILLI TUFF Massive to weakly foliated light to dark green to brown in colour with patchy, strong magnetics throughout; framework consists of sub-rounded clasts from 3 mm - 1.5 cm of buff-brown to pink trachyte and spotted trachyte in a fine grained equigranular ash matrix.	6277	89.10	90.10	1.00		Massive unaltered Lapilli Tuff	0.02		
			6278	90.10	91.00	0.90		Massive weakly sericitic Lapilli Tuff	nil		

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

HOLE: AK-90-01

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au* M
	91.05 - 92.40	Fault @ 78° tea: sericite + quartz; 2 cm wide sericite schist with narrow (2 - 3 mm) quartz veinlets.	6279	91.00	92.00	1.00		Massive Lapilli Tuff - minor sericite alteration	0.01		
	92.20 - 92.40	Fault Zone @ 47° tea: sericite + quartz ± chlorite; strongly foliated, sericitized lapilli tuff with wispy and spotty sericite wrapping around lapilli clasts; 0.5 cm quartz vein + chlorite at lower contact.	6280	92.00	92.50	0.50		Sheared sericitic Lapilli Tuff	nil		
92.50	92.80	POLYMICTIC CONGLOMERATE Narrow interbed of polymictic, jasperoidal conglomerate with 20% angular to well rounded pebbles up to 1.5 cm; contacts are poorly defined and appear to be gradational with bordering lapilli tuffs; unit is pervasively sericitized with 1 - 2% spotty and wispy sericite throughout the matrix.	6281	92.50	93.00	0.50		Massive polymictic conglomerate and Lapilli Tuff	0.01		
92.80	107.50	LAPILLI TUFF Monolithic coarse lapilli tuff (matrix supported); massive, unaltered, undeformed dark-grey to green in colour with 1 - 5% angular buff-brown clasts; clasts vary in size from 1 - 2 mm to 2 - 3 cm (avg. 0.5 - 1 cm) and are predominantly fine grained to porphyritic (spotted) trachyte floating in a dark fine grained chloritic matrix; unit displays patchy strong magnetics throughout.	6282	93.00	94.00	1.00		Massive coarse Lapilli Tuff	0.02		
			6283	94.00	95.00	1.00		Massive Lapilli Tuff fault @ 94.42	0.01	0.01	
			6284	95.00	96.00	1.00		Massive Lapilli Tuff	nil		
			6285	96.00	97.00	1.00		Massive Lapilli Tuff	nil		
			6286	97.00	98.00	1.00		Massive Lapilli Tuff	0.01		
			6287	98.00	99.00	1.00		Massive Lapilli Tuff fault @ 98.70	0.01		
	94.42 - 94.50	Fault @ 50° tea: chlorite + sericite; muddy, tight chlorite + sericite ± quartz; chloritic shear with minor pink-white quartz + quartz breccia.	6288	99.00	100.00	1.00		Coarse Lapilli Tuff	0.02		
			6289	100.00	101.00	1.00		Coarse Lapilli Tuff	0.01		
			6290	101.00	102.00	1.00		Coarse Lapilli Tuff	0.01		
			6291	102.00	103.00	1.00		Coarse Lapilli Tuff	0.01		
			6292	103.00	104.00	1.00		Coarse Lapilli Tuff	0.01		
			6293	104.00	105.00	1.00		Coarse Lapilli Tuff	0.02	0.01	
			6294	105.00	106.00	1.00		Coarse Lapilli Tuff	0.01		
			6295	106.00	107.00	1.00		Coarse Lapilli Tuff	0.01		
			6296	107.00	107.50	0.5		Massive unaltered coarse Lapilli Tuff	0.01		

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

HOLE: AK-90-02

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	October 21-22 1990	EASTING	8300.00
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10175.00
CLAIM No.	L 491663	SIGNED BY	<i>W.B.</i>	ELEVATION	
STARTED	October 18, 1990	DRILLED BY	Heath & Sherwood	LENGTH	123.55
COMPLETED	October 19, 1990	SURVEYED BY		UNITS	metres
		CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ

DEPTH	AZIMUTH	DIP
Collar	341	45
38.10		44
96.00		41

PURPOSE To test 102-8275 Gold Zone
COMMENTS Alteration Zone 54.5-64.0, 9.5 m
 No appreciable sulphide mineralization

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 2.44	CASING	103.75 123.55	GRAYWACKE	63.10 63.65	0.55	0.165
2.44 4.10	ASH TUFF		3 - 4 % sericite			
4.10 11.20	LAPILLI TUFF			103.00 104.00	1.00	0.12
	8.40 - 9.00 Shear Zone @ 24° tca	123.55	E.O.II.			
11.20 54.50	ASH TUFF					
54.50 61.90	BLEACHED ASH TUFF					
61.90 63.60	FAULT ZONE					
	63.55 - 63.60 Quartz Vein @ 35° tca					
	1 - 3 % pyrite					
63.60 64.00	SYENITE					
64.00 69.50	LAPILLI TUFF					
69.50 79.20	ASH - LITHIC TUFF					
	70.45 - 70.80 Sheared , Sericitic					
	74.75 - 75.15 Fault @ 45° tca					
	78.75 - 79.20 Bleached					
79.20 102.35	COARSE LAPILLI TUFF					
102.35 103.75	FAULT ZONE					
	10 - 15 % brecciated quartz veining and chloritic fractures					

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

HOLE: AK-90-02

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INTERVAL		DESCRIPTION	SAMPLE				DESCRIPTION	ASSAYS			
FROM	TO		No.	FROM	TO	Length		% Rec	Au, g/t	Au, Check	Au*M
61.90	63.60	FAULT ZONE Mylonite @ 37° tca: strongly foliated to sheared, sericitized, tuffs; unit displays cataclastic to pseudo-mylonitic texture with wispy to banded sericite (25 - 50%) encompassing stretched and broken lithic clasts up to 5 mm (avg. 1 - 3 mm) in size; groundmass is unrecognizable due to grain destruction; section is cut by 5% irregular quartz masses and veinlets (<= 0.5 cm) which have been brecciated parallel to schistosity and by late cross-cutting, narrow (<= 1 mm) quartz veinlets @ 37° tca (80° to schistosity).	6320	61.90	62.50	0.60		Sheared sericitic Mylonite Sericitic Mylonite	0.01		
			6321	62.50	63.10	0.60			0.01		
			63.20 - 63.50	Broken, rubbly schistose core; sericite schist; very strong, muddy breaks throughout this section.							
	63.50 - 63.60	Quartz vein : Buff to white quartz vein, 5 cm wide, with sharp sericite-chlorite slip face which marks lower contact @ 35° tca; vein displays crack and seal texture with multiple periods of quartz flooding; sericite slips up to 1 mm wide and carrying 1 - 3% pyrite cross-cut late quartz veinlets (1 - 3 mm) (i.e., pyrite mineralization post dates latest quartz veining); these pyritic slips display minor sinistral displacement (<= 1 mm); very minor (<<1%) disseminated pyrite is evident within quartz matrix.	6322	63.10	63.65	0.55		Sericite Schist + 5 cm quartz pyrite vein	0.16	0.17	
63.60	64.00	SYENITE Massive very fine grained to porphyritic and reddish-purple in colour. Matrix is very fine grained to aphanitic with 1 - 2% wispy sericite along micro-fracture planes (<< 1 mm wide). Unit is cut by 3 - 5% late irregular white quartz veinlets at all angles to core axis with prominent, black chloritic margins. 2-5% sub and anhedral, milk-white poorly developed phenocrysts average 0.5 - 1 mm in size. Lower contact fault controlled with 3 - 4 mm wide chlorite + sericite slip and sericite foliation developed in syenite for 1 cm at contact (i.e., post syenite fault) @ 75° tca.	6323	63.65	64.00	0.35		Syenite - late quartz chlorite veining	0.01		

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

HOLE: AK-90-02

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au* M
	81.00 - 81.50	Bleached sericitic zone; leading edge is tight sericite + chlorite slip @ 57° tea; section is yellow-green in colour, massive to moderately foliated with pervasive wispy sericite throughout; lower contact is gradational; lower contact marked by strong, 1.4 m wide fault zone.	6345	81.00	81.50	0.50		Bleached sericitic Lapilli Tuff	0.02		
			6346	81.50	82.00	0.50		Massive Lapilli Tuff - minor bleaching	nil		
			6347	82.00	83.00	1.00		Massive Lapilli Tuff, quartz veins + bleaching	0.02		
			6348	83.00	84.00	1.00		Massive Lapilli Tuff - bleaching	0.02		
			6349	84.00	85.00	1.00		Massive unaltered Lapilli Tuff	0.03	0.02	
			6350	85.00	86.00	1.00		Massive Lapilli Tuff	0.01		
			6351	99.00	100.00	1.00		Massive coarse Lapilli Tuff	nil		
			6352	100.00	101.00	1.00		Massive Lapilli Tuff	nil		
			6353	101.00	101.50	0.50		Massive Lapilli Tuff	nil		
			6354	101.50	102.35	0.85		Massive to foliated Tuff @ fault contact	0.01		
102.35	103.75	FAULT ZONE Fault zone @ 57° tea: sericite + chlorite + quartz schist; strongly sheared to brecciated fault zone comprised of 80% massive sericite (yellow-green colour) plus tight chlorite sericite slips (1 - 2 mm) and massive to brecciated white to grey quartz veins throughout (10 - 15%). Trace fine grained pyrite in chlorite slips. This section may include very fine grained, yellow-green sericitic mudstone with sharp, tight sericite + chlorite boundaries.	6355	102.35	103.00	0.65		Fault zone - sericite schist	0.01		
			6356	103.00	104.00	1.00		Fault zone - sericitic greywacke	0.11	0.13	
103.75	123.55	GREYWACKE Massive, moderately well sorted, grey-green in colour and cut by <= 1% late, barren white quartz veinlets (0.5 - 2 mm), and contains 1 - 2% scattered, angular, aphanitic mudstone clasts up to 10 - 15 cm (avg. 1 - 2 cm) and jasper (1 mm - 3 cm); matrix comprises 95% + of the unit and consists of very fine grained quartz + feldspar + rock fragments in equal amounts; unit is pervasively sericitized with up to 3 - 4% wispy and spotty sericite prevalent throughout; generally non-magnetic.	6357	104.00	105.00	1.00		Sericitic Greywacke @ fault	0.02		
			6358	105.00	106.00	1.00		Massive Greywacke, spotty sericite	0.02		
			6359	106.00	107.00	1.00		Massive Greywacke - mudstone clasts	0.01		
			6360	107.00	108.00	1.00		Massive Greywacke - mudstone clasts	0.01		

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

HOLE: AK-90-03

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	October 23-24 1990	EASTING	8400.00
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10185.00
CLAIM No.	L 491633	SIGNED BY	<i>W. B. Heath</i>	ELEVATION	
STARTED	October 21, 1990	DRILLED BY	Heath & Sherwood	LENGTH	129.50
COMPLETED	October 22, 1990	SURVEYED BY		UNITS	metres
		CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ

DEPTH	AZIMUTH	DIP
Collar	341	45
35.00		43
65.50		42
114.00		41

PURPOSE: To test 102-8425 Gold Zone
 COMMENTS: Alteration Zone 61.90 - 89.00, 27.1 m
 Pyrite Quartz Breccia Zones, 65.75 - 65.90
 71.50 - 72.00, 75.80 - 76.60

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 2.74	CASING	71.50 72.00	PYRITE QUARTZ BRECCIA	65.60 66.10	0.50	0.83
2.74 3.70	LAPILLI TUFF		3 - 5 % pyrite, 50 % Quartz			
3.70 4.00	FAULT ZONE	72.00 75.80	SYENITE	71.40 76.60	5.20	0.62
4.00 8.50	ASH TUFF	75.80 76.60	PYRITE QUARTZ BRECCIA 1 % pyrite	74.10 72.10	0.70	2.135
8.50 16.50	LAPILLI TUFF	76.60 77.35	SYENITE			
16.50 22.70	ASH TUFF	77.35 77.50	FAULT BRECCIA @ 44° tca	75.80 76.60	0.80	0.965
22.70 29.25	SERICITIC ASH TUFF	77.50 89.00	HEMATITIC LAPILLI TUFF			
	22.50 - 29.25 Fault breccia @ 15° tca	89.00 99.50	ASH TUFF			
29.25 52.65	LAPILLI TUFF Hematitic, foliated @ 52° tca		99.35 - 99.50 Fault @ 25° tca			
	33.40 - 33.45 Fault @ 22° tca	99.50 109.60	54.10 - 56.90 Fault Zone @ 40° tca			
	35.97 - 36.45 Fault Zone @ 70° tca		LAPILLI TUFF			
	41.25 - 41.35 Fault @ 30° tca		101.05 - 101.70 Fault @ 18° tca			
	43.00 - 43.16 Sericite Zone @ 10° tca		102.20 - 102.60 Fault @ 55° tca			
52.65 61.90	LITHIC TUFF / LAPILLI TUFF		105.90 - 106.10 Fault Breccia @ 22° tca			
	61.90 Fault @ 55° tca		109.00 - 109.60 Fault @ 25° tca			
61.90 65.75	SERICITIC TUFF / LAPILLI TUFF	109.60 120.85	SERICITIC LAPILLI TUFF			
	62.40 - 62.60 Fault @ 40° tca	120.85 122.00	MUDSTONE			
65.75 65.90	PYRITE / QUARTZ BRECCIA 3-5 % pyrite	122.00 129.50	SERICITIC LAPILLI TUFF			
65.90 71.50	SERICITIC TUFF	129.50	E.O.H.			

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

HOLE: AK-90-03

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au * M	
27.50	29.25	sericitic alteration (bleaching) around margins up to 0.5 cm wide; lower contact marked by strong wide fault breccia.	6369	26.50	27.50	1.00			nil			
		FAULT BRECCIA Very strong muddy fault breccia with upper contact @ 15° tca; unit is very recognizable with distinct red-purple-yellow colouration due to a very fine grained hematized groundmass with wispy sericite; zone displays strong cataclastic texture comprised of angular bright red clasts of hematite (very fine grained) up to 1 cm (avg. 0.5 cm) and what appear to be narrow disrupted hematitic beds 1 mm wide and up to 3 - 4 cm long; groundmass is comprised of fine grained dark green chlorite + hematite + sericite mix and irregular wispy sericite masses; (70% chlorite + hematite, 30% sericite); fault breccia grades into strongly foliated, altered hematized heterolithic lapilli tuff.	6370	27.50	28.50	1.00			Hematitic Fault Breccia	nil		
			6371	28.50	29.25	0.75			Hematitic Fault Breccia	0.02	0.01	
29.25	52.65	LAPILLI TUFF Hematized, heterolithic, coarse lapilli tuff.										
		29.25 - 31.50 Unit is highly deformed and well foliated @ 52° tca and consists of 50% heterolithic clasts of multi-coloured and textured trachytic rocks which are angular to sub-rounded with prominent stretching parallel to foliation (1.2 mm - 7 cm in size); matrix is grey to green, fine grained, sericitized and deformed rock fragments and constitutes 50% of unit; pervasive hematite alteration.	6372	29.25	30.10	0.85			Foliated Hematized Lapilli Tuff	0.02		
			6373	30.10	31.00	0.90			Hematized Lapilli Tuff, 3 cm quartz	nil		
			6374	31.00	31.50	0.50			Foliated Lapilli Tuff	0.01		
		31.50 - 33.40 Unit is somewhat lesser deformed, moderately to well foliated and is cut by 2 - 3% narrow (1 - 3 mm) quartz, quartz + chlorite and quartz + hematite veinlets.	6375	31.50	32.00	0.50				0.01		
			6376	32.00	33.00	1.00				0.02	0.02	
			6377	33.00	33.50	0.50			Foliated Lapilli Tuff - mud break @ 33.40	0.02		
33.40 - 33.45 Fault @ 22° tca: strong tight (2 mm) mud gouge with late quartz (1 mm) infilling on margins.	6378	33.50	34.00	0.50				0.01				
	6379	34.00	35.00	1.00				0.03				
		6380	35.00	35.90	0.90				0.03			

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

HOLE: AK-90-03

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INTERVAL		DESCRIPTION	SAMPLE				DESCRIPTION	ASSAYS			
FROM	TO		No.	FROM	TO	Length		% Rec	Au. g/t	Au.Check	Au*M
	35.97 - 36.45	Fault zone @ 70° tea: sericite + quartz + ankerite; strongly foliated to sheared rusty weathered fault zone with 4 cm brecciated quartz vein @ 36.0 m; sharp sericitic boundaries with minor muddy fault gouge. Fault @ 30° tea: sericite + quartz; 3 cm milk-white to pink, massive quartz vein with sharp sericite slip boundaries. Sericite + chlorite + quartz @ 10° tea: irregular mass of sericite + pseudo-brecciated wall rock within a fractured quartz + chlorite vein; lower contact of unit is faulted with tight sericitic slip and moderate to strong sericite alteration of wall rock.	6381	35.90	36.50	0.60		Sericite + Quartz + Ankerite Fault	0.01		
			6382	36.50	37.00	0.50		Foliated Lapilli Tuff	0.01		
	41.25 - 41.35		6383	37.00	38.00	1.00		Hematized coarse Lapilli Tuff	0.02		
			6384	38.00	39.00	1.00			0.03		
			6385	39.00	40.00	1.00			0.02		
	43.00 - 43.16		6386	40.00	41.00	1.00			0.02		
			6387	41.00	41.50	0.50		Quartz + Sericite fault zone	0.03		
			6388	41.50	42.00	0.50		Massive hematized Lapilli Tuff	0.02		
			6389	42.00	43.00	1.00			0.03		
			6390	43.00	44.00	1.00			0.05	0.07	
			6391	44.00	45.00	1.00			0.02		
			6392	45.00	46.00	1.00			0.02		
			6393	46.00	47.00	1.00			0.02		
		6394	47.00	48.00	1.00			0.01			
		6395	48.00	49.00	1.00			0.02			
		6396	49.00	50.00	1.00			0.02			
		6397	50.00	51.00	1.00			0.02			
		6398	51.00	52.00	1.00			0.01			
		6399	52.00	52.65	0.65			0.03	0.03		
52.65	61.90	LITHIC TUFF / LAPILLI TUFF Zone of intercalated lithic and lapilli tuffs; unit is massive, undeformed light brown to green, non-bedded and non-magnetic; unit is typically fine-medium grained lithic tuff comprised of 80% very fine grained matrix with 20% angular buff-brown lithic fragments, 1 - 3 mm in size; moderately well sorted; section is intercalated (gradational contacts) with clast-rich (25 - 30%) lapilli tuffs with sub-rounded clasts to 2 cm; clasts are 75% red-brown fine grained trachyte; 20% grey-green trachyte; 5% purple-brown fine grained trachyte.	6400	52.65	53.00	0.35		Foliated sericitic Lithic Tuff @ fault contact	0.02		
		6401	53.00	54.00	1.00			0.01			
		6402	54.00	55.00	1.00			0.01			
		6403	55.00	56.00	1.00			0.01			
		6404	56.00	57.00	1.00			0.02			
		6405	57.00	58.00	1.00			0.01			
		6406	58.00	59.00	1.00			0.02			

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

HOLE: AK-90-03

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
61.90	65.75	61.9 Fault @ 55° tea: tight (1 mm) chlorite slip with <<0.5% pyrite + chalcopyrite.	6407	59.00	60.00	1.00			0.02		
			6408	60.00	61.00	1.00			0.02		
			6409	61.00	61.90	0.90			0.03		
		BLEACHED TUFFS - LAPILLI TUFF Massive fine to medium grained lithic - and lapilli - tuff with characteristic spotted, porphyritic texture; groundmass comprises 80% of unit and is light grey-green to brown very fine grained and completely sericitized; matrix is comprised of black, irregular to semi-prismatic amphibole crystals 1 - 2 mm in size and are altered to chlorite and/or hematite; altered hornblende and magnetite grains; occasional large, well rounded clasts to 5 cm are evident, dispersed throughout unit, but display weak, diffuse boundaries due to pervasive sericite alteration; these dark grey clasts are medium grained and porphyritic, with white plagioclase phenocrysts to 1 mm.	6410	61.90	62.40	0.50		Bleached, sericitic 'salt + pepper' Tuff	0.01		
		62.40 - 62.60 Fault @ 40° tea: sericite + chlorite + ankerite; rusty weathered, brecciated and sericitized wall rock fragments in a highly altered sericite + chlorite + ankerite groundmass.	6411	62.40	62.90	0.50		Sericite + chlorite + ankerite Fault Breccia	0.01	0.01	
			6412	62.90	63.50	0.60			0.02		
			6413	63.50	64.00	0.50			0.01		
			6414	64.00	65.00	1.00			0.02		
			6415	65.00	65.60	0.60		Altered, bleached sericitic Tuff	0.01		
65.75	65.90	PYRITE - QUARTZ BRECCIA ZONE Brecciated, white to grey quartz veins and masses centered in tight 0.5 cm sericite + quartz + pyrite ± molybdenite slips @ 62° tea; matrix is comprised of irregular, wispy sericite with 3 - 5% fine disseminated pyrite proximal to quartz breccia; sericite and pyrite content decreases away from vein center with 1 - 3% pyrite up to 7 - 10 cm away from vein.	6416	65.60	66.10	0.50		Pyrite zone = 3 - 5% pyrite in sericite + quartz breccia	0.70	0.96	

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

HOLE: AK-90-03

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au, M
65.90	71.50	BLEACHED TUFFS Massive, pervasively sericitized, lapilli tuff with characteristic yellow-green to buff groundmass with 10 - 15% coarse, angular to sub-rounded altered clasts up to 5 - 7 cm; unit displays spotted porphyritic, pseudo-porphyritic texture with black subhedral to anhedral, chloritized ± hematized crystals (5 - 25%) in a very fine grained, sericitic groundmass.	6417	66.10	67.00	0.90		Sericitized Lapilli Tuff	0.03		
			6418	67.00	68.00	1.00			0.02		
			6419	68.00	69.00	1.00			0.01		
			6420	69.00	70.00	1.00			0.02		
			6421	70.00	71.00	1.00			0.01		
			6422	71.00	71.40	0.40			0.02		
71.50	72.00	PYRITE - QUARTZ BRECCIA ZONE Zone is grey in colour with 10 - 15% brecciated quartz fragments up to 0.5 cm in a very fine grained sericite + quartz + pyrite groundmass (50% quartz, 45% sericite, 3 - 5% pyrite); leading contact marked by very tight (<= 1 mm) chlorite + quartz + pyrite slip @ 65° tea; very minor (< 0.5%) disseminated pyrite occurs in wall rock for 1 - 2 cm outside of this slip plane; lower contact also marked by tight chlorite + quartz + pyrite slip @ 60° tea.	6423	71.40	72.10	0.70		Pyrite Zone = 3 - 5 % pyrite in sericite + quartz breccia	2.13	2.14	
72.00	77.50	SYENITE 72.00 - 74.63 Altered syenite (?); massive fine grained to porphyritic (?) yellow-green in colour with 5 - 10% black, subhedral chloritized phenocrysts (0.5 - 1 mm) in a fine grained sericitic groundmass; upper contact is obscured by pervasive sericite alteration; unit is cut by (1 - 2%) narrow quartz + chlorite veinlets up to 0.5 cm wide @ 40° and 80° tea; unit contains 0.5% disseminated fine pyrite and minor pyrite along chloritic fracture planes; these yellow-green sericitized sections grade into less altered, red syenite with 5% white plagioclase and 7 - 10% black chloritic phenocrysts. 75.80 - 76.60 Fault zone: sericite + quartz ± pyrite.	6424	72.10	73.00	0.90		Sericitized Syenite ?	0.31		
			6425	73.00	74.00	1.00		Sericitized Syenite with 5% quartz veins and < 0.5 % pyrite	0.31		
			6426	74.00	74.60	0.60		Sericitic Syenite with < 0.5% pyrite	0.53		
			6427	74.60	75.10	0.50		Red weakly altered Syenite	0.10		
			6428	75.10	75.80	0.70		Red massive Syenite	0.02		

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

HOLE: AK-90-03

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS					
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au *M		
77.50	89.00	75.80 - 76.20	6429	75.80	76.60	0.80		Sericite + quartz brecciated fault with 0.5 - 1% disseminated pyrite	0.90	1.03			
		76.20 - 76.60											
		77.35 - 77.50	6430	76.60	77.35	0.75		Altered Lapilli Tuff with fault breccia	0.05				
			6431	77.35	77.85	0.50			0.03				
				6432	77.85	78.50	0.65		Bleached, massive Lapilli Tuff	0.02			
				6433	78.50	79.50	1.00			0.02			
				80.00	6434	79.50	80.10	0.60		Bleached Tuff with fault + quartz veins @ 80.0 m Massive Bleached Tuff	0.02		
					6435	80.10	81.00	0.90			0.01		
					6436	81.00	82.00	1.00			0.03	0.02	
					6437	82.00	83.00	1.00			0.01		
			6438	83.00	84.00	1.00		0.01					
			6439	84.00	85.00	1.00		0.01					
			6440	85.00	86.00	1.00		0.01					

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

HOLE: AK-90-04

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	October 25 1990	EASTING	8370.00
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10160.00
CLAIM No.	L 491633	SIGNED BY	<i>W. B.</i>	ELEVATION	
STARTED	October 22, 1990	DRILLED BY	Heath & Sherwood	LENGTH	125.85
COMPLETED	October 23, 1990	SURVEYED BY		UNITS	metres
PURPOSE	To test 102-8250 Gold Zone	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	Alteration Zone. 95.10 - 104.30 , 9.2 m				

DEPTH	AZIMUTH	DIP
Collar	341	45
38.00		45
76.00		42
114.00		39

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 4.87	CASING					
4.87 16.85	ASH TUFF					
16.85 39.55	LITHIC TUFF	104.30 111.83	dislocated 2 cm quartz vein with 7% pyrite	100.00 100.50	0.50	4.71
39.55 81.25	ASH TUFF	111.83 125.85	LITHIC TUFF / LAPILLI TUFF			
	61.85 - 62.55 Sericitic Graywacke 1% pyrite		108.65 - 108.68 Fault Breccia @ 47° tca			
	64.50 - 64.85 Fault @ 50° tca		LAPILLI TUFF			
	67.95 - 69.30 Sericitic		E.O.H.			
	79.60 - 80.10 Fault @ 55° tca					
	79.60 - 81.25 Hematitic					
81.25 94.20	GRAYWACKE / CONGLOMERATE Sericitic					
	88.05 - 88.03 Fault @ 37° tca					
94.20 95.10	FAULT ZONE Sericitic					
	94.20 Mud Gouge @ 40° tca					
	94.40 - 95.10 Schistose , 1 - 2 mm hematitic veinlets					
	20% quartz veinlets					
95.10 99.20	SERICITIC TUFF					
	5 % quartz chlorite veins					
99.20 104.30	ALTERED LAPILLI TUFF					
	Sericitic, "peppered texture"					

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

HOLE: AK-90-04

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
0.00	4.87	CASING									
4.87	16.85	ASH TUFF Massive, undeformed, unaltered dark grey-green in colour; generally fine grained ash with very minor local lapilli clasts scattered throughout; unit is non-bedded and displays patchy, strong magnetics; lower contact obscured due to rubbly core.									
16.85	21.96	LITHIC TUFF Massive to very poorly bedded, fine grained, dark grey-green to light green in colour; unit is comprised of 15 - 30% small, angular to sub-rounded, heterolithic clasts from 0.5 - 3 mm (average 1 mm) in size, in a very fine grained ash matrix; moderately chloritic; strongly magnetic; patchy zones of hematization are notable @ 20.00 - 21.00 metres.									
21.96	23.40	CONGLOMERATE Polymictic, jasperoidal pebble conglomerate bed which is fault bounded; unit is moderately well foliated @ 30° tca, and displays pervasive wispy, sericite alteration throughout; contacts are tight chlorite + sericite + quartz ± ankerite slips @ 35 - 45° tca.									
23.40	39.55	LITHIC TUFF Massive to very poorly bedded, fine grained, dark grey-green to light green in colour; unit is comprised of 15 - 30% small, angular to sub-rounded, heterolithic clasts from 0.5 - 3 mm (average 1 mm) in size, in a very fine grained ash matrix; moderately chloritic; strongly magnetic.									
		29.90 - 30.91 Sericitized tuff, irregular wispy sericite + quartz veining @ 10° tca in a massive fine grained ash-lithic tuff with spotty leucoxene alteration.	6460	29.90	30.40	0.50		Sericitized Tuff	nil		

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

HOLE: AK-90-04

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au *M
39.55	61.85	30.66 - 30.80	6461	30.40	31.00	0.60		Sericitized Tuff with quartz vein	nil		
		37.44 - 37.45									
		39.15 - 39.30	6462	39.00	39.60	0.60		Quartz breccia vein and sericitized tuffs	nil		
		39.30 - 39.55									
ASH TUFF		Massive to well bedded dark grey to green, very fine grained ash tuff; unit displays sporadic zones of cross-bedding with narrow (1 - 3 mm) very fine magnetite beds @ 10 - 35° tca; unit is intercalated with narrow (up to 0.5 metres) lithic and lapilli tuff beds which typically display gradational contacts, and minor conglomerate interbeds (up to 25 cm) which also have gradational contacts.									
61.85	62.55	57.97 - 52.00	6463	57.10	57.60	0.50		Quartz breccia vein with sericitized groundmass	0.01		
		57.20 - 57.50									
		GRAYWACKE		Massive to weakly foliated graywacke with pervasive sericite alteration with 3 - 5% wispy sericite in a fine grained chloritic matrix; unit contains 0.5 - 1% disseminated pyrite occurring as very fine subhedral grains and pyritic clots to 1 mm; bedding contact is sharp but irregular @ 10 - 15° tca.							
		6464	61.80	62.60	0.80		Graywacke bed with 0.5 - 1% disseminated pyrite	0.02			

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

HOLE: AK-90-04

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au *M
62.55	67.95	ASH TUFF Massive to well bedded dark grey to green, very fine grained ash tuff; unit displays sporadic zones of cross-bedding with narrow (1 - 3 mm) very fine magnetite beds @ 10 - 35° tea; unit is intercalated with narrow (up to 0.5 metres) lithic and lapilli tuff beds which typically display gradational contacts, and minor conglomerate interbeds (up to 25 cm) which also have gradational contacts.									
	63.40 - 63.60	Fault @ 27° tea: sericite + chlorite ± quartz; strong, tight (1 - 2 mm) sericite slip @ 63.40 and 63.60 metres; interstitial material is foliated, sericitic tuff with <1% narrow quartz veinlets (1 - 2 mm) and tight (<1 mm) chloritic slips throughout.	6465	62.60	63.20	0.60		Patchy sericite, altered Ash Tuff	nil		
			6466	63.20	63.70	0.50		Fault zone @ 63.40 m	0.01		
			6467	63.70	64.40	0.70		Massive, weakly sericitic Ash Tuff	0.01	0.02	
	64.50 - 64.85	Fault @ 50° tea: sericite + chlorite + quartz ± calcite.									
	64.50 - 64.53	Tight chlorite + sericite slip with 3 cm wide pseudo-brecciated buff-white quartz vein with wispy sericite.	6468	64.40	65.00	0.60		Fault zone with 25 - 30% quartz veining and masses	0.01		
	64.53 - 64.70	Well foliated, sericitized tuff.	6469	65.00	66.00	1.00		Massive Ash Tuff - weak sericite	0.01		
	64.70 - 64.85	15 cm irregular quartz mass with cross-cutting ladder type quartz veinlets (<= 1 mm) in a fine grained sericitic tuff.	6470	66.00	67.00	1.00		Ash Tuff with 5% sericite + quartz	0.03		
			6471	67.00	67.90	0.90		Massive Ash Tuff	0.01		
67.95	70.01	LITHIC TUFF									
	67.95 - 69.30	Bleached (sericitized) pale yellow-green coloured tuff with 1 - 2% dark green, altered lithic fragments; upper contact is abrupt, lower contact very gradational.	6472	67.90	68.50	0.60		Bleached sericitized Lithic Tuff	0.01		
			6473	68.50	69.50	1.00		Massive Lithic Tuff	0.01		
	69.30 - 70.10	Light green to grey, massive to poorly bedded lithic tuff with 15 - 20% angular, heterolithic clasts 1 - 4 mm in size weakly aligned @ 10 - 15° tea in a very fine grained light green ash matrix; lower contact gradational with ash tuffs.	6474	69.50	70.10	0.60			0.02		

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

HOLE: AK-90-04

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au *M
70.01	79.60	ASH TUFF Massive to well bedded dark grey to green, very fine grained ash tuff; unit displays sporadic zones of cross-bedding with narrow (1 - 3 mm) very fine magnetite beds @ 10 - 35° tea; unit is intercalated with narrow (up to 0.5 metres) lithic and lapilli tuff beds which typically display gradational contacts, and minor conglomerate interbeds (up to 25 cm) which also have gradational contacts.	6475	79.00	79.50	0.50		Massive, weakly sericitic Tuff	0.01		0.02
79.60	81.25	HEMATIZED ASH TUFF 79.60 - 80.10 Fault zone; sericite + chlorite + quartz + hematite; very sharp, tight (1 mm) chlorite slip @ 55° tea marks leading contact; section is dark green to purple in colour with 3% irregular quartz masses in a very fine grained green to purple, sericite + hematized unit with 1% late irregular quartz veins and brecciated masses up to 2 - 3 cm wide; lower contact is tight chlorite + quartz slip @ 40° tea.	6476	79.50	80.10	0.60		Hematized Tuff with 3% quartz veining and tight chloritic slips	0.02		
			6477	80.10	80.90	0.80		Hematized Tuff with 1% quartz	0.02		
			6478	80.90	81.40	0.50		Hematized Tuff + Graywacke	0.01		
81.25	94.20	GRAYWACKE / CONGLOMERATE Massive to moderately foliated polymictic pebble conglomerate and graywacke, light to dark green in colour; unit is pervasively sericitized with 5 - 10% sericite development in matrix and selective sericitization of certain clasts (mafic volcanics?) within the conglomerates; this section is also intercalated with very fine grained, red-brown to purple, hematized, ash tuff beds (?), up to 0.5 metres wide, which display gradational contacts with surrounding sediments.	6479	81.40	82.10	0.70		Massive weakly sericitic Graywacke	0.02		
			6480	82.10	83.00	0.90			0.02		
		83.85 Fault @ 32° tea; tight chlorite + sericite slip with 0.5 cm quartz vein on south wall.	6481	83.00	84.00	1.00			0.02		
			6482	84.00	85.00	1.00		Hematized Tuff and Graywacke	0.02		0.01
		85.02 - 85.13 Vuggy, buff-pink irregular quartz vein with open cavities up to 0.5 cm partially infilled with drusy quartz, calcite and a few euhedral pyrite crystals.	6483	85.00	85.50	0.50		Hematized Tuff with vuggy quartz vein	0.01		
			6484	85.50	86.00	0.50			0.01		
			6485	86.00	87.00	1.00			0.02		

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

HOLE: AK-90-05

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	October 27 1990	EASTING	8450.00
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10175.00
CLAIM No.	L 491633	SIGNED BY	<i>[Signature]</i>	ELEVATION	
STARTED	October 24, 1990	DRILLED BY	Heath & Sherwood	LENGTH	121.55
COMPLETED	October 25, 1990	SURVEYED BY		UNITS	metres
		CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ

DEPTH	AZIMUTH	DIP
Collar	341	45
38.00		44
84.00		42
114.00		41

PURPOSE To test 102 - 8425 Zone
COMMENTS Alteration Zone 57.50 - 79.95, 22.45m (Weak),
 Quartz Pyrite Zone 58.20 - 62.35, 4.15m

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 8.50	CASING					
8.50 58.20	LAPILLI TUFF					
	32.00 Fault @ 35° tca			58.00 62.00	4.00	0.154
	38.75 - 39.12 Fault @ 35° tca			82.00 96.00	4.00	0.118
	56.00 Fault @ 60° tca					
58.20 62.35	QUARTZ PYRITE ZONE					
	Altered, brecciated Lapilli Tuffs,					
	5 - 10 % pyrite, 10 - 15 % Quartz					
62.35 75.95	GRAYWACKE					
	5 % Sericite					
75.95 79.90	SYENITE					
79.90 121.55	GRAYWACKE / CONGLOMERATE					
	80.0 - 86.0 Sericitic graywacke and mudstone,					
	0.5 - 1 % pyrite					
	93.0 - 95.4 Mudstone					
121.55	E.O.H.					

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

HOLE: AK-90-05

PAGE: 2 of 7

INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
0.00	8.50	CASING									
8.50	58.20	LAPILLI TUFF Coarse monolithic lapilli tuff; unit is massive to weakly foliated @ 50° tca; matrix is fine grained, light gray-green to purple where hematitic (patchy throughout) and constitutes 90 - 95% of unit; clasts comprise 5 - 10% of unit and consist predominantly of light buff-brown to grayish fine grained to porphyritic trachyte which range in size from 2 - 3 mm to 5 cm (avg. 1 cm) and are generally angular to sub-rounded; unit is strongly magnetic, unaltered, undeformed.									
		29.75 - 30.45 Buff to white to pink (multi-phase) quartz vein running sub-parallel to core axis; vein displays banded appearance with interstitial wispy sericite; late bull quartz.									
		32.00 - 32.23 Fault @ 35° sericite + ankerite + chlorite; rusty weathered, ankeritic sericite schist with tight chloritic margins.									
		38.75 - 39.12 Fault @ 35° tca: sericite + ankerite + quartz; rusty, ankeritic fault with 10% late, white quartz veinlets and stockwork in wall rock.	6512	38.50	39.20	0.70		Rusty weathered quartz + ankerite Fault	0.02		
			6513	54.00	55.00	1.00		Massive Lapilli Tuff	0.01		
			6514	55.00	56.00	1.00			nil		
		56.00 - 56.05 Fault @ 60° tca: sericite + chlorite + gouge; strong muddy break with fault gouge on slip faces; upper contact very sharp; lower contact grades to foliated, sericitic tuffs for 0.5 metres.	6515	56.00	56.50	0.50		Fault zone @ 56.0 with 0.5m sericitic Tuffs	0.01		
			6516	56.50	57.00	0.50			0.01		
		57.50 - 58.20 Weakly foliated, weakly sericitic lapilli tuff with notable pyrite replacement of selective clasts which are dark gray in colour, angular clasts up to 0.5 cm.	6517	57.00	58.00	1.00		Massive Lapilli Tuff - weak sericite	0.02		

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

HOLE: AK-90-05

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
58.20	62.35	QUARTZ - PYRITE ZONE Altered + brecciated lapilli tuff; zone is highly altered to brecciated lapilli tuff with gradational contacts marked by notable increase in sericite alteration, pyrite content, quartz veining and blue-gray (pyrite + molybdenite) diffuse alteration zones with 5 - 10% pyrite and 10 - 25% quartz.									
	58.20 - 58.22	1 - 2 cm white, pseudo-brecciated quartz vein on down hole side of tight chloritic slip @ 42° tca; this slip face is sheared by a very fine grained, blue-gray sulphide mass (pyrite ± molybdenite or galena) mass.	6518	58.00	58.50	0.50			0.10		
	58.22 - 59.00	Altered tuff: blue-gray to green coloured, altered lapilli tuff with a very fine grained sericite + pyrite matrix with 3 - 5% disseminated pyrite and pyritic altered clasts (semi-massive pyrite) up to 0.5 cm; zone is cut by at least three stages of quartz veining: buff-white to cream, massive to in-situ brecciated quartz veins up to 1 - 2 cm wide, sub-parallel to foliation, which tend to have strong pyritic margins up to 3 mm wide in the wall rock; no pyrite within quartz vein; two stages of late cross-cutting quartz veinlets (1 - 3 mm wide) at low angles to core axis, and transecting earlier quartz veinlets, with no pyrite.	6519	58.50	59.00	0.50			0.13		
	59.00 - 59.35	Quartz Breccia: light gray to green angular pyritic wall rock fragments cemented and brecciated by light gray to white quartz and later cut by cross-cutting (extensional) ladder veins (1 - 2 mm wide); quartz contains little to no pyrite while the wall rock and wall rock fragments carry 5 - 10% finely disseminated pyrite.	6520	59.00	59.50	0.50			0.16	0.19	

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

HOLE: AK-90-05

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au *M
	59.35 - 60.00	Altered Tuff; light gray-green sericitic matrix with blue-gray alteration patches (very fine sulphides) which display irregular, diffuse alteration fronts; matrix contains 1 - 3% disseminated pyrite.	6521	59.50	60.00	0.50			0.12		
	60.00 - 60.60	Altered Tuff; sericitized tuff with 3 - 5% disseminated pyrite cut by 5 - 10 % quartz, quartz + chlorite veinlets.	6522	60.00	60.50	0.50			0.25	0.25	
	60.60 - 62.00	Sericitic tuffaceous groundmass with 3 - 10% disseminated pyrite, brecciated by multiphase, milk-white to gray quartz veins and masses up to 0.5 metres wide.	6523	60.50	61.00	0.50			0.07		
			6524	61.00	61.50	0.50			0.28	0.26	
			6525	61.50	62.00	0.50			0.11		
	62.00 - 62.35	Strongly to moderately sericitic groundmass with 0.5 - 1% disseminated pyrite, cut by 2 - 3% late, buff-white quartz veinlets; lower contact of unit is gradational with gradual decline in pyrite content to 1% at 62.3 metres.	6526	62.00	62.50	0.50			0.02		
62.35	75.95	GRAYWACKE Massive to weakly foliated @ 50° tca; dark gray to green matrix comprised of quartz, feldspar and rock fragments in roughly equal proportions with approximately 5% pervasive sericite; unit contains 1 - 5% angular, very fine grained, light gray-green mudstone clasts up to 3-4 cm in size, randomly distributed throughout; unit is also intercalated with narrow (<= 0.5 metre) pebble-rich conglomerate beds with gradational contacts; non-magnetic.									
			6527	62.50	63.00	0.50		Massive Graywacke with mudstone clasts	0.02		
	63.55 - 63.95	Chlorite slip, sub-parallel to core axis with 1 - 2 cm wide late white quartz vein and 1% smeared pyrite along slip face.	6528	63.00	64.00	1.00		Massive Graywacke - weakly sericitic	0.07		

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

HOLE: AK-90-05

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
			11834	64.00	65.00	1.00		<0.5%, 0.1-0.5 cm quartz ± chlorite veinlets, trace pyrite	0.01		
			11835	65.00	66.00	1.00		as above	0.01		
			11836	66.00	67.00	1.00		as above	0.01		
			11837	67.00	68.00	1.00		Sericitic Graywacke	nil		
			11838	68.00	69.00	1.00		Sericitic Graywacke	0.01		
			11839	69.00	70.00	1.00		10 - 20% sericitic mudstone clasts or disrupted beds up to 20 cm wide	0.01		
			11840	70.00	71.00	1.00		as above	0.01		
			11841	71.00	72.00	1.00		40% sericitic Mudstone, 1% chlorite ± quartz veinlets with trace pyrite	nil		
			11842	72.00	73.00	1.00		1 - 3 mm quartz + chlorite + hematite veinlet with trace pyrite at 72.50	0.01	0.01	
	73.25 - 74.00	Chlorite + quartz vein sub-parallel to core axis; late white quartz on chloritic slip with minor blebby chalcopyrite masses (<<0.5%).	6542	73.00	74.00	1.00		Quartz vein - parallel to core axis, minor chalcopyrite	0.01		
			6529	74.00	75.00	1.00		Massive Graywacke - mudstone clasts	0.03		
	75.75 - 75.95	Altered rock; strongly sericitized, massive unit with 5% black, chloritic spots (phenocrysts?) and black chloritic rims around irregular white feldspars up to 2 - 3 mm in size, in a fine grained sericitized matrix; possibly altered syenite?	6530	75.00	75.50	0.50		Graywacke	0.01		
			6531	75.50	76.00	0.50		Contact zone - sericitized syenite?	0.01		

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

HOLE: AK-90-05

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
75.95	79.90	SYENITE									
		75.95 - 76.40 Massive, dirty green-brown colour, with 10% black anhedral chloritized crystals (?), 1 - 2 mm in size, and 2 - 3% white, irregular, milk-white quartz and/or feldspar "clots" in a fine grained, red-green, sericitic matrix; this section grades into more typical, red coloured syenite with 3-5% irregular, white quartz/feldspar masses up to 1 cm (avg. 3 mm) in a fine grained red-brown matrix; characteristic "snowflake" type texture (alteration product?).	6532	76.00	77.00	1.00		Massive Syenite	0.01		
			6533	77.00	78.00	1.00			0.01		
			6534	78.00	79.00	1.00			0.01		
		79.00 - 79.90 Unit grades to yellow-green sericitized syenite with 10% black needle-like phenocrysts, 1 - 3 mm in size, in a very fine grained light green matrix; lower contact is sharp and irregular, marked by 1 - 3 mm wide sericite + chlorite ± quartz + 1 - 2% fine pyrite; contact is offset by later quartz + chlorite slips and veinlets @ 33° tca with 1 - 2 cm of apparent dextral displacement; unit is cut by 1 - 2% transecting quartz veinlets up to 1 cm wide @ 40° tca.	6535	79.00	80.00	1.00		Sericitized Syenite with pyritic contact 1 - 3 mm wide	0.04		
79.90	121.55	GRAYWACKE / CONGLOMERATE									
		Massive, fine grained, grey-green graywacke with minor intercalated conglomerate beds up to 35 cm wide; unit typically contains 1 - 2%, yellow-green, aphanitic mudstone clasts up to 5 cm in size, generally very angular, in a fine grained, equigranular graywacke matrix (quartz + rock fragments); unit also contains minor angular fuchsitic (lime-green) clasts, generally less than 1 cm in size; matrix is pervasively sericitized with up to 3 - 5% wispy sericite; unit also contains 0.5 - 1% disseminated pyrite in matrix and also occasionally in mudstone clasts and a few cross-cutting quartz veinlets 1 - 5 mm in width @ 30 - 50° tca; unit is typically non-magnetic.	6536	80.00	81.00	1.00		Sericitized Graywacke + Conglomerate	0.05		
			6537	81.00	82.00	1.00		Graywacke with mudstone clasts and 0.5% disseminated pyrite	0.04		
			6538	82.00	83.00	1.00			0.15		
			6539	83.00	84.00	1.00			0.03		
			6540	84.00	85.00	1.00			0.16	0.15	
			6541	85.00	86.00	1.00			0.15		
			6543	87.00	88.00	1.00		Sericitic Graywacke with mudstone clasts + 0.5% pyrite	0.06		
			6544	88.00	89.00	1.00			0.08	0.07	

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

HOLE: AK-90-06

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	October 29 1990	EASTING	8340.00
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10210.00
CLAIM No.	L 491663	SIGNED BY	<i>W. P. ...</i>	ELEVATION	
STARTED	October 26, 1990	DRILLED BY	Heath & Sherwood	LENGTH	71.80
COMPLETED	October 27, 1990	SURVEYED BY		UNITS	metres
PURPOSE	To test 102-8350 Gold Zone @ 25m depth, 10m west of AK-90-01	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	Alteration Zone 25.00 - 43.60, 18.6 m Quartz + Pyrite Zone 26.42-29.07, 2.65 m				

DEPTH	AZIMUTH	DIP
Collar	341	45
42.00		44

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	CASING	32.90 40.37	BLEACHED TUFF	26.00 30.00	4.00	7.64
3.00 10.10	FAULT ZONE Foliation @ 45 - 50° tca	40.37 71.80	5 - 10 % Sericitic 37.40 - 40.37 Quartz veining sub-parallel to core axis	which includes the following		
10.10 25.00	8.55 - 9.45 Sericite Schist @ 47° tca LAPILLI TUFF Altered, Hematitic		LAPILLI TUFF Coarse, monolithic	26.40 30.00	3.60	8.46
	13.50 Fault @ 17° tca	71.80	40.37 - 43.60 Weakly sericitic			
	17.00 - 17.90 Fault Breccia @ 30° tca, 10 % quartz chlorite veins		43.60 Fault @ 60° tca			
	22.30 Fault gouge @ 35° tca		69.47 - 70.20 Fault Zone			
25.00 26.42	ALTERED TUFF Sericitic, 0.5 % pyrite		E.O.H.			
26.42 29.07	QUARTZ PYRITE ZONE Sericitic Tuffs with 3 - 5 % pyrite, 5% quartz breccia veins with 1 - 3 % pyrite					
29.07 30.00	ALTERED TUFF Sericitic, 0.5 - 1.0 % pyrite					
30.00 32.90	SYENITE 31.70 - 32.00 Sericitic, 10% quartz veins					

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

HOLE: AK-90-06

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
0.00	3.00	CASING									
3.00	10.10	FAULT ZONE Strongly deformed and altered conglomerates and intercalated ash tuff horizons displaying varying degrees of deformation from pseudo-brecciated to brecciated with well developed cataclastic texture to sericite schist and mud gouge; prominent foliation @ 45 - 50° tca.									
	3.00 - 5.20	Pseudo-brecciated and brecciated conglomerate strongly foliated to cataclastic type texture with broken and fractured clasts, and crushed matrix.	6557	3.00	4.00	1.00			nil		
			6558	4.00	5.00	1.00			0.02		
	5.20 - 6.00	Bleached, sericitized tuff (light green to white) with strong ankeritic shear @ 15 - 20° tca.	6559	5.00	6.00	1.00			0.01		
	6.00 - 8.55	Massive to moderately well foliated conglomerate and lapilli tuff cut by 10% quartz veinlets and masses up to 2 cm wide; matrix contains 10 - 15% wispy sericite.	6560	6.00	7.00	1.00			nil		
			6561	7.00	8.00	1.00			nil		
			6562	8.00	8.50	0.50			nil		
	8.55 - 9.45	Sericite schist; strongly deformed unit with semi-massive laminated sericite schist developed @ 47° tca; at 9.45 sharp mud break with sericite + chlorite gouge.	6563	8.50	9.50	1.00			nil		
	9.45 - 10.10	Sericite + ankerite; rusty weathered, ankeritic zone with minor quartz veining (<=1%).	6564	9.50	10.50	1.00			0.03		

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

HOLE: AK-90-06

PAGE: 3 of 7

INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
10.10	25.00	<p>LAPILLI TUFF Altered tuff; red-brown to purple to light green coloured, deformed and altered lapilli tuff; unit is comprised of 10 - 20%, heterolithic, subrounded clasts up to 2-3 cm, which quite frequently display diffuse boundaries due to pervasive bleaching (sericitization) of matrix; matrix is fine grained, typically crushed, with 10 - 15% interstitial, wispy sericite pervasive throughout; unit is cut by 3 - 5% irregular quartz stockwork with at least two stages of quartz flooding evident:</p> <p>1) irregular quartz masses and veinlets subparallel to foliation @ 40° tca which are often stretched and boudinaged; 2) later, cross-cutting ladder vein system of veinlets 1 - 2 mm wide at right angles to foliation;</p> <p>Unit carries very minor amounts of blebby and disseminated pyrite.</p> <p>13.50 - 13.60 Fault @ 17° tca: sericite + chlorite + quartz; upper contact irregular and gradational sericite alteration grading to sericite schist; lower contact sharp, tight, chlorite + sericite slip.</p> <p>17.00 - 17.90 Fault Breccia @ 30° tca: strongly deformed, sericitized tuffs with 10% quartz + chlorite veins up to 1 cm brecciating altered wall rock fragments; also angular wall rock fragments to 0.5 cm in black, aphanitic chlorite groundmass.</p> <p>17.35 - 17.60 Rubbly broken core approximately 35% recovery; some minor pyrite evident on chloritic slips.</p> <p>20.50 - 20.80 Sericite + ankerite schist; rubbly core.</p>									
			6565	10.50	11.00	0.50			0.08	0.07	
			6566	11.00	12.00	1.00			nil		
			6567	12.00	13.00	1.00			nil		
			6568	13.00	13.50	0.50			nil		
			6569	13.50	14.00	0.50			0.02		
			6570	14.00	15.00	1.00			0.01		
			6571	15.00	16.00	1.00			nil		
			6572	16.00	17.00	1.00			0.01		
			6573	17.00	18.00	1.00		Fault breccia	0.01		
			6574	18.00	19.00	1.00			nil		
			6575	19.00	20.00	1.00			0.01	0.01	
			6576	20.00	21.00	1.00			0.01		
			6577	21.00	22.00	1.00			0.01		

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

HOLE: AK-90-06

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au *M
		also occurs along narrow (<=1 mm) irregular fracture planes which carry 5 - 10% finely disseminated pyrite.									
	26.60	0.01 by 1 mm smeared Native Gold grain along pyritic fracture plane.									
	26.85 - 27.60	Sericitized tuff; section is fine grained, yellow-green pervasively sericitized tuff (occasional remnant clasts) with 1% disseminated pyrite in matrix and cut by 1% narrow (<=1 mm) sericite + chlorite + pyrite slips containing 3 - 5% fine pyrite; pyrite replacement also evident within clasts and as blue-grey, irregular anastomosing masses < 1 cm wide; zone also contains tight slips (< 1 mm wide) with blue-grey hue of aphanitic, smeared sulphides which may include molybdenite and/or galena?	6585	27.00	27.50	0.50		Sericitized Tuff with 3% pyrite and minor quartz	3.91	3.94	
	27.60 - 28.75	Sericitized tuff with 2% quartz breccia veins and 1 - 3% disseminated pyrite in matrix.	6586	27.50	28.00	0.50		Sericitic Tuff with 2 - 3 % quartz, 3% disseminated pyrite	7.17	7.17	
	28.75 - 29.07	Sericitized tuff with 5% quartz breccia mass 30 cm wide with 1 - 3% pyrite; lower contact is sharp, blue-grey sericite + pyrite schist 2 - 3 mm wide, with brecciated quartz slip face @ 75° tca.	6587	28.00	28.50	0.50		Sericitized Tuff with 1% quartz, 1 - 3% pyrite	8.22	9.24	
			6588	28.50	29.10	0.60		Sericitized Tuff with 5% quartz, 2 - 3% pyrite	4.97	4.87	
	29.07 - 30.00	Light green massive sericitized tuff with <=0.5 - 1% disseminated pyrite in matrix and minor tight (<=1 mm) blue-grey smeared sulphides and small pyrite dollars up to 1 mm on chlorite + sericite slips @ 15° tca.	6589	29.10	30.00	0.90		Sericitized Tuff with 0.5% pyrite	2.09	1.61	

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

HOLE: AK-90-06

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au *M
30.00	32.90	<p>SYENITE Red-brown to dark red, massive, fine grained, equigranular groundmass; unit contains 5% wispy sericite interstitial to red, fine grained matrix, giving rise to weak foliation @ 55° tca; unit displays characteristic snowflake texture with 2 - 3% white, irregular, quartz and/or feldspar clots, up to 3 - 4 mm in size, which occasionally are rimmed with dark, aphanitic chlorite and hematite; unit is cut by 3 - 5% thin (1 - 2 mm) white quartz veinlets @ 45 - 50°, generally on very tight chlorite slips, sub-parallel to each other, and by earlier irregular quartz veins and occasional breccia veins (wall rock within quartz) up to 1 cm wide; minor coarse pyrite occurs along chlorite slips and as occasional clots in syenite; upper contact is sharp and irregular with strongly sericitized tuffs; lower contact is sharp with strong sericite alteration of footwall rocks.</p> <p>31.70 - 32.00 Unit contains 10% quartz stockwork veins in moderately sericitized syenite.</p>	6590	30.00	31.00	1.00		Massive Syenite - minor quartz veinlets	0.03		
			6591	31.00	31.50	0.50			0.08		
			6592	31.50	32.00	0.50		Quartz stockwork in sericitized syenite	0.02		
			6593	32.00	33.00	1.00		Massive Syenite + 10 cm sericitic altered wall rock	0.02		
32.90	40.37	<p>BLEACHED TUFF Dark grey-green to brown, sheared, altered and bleached and appears to contain intercalated ash- and lapilli-tuff beds; ash tuff component is grey-green in colour with 10 - 15% black crystals, lath shaped and quite frequently broken, up to 1 mm in size, and moderate lineation fabric developed @ 50° tca; matrix is very fine grained with 5 - 10% pervasive sericite; crystal tuff?; tuff is intercalated with highly altered, coarse lapilli tuff beds which are comprised of very fine grained to aphanitic, soft, sericitic, dirty brown matrix and 5 - 10% coarse grained 1-2 cm clasts; these clasts show strongly corroded and diffuse boundaries due to alteration and have a coarse igneous texture to them.</p>	6594	33.00	34.00	1.00		Bleached crystal Tuff at Syenite contact	0.01		
			6595	34.00	35.00	1.00		Bleached Lapilli Tuff	0.01		
			6596	35.00	36.00	1.00			nil		
			6597	36.00	37.00	1.00			nil		

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

HOLE: AK-90-06

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M	
40.37	71.80	37.40 - 40.37	Unit is cut by buff-white to pink to grey multi-phase quartz veins with interstitial, wispy sericite and small quartz breccia veinlets (<=0.5 cm) cemented by black, chloritic groundmass; these veins are sub-parallel to core axis and contain minor, sporadic, subhedral pyrite.		6598	37.00	37.40	0.40	Bleached Tuff with multiphase quartz veins subparallel tca	0.02		
			6599	37.40	38.00	0.60	nil					
			6600	38.00	39.00	1.00	nil					
			6601	39.00	39.50	0.50	0.01					
			6602	39.50	40.40	0.90	nil					
		LAPILLI TUFF Coarse monolithic lapilli tuff.										
		40.37 - 43.60	Massive, dark green ash matrix which has bleached, light brown, irregular sericitic patches with diffuse boundaries; these bleached zones tend to be proximal to narrow, 1 - 2 mm quartz veinlets and irregular masses up to 1 - 2 cm; unit has distinct patchwork appearance.	6603	40.40	41.00	0.60	Coarse Lapilli Tuff with sericite alteration halos around quartz veinlets		nil		
				6604	41.00	41.50	0.50	nil				
				6605	41.50	42.50	1.00	Sericitic altered Lapilli Tuff		nil		
				6606	42.50	43.50	1.00	nil				
43.60 - 71.80	Unit is characteristically comprised of 80 - 85% dark green fine grained equigranular matrix and 15 - 20% angular to sub-rounded clasts up to 5 cm (avg. 1 cm); clasts are comprised predominantly of red-pink to brown fine grained to porphyritic trachyte (75 - 80% of clasts) with lesser amounts of various lithic clasts; unit is cut by 1% late white-pink quartz veinlets @ 20 - 45° tca; unit is strongly magnetic.	6607	43.50	44.50	1.00	Massive Lapilli Tuff	nil					
		6608	44.50	45.00	0.50	0.01						
		6609	45.00	46.00	1.00	nil	nil					
	43.60	Fault @ 60° tca; strong tight 0.5 cm sericite schist with mud gouge.										
	69.47 - 70.20	Fault Zone @ 60° tca: sericite + chlorite + quartz; strongly foliated to brecciated tuff with strong mud breaks and quartz breccia with chloritic groundmass up to 5 cm adjacent to mud breaks.	6610	69.40	70.30	0.90	Fault breccia + mud gouge in strongly deformed Lapilli Tuff	nil				
	71.80	E.O.H.										

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

HOLE: AK-90-07

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	October 30 1990	EASTING	8250.00
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10165.00
CLAIM No.	L 491663	SIGNED BY	<i>W. B. ...</i>	ELEVATION	
STARTED	October 27, 1990	DRILLED BY	Heath & Sherwood	LENGTH	108.20
COMPLETED	October 28, 1990	SURVEYED BY		UNITS	metres
PURPOSE	To test '102' structure between 8275 and 8170 zones	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	Quartz - chlorite vein zone: 80.50 - 85.15 m				

DEPTH	AZIMUTH	DIP
Collar	341	45
38.00		43
80.00		42

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 2.44	CASING	77.70 78.55	MUDSTONE	80.50 85.20	4.70	1.53
2.44 16.30	CONGLOMERATE / GRAYWACKE	78.55 80.50	78.15 - 78.55 Fault @ 37° tca	which includes the following		
16.30 19.50	6.81 - 7.20 Fault @ 32° tca	80.50 85.15	LAPILLI TUFF	80.50 84.00	3.50	2.01
19.50 25.50	ASH TUFF	85.15 108.20	80.50 Fault gouge @ 52° tca	83.00 84.00	1.00	5.56
25.50 26.38	CONGLOMERATE		QUARTZ CHLORITE BRECCIA ZONE			
26.38 29.70	ASH TUFF		Sericitic Graywacke, 15% quartz, quartz + chlorite and chlorite breccia veins, 0.5 - 1% pyrite			
29.70 32.50	LITHIC TUFF		GRAYWACKE			
32.50 34.85	29.25 Fault @ 43° tca		Weakly to moderately sericitic, 1% chlorite breccia veins			
34.85 71.90	29.60 - 29.70 Fault @ 30° tca		101.60 - 101.62 Fault @ 40° tca			
	GRAYWACKE		104.10 - 105.00 0.5% pyrite			
	FAULT ZONE @ 10 - 15° tca		E.O.H.			
	ASH TUFF / LAPILLI TUFF					
	Massive to well bedded @ 10° tca					
	57.34 Fault @ 40° tca					
	59.95 Fault @ 30° tca					
71.90 73.70	FAULT ZONE @ 32° tca					
73.70 77.70	73.35 Fault gouge					
	GRAYWACKE					
	Weakly Sericitic					

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

HOLE: AK-90-07

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au* M
19.50	25.50	<p>CONGLOMERATE Coarse grained polymictic pebble conglomerate with 5 - 30% well rounded pebbles up to 4 cm (avg. 1 cm) in a dark green, fine grained graywacke matrix; contains very minor pyrite blebs up to 1 cm which appear to be replacing certain pebble clasts; locally weakly magnetic.</p> <p>20.00 - 21.40 Cemented with white quartz, interstitial to pebble framework and matrix.</p>									
25.50	26.38	<p>ASH-TUFF Very fine grained dark green, well bedded @ 10° tca; bedding is marked by 1-2 mm wide dark magnetite beds approximately 0.5 to 1 cm apart.</p> <p>Note: Although bedding planes run parallel to core axis, lithological change is abrupt and appears to be at right angles to core axis but contacts are somewhat marked by irregular quartz veinlets.</p>									
26.38	29.70	<p>LITHIC-TUFF / GRAYWACKE Massive, medium grained light to dark green, 50 - 60% lithic clasts, angular to well rounded and ranging in size from 1 - 3 mm (well sorted) with moderate elongation fabric @ 50° tca; matrix is very fine grained, light green in colour and quite soft (sericitic); contains minor jasper clasts, as do the graywackes, but there is little or no quartz in the matrix.</p> <p>28.10 - 29.70 Grades into heterolithic lapilli and ash tuff. 29.25 Fault @ 43° tca: sharp tight (1 - 2 mm) chlorite + sericite slip.</p>	6611	28.00	29.00	1.00			0.01	0.01	

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

HOLE: AK-90-07

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
	29.60 - 29.70	Fault @ 30° tca: sericite + chlorite + ankerite + quartz; 1.5 cm wide white to buff quartz vein with strong sericitic margins 1-2 cm up-hole from a tight sericite + chlorite + ankerite slip face; adjacent wall rock is moderately sericitized for 3 - 5 cm around vein and fault slip.	6612	29.00	29.80	0.80		Sericitic Tuff with quartz vein and fault slip	0.01		
29.70	32.50	GRAYWACKE Massive, dark green to grey-green, fine to medium grained; matrix of 10-15% quartz, 30% feldspars and 55-65% heterolithic rock fragments including jasper; matrix is also pervasively sericitized with 1-2% spotty, wispy sericite; cut by 1% white to pink quartz veinlets.	6613	29.80	30.50	0.70		Sericitic Graywacke	nil		
			6614	30.50	31.00	0.50			nil		
			6615	31.00	32.00	1.00			0.01		
			6616	32.00	32.50	0.50			0.01		
32.50	34.85	FAULT ZONE Fault zone @ 10°-15° tca; very strongly deformed fault zone of sericite + quartz + chlorite + calcite; quartz is dirty brown to buff white as veins and brecciated masses and comprises 35-40% of unit; matrix is reddish-brown to green and completely crushed and altered to sericite as pervasive alteration and as wispy foliation planes; strong, tight (<= 1 mm) chlorite + sericite + calcite slip sub-parallel to core axis displays strong slickensides with 50° rake.	6617	32.50	33.00	0.50		Strongly deformed Fault Zone subparallel to core axis	nil		
			6618	33.00	34.00	1.00			nil		
			6619	34.00	34.90	0.90			0.01		
34.85	71.90	ASH-TUFF / LAPILLI-TUFF Zone of intercalated ash- and lapilli-tuff with very sharp to gradational contacts; ash-tuffs are massive to well bedded @ 10° tca, dark grey-green and very fine grained; bedding is derived from thin (<= 1 mm) magnetite beds which quite often display weak cross bedding; ash- and lapilli-tuff beds are 0.5 to 1 metre wide; lapilli-tuff is medium grained heterolithic, with clasts averaging 2-4 mm (0.1 - 1 cm) of very	6620	34.90	36.00	1.10		Massive Ash Tuff	0.01		

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

HOLE: AK-90-07

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au *M
		masses which are brecciated by black, aphanitic chlorite slips; upper contact is sharp 1-3 mm wide brecciated quartz vein with black, chloritic groundmass; lower contact is sharp, tight sericitic slip.	6633	71.90	72.40	0.50		Bleached Tuffs in strongly foliated to schistose fault zone with 10% quartz and quartz breccias	0.02		
		73.35 Mud gouge, 0.5 cm wide.	6634	72.40	73.00	0.60			0.03		
			6635	73.00	73.70	0.70			0.01		
73.70	77.35	LAPILLI-TUFF Light brown to green to purple (hematized), 5% sub-rounded clasts up to 4 cm, in a fine grained, bleached ash matrix; clasts are light green to brown to pinkish, generally fine grained trachyte, and frequently have diffuse boundaries due to penetrative sericite alteration; unit is cut by 2-3% white quartz veinlets 1-3 mm wide; lower contact is tight sericite shear with 2 cm quartz vein.	6636	73.70	74.50	0.80		Hematized Lapilli Tuff - 1% quartz veins	0.03		
			6637	74.50	75.00	0.50		Bleached, hematite + sericite altered Tuffs with 1 - 2% quartz veinlets	0.02		
			6638	75.00	76.00	1.00			0.02		
			6639	76.00	77.00	1.00			0.02	0.02	
			6640	77.00	77.70	0.70		Sericitized Ash Tuff with minor graywacke	nil		
77.35	77.70	GRAYWACKE Medium grained, dark green graywacke with minor quartz veining (1%) and 2-3% spotty sericite in matrix; lower contact is sharp sericitic slip with 1.5 cm quartz vein.									
77.70	78.55	MUDSTONE Massive aphanitic dark green mudstone with <1% cross cutting quartz veinlets.	6641	77.70	78.15	0.45		Massive aphanitic Mudstone	0.04		
		78.15 - 78.55 Fault @ 37° tca; upper contact is sheared dark green mudstone with sericitic parting, leading to dirty brown quartz + ankerite vein 6 - 7 cm wide, which tends to be vuggy and infilled with lime muds and altered mudstone clasts.	6642	78.15	78.55	0.45		6 cm wide quartz + ankerite vein	0.01		

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

HOLE: AK-90-07

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au *M
78.55	80.50	<p>LAPILLI-TUFF Dark green to reddish brown lapilli-tuff which contains 1 - 2% cross cutting quartz veinlets which display buff-brown sericite alteration halos up to 2 cm wide and with irregular alteration fronts; lower contact is strong mud break @ 52° tca.</p>	6643	78.55	79.20	0.65		Weakly sericitic Lapilli Tuff Bleached sericite halos with 2 - 3% quartz veinlets	0.01		
			6644	79.20	79.70	0.50			nil		
			6645	79.70	80.50	0.80			0.02		
80.50	85.15	<p>QUARTZ + CHLORITE + PYRITE BRECCIA Stockwork zone of yellow-green, sericitic graywacke which is brecciated by 15% quartz, quartz + chlorite and chlorite breccias and by narrow, dark quartz chlorite veinlets to give a pseudo-brecciated, "crack and seal" appearance to the unit; graywacke matrix is pervasively sericitized and carries 0.5-1% patchy disseminated pyrite in places. These breccias display four distinct characteristics:</p>									
		1) Pseudo-brecciated, "crack and seal" texture with <= 1 mm black chlorite ± quartz stringers, pseudo-brecciating graywacke matrix with 0-0.5% disseminated, patchy, pyrite;	6646	80.50	81.00	0.50		Brecciated Graywacke with 0.5% pyrite	2.23	2.21	
		2) Chlorite breccia veins up to 30 cm wide with angular wall rock clasts up to 1-2 cm in a black, aphanitic chlorite groundmass ;	6647	81.00	82.00	1.00			0.03		
		3) Chlorite + quartz breccia veins; black aphanitic chlorite + quartz groundmass with inclusions of angular wall rock (graywacke) and white to grey quartz fragments; this more siliceous breccia tends to have up to 1% disseminated pyrite, while the chlorite breccias appear to be pyrite poor;	6648	82.00	83.00	1.00			0.33		
		4) Bluish-grey quartz veins up to 1 - 2 cm wide which carry 2 - 3% disseminated pyrite and pyrite along fracture planes.	6649	83.00	84.00	1.00		Pseudo brecciated Graywacke, 0.5% pyrite + blue grey quartz veins (1-2 cm) with 2 - 3% pyrite Sericitic Graywacke with 1 - 2% chlorite breccia and < 0.5% disseminated pyrite Pseudo brecciated Graywacke with 0.5% pyrite	5.45	5.66	
			6650	84.00	84.50	0.50			0.11		
			6651	84.50	85.20	0.70		0.18			

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

HOLE: AK-90-08

PAGE: 1 of 8

PROPERTY	Amalgamated Kirkland	DATE LOGGED	October 31 1990	EASTING	8190.00
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10165.00
CLAIM No.	L 491663	SIGNED BY	<i>W. B.</i>	ELEVATION	
STARTED	October 28, 1990	DRILLED BY	Heath & Sherwood	LENGTH	123.45
COMPLETED	October 30, 1990	SURVEYED BY		UNITS	metres
		CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ

DEPTH	AZIMUTH	DIP
Collar	341	45
40.00		43
80.00		40
114.00		40

PURPOSE To test 102 - 8170 zone
COMMENTS Quartz + Pyrite zone: 75.90 - 76.55, 2.55m
in Mudstone/Siltstone

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 3.20	CASING	68.10 70.50	ASH TUFF	44.00 44.50	0.50	1.19
3.20 43.60	CONGLOMERATE	70.50 72.00	GRAYWACKE			
	7.20 Fault @ 28° tca	72.00 73.85	LAPILLI TUFF	74.00 76.55	2.55	3.58
	26.90 Fault @ 45° tca	73.85 95.75	MUDSTONE / SILTSTONE			
	28.65 Fault @ 25° tca		75.90 - 76.55 3 - 5% Pyrite, silicified			which includes the following
	34.35 Fault breccia @ 40° tca		87.60 Fault @ 32° tca			
	42.20 Fault gouge @ 40° tca	95.75 106.15	LAPILLI TUFF / ASH TUFF	75.85 76.55	0.70	10.04
43.60 48.00	FAULT ZONE (Mylonite)		99.40 Fault @ 05° tca			
	Sericitic, chloritic, quartz breccia veins	106.15 107.80	BLEACHED GRAYWACKE	116.20 116.80	0.60	0.07
	44.13 - 44.40 10% finely disseminated pyrite	107.80 112.15	LAPILLI TUFF			
48.00 48.62	ALTERED LAPILLI TUFF	112.15 115.50	GRAYWACKE			
	Strongly to weakly sericitic	115.50 118.00	LAPILLI TUFF			
48.62 61.30	BLEACHED LAPILLI TUFF		Weakly sericitic			
	Hematitic, sericitic		116.25 - 116.50 5 cm gray quartz vein, 1 - 3% pyrite			
	57.15 Fault @ 30° tca	118.00 121.85	GRAYWACKE			
61.30 64.40	SILTSTONE / MUDSTONE	121.85 123.45	ASH TUFF			
64.40 65.00	GRAYWACKE					
	5 - 10% Sericite	123.45	E.O.H.			
65.00 68.10	FAULT @ 00° tca					

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

HOLE: AK-90-08

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au *M
0.00	3.00	CASING									
3.00	3.20	DIABASE Medium grained, massive dark green from end of casing shoe; core is somewhat rubbly and lower contact is not visible to determine whether it is in situ or not.									
3.20	43.60	CONGLOMERATE Massive to weakly foliated dark grey to green, polymictic pebble conglomerate; clasts are angular to well rounded and range from 2 mm to 3 cm (avg. 5 mm) as 25-35% of unit; prominent clast elongation @ 50° tca; matrix is very fine grained, light to dark green, chloritic, 60% lithics, 25% feldspar, and 15% quartz; locally strongly magnetic; intercalated with pebble poor, graywacke beds up to 1 metre wide, with generally very gradational contacts noted by a gradual decline in pebble component.									
	7.20 - 7.33	Fault @ 28° tca: sericite + ankerite; rusty weathered, rubbly core section; upper contact is rubbly ankeritic sericite schist; lower contact is irregular, tight sericite slip with mud gouge.									
	26.90 - 27.35	Fault zone @ 45° tca: sericite + chlorite + quartz; 70% buff-white to pink, fractured and broken quartz with 25% interstitial, wispy sericite and 5% tight (<= 1 mm) chlorite + sericite slips; this fault zone is cut by a later fault @ 22° tca which is a tight sericitic, muddy slip.	6664	26.80	27.40	0.60		Fault zone	0.01	0.01	
	28.65 - 28.90	Fault @ 25° tca: sericite + chlorite + quartz; upper and lower contacts are sharp, tight sericitic slips with minor gouge; interstitial material is sericitic graywacke with 15% brecciated and fractured, white to pink quartz.	6665	28.50	29.00	0.50		Fault zone	0.01		
	34.35 - 34.42	Fault breccia @ 40° tca; white to pink brecciated quartz fragments to 0.5 cm in a fine grained, dark green, chlorite + sericite groundmass.	6666	39.00	39.50	0.50		Massive Graywacke	nil		

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

HOLE: AK-90-08

PAGE: 5 of 8

INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
61.30	64.40	SILTSTONE / MUDSTONE Very fine grained, massive, dark green siltstone with minor intercalated light green aphanitic mudstone beds up to 1 cm wide; very well layered, massive and non-magnetic. 63.20 - 63.75 Blocky, rubbly core due to chlorite slip sub-parallel to core axis.									
64.40	65.00	GRAYWACKE Fine grained, light green-brown, massive graywacke with 5-10% pervasive sericite in matrix; contact with mudstone is somewhat irregular but sharp.	11551	64.00	65.00	1.00		Bleached Graywacke	0.02		
65.00	68.10	FAULT ZONE Fault @ 0° tca: extremely rubbly broken core (60-70% recovery) due to sericite + chlorite + quartz + ankerite fault running sub-parallel to core axis.	11552	65.00	66.00	1.00		Fault zone parallel to core axis	0.01		
			11553	66.00	67.00	1.00	60		0.01		
			11554	67.00	68.10	1.10	60		0.01		
68.10	70.50	ASH-TUFF Fine grained, massive, dirty grey-brown ash-tuff cut by numerous tight chlorite slips; quite soft (sericitic) and non-magnetic; lower contact marked by irregular white to pink quartz vein 4 cm wide, symmetrically centered on a tight sericite slip.	11555	68.10	69.00	0.90			0.01		
			11556	69.00	70.00	1.00			0.01		
			11557	70.00	70.55	0.55			0.02		
70.50	72.00	GRAYWACKE Fine grained, massive, light grey-green graywacke with 1% irregular wispy mudstone bands up to 3 mm wide; lower contact marked by irregular 1 cm quartz vein @ 15° tca.	11558	70.55	71.00	0.45			0.01		
			11559	71.00	72.00	1.00			0.01		
72.00	73.85	LAPILLI-TUFF Fine to medium grained, light brown-white, spotted textured matrix, comprised of 25% subhedral (lath shaped) chloritized amphibole crystals in a fine grained grey-white groundmass; clasts are 2-3% of unit as light red to grey trachyte fragments to 3 cm (avg. 1 cm) often with diffuse boundaries; lower contact is sharp @ 67° tca.	11560	72.00	73.00	1.00			0.01		
			11561	73.00	73.55	0.55			0.01		
			11562	73.55	74.00	0.45			0.01	0.01	

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

HOLE: AK-90-08

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
73.85	95.75	MUDSTONE / SILTSTONE Finely laminated, light yellow-green to brown aphanitic mudstone beds intercalated with very fine grained dark green siltstone beds; bedding from a few millimetres to 2 cm in thickness; unit shows evidence of "S" shaped, small scale folding and disrupted bedding by small scale micro-faults; bedding @ 40°-55° tca.	6687	74.00	75.00	1.00		Well laminated Mudstone / Siltstone	2.06	2.09	
	75.90 - 76.55	QUARTZ-PYRITE ZONE 0.5 mm wide wispy pyrite + sericite slips with 3-5% very fine pyrite and 0.5-1% disseminated pyrite in adjacent wall rock; grey-green, quite hard (silicified) and marked by 1 cm wide, light grey quartz breccia vein with 1% pyrite @ upper contact; in part intercalated with narrow lapilli-tuff interbeds < 0.5 metre wide.	6688	75.00	75.85	0.85		Mudstone with 1 - 3% disseminated to wispy pyrite ± quartz	0.03		
			6689	75.85	76.55	0.70			9.96	10.12	
			6690	76.55	77.55	1.00		Intercalated Mudstone / Lapilli Tuff	0.03		
			6691	77.55	78.00	0.45			nil		
			6692	78.00	79.00	1.00			0.02		
			11563	79.00	80.00	1.00			0.01		
			11564	80.00	81.00	1.00			nil		
			11565	81.00	82.00	1.00			0.01		
			11566	82.00	83.00	1.00			0.02		
			11567	83.00	84.00	1.00			0.03		
			11568	84.00	85.00	1.00			0.02	0.02	
			11569	85.00	86.00	1.00			0.02		
			11570	86.00	87.00	1.00			0.02		
			11571	87.00	87.50	0.50			0.01		
	87.60 - 87.80	Fault @ 32° tca: sericite + chlorite + quartz; buff-brown altered matrix cut by 10% white-grey late quartz veinlets throughout; upper contact is irregular white-pink 3 cm quartz vein on tight chlorite + sericite slip.	6693	87.50	88.00	0.50		Fault Zone	0.01		
			6694	88.00	89.00	1.00		Massive Mudstone/Siltstone	nil		
			6695	89.00	90.00	1.00			nil		
			6696	90.00	91.00	1.00			nil		
			6697	91.00	92.00	1.00			0.01		
			6698	92.00	93.00	1.00			0.02		
			6699	93.00	94.00	1.00			0.01		

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

HOLE: AK-90-08

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
95.75	106.15	<p>LAPILLI-TUFF / ASH-TUFF Massive fine grained grey-brown to green, predominantly well sorted ash tuff with <= 1% angular trachytic clasts to 2 cm, light green to grey in colour; cut by 3% late white quartz veinlets up to 1 cm and by minor chlorite slips and chlorite breccia veins up to 1 cm wide.</p> <p>99.40 - 100.10 Fault @ 05° tca; tight chloritic slip sub-parallel to core axis, with 2-3 cm wide quartz and quartz breccia vein with angular quartz fragments up to 0.5 cm in a dark chlorite + sericite groundmass.</p> <p>102.87 - 103.20 Chloritic slip sub-parallel to core axis with white to pink brecciated quartz vein.</p>									
106.15	107.80	<p>BLEACHED GRAYWACKE Massive, fine grained with a bleached light green-white matrix; some lithic fragments are bright green (fuchsitic) and generally very fine grained (< 0.5 mm); contains a few well rounded pebble clasts up to 1 cm as well as minor jasper within matrix; upper and lower contacts are gradational with irregular, diffuse alteration front evident in surrounding tuffs.</p>									
107.80	112.15	<p>LAPILLI-TUFF Massive, dark green, chloritic ash matrix with 5-10% angular to sub-rounded lapilli clasts, light grey-green to black to pink, poorly sorted, 1 mm - 2 cm; cut by 3-5% white quartz veinlets @ 45° tca, 1-3 mm in width; locally weakly magnetic; lower contact sharp @ 70° tca and marked by 1-2 mm quartz vein.</p>									
112.15	115.50	<p>GRAYWACKE Light to medium green massive, undeformed graywacke with 1% pebble clasts up to 1 cm (avg. 3 mm); contains minor angular mudstone clasts and thin interbeds (<= 1 cm); lower contact is sharp and irregular.</p>	6700	113.00	114.00	1.00				nil	
			6701	114.00	115.00	1.00			Graywacke with mudstone interbeds and <0.5% wispy pyrite	nil	
			6702	115.00	115.50	0.50				nil	

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

HOLE: AK-90-09

PAGE: 1 of 8

PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 2 1990	EASTING	8150.00
TOWNSHIP	Teek	LOGGED BY	Mark Masson	NORTHING	10155.00
CLAIM No.	L 491663	SIGNED BY	<i>W. B. [Signature]</i>	ELEVATION	
STARTED	October 30, 1990	DRILLED BY	Heath & Sherwood	LENGTH	124.00
COMPLETED	October 31, 1990	SURVEYED BY		UNITS	metres
		CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
PURPOSE	To test 102 - 8170 zone				

DEPTH	AZIMUTH	DIP
Collar	341	45
38.00		44
80.00		42
114.00		41

COMMENTS

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 3.30	CASING					
3.30 72.00	LAPILLI TUFF	86.00 91.80	85.65 Fault gouge @ 40° tca	93.65 94.25	0.60	11.25
	8.50 Fault @ 60° tca	91.80 93.70	LAPILLI TUFF			
	29.00 - 36.38 Hematitic		MUDSTONE / SILTSTONE			
	36.38 - 37.55 Fault @ 55° tca	93.70 94.20	Bedding @ 22° tca - 65° tca			
	37.55 - 38.60 Sericitic		QUARTZ - PYRITE ZONE			
	58.25 - 58.80 Mudstone	94.20 110.25	3 - 5% pyrite, 5% quartz			
72.00 74.75	MUDSTONE		MUDSTONE / SILTSTONE			
74.75 79.00	LAPILLI TUFF	110.25 124.00	107.55 Fault @ 45° tca - 50° tca			
	Trace pyrite		GRAYWACKE / MUDSTONE			
	76.70 Fault @ 35° tca					
79.00 80.50	ASH TUFF	124.00	E.O.H.			
80.50 83.10	LAPILLI TUFF					
83.10 85.00	ALTERED LAPILLI TUFF					
	5 - 10% Sericite					
	83.80 - 83.95 Quartz vein					
	84.00 Fault gouge @ 40° tca					
85.00 85.65	GRAYWACKE					
85.65 86.00	MUDSTONE					

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

HOLE: AK-90-09

PAGE: 2 of 8

INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au *M
0.00	3.30	CASING									
3.30	36.38	LAPILLI-TUFF Massive to weakly foliated @ 50° tca, dark grey-green to purple, consisting of 15-20% lithic clasts in a fine grained ash matrix (80-85%); clasts are angular to sub-rounded, from 2 mm to 8 cm (avg. 0.5 cm), poorly sorted, matrix supported, and consist of light grey to buff to pink, very fine to medium grained trachyte; matrix is fine grained, equigranular dark green to purple (where hematitic) and is comprised of 35% angular, light green trachytic clasts (0.5-1 mm) in a fine grained, greyish-white, feldspathic groundmass (60-65%); matrix also contains 1-3% finely disseminated magnetite in places; unit is strongly magnetic.									
	8.50 - 8.57	Fault @ 60° tca: chlorite + quartz + ankerite; upper and lower contacts are sharp, tight chloritic slips; inter-slip material is dirty brown to pink, multiphase, quartz + ankerite veining.									
	10.50 - 10.65	Broken rubbly core with strong ankerite staining and moderate sericite development; unit is readily discernible by its dark green-purple matrix and pink clasts.									
	22.00 - 29.00	Unit is transected by 1-2% late, barren, white to pink quartz veinlets (1-3 mm wide) @ 40°-70° tca.	6707	28.00	29.00	1.00		Hematized Lapilli Tuff with 1% late quartz	0.01	0.05	
	29.00 - 36.38	Unit is strongly hematitic with dark to reddish-purple alteration colours predominant; this section is cut by 3-5% white to pink quartz veinlets, 1-3 mm wide and at various orientations to core axis to give a stockworked appearance to the unit; this alteration is probably related to the strong fault zone @ 36.38 m, and becomes increasingly stronger towards this fault.	6708	29.00	30.00	1.00		Strongly hematized, weak to moderately foliated Lapilli Tuff with 3 - 5% quartz stockwork veining	nil		
			6709	30.00	31.00	1.00			nil		
			6710	31.00	32.00	1.00			0.01		
			6711	32.00	33.00	1.00			0.02		
			6712	33.00	34.00	1.00			0.01		
			6713	34.00	35.00	1.00			nil		
			6714	35.00	35.50	0.50			nil		

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

HOLE: AK-90-09

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		No.	FROM	TO	Length % Rec		DESCRIPTION	Au, g/t	Au, Check
36.38	37.55	FAULT ZONE: Fault zone @ 55° tca: sericite + chlorite + quartz; highly deformed zone of sericite schist, brecciated quartz and fault gouge; upper contact is sharp chlorite + sericite slip with a 2 cm wide brecciated quartz vein with angular quartz fragments to 1 cm (avg. 1-2 mm) in a fine grained, chlorite + sericite groundmass; zone is comprised predominantly of 80-85% pervasive to wispy chlorite + sericite schist with 15-20% irregular, brecciated quartz masses up to 1 cm wide; lower contact is strong mud break with white to pink quartz 1 cm wide.	6715	35.50	36.35	0.85		0.01		
			6716	36.35	37.00	0.65	Fault Zone	0.01		
			6717	37.00	37.60	0.60		0.01	0.03	
37.55	46.20	LAPILLI-TUFF - HETEROLITHIC Massive, comprised of 10-15% sub-angular to well rounded heterolithic clasts in a light green, fine grained matrix; clasts range in size from 2-3 mm to 5 cm (avg. 1 cm) and are quite variable from dark green to grey to pink fine grained to spotted, porphyritic trachytes; matrix comprises 80-85% of unit and consists of very fine grained chloritized lithics (pale green) in a white aphanitic groundmass. Note: This unit looks very much like a conglomerate due to the rounded clasts; however, the matrix contains no visible quartz and the clasts are predominantly trachytic, although variable in colour and texture. 37.55 - 38.60 Unit is well foliated, moderately sericitic and cut by 1% quartz veinlets, lower contact sharp, tight, chlorite slip @ 60° tca.	6718	37.60	38.60	1.00	Well foliated Tuff with 1% quartz veinlets	nil		
			6719	38.60	39.50	0.90		nil		
			6720	39.50	40.00	0.50		nil		

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

HOLE: AK-90-09

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		No.	FROM	TO	Length % Rec		DESCRIPTION	Au, g/t	Au, Check
46.20	72.00	<p>LAPILLI-TUFF 5-10% angular trachytic clasts, up to 4 cm (avg. 1 cm), in a fine grained, medium to dark green trachytic ash matrix; clasts are generally fine grained light grey-green, buff or brown, floating in a very fine grained matrix; moderately to strongly magnetic, massive and undeformed.</p> <p>48.00 Fault @ 42° tca: tight sericite + chlorite slip boundaries with 0.5 cm wide, white to pink brecciated quartz.</p> <p>58.25 - 58.80 Massive, dark grey-green aphanitic mudstone interbed with sharp contacts @ 20° tca; lower contact of unit is sharp @ 10° tca with 1-2 cm, pink-white irregular quartz vein.</p>	11662	70.70	71.70	1.00		0.01		
72.00	74.75	<p>MUDSTONE Massive, dark green aphanitic mudstone with sharp contacts @ 10°-15° tca; cut by 1% late white to pink quartz veinlets (1-4 mm wide).</p>	11663	71.70	72.70	1.00		0.01		
			11664	72.70	73.90	1.20		nil		
			11665	73.90	75.00	1.10		nil		
74.75	79.00	<p>LAPILLI-TUFF - HETEROLITHIC Massive, consisting of 10% angular to sub-rounded dark green to brown coloured trachytic clasts, up to 3 cm, in a fine grained trachytic ash matrix; contains very minor zones with <= 0.5% disseminated pyrite; lower contact is sharp @ 20° tca.</p> <p>76.70 - 76.85 Fault @ 35° tca: upper and lower contacts are sharp, tight sericite + chlorite slips with minor irregular quartz adjacent to slips (0.5 to 1 cm wide); interstitial material is foliated sericitized tuff with very minor pyrite (<<0.5%).</p>	6721	75.00	76.00	1.00		0.01		
			6722	76.00	76.50	0.50		0.01		
			6723	76.50	77.00	0.50		0.01		
			6724	77.00	78.00	1.00		0.01		
			11829	78.00	79.00	1.00	Sericitic Tuff with fault and 0.5% pyrite	0.02		

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

HOLE: AK-90-09

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au* M
79.00	80.50	ASH-TUFF Massive, light to dark green, fine grained trachytic ash with <1% lapilli sized clasts; strongly magnetic; lower contact is gradational with coarser grained lapilli tuffs.	11830	79.00	80.00	1.00			0.01		
			11831	80.00	81.00	1.00		< 0.5% quartz veinlets , 0.5% 1mm chlorite + hematite veinlets	0.01		
80.50	83.80	LAPILLI-TUFF - HETEROLITHIC 80.50 - 83.10 Massive to weakly foliated, dirty green-brown matrix (1-3% sericite) with 15-20% angular trachytic clasts to 4 cm (avg. 1 cm). 83.10 - 83.80 Moderately deformed with 5% wispy and spotty sericite throughout matrix and cut by numerous, tight, chloritic slips.	11832	81.00	82.00	1.00		1% quartz + chlorite + hematite veinlets with trace pyrite in wall rocks	0.01		
			11833	82.00	83.00	1.00		< 0.5% chlorite + quartz + hematite veinlets	0.01		
83.80	84.35	FAULT ZONE Fault zone @ 40° tca. 83.80 - 83.95 Quartz Vein: vein boundaries are tight chlorite + sericite slip; vein material is massive bull-white quartz with 5% wispy chlorite + sericite stringers and chloritized wall rock fragments within vein. 84.00 0.5 cm wide mud gouge on sericite slip. 84.00 - 84.35 Well foliated, sericitized tuff with 1% irregular quartz masses and veinlets up to 1 cm.	6725	83.00	83.80	0.80			0.01		
			6726	83.80	84.40	0.60		Fault zone with 15 cm quartz vein and sericitized Tuffs	nil		
84.35	85.00	SERICITIZED LAPILLI-TUFF Moderately well foliated, light yellow-green in colour with 5-10% pervasive and spotty sericite alteration throughout; clasts are angular, form 1-2% of unit and display strong sericite alteration; lower contact somewhat gradational.	6727	84.40	85.00	0.60		Sericitized Lapilli Tuff	nil		

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

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec.	DESCRIPTION	Au. g/t	Au. Check	Au *M
85.00	85.65	GRAYWACKE Massive, light green, very fine grained with 3-5% well rounded quartz grains (<= 0.5 mm) in a light green feldspathic matrix; contains minor irregular light green mudstone clasts; lower contact is a strong mud break, 0.5 cm wide @ 40° tca.	6728	85.00	85.65	0.65		Massive Graywacke	0.01		
85.65	86.00	MUDSTONE Massive, dark green to blackish, aphanitic mudstone; lower contact is very sharp and irregular with minor displacement evident on chlorite slip @ 35° tca.	6729	85.65	86.00	0.35		Mudstone	0.01	0.02	
86.00	91.80	LAPILLI-TUFF									
	86.00 - 89.50	Dirty brown-green fine grained matrix with 2-3% coarse angular trachytic clasts up to 5 cm; these clasts are dark green fine grained and buff to pink coloured porphyritic trachyte; this dirty, bleached zone grades into non-bleached, dark green lapilli tuffs.	6730	86.00	86.50	0.50		Dirty brown 'bleached' Lapilli Tuff	nil		
			6731	86.50	87.10	0.60		Mudstone interbed	nil		
			6732	87.10	88.00	0.90			nil		
	86.70 - 87.10	Dark green, massive, aphanitic mudstone interbed with sharp irregular contacts.	6733	88.00	89.00	1.00			nil		
			6734	89.00	89.50	0.50		Dirty brown 'bleached' Lapilli Tuff	nil		
			6735	89.50	90.00	0.50			nil		
			6736	90.00	91.00	1.00			0.01		
			6737	91.00	91.80	0.80			nil		
91.80	110.25	MUDSTONE / SILTSTONE Massive to well laminated with light yellow-green aphanitic mudstone beds (1 mm - 1 cm wide) intercalated with dark green, very fine grained siltstone beds; unit has very rhythmic layering with mudstone beds displaying convoluted bedding, flame structures and rip up clasts; bedding varies from 22° to 65° tca; in part interbedded with minor ash- and lapilli-tuff horizons up to 0.5 metres wide which display very sharp, but often irregular contacts.	6738	91.80	92.50	0.70		Massive laminated Mudstone / Siltstone	0.01		
			6739	92.50	93.00	0.50			0.02		
			6740	93.00	93.65	0.65		Laminated Mudstone	0.01		

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

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS						
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au. g/l	Au,Check	Au*M			
93.70 - 94.20		QUARTZ, PYRITE ZONE Light green to grey, very fine grained to aphanitic mudstone with 3-5% disseminated to weakly laminated pyrite; pyritic zones are somewhat silicified in places as shown by their relative hardness to the surrounding mudstone; cut by 5% quartz veining which occurs as 1) Blue-grey to white quartz and brecciated quartz veinlets parallel to bedding cleavage up to 1 cm wide with a "crack and seal" texture, and which are infilled by 5-10% pyrite and with chlorite. 2) Late cross-cutting milk-white quartz veinlets up to 3 mm wide at oblique angles.	6741	93.65	94.25	0.60		Pyritic zone (3 - 5% pyrite) in silicified Mudstone Intercalated Mudstone / Lapilli Tuff	11.42	11.08				
			6742	94.25	95.00	0.75			0.05					
			6743	95.00	96.00	1.00			0.02					
			6744	96.00	97.00	1.00			0.02					
			11802	97.00	98.00	1.00			0.01	0.01				
			11803	98.00	99.00	1.00			0.01					
			11804	99.00	100.00	1.00			0.01					
			11805	100.00	101.00	1.00			0.01					
			11806	101.00	102.00	1.00			0.01					
			11807	102.00	103.00	1.00			0.01					
			11808	103.00	104.00	1.00			0.01					
			11809	104.00	105.00	1.00			0.01					
			11810	105.00	106.00	1.00			0.02					
			11811	106.00	107.00	1.00			0.01					
			11812	107.00	107.50	0.50			0.01					
			107.55 - 107.85		Fault @ 45°-50° tea: sericite + chlorite + quartz; contacts are strong sharp slips with a moderate amount of mud gouge; fault zone itself is comprised of 65% white to buff irregular quartz veins and masses with interstitial sericite schist.	6745	107.50		108.10	0.60		0.01		
						11813	108.10		109.00	0.90		0.02		
						11814	109.00		110.00	1.00		0.02	0.01	
			110.25 - 124.00		GRAYWACKE Massive, fine-medium grained, dark green graywacke; unit is well sorted and comprised of 60% lithic clasts (up to 1 mm), 20% quartz and 20% feldspar; lithic clasts include volcanics, quartz porphyry, mudstone and jasper; well sorted and contains <1% rounded, pebble-sized clasts, and is in part intercalated with mudstone beds up to 0.75 metres wide.	11815	110.00		111.00	1.00		0.01		
						11816	111.00		112.00	1.00		0.01		
11817	112.00	113.00				1.00		0.01						
11818	113.00	114.00				1.00		0.01						
11819	114.00	115.00				1.00		0.01						

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

HOLE: AK-90-10

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 5-6 1990	EASTING	8050.00
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10100.00
CLAIM No.	L 491651	SIGNED BY	<i>W. B. [Signature]</i>	ELEVATION	
STARTED	November 1, 1990	DRILLED BY	Heath & Sherwood	LENGTH	173.70
COMPLETED	November 3, 1990	SURVEYED BY		UNITS	metres
PURPOSE	To test magnetic low 100 m west of 102-8170 zone	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	Intersected '102' structure at 145.55 - 147.40m				

DEPTH	AZIMUTH	DIP
Collar	341	45
38.00		44
76.00		44
114.00		43
152.00		41

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 2.44	CASING	95.00 116.00	ALTERED LAPILLI TUFF	147.00 147.50	0.50	0.65
2.44 24.25	LAPILLI TUFF Weakly sericitic		Sericitic, trace pyrite			
	8.00 - 8.40 Fault @ 10° tca	116.00 138.30	108.45 - 108.70 Fault @ 15° tca			
	9.80 - 10.00 Fault @ 43° tca		ASH TUFF / LAPILLI TUFF			
	23.00 - 23.10 Fault @ 42° tca		Hematitic			
24.25 27.40	CONGLOMERATE	138.30 143.55	132.70 - 136.40 Fault @ 0° tca			
	26.15 - 27.40 Altered, 10% quartz veins	143.55 145.55	GRAYWACKE / CONGLOMERATE			
27.40 39.20	BLEACHED TUFF	145.55 147.40	ASH TUFF			
	Sericitic, quartz-chlorite veining, brecciated		FAULT ZONE @ 35° tca- 45° tca			
	39.20 - 39.21 Fault gouge @ 55° tca		Sericitic, 5% quartz veining			
39.20 67.00	LAPILLI TUFF	147.40 170.40	145.55 - 147.00 Fault gouge @ 45° tca			
	Hematitic		LAPILLI TUFF			
67.00 72.00	CONGLOMERATE	170.40 173.70	162.90 - 163.10 Mudstone, sericitic			
72.00 77.00	LAPILLI TUFF / ASH TUFF		ASH TUFF			
77.00 89.65	CONGLOMERATE					
89.65 95.00	ASH TUFF	173.70	E.O.H.			
	85.65 - 91.00 Fault @ 40° tca					
	93.15 - 93.65 Fault @ 26° tca, 10% white quartz veining					

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

HOLE: AK-90-10

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au *M
0.00	2.44	CASING									
2.44	24.25	LAPILLI-TUFF Massive to weakly foliated light greyish green to dark green; foliated @ 45° tca; consists of 10% angular clasts up to 3 cm (avg. 0.5 cm) of light brown to grey-green to pink trachytes; matrix is a fine grained trachytic ash with 1-2% pervasive sericite alteration; unit is weakly to moderately magnetic.									
	8.00 - 8.40	Fault @ 10° tca; sericite + chlorite + ankerite; tight chloritic slip with 1.5 cm wide open, vuggy quartz + ankerite vein and strong ankerite staining of wall rock.									
	9.80 - 10.00	Fault @ 43° tca; chlorite + sericite + quartz + ankerite; strong sericite + ankerite mud gouge @ 9.9 m with 1 cm wide irregular white quartz vein @ 10.0 m.									
	14.20 - 14.70	Dirty brown to green sericitized tuff with 3-5% wispy and spotty sericite in matrix as well as 2-3% chloritic sutures (<= 1/2 mm wide); section is also cut by 2-3% white to pink quartz veining up to 1 cm wide.	6746	14.20	14.80	0.60		Fault at 14.65m, sericitized Lapilli Tuff, 2-3% quartz veining	0.01	0.01	
	14.65 - 14.70	Fault @ 60° tca; strong sericite + ankerite shear with 1-2% irregular quartz.									
	15.00 - 15.50	Fault @ 10° tca; tight 1 mm wide, chlorite + sericite + ankerite slip.									
	23.00 - 23.10	Fault @ 42° tca; sericite + chlorite + quartz; upper and lower contacts are sharp sericitic slips; interstitial material is comprised of sericite + chlorite schist, a brecciated buff-white quartz veinlet 3 mm wide and a semi-massive 3-4 cm wide milk-white quartz vein with ankeritic staining.	6747	22.90	23.40	0.50		Fault zone with 3-4 cm quartz vein	nil		
			6748	23.40	24.20	0.80			0.03		

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

HOLE: AK-90-10

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au, M	
24.25	27.40	CONGLOMERATE Coarse polymictic pebble-boulder conglomerate, massive, multi-coloured with 25% coarse sub-angular to moderately rounded clasts up to 8 cm (avg. 2 cm) in a fine grained light to dark green matrix; clasts are multi-textured from light brown aphanitic trachyte to spotted trachyte to green sericitized mafic (?) clasts; upper contact of unit is marked by sharp sericitic slip with 1 cm white-buff quartz vein; lower contact is obscured by late quartz veining.	6749	24.20	25.00	0.80			0.02			
			6750	25.00	26.00	1.00			0.01			
		26.15 - 27.40	Altered conglomerates.									
		26.20	Fault @ 47° tea: open, vuggy slip with 0.5 cm wide quartz + calcite + ankerite vein filling.		6751	26.00	26.50	0.50	Altered Conglomerates with 10% quartz	0.01		
		26.20 - 27.40	Cut by numerous irregular chloritic slips and chlorite breccia veinlets up to 0.5 cm wide, and by 10% brown to white quartz veins and masses up to 4 cm wide.		6752	26.50	27.50	1.00		0.02		
27.40	39.20	ALTERED - BLEACHED TUFF Moderately to strongly deformed with a strong "crushed" appearance that is in part pseudo-brecciated by 1-5% irregular chlorite and chlorite + quartz veinlets (1-2 mm) which creates a strong "crack and seal" texture; matrix varies from light green to brown with a variable amount of sericite alteration (0-10% of matrix); coarse lapilli clasts are still evident, although quite deformed and brecciated in places.	6753	27.50	28.00	0.50		Altered sericitized Lapilli Tuff	0.01			
			6754	28.00	28.50	0.50		Altered Lapilli Tuff with 8 cm pink quartz vein	nil			
			6755	28.50	29.00	0.50			0.01			
			6756	29.00	30.00	1.00			0.01			
			6757	30.00	31.00	1.00			0.01			
			6758	31.00	32.00	1.00			nil			
			6759	32.00	33.00	1.00			nil			
			6760	33.00	34.00	1.00			0.01			
			6761	34.00	35.00	1.00			nil			
			6762	35.00	36.00	1.00			nil			
		30.50 - 30.70	Fault @ 15° tea: tight sericite + chlorite slip with 0.5 cm wide of brecciated wallrock (brecciated by chlorite + quartz veinlets); minor coarse pyrite is evident along some of the chlorite + quartz slips.		6763	36.00	36.60	0.60		nil		

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

HOLE: AK-90-10

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
77.20	89.65	CONGLOMERATE Coarse, polymictic pebble-cobble conglomerate, consisting of 30-40% coarse angular to well rounded clasts up to 8 cm (avg. 2 cm) of salmon-pink coloured trachyte to dark green mafic volcanic clasts; massive, framework supported, poorly sorted, weakly magnetic, undeformed and unaltered.									
89.65	91.00	FAULT ZONE Fault Zone @ 40° tea of foliated, sericitized tuffs, brecciated tuffs and 10% quartz veinlets and masses.									
	89.65 - 90.30	Sericitized tuff; leading contact is marked by 1 cm quartz + chlorite vein; has a dirty mottled appearance with 10% spotty sericite and sericite slips.	6767	89.50	90.50	1.00	70	Fault zone	0.01		
	90.30 - 91.00	Cut by 10% irregular buff-brown to white quartz veins up to 2 cm wide and by a later cross-cutting quartz vein system 1-3 mm wide.	6768	90.50	91.10	0.60			nil		
91.00	95.00	ASH-TUFF Massive to moderately well foliated, fine grained grey-green ash-tuff consisting of a massive fine grained matrix which appears to be 70% trachyte fragments in a grey-white feldspathic (?) groundmass; contains 1% very fine grained, dark green, chloritized clasts with very diffuse boundaries due to alteration.									
	91.00 - 91.50	Brown-purple, with a mottled texture and chloritized clasts up to 1 cm, cut by 5% late quartz ± chlorite veinlets 1-3 mm wide.	6769	91.10	91.60	0.50		Mottled, altered Tuff with 5% quartz.	nil		
	91.50	Fault @ 40° tea: sericite + chlorite + quartz; tight 1 mm sericite + chlorite slip with 3 mm wide weakly laminated quartz vein.	6770	91.60	92.50	0.90			nil		
		+ chlorite slip with 3 mm wide weakly laminated quartz vein.	6771	92.50	93.00	0.50			nil		
	93.15 - 93.65	Fault @ 26° tea: sericite + quartz + ankerite; strongly sericitized, deformed zone with 10% white irregular quartz masses and veinlets centred on sericitic slips.	6772	93.00	94.00	1.00			nil		
			6773	94.00	95.00	1.00			0.01		

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

HOLE: AK-90-10

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
95.00	116.00	<p>BLEACHED LAPILLI-TUFF Upper contact of this unit is a very sharp (< 0.5 mm) tight chloritic slip @ 45° tca. This is a unit with a very distinctive light brown-green, very fine grained to aphanitic, sericitized (pervasive) matrix with some very large (5-10 cm) altered clasts which display diffuse, altered boundaries and a certain degree of brecciation; these clasts also show various degrees of sericite alteration from yellow-green fuchsitic coloured to pervasive matrix alteration; some clasts are quite coarse grained with white irregular feldspars (0.5 cm) in a sericitized groundmass; the rock has a very distinctive dirty, mottled texture; in places remnant bedding of intercalated ash horizons (<= 0.5 metre wide) are evident with bedding @ 30°-40° tca; typically non-magnetic, but bedding is defined by irregular fine hematite beds (<= 1 mm wide) which were probably primary magnetite beds; lower contact of unit is somewhat gradational and marked by a gradual colour change from light brown-green to purple hematized tuffs.</p>	6774	95.00	96.00	1.00		Bleached sericitized Tuffs	nil		
	102.70 - 102.90	Quartz breccia vein; 2-3 cm wide white to buff to pink quartz vein with 2-3% angular wall rock inclusions up to 1 cm which are pervasively sericitized; vein walls are marked by tight chloritic slips with minor calcite.	6775	102.60	103.10	0.50		Quartz breccia vein	nil		
			6776	103.10	104.00	0.90		Bleached Lapilli Tuff	nil		
			6777	104.00	105.00	1.00			0.01		
			6778	105.00	106.00	1.00			nil		
			6779	106.00	106.80	0.80			nil		
	106.90 - 107.10	Cut by two 1 cm quartz veins @ 106.90 and 107.10 which are milk-white to buff with sharp chlorite + sericite boundaries and very minor (<<0.5%) patchy pyrite.	6780	106.80	107.30	0.50		Bleached Tuff with 1 cm quartz vein and very minor blebby pyrite	0.01		
			6781	107.30	108.30	1.00			nil		
	108.45 - 108.70	Fault @ 15° tca: chlorite + sericite + quartz; 3-5 mm white quartz veinlet, a sharp chlorite + sericite slip; rubble core with 75% recovery.	6782	108.30	108.80	0.50	75	Quartz vein in sericitic Tuff	nil		
			6783	108.80	109.50	0.70			nil		
			6784	109.50	110.50	1.00			nil		
			6785	110.50	111.00	0.50		Sericitized Tuff with 5% white-pink quartz veins with < 0.5% pyrite	nil	nil	

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

HOLE: AK-90-10

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check
116.00	138.30	<p>HEMATIZED ASH-TUFF / LAPILLI-TUFF Massive fine grained moderately well bedded ash with intercalated clast-rich horizons up to 0.75 metres wide; distinctive dark red-purple colour due to pervasive hematite alteration; matrix is very fine grained, consisting predominantly of 70% trachytic lithic clasts up to 1 mm in a aphanitic grey-white groundmass; matrix also contains sporadic altered magnetite grains (magnetite → hematite) up to 1-2% in places (<=0.5 mm in size) and also hematized magnetite beds up to 1 mm wide @ 20°-30° tca; lapilli-tuff horizons are heterolithic with 10-20% angular trachytic clasts from 1-2 mm to 2 cm in size; these lapilli beds display gradational contacts with ash-tuff; displays patchy, weak magnetism. Lower contact of unit is marked by a 2 cm brecciated pink-white quartz vein on a tight sericite slip.</p> <p>122.80 - 123.00 Fault @ 45° tca: sericite + quartz; 0.5 cm quartz vein in a tight sericite slip @ 122.85.</p> <p>122.85 - 123.00 Light grey-green with 5-10% pervasive sericite alteration.</p> <p>132.70 - 136.40 Fault sub-parallel to core axis; 1 cm wide quartz + chlorite vein running sub-parallel to core following a very irregular, tight chloritic slip.</p>								
138.30	143.55	<p>GRAYWACKE / CONGLOMERATE Massive to weakly bedded @ 20° tca; grey-green graywacke (60% lithics, 25% feldspar 15% quartz) with minor intercalated pebble rich conglomerate beds with gradational contacts and not over 0.5 metres wide; cut by 1% late white to pink quartz veinlets 1-3 mm wide; lower contact is very sharp @ 75° tca and marked by a 0.5 cm quartz vein with angular wallrock inclusions 1-3 mm in size.</p>								
143.55	145.55	<p>ASH-TUFF 143.55 - 144.70 Very fine grained, brown-green, massive ash-tuff with 1-2% late white quartz veinlets (1-2 mm).</p>	6786	143.55	144.55	1.00			nil	

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

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 6 1990	EASTING	7900.00
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10175.00
CLAIM No.	L 491651	SIGNED BY	<i>W. B.</i>	ELEVATION	
STARTED	November 3, 1990	DRILLED BY	Heath & Sherwood	LENGTH	117.40
COMPLETED	November 5, 1990	SURVEYED BY		UNITS	metres
PURPOSE	To test 102-7912 Gold Zone	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	No anomalous assays				

DEPTH	AZIMUTH	DIP
Collar	341	45
38.00		44
76.00		42
114.00		39

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 3.40	CASING					
3.40 44.70	CONGLOMERATE / LAPILLI TUFF	99.90 103.80	97.00 - 97.35 Fault gouge @ 35° tca			
44.70 65.15	LAPILLI TUFF	103.80 117.40	BLEACHED TUFF			
65.15 66.55	SHEAR ZONE		10 - 15 % Sericite			
66.55 75.50	ASH TUFF		5 - 10 % Quartz veinlets			
75.50 76.50	FAULT ZONE	117.40	MUDSTONE / GRAYWACKE			
76.50 94.45	LAPILLI TUFF		116.50 - 117.40 3 - 5% Quartz veinlets			
94.45 99.90	MUDSTONE / GRAYWACKE		116.90 - 116.92 Fault @ 45° tca			
			E.O.H.			

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

HOLE: AK-90-11

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au. g/t	Au,Check	Au*M
0.00	3.40	CASING									
3.40	44.70	<p>COARSE HETEROLITHIC LAPILLI-TUFF / CONGLOMERATE Massive, dark green to black, with 5-30% angular to well rounded polymictic clasts from 0.2 to 5 cm (avg. 1 cm) in a fine grained equigranular matrix; clasts are quite variable from pink-red to grey to dark green, generally fine grained and appear to be mainly comprised of trachytic fragments, i.e. there are no quartz porphyry or jasper clasts evident; matrix is very fine grained grey-white and contains little to no visible quartz (possibly trachytic?); displays locally strong magnetics; lower contact is somewhat subjective as it is very difficult to distinguish the volcanic units from the sedimentary units.</p>									
	18.80	Fault @ 20° tea: tight 1-2 mm wide sericite + chlorite slip with minor brecciated quartz within slip.									
	18.80 - 19.40	Cut by 5-10% irregular, white to pink quartz veins and masses.	6792	18.50	19.50	1.00		Fault zone with 5 - 10% irregular quartz masses in wall rock	0.01		
	31.40 - 33.55	Grades into a medium grained lapilli-tuff with 30% angular, heterolithic, trachytic clasts averaging 3 mm in size in a fine grained, grey-green matrix.	6793	19.50	20.00	0.50		1 - 2% quartz veining	0.01		
			6794	33.00	33.50	0.50			0.01		
	33.55 - 34.45	Rusty ankeritic, sericitized core interstitial to tight sericite + ankerite slips @ 10°-15° tea.	6795	33.50	34.50	1.00		Rusty ankeritic core	0.02	0.03	
			6796	34.50	35.00	0.50			nil		
			6797	35.00	36.00	1.00			0.01		
			6798	36.00	37.00	1.00			0.02		
	37.35 - 37.45	Fault @ 50° tea: chlorite + sericite + quartz + ankerite; very strongly deformed zone with strong mud breaks; interstitial material is strongly deformed, rusty, altered rock cut by wispy chlorite and sericite.	6799	37.00	37.50	0.50		Strong mud break + ankerite	0.01		

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

HOLE: AK-90-11

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au, M
44.70	65.15	<p>LAPILLI-TUFF Massive, undeformed and comprised of 10-15% angular clasts ranging from 1 mm to 2 cm (avg. 0.5 cm); these clasts are light grey to buff to pink, generally fine grained trachytes; matrix is fine grained dark grey-green and comprised of 50-60% fine lithics in a grey-white aphanitic groundmass; in part intercalated with minor ash-tuff horizons up to one metre wide which are massive, fine grained and contain <= 1% lapilli-sized clasts; contacts between units are gradational; locally strongly magnetic; cut by 1% late, pink-white quartz + calcite veinlets (1-3 mm wide) @ 25°-30° tca.</p> <p>47.53 Fault @ 40° tca; 2-3 mm wide, tight sericite slip with late calcite on slip face, weak sericite alteration for 1 cm into wallrock. 51.60 Fault @ 35° tca; tight sericite slip with calcite on slip face. 61.00 - 65.15 Becomes increasingly sericitized (light green) with an increasing lighter colour and 5-10% pervasive sericite alteration evident in matrix.</p>	6800	64.00	65.00	1.00		Weakly sericitized Lapilli Tuff	0.02		
65.15	66.55	<p>SHEAR ZONE Well foliated at 45° tca; rusty weathered, ankeritic with very rubbly core (70% recovery); original rock appears to be a fine grained ash-tuff with 15-20% wispy sericite and sericite slips throughout; contacts are somewhat gradational with moderate ankerite stain penetrating surrounding wallrock.</p>	6801	65.00	66.00	1.00	70	Rusty ankeritic shear zone	0.01		
66.55	75.50	<p>ASH-TUFF Massive, very fine grained, light green (sericitized) to purple (hematized); appears to be 60-70% very fine, trachyte clasts up to 0.5 mm in an aphanitic white groundmass; strongly magnetic where not hematized and cut by 5% late white to buff quartz veinlets.</p>	6802	66.00	67.00	1.00			0.02		
			6803	67.00	68.00	1.00			0.01		
			11642	68.00	69.00	1.00			0.01		
			11643	69.00	70.00	1.00			0.01		
			11644	70.00	71.00	1.00			0.01		
			11645	71.00	72.00	1.00			0.01		
			11646	72.00	73.00	1.00			0.01	0.01	

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

HOLE: AK-90-11

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au, *M		
75.50	76.50	FAULT ZONE Fault zone @ 35° tea: sericite + chlorite + quartz + hematite + calcite; upper contact marked by 1 cm buff-white quartz vein with sharp, chlorite + sericite slip boundaries.	11647	73.00	74.00	1.00		Weakly sericitized Ash Tuff	0.01				
			6804	74.00	75.00	1.00			0.01				
			6805	75.00	75.50	0.50			nil				
	75.50	Very dirty, mottled texture with crushed and deformed host rock being transected by very irregular wispy sericite, chlorite, hematite and quartz masses and veinlets, to give a highly variable colour; 40-50% sericite, 30% quartz, 10% hematite, 10% chlorite + calcite on slip faces; zone locally carries very minor, coarse blebby <<0.5 pyrite.	6806	75.50	76.50	1.00		Hematitic fault zone << 0.5% pyrite	0.04				
76.50	86.60	LAPILLI-TUFF											
			76.50 - 77.80	Cut by 5% quartz veinlets with weak sericite alteration halos and patchy ankeritic staining on tight, sericitic slips.	6807	76.50	77.00	0.50		Bleached Tuff with 5% quartz veining	0.03		
			77.80 - 82.30	Massive, with 5% sub-angular light pink to buff trachytic clasts, up to 2 cm, in a light green to grey fine grained ash matrix; matrix displays pervasive, moderate sericite alteration.	6808	77.00	78.00	1.00			0.01		
					11648	78.00	79.00	1.00			nil		
					11649	79.00	80.00	1.00			0.02		
			79.00	Fault @ 40° tea; mud slip; very strongly deformed sericite + chlorite schist 2 cm wide with mud gouge on slip planes.	11650	80.00	81.00	1.00			nil		
			82.30	Fault @ 20° tea: chlorite + sericite + quartz + calcite; 3-5 mm wide fault with a 1-2 mm quartz + calcite veinlet.	11651	81.00	82.25	1.25			0.01		
			82.30 - 86.60	Light pink rock, with 60% pink lithic clasts (<=0.5 mm) and a very fine grained, yellow-white, sericitized groundmass with 5-10% wispy sericite evident.	11652	82.25	83.50	1.25			0.01		
					11653	84.50	85.50	1.00			0.02		
					11654	85.50	86.50	1.00			nil		

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

HOLE: AK-90-11

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M	
86.60	94.45	BLEACHED LAPILLI-TUFF Sericitized, light grey-brown, lapilli-tuff contains 10-15% pervasive sericite alteration within matrix and in part penetrating lapilli clasts to give them weak, diffuse boundaries; cut by 5% late white quartz veinlets up to 5 mm and also by late quartz breccia veins with wallrock inclusions up to 1.5 cm.	6809	86.50	87.00	0.50		Sericitized Lapilli Tuff with 3 - 5% late quartz veining	0.05	0.07		
			6810	87.00	88.00	1.00			nil			
			6811	88.00	89.00	1.00			0.02			
			6812	89.00	90.00	1.00			nil			
			6813	90.00	91.00	1.00			0.01			
			6814	91.00	92.00	1.00			0.01			
			6815	92.00	93.00	1.00			nil			
			6816	93.00	94.00	1.00			0.02			
			6817	94.00	94.50	0.50			0.04	0.05		
				94.00 - 94.45	Fault breccia @ 50° tca; white to pink brecciated quartz fragments to 1 cm within a strongly sheared chlorite + sericite groundmass; strong mud gouge on boundaries.							
94.45	99.90	MUDSTONE / GRAYWACKE Massive, aphanitic, dark to light green mudstone with very minor intercalated graywacke interbeds which display sharp but irregular contacts.						Chloritic fault breccia				
			6818	94.50	95.00	0.50			Strong mud break in Mudstone	0.02		
			6819	95.00	96.00	1.00				0.03		
			6820	96.00	97.00	1.00				0.02		
			6821	97.00	97.50	0.50				0.09	0.10	
			6822	97.50	98.00	0.50				nil		
			6823	98.00	99.00	1.00				0.01		
			6824	99.00	99.90	0.90				0.02		
	94.90 - 95.00	Fault @ 20° tca; strong mud break with brecciated and crushed mudstone fragments.										
	97.00 - 97.35	Fault @ 35° tca; strongly foliated to sheared mudstone and mudstone breccia cemented by mud, fault gouge.										
99.90	103.80	BLEACHED ASH-TUFF Highly altered, light brown ash-tuff with 10-15% pervasive sericite in very fine grained, crushed matrix, cut by 5-10% quartz, and quartz + chlorite veinlets up to 3 mm at all angles, and by numerous, tight sericitic slips, to give unit a pseudo-	6825	99.90	100.50	0.60		Bleached sericitized Tuff	0.01			
			6826	100.50	101.00	0.50			0.01			
			6827	101.00	102.00	1.00			0.02			

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

HOLE: AK-90-12

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 7-8 1990	EASTING	8000.00
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	9840.00
CLAIM No.	L 477299 / 491651	SIGNED BY	<i>W.P.</i>	ELEVATION	
STARTED	November 5, 1990	DRILLED BY	Heath & Sherwood	LENGTH	99.55
COMPLETED	November 7, 1990	SURVEYED BY		UNITS	metres
PURPOSE	To test '99' structure, IP anomaly and 99-8030 Gold Zone	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	No anomalous assays				

DEPTH	AZIMUTH	DIP
Collar	341	45
38.00		45
76.00		42
96.00		40

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 1.80	CASING	99.55	E.O.H.			
1.80 11.95	GRAYWACKE					
11.95 14.20	MUDSTONE					
14.20 15.50	LAPILLI TUFF					
15.50 22.25	CONGLOMERATE					
22.25 23.33	ASH TUFF					
23.33 28.35	CONGLOMERATE					
28.35 43.50	ASH TUFF					
43.50 44.60	LAPILLI TUFF					
44.60 47.20	ALTERED ASH TUFF / MUDSTONE Sericitic, 0.5 - 1% pyrite					
47.20 54.65	ALTERED ASH - / LAPILLI TUFF Hematitic					
54.65 56.85	ALTERED ASH TUFF Sericitic, trace pyrite					
56.85 63.25	CONGLOMERATE					
63.25 99.55	COARSE LAPILLI - / BLOCK TUFF Strongly magnetic 69.00 - 77.40 5 - 10% quartz veining					

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

HOLE: AK-90-12

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INTERVAL		DESCRIPTION	SAMPLE				DESCRIPTION	ASSAYS		
FROM	TO		No.	FROM	TO	Length		% Rec	Au, g/l	Au, Check
43.50	44.80	40.90 - 41.05 Fault @ 33° tca: chlorite + quartz + calcite; tight chloritic slip @ 41.0 m bounded by pink-white, multiphase, quartz + calcite veining; minor chalcopyrite; lower contact of unit is a sharp 1-2 mm chlorite slip with minor amount of rock flour on slip face @ 75° tca. LAPILLI-TUFF Massive, strongly magnetic, with 5-10% angular, red-pink, trachytic clasts (up to 2 cm) in a very fine grained, dark green ash matrix; cut by a few tight (<= 1 mm) sericite slips @ 80° tca and by 2% white quartz veinlets (1-2 mm) at 45° tca; lower contact of unit is faulted @ 50° tca.	6844	40.80	41.20	0.40		Fault zone	0.01	nil
			6838	43.00	43.50	0.50			0.01	
44.80	47.20	44.60 - 44.80 Fault zone; well foliated purple-green (hematite + sericite) ash-tuff with sharp, tight sericite slip boundaries. ASH-TUFF / MUDSTONE Very fine to fine grained, light grey-green, massive ash with intercalated, aphanitic mudstone beds from 2 mm-5 cm wide; matrix of ash is 40-50% pale green, sericitized fragments up to 1/2 mm in an aphanitic grey-white groundmass; unit contains 0.5%-1% disseminated pyrite throughout; very nondescript, massive unit, weakly sericitic with minor pyrite; lower contact of unit is faulted @ 70° tca by a 1.5 cm brecciated quartz ± calcite vein cemented by an aphanitic chlorite + sericite groundmass.	6839	43.50	44.50	1.00		Hematite + sericite shear zone	0.01	
			6840	44.50	45.00	0.50			0.02	0.01
47.20	54.65	ASH-TUFF / LAPILLI TUFF (HEMATIZED) Massive, undeformed, intercalated ash- and lapilli-tuff in equal proportions with beds 0.5 - 1.0 metre wide; red-brown to purple with 30-40% fine to coarse (ash to lapilli size) fragments, hematized (purple) trachytic rock fragments, in a very fine grained light green to purple groundmass; ash-tuff is compositionally similar to the lapilli-tuff, but finer grained and in places well bedded @ 60° tca; unit is moderately to strongly magnetic.	6841	45.00	46.00	1.00		Ash Tuff / Mudstone with 0.5% pyrite	0.03	
			6842	46.00	46.50	0.50			0.03	
			6843	46.50	47.20	0.70			0.01	
47.20	54.65	ASH-TUFF / LAPILLI TUFF (HEMATIZED) Massive, undeformed, intercalated ash- and lapilli-tuff in equal proportions with beds 0.5 - 1.0 metre wide; red-brown to purple with 30-40% fine to coarse (ash to lapilli size) fragments, hematized (purple) trachytic rock fragments, in a very fine grained light green to purple groundmass; ash-tuff is compositionally similar to the lapilli-tuff, but finer grained and in places well bedded @ 60° tca; unit is moderately to strongly magnetic.	6845	47.20	48.00	0.80			0.01	
			6846	48.00	49.00	1.00			0.01	
			6847	53.00	54.00	1.00			0.01	
			6848	54.00	54.60	0.60			0.02	

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

HOLE: AK-90-12

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
		74.35 - 77.40	6856	72.00	73.00	1.00		15 - 20% quartz veins with minor chalcopyrite	nil		
		Becomes weakly bleached and is cut by numerous chlorite + sericite slips up to 0.5 cm wide;	6857	73.00	74.00	1.00			0.03		
			6858	74.00	75.00	1.00			0.01		
		76.60 - 77.40	6859	75.00	76.00	1.00			0.01		
			Cut by 15-20% massive and fractured (chlorite sutures) buff white to pink quartz veins up to 10 cm wide.	6860	76.00	76.50	0.50			nil	
		77.30		6861	76.50	77.40	0.90			0.01	
			1 cm vuggy, pink quartz + carbonate vein @ 30° tca with a 1 cm, pseudo-brecciated chalcopyrite clot with malachite staining.	6862	77.40	78.00	0.60			0.02	
		99.55		6863	78.00	79.00	1.00			0.03	
			E.O.H.	6864	79.00	80.00	1.00			0.01	

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

HOLE: AK-90-13

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 10 1990	EASTING	8050.00
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	9845.00
CLAIM No.	L 500058 / 491651	SIGNED BY	<i>W.B.</i>	ELEVATION	
STARTED	November 7, 1990	DRILLED BY	Heath & Sherwood	LENGTH	90.17
COMPLETED	November 8, 1990	SURVEYED BY		UNITS	metres
PURPOSE	To test '99' structure and 99-8030 Gold Zone	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	No anomalous assays				

DEPTH	AZIMUTH	DIP
Collar	341	45
38.00		43
76.00		43

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 4.50	CASING					
4.50 5.30	CONGLOMERATE					
5.30 14.40	ASH TUFF					
14.40 16.55	CONGLOMERATE					
16.55 37.00	16.35 - 16.55 Fault @ 52° tca					
37.00 45.50	ASH TUFF					
	ALTERED LAPILLI TUFF					
	Hematitic					
	40.40 - 40.85 Sericitic, 0.5% pyrite					
	41.50 - 42.50 Sericitic, 2 - 3% quartz					
45.50 47.00	ALTERED ASH TUFF					
47.00 49.20	Sericitic					
49.20 54.45	CONGLOMERATE					
54.45 90.17	ASH TUFF					
	COARSE LAPILLI - / BLOCK TUFF					
	5% white to pink quartz veinlets					
90.17	E.O.H.					

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

HOLE: AK-90-13

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INTERVAL		DESCRIPTION	SAMPLE				DESCRIPTION	ASSAYS		
FROM	TO		No.	FROM	TO	Length		% Rec	Au. g/t	Au, Check
0.00	4.50	CASING								
4.50	5.30	CONGLOMERATE Weakly foliated to massive with a moderate ankerite stain; 5% well rounded, polymictic clasts up to 2 cm in a fine grained graywacke matrix (70% rock fragments, 20% feldspar, 10% quartz and 1-2% spotty sericite); lower contact is faulted @ 10° tea by a tight chlorite + sericite + ankerite slip.								
5.30	14.40	ASH-TUFF Massive to well bedded, dark green-brown and generally quite fine grained, although the unit is in part intercalated with narrow (5-10 cm), clast-rich lapilli-tuff and conglomerate beds; bedding is defined by alternating light and dark green bands @ 50° tea which appears to be comprised of 60% very fine trachytic rock fragments in an aphanitic, dirty brown groundmass; very strongly magnetic; lower contact is a sharp chloritic slip @ 30° tea.								
	7.65 - 8.35	Fault @ 65° tea: sericite + chlorite + ankerite + quartz; extremely rusty weathered shear comprised predominantly of sericite schist with very minor, cross cutting quartz veinlets (1-3% recovery).	6865	7.60	8.50	0.90	65	Ankeritic shear with minor quartz	0.01	0.02
	8.10 - 8.35	Rubbly, ground core (30-40% recovery).								
14.40	16.35	CONGLOMERATE Massive, coarse grained conglomerate with 30% angular to well rounded, poorly sorted, clasts up to 4 cm in a very fine grained, dark green graywacke matrix; undeformed, unaltered jasperoidal conglomerate; lower contact is strongly faulted.								
16.35	16.55	FAULT - MYLONITE ZONE Fault-mylonite zone @ 52° tea, schistose to well laminated (mylonitic) and consists of alternating bands (2-5 mm wide) of light green sericite, dark green chlorite and dirty brown sericite + ankerite (*).	6866	16.30	16.70	0.40		Fault - Mylonite zone	0.01	

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

HOLE: AK-90-13

PAGE: 3 of 5

INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
16.55	37.00	<p>ASH-TUFF Massive, very fine grained, dark green to brown and appears to consist of 60-70% pale green, trachytic rock fragments (<= 0.5 mm) in a dirty aphanitic groundmass; unit is very strongly magnetic and in places 1-2% visible magnetite grains (<= 0.5 mm) are evident; also contains the odd lapilli sized clast, randomly distributed throughout; lower contact is faulted @ 40° tca.</p> <p>27.20 - 28.40 Cut by 2-3% white-pink quartz veinlets with black chloritic boundaries (1-3 mm wide) which have sericitic alteration halos up to 0.5 cm into adjacent wall rock; patchy bleached appearance.</p> <p>35.47 - 35.60 Fault @ 47° tca; chlorite + sericite + hematite; very strongly deformed, chloritic shear with a strong mud gouge with purple, hematitic wall rock.</p>									
			6867	27.00	27.50	0.50			0.01		
			6868	27.50	28.40	0.90			0.01		
			6869	34.00	34.90	0.90			0.01		
			6870	34.90	35.40	0.50			0.01	0.03	
			6871	35.40	35.90	0.50		Hematitic Fault	0.03		
			6872	35.90	36.50	0.60			0.01		
			6873	36.50	37.00	0.50			0.01		
37.00	45.50	<p>HEMATIZED LAPILLI-TUFF Massive, medium grained with characteristic reddish-purple colour and patchy sericite bleaching proximal to quartz veinlets and sericite slips; comprised of 25% pinkish-red trachyte clasts (1-3 mm) in a very fine grained, hematized groundmass.</p> <p>37.00 - 37.25 Fault @ 55° tca; well foliated to schistose hematitic tuff with strong sericite and sericite + quartz slip planes.</p> <p>39.00 - 40.40 Selective pyrite replacement (coarse, clots) in sericitized lapilli clasts.</p>									
			6874	37.00	37.50	0.50		Sericitic Fault Zone	0.01	0.01	
			6875	37.50	38.50	1.00		Hematized Lapilli Tuff	0.02		
			6876	38.50	39.00	0.50			0.03		
			6877	39.00	39.50	0.50		Hematized Tuff with minor clotty pyrite	0.01		
			6878	39.50	40.40	0.90			0.02		

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

HOLE: AK-90-14

PAGE: 1 of 7

PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 12 1990	EASTING	8100.00
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	9835.00
CLAIM No.	L 500058 / 491651	SIGNED BY	<i>W.B.</i>	ELEVATION	
STARTED	November 8, 1990	DRILLED BY	Heath & Sherwood	LENGTH	99.45
COMPLETED	November 10, 1990	SURVEYED BY		UNITS	metres
PURPOSE	To test '99' structure 70 metres east of 99-8030 Gold Zone	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	No anomalous assays				

DEPTH	AZIMUTH	DIP
Collar	341	45
38.00		44
76.00		44

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	CASING	99.45	E.O.H.			
2.13 6.55	GRAYWACKE / MUDSTONE					
6.55 18.40	ASH TUFF					
18.40 25.90	CONGLOMERATE					
25.90 28.55	ALTERED ASH TUFF Hematitic					
28.55 31.00	ASH TUFF					
31.00 35.50	LAPILLI TUFF					
35.50 44.75	ALTERED ASH TUFF Hematitic to sericitic					
44.75 46.85	COARSE LAPILLI TUFF					
46.85 60.00	ALTERED TUFF Bedding @ 60° tca, sericitic					
60.00 61.60	ALTERED TUFF Hematitic					
61.60 71.75	ALTERED LAPILLI TUFF Sericitic, 0.5% pyrite					
71.75 99.45	COARSE LAPILLI - / BLOCK TUFF					

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

HOLE: AK-90-14

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au* M
0.00	2.13	CASING									
2.13	6.55	GRAYWACKE / MUDSTONE Massive to well foliated, light grey to green fine grained graywacke with thin (2 mm - 0.5 cm) mudstone beds and rip-up clasts; bedding / foliation @ 60°-70° tca; moderate ankerite staining, especially at top of hole which is quite fractured and rubbly; lower contact of unit is rubbly core but appears to be faulted along a sericite slip plane @ 55° tca.									
	5.00 - 6.55	Strongly foliated to schistose with prominent sericite slips and pervasive sericite (10%) in matrix.	6889	4.00	5.00	1.00		Massive Graywacke with mudstone clasts	0.01		
	5.10 - 5.25	Fault @ 60° tca: sericite + quartz + ankerite; white to clear fractured quartz vein, 6-7 cm wide within sericite schist.	6890	5.00	5.50	0.50		Sericitic Graywacke with 7 cm quartz vein	nil		
	5.60 - 5.70	Milk-white to grey massive, weakly laminated quartz vein cut by numerous, tight sericite slips and bounded by tight (1 mm) sericite + chlorite + ankerite slip planes.	6891	5.50	6.00	0.50		10 cm laminated quartz vein in foliated Graywacke	0.01		
			6892	6.00	6.50	0.50		Well foliated sericitic Graywacke	0.01		
6.55	18.40	ASH-TUFF Massive, very fine grained, dark brown to green, in part weakly bedded @ 40° tca as defined by very narrow (<1 mm) irregular magnetite beds, and in part intercalated with narrow (up to 0.5 m), clast rich lapilli-tuff horizon with very gradational contacts; lower contact of unit is very gradational.									
	6.55 - 10.00	Stockwork of 5% white-pink-purple quartz veinlets (1 mm - 4 mm wide) which occasionally display a light brown alteration halo 1-2 mm wide; locally very minor, coarse clotty pyrite.	6893	6.50	7.00	0.50		Ash Tuff with 2% quartz veinlets	nil		
			6894	7.00	8.00	1.00			0.06		
			6895	8.00	9.00	1.00			0.03		
			6896	9.00	10.00	1.00			0.01		

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

HOLE: AK-90-14

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INTERVAL		DESCRIPTION	SAMPLE				DESCRIPTION	ASSAYS				
FROM	TO		No.	FROM	TO	Length		% Rec	Au, g/t	Au, Check	Au *M	
		31.45	Fault @ 40° tea: sericite + chlorite; sharp, 1 cm wide sericite + chlorite slip and a prominent foliation developed for 0.5 metres on either side of slip; 5-10% wispy sericite + hematite alteration for up to 25 cm in wall rock.	6900	31.00	32.00	1.00		Altered Lapilli Tuff with fault zone	0.02		
				6901	32.00	33.00	1.00		Massive Lapilli Tuff	nil		
				6902	33.00	34.00	1.00			0.01		
				6903	34.00	35.00	1.00			0.01		
				6904	35.00	35.50	0.50			nil		
35.50	44.55	HEMATIZED ASH-TUFF Massive, very fine grained dark brown to purple to green (mottled, altered variable colouration), very soft with a white (sericite) to red-brown (hematite) streak; predominantly dark brown-purple but cut by 2-3% white-pink quartz veinlets which display irregular alteration (sericite) halos which produces dirty, mottled texture; in places white feldspar clots or masses up to 0.5 cm are prominent ("snowflake" texture) and may be confined to altered fragments with partially to completely obliterated margins; although pervasively sericitized and hematized, this unit is still strongly magnetic; lower contact is a fault.	6905	35.50	36.00	0.50				0.02		
				6906	36.00	37.00	1.00			0.01		
				6907	37.00	38.00	1.00			0.01	0.01	
				6908	38.00	39.00	1.00			0.01		
		39.30 - 39.85	Fractured to pseudo-brecciated with "crack and seal" type texture due to fracturing by narrow (<= 1 mm) chloritic sutures; minor coarse pyrite on fracture planes.	6909	39.00	39.50	0.50		Pseudo-brecciated Tuff Pseudo-brecciated Tuff + fault zone	nil		
				6910	39.50	40.10	0.60			0.01	0.01	
		39.85 - 40.00	Fault @ 50° tea; well foliated to schistose tuff with numerous sericitic slips.	6911	44.00	44.55	0.55		Hematitic Ash Tuff with sericite alteration halos on veins	nil		
44.55	44.75	FAULT ZONE Fault zone @ 40° tea: sericite + chlorite ± quartz; strongly deformed, laminated to schistose with 20-30% wispy sericite + chlorite and 2 stages of quartz veinlets: 1) Parallel to schistosity; 2) Later cross-cutting quartz ± chlorite veinlets (1-2 mm).	6912	44.55	45.05	0.50			Fault zone	nil		

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

HOLE: AK-90-14

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/l	Au, Check	Au*M
44.75	46.85	Contains 4 cm wide aphanitic pink feldspar (?) vein which is cut by sericite slips and late, cross-cutting quartz veinlets. COARSE HETEROLITHIC LAPILLI-TUFF This unit is quite distinctive, consisting of very poorly sorted, angular to well rounded clasts up to 10-15 cm (avg. 5 cm) in a fine grained red-purple, hematized matrix; clasts are dark red-purple to pink (porphyritic) to light green-brown (sericitized) trachyte; unit is non-magnetic; lower contact is sharp sericite slip @ 20° tea.	6913	45.05	46.00	0.95		Massive bleached Lapilli Tuff	nil		
			6914	46.00	46.90	0.90			0.01		
46.85	60.00	BLEACHED ASH-TUFF / LAPILLI-TUFF Light green-brown to red, very fine grained, well-bedded ash-tuff and fine grained lapilli-tuff, with bedding @ 60° tea; matrix is very fine grained altered, sericitized rock fragments in a bleached aphanitic sericitized groundmass; the unit is overall very massive, i.e. undeformed; where somewhat coarser it is comprised of 30-40% red trachyte clasts (1-2 mm) in a highly altered, sericitic groundmass; it is non-magnetic and in part contains light green, aphanitic, altered mudstone beds up to 5 cm wide; (this unit appears to be related to a facies change from coarse trachytes in north to sediments in south); lower contact is strong mud-break from 60.00 - 60.20 m.	6915	46.90	48.00	1.10		Bleached sericitized Tuff	0.02		
			6916	48.00	49.00	1.00			0.02		
			6917	49.00	50.00	1.00			0.01		
			6918	50.00	51.00	1.00			0.02		
			6919	51.00	52.00	1.00			0.01		
	52.55	Fault @ 30° tea: chlorite + quartz; 1 cm fractured to brecciated quartz vein with sharp chlorite slip and chlorite cementing vein fragments.	6920	52.00	53.00	1.00			nil		
	53.45 - 53.50	Fault breccia @ 40° tea; brecciated, white-pink 1 cm quartz vein, with dark green, aphanitic chlorite groundmass.	6921	53.00	54.00	1.00			0.01		
	54.15 - 55.00	70% core recovery; blocky, rubble core due to 0.5 cm chlorite + sericite + quartz + calcite slip sub-parallel tea.	6922	54.00	55.00	1.00		Blocky core - subparallel fault	0.01	0.01	
			6923	55.00	56.00	1.00	70		0.01		
			6924	56.00	57.00	1.00			nil		

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

HOLE: AK-90-15

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 13 1990	EASTING	8200.00
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	9970.00
CLAIM No.	L 491663	SIGNED BY	<i>W.B.</i>	ELEVATION	
STARTED	November 10, 1990	DRILLED BY	Heath & Sherwood	LENGTH	102.75
COMPLETED	November 11, 1990	SURVEYED BY		UNITS	metres
PURPOSE	To test '100' structure and low magnetic and IP anomalies	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	No anomalous assays				

DEPTH	AZIMUTH	DIP
Collar	341	45
38.00		45
76.00		43

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 0.60	CASING					
0.60 33.15	COARSE LAPILLI TUFF					
33.15 36.30	FAULT ZONE @ 40° tca					
36.30 72.70	LAPILLI TUFF Well foliated @ 50° tca					
72.70 92.00	63.45 - 63.52 Quartz + sericite, 0.5% pyrite					
92.00 98.50	ASH / LAPILLI TUFF ALTERED ASH TUFF Sericitic, 0.5% pyrite, ± quartz					
98.50 102.75	94.50 - 95.10 5% quartz veinlets with 0.5 - 1% pyrite in wallrocks					
	ASH / LAPILLI TUFF Weakly altered					
102.75	E.O.H.					

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

HOLE: AK-90-15

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS					
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M		
33.15	36.30	FAULT ZONE - MYLONITE Fault zone-mylonite @ 40° tea; very strongly deformed schistose to mylonitic fault consisting of sericite + chlorite + quartz ± calcite ± talc, as 10-15% irregular quartz masses and boudinaged veinlets within highly altered, dark to light green, chlorite + sericite + calcite ± talc, aphanitic groundmass; occasional remnants of tuffaceous clasts are seen locally; lower contact is gradational and displayed by a weakening in the foliation of the surrounding rocks and a prominent decrease in quartz veining.	6957	27.00	28.00	1.00			nil				
			6958	28.00	29.00	1.00			nil				
			6959	29.00	30.00	1.00			nil				
			6960	30.00	31.00	1.00			nil				
			6961	31.00	32.00	1.00			0.02				
			6962	32.00	32.50	0.50			0.01				
			6963	32.50	33.10	0.60			nil				
33.15	36.30	FAULT ZONE - MYLONITE Fault zone-mylonite @ 40° tea; very strongly deformed schistose to mylonitic fault consisting of sericite + chlorite + quartz ± calcite ± talc, as 10-15% irregular quartz masses and boudinaged veinlets within highly altered, dark to light green, chlorite + sericite + calcite ± talc, aphanitic groundmass; occasional remnants of tuffaceous clasts are seen locally; lower contact is gradational and displayed by a weakening in the foliation of the surrounding rocks and a prominent decrease in quartz veining.	6964	33.10	34.00	0.90		Mylonite - fault zone	0.01	0.02			
			6965	34.00	35.00	1.00			0.01				
			6966	35.00	36.00	1.00			0.01				
			6967	36.00	36.50	0.50			0.02				
36.30	72.70	LAPILLI-TUFF Massive to moderately well foliated @ 50° tea, with 10-15% angular, trachytic clasts up to 3 cm (avg. 1 cm) in a fine grained, ash matrix; clasts are from dark to light green to purple to buff and from very fine grained to porphyritic; matrix is from dark purple where hematitic to light green where sericitic; typically weakly magnetic and cut by 1-2% late white quartz and quartz + hematite veinlets (1-3 mm); lower contact is sharp @ 23° tea.											
			36.30 - 48.00	Hematized section, with some sporadic sericitic sections, and more quartz veining (2%) than the non-hematitic sections.	6968	36.50	37.00	0.50		Hematitic Lapilli Tuff	nil		
			48.00	Light to dark green, chloritic.	6969	37.00	37.50	0.50		20 cm irregular white quartz mass in Tuff	0.01		
					6970	37.50	38.50	1.00			0.02		

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

HOLE: AK-90-16

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 14 1990	EASTING	8500.00
TOWNSHIP	Teck	LOGGED BY	W. Benham	NORTHING	10015.00
CLAIM No.	L 477419	SIGNED BY	<i>W. Benham</i>	ELEVATION	
STARTED	November 11, 1990	DRILLED BY	Heath & Sherwood	LENGTH	119.62
COMPLETED	November 13, 1990	SURVEYED BY		UNITS	metres
PURPOSE	To test '100' structure, low magnetic and IP anomalies	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	No anomalous assays				

DEPTH	AZIMUTH	DIP
Collar	341	45
38.00		44
76.00		42
114.00		40

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	CASING		64.70 - 68.20 1 - 2% pyrite			
2.13 12.77	COARSE LAPILLI TUFF		68.20 - 72.80 < 1% pyrite			
12.77 18.55	CONGLOMERATE		72.80 - 78.93 1 - 2% pyrite			
18.55 27.25	LAPILLI TUFF		78.93 - 81.72 2 - 3% pyrite, 3 - 5% quartz			
27.25 29.05	LAPILLI TUFF / CONGLOMERATE	81.72 93.90	ASH TUFF			
29.05 35.95	CONGLOMERATE		81.72 - 86.90 sericitic, 1% pyrite			
	Chloritic, carbonated, ± quartz, trace pyrite		86.90 - 93.90 weakly chloritic, hematitic			
	Well foliated @ 55° tea	93.90 97.00	CONGLOMERATE			
35.95 46.05	LAPILLI to ASH TUFF	97.00 106.40	ASH TUFF			
46.05 47.42	HEMATITIC TUFF	106.40 119.62	ASH TUFF to TUFF			
47.42 60.22	ALTERED CONGLOMERATE					
	Sericitic, silicified					
60.22 61.30	ASH TUFF	119.62	E.O.H.			
61.30 61.88	LAPILLI TUFF					
61.88 62.20	ALTERED LAPILLI TUFF					
	Silicified, sericitic, 1% pyrite					
62.20 81.72	ALTERED CONGLOMERATE					
	62.20 - 64.70 10 - 15% sericite, 3 - 5% pyrite, 10 - 15% grey quartz					

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

HOLE: AK-90-16

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
27.25	29.05	LAPILLI-TUFF / CONGLOMERATE 0.25 to 5 cm red trachyte and feldspar-porphyr clasts in a green tuffaceous matrix.									
29.05	35.95	CONGLOMERATE / SHEAR ZONE Rounded to stretched quartz, jasper, syenite, mafic volcanic, and trachyte pebbles in well foliated, carbonated, chloritic, graywacke matrix (30%); trace pyrite in matrix and some pebbles; moderately to well foliated @ 50-60° tca.									
		30.45 Banded, 30 cm quartz-carbonate-chlorite vein @ 70° tca.	11572	29.00	30.00	1.00			nil		
			11573	30.00	31.00	1.00			0.02		
			11574	31.00	32.00	1.00			nil		
		32.55 2 cm quartz-calcite-chlorite veins @ 60° tca.	11575	32.00	33.00	1.00			nil		
		33.50 0.5-2.0 cm grey quartz-carbonate vein @ 60° tca with trace pyrite.	11576	33.00	34.00	1.00			0.01		
		34.80 - 35.30 Chloritic fault zone @ 50° tca with 25% white, salmon pink, 0.5-15 cm quartz carbonate veining @ 40°-50° tca, trace pyrite.	11577	34.00	34.70	0.70			0.01		
			11578	34.70	35.40	0.70			nil		
		34.84 - 34.97 White quartz-carbonate-chlorite vein @ 45° tca.	11579	35.40	36.00	0.60			nil	nil	
35.95	46.05	LAPILLI-TUFF / ASH-TUFF Interbedded ash- to lapilli-tuff; 0.25 to 3 cm red to green trachytic clasts in tuffaceous matrix; 15-30 cm dark green ash-tuff units, weakly bedded @ 50°-55° tca; strongly magnetic, trace pyrite, harder in the down hole direction.									
		35.95 - 36.65 Dark green-brown, fine grained, brecciated with dark green-black chloritic matrix.	11580	36.00	36.80	0.80			0.01		
		37.37 - 37.55 Dark green-brown, fine grained, brecciated with dark green-black chloritic matrix.	11581	36.80	37.60	0.80			nil		
46.05	47.42	HEMATITIC TUFF Red to dark red, hematitic, strongly magnetic tuff; trace pyrite, 1% 0.1 mm quartz veinlets; upper contact sharp alteration front @ 55° tca; lower contact gradational.									
			11582	46.00	47.00	1.00			0.01		
			11583	47.00	47.50	0.50			nil		

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

HOLE: AK-90-16

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au. g/t	Au,Check	Au*M
47.42	60.22	ALTERED CONGLOMERATE									
	48.42 - 52.25	Green-brown-mauve, altered conglomerate; rounded to angular pebbles in an altered, hard "silicified" graywacke matrix; 3-5% pervasive sericite; 1-2%, 0.1-0.5 cm, quartz veinlets; trace fine to medium grained pyrite.	11584	47.50	48.50	1.00			nil		0.01
			11585	48.50	49.50	1.00			nil		
			11586	49.50	50.50	1.00			0.01		
			11587	50.50	51.30	0.80			nil		
			11588	51.30	52.25	0.95			nil		
	52.25 - 55.80	Bleached, sericitic altered section, yellow-green-brown-pink-purple; hard and siliceous; rounded to angular quartz grains in an altered sericitic matrix, with 10-15% sericite; <1%, 0.1-1 cm quartz veinlets; trace disseminated pyrite; upper and lower contacts gradational.	11589	52.25	53.00	0.75			nil		
			11590	53.00	54.00	1.00			nil		
			11591	54.00	55.00	1.00			nil		
			11592	55.00	55.80	0.80			0.01		
	55.80 - 60.22	Brown to green to purple, hard "silicified" sericitic to hematitic conglomerate with rounded to fractured angular pebbles in a quartz + sericite matrix; trace pyrite in matrix; pebbles consist of altered trachyte, porphyritic-syenite and quartz; 3-5% sericite in fractured matrix.	11593	55.80	56.50	0.70			nil		
			11594	56.50	57.50	1.00			nil		
			11595	57.50	58.50	1.00			nil		
			11596	58.50	59.50	1.00			nil		
			11597	59.50	60.20	0.70			0.01		
60.22	61.30	ASH-TUFF Green, with bleached, light-white to green fractures; fine grained, massive, trace pyrite; lower contact sharp @ 45° tea.	11598	60.20	61.20	1.00			nil		
61.30	61.88	LAPILLI-TUFF Dark green, mottled texture due to irregular 0.5-2 cm quartz- albite clots and veinlets; hard.	11599	61.20	61.70	0.50			0.01		
61.88	62.20	ALTERED LAPILLI-TUFF Hard, quartz-rich rock, weakly foliated @ 60° tea, fractured, cracked, 0.2 x 1.0 cm quartz fragments; 5-10% sericitic matrix; 1% disseminated pyrite.	11600	61.70	62.20	0.50			nil		

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

HOLE: AK-90-16

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
62.20	81.72	ALTERED CONGLOMERATE Sheared, sericitic, pyritic conglomerate with sub-rounded to sub-angular, quartz, jasper, fuchsite, trachyte, syenite and mudstone pebbles, 0.25-20 cm in diameter in a hard, quartz rich, sericitic graywacke matrix; 5-15% sericite as wispy bands up to 0.5 cm wide and in fractures throughout the matrix, foliated @ 50°-60° tca.									
62.30		2-3 cm broken fault gouge @ 50° tca.	11601	62.20	62.70	0.50			0.02		
62.20 - 64.70		10-15% yellow to brown sericite bands @ 50°-60° tca with 3-5% finely disseminated pyrite; < 0.5% coarse pyrite in matrix; 10-15% dark grey to grey quartz-rich "lenses" and zones, 0.5-20 cm wide with 2-3% finely disseminated pyrite; 1-2% irregular veinlets and clots of white quartz-albite.	11602	62.70	63.20	0.50			0.02		
			11603	63.20	63.70	0.50			0.02		
			11604	63.70	64.20	0.50			0.02	0.01	
			11605	64.20	64.70	0.50			0.01		
64.70 - 68.20		Altered conglomerate; hard; 1-2% finely disseminated pyrite; 3-5% sericite.	11606	64.70	65.20	0.50			0.01		
			11607	65.20	66.20	1.00			0.01		
			11608	66.20	67.20	1.00			0.01		
			11609	67.20	68.20	1.00			0.01		
68.20 - 72.80		<1% disseminated pyrite; trace medium grained pyrite; softer, 3-5% sericite in matrix.	11610	68.20	69.20	1.00			0.01		
			11611	69.20	70.20	1.00			0.01		
			11612	70.20	71.20	1.00			0.01		
71.84 - 71.95		White quartz-ankerite vein @ 45° tca with chlorite filled fractures; trace molybdenite (?) along fractures and vein contacts.	11613	71.20	72.20	1.00			0.01		
			11614	72.20	72.80	0.60			0.01		
72.80 - 78.93		2-3% white irregular quartz-albite clots in matrix; hard, 1-2% disseminated pyrite, <0.5% medium grained pyrite.	11615	72.80	73.80	1.00			0.01		
			11616	73.80	74.80	1.00			0.02	0.01	
74.35		0.5 cm fault gouge @ 55° tca.	11617	74.80	75.80	1.00			0.01		
			11618	75.80	76.80	1.00			0.02		
			11619	76.80	77.60	0.80			0.02		
			11620	77.60	78.10	0.50			0.02		
78.12 - 78.93		Darker grey 3-5% white quartz albite, 5-10% quartz veining or flooding; 3-5% finely disseminated pyrite.	11621	78.10	78.80	0.70			0.02		
			11622	78.80	79.40	0.60			0.02		

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

HOLE: AK-90-16

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
81.72	93.90	78.93 - 81.72 Lighter grey-brown, 5-10% pervasive sericite alteration; hard; 2-3% pyrite; 3-5% grey quartz flooding. ASH-TUFF	11623	79.40	80.10	0.70			0.03		
			11624	80.10	81.00	0.90			0.03		
			11625	81.00	81.75	0.75			0.02		
81.72	86.90	81.72 - 86.90 Light brown to yellow-green, hard, 10% pervasive sericite alteration; 3-5% 1 mm green chlorite spots and fracture fillings; trace to locally 1% disseminated pyrite over 5-10 cm.	11626	81.75	82.60	0.85			0.02		
			11627	82.60	83.40	0.80			nil		
			11628	83.40	84.40	1.00			0.01		
			11629	84.40	85.40	1.00			0.01		
			11630	85.40	86.40	1.00			0.02		
			11631	86.40	86.90	0.50			0.01	0.01	
93.90	97.00	86.90 - 89.35 Light brown to pink-brown; softer than above section; 1-2%, < 1 mm green chlorite "spots"; trace pyrite. 89.35 - 93.90 Pink, weakly hematitic, sericitic, 1-2% chlorite porphyroblasts. CONGLOMERATE Rounded to sub-rounded, 0.25 to 5.0 cm, syenite, mudstone, trachyte, quartz, mafic volcanic and fuchsite pebbles in fine to medium grained, pink graywacke matrix; beds 30 to 80 cm thick, with fining in the down hole direction; weak to moderate alteration consisting of pervasive sericite and hematite.									
		97.00 - 106.40 ASH-TUFF Fine-medium grained, pink to light brown tuff with some 5-10 cm wide lapilli-tuff beds, sericitic, hematitic.									
97.00	106.40	97.00 - 99.55 3%, 0.1 to 15 cm, barren, white quartz + albite + ankerite veins and breccia zones. 98.62 - 98.60 2-10 cm, quartz + carbonate breccia veins with 0.2 to 3 cm, angular, altered, sericitic tuff fragments in 45% quartz-ankerite matrix.	11632	97.60	98.60	1.00			0.01		
			11633	98.60	99.60	1.00			0.01		

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

HOLE: AK-90-17

PAGE: 1 of 6

PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 14 1990	EASTING	8370.00
TOWNSHIP	Teck	LOGGED BY	M. Masson	NORTHING	10210.00
CLAIM No.	L 491663	SIGNED BY	<i>W.B.</i>	ELEVATION	
STARTED	November 13, 1990	DRILLED BY	Heath & Sherwood	LENGTH	56.55
COMPLETED	November 14, 1990	SURVEYED BY		UNITS	metres
PURPOSE	To test 102-8350 zone above AK-90-04	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	102-8350 Mineralized zone intersected at 24.25 - 32.58m				

DEPTH	AZIMUTH	DIP
Collar	341	45
38.00		45

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 2.50	CASING					
2.50 3.25	LAPILLI TUFF		34.95 - 36.00 sericitic	24.20 32.58	8.38	0.80
	Foliation @ 45° lca					
3.25 13.65	ASH TUFF - / LAPILLI TUFF					
13.65 19.30	ALTERED LAPILLI TUFF	56.55	E.O.H.			
	5 - 10% sericitic			including		
19.30 24.25	LAPILLI TUFF			24.20 24.90	0.70	1.55
	Weakly altered			24.90 28.00	3.10	0.21
24.25 32.58	QUARTZ - PYRITE ZONE			28.00 32.58	4.58	1.08
	24.25 - 24.70 1% finely disseminated pyrite					
	24.70 - 24.90 Quartz breccia vein, 1 - 2% pyrite					
	24.90 - 26.50 1% pyrite					
	26.50 - 26.92 3 - 5% pyrite					
	26.92 - 31.35 Patchy 3 - 5% pyrite					
	31.35 - 31.45 Blue quartz vein, 1 - 3% pyrite					
	31.45 - 32.58 0.5% pyrite					
32.58 34.95	SYENITE / ALTERED TUFF					
	Hematitic, gradational contacts					
34.95 56.55	LAPILLI TUFF					

BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG

HOLE: AK-90-17

PAGE: 4 of 6

INTERVAL		DESCRIPTION	SAMPLE				DESCRIPTION	ASSAYS		
FROM	TO		No.	FROM	TO	Length		% Rec	Au, g/t	Au, Check
	24.25 - 24.70	Upper contact of zone is very vague and appears to coincide with sharp, tight (≤ 0.5 mm) chlorite + quartz slip @ 40° tea; no pyrite is notable up hole; 0.5-1% very finely disseminated pyrite within sericitized lapilli tuff matrix and $\leq 0.5\%$, ≤ 0.5 mm, pyrite wormy sutures throughout; at 24.50 m there is a 2 cm wide grey-green sericite schist with 2-3% disseminated and blebby pyrite.	6995	24.20	24.70	0.50			1.13	
	24.70 - 24.90		Multiphase quartz breccia vein of fractured and brecciated light grey aphanitic siliceous inclusions, up to 0.5 cm wide, within later buff-white irregular quartz veins (1-3 mm) and as angular brecciated masses within very fine grained siliceous groundmass; some strongly sericitized lapilli clasts are still evident within the siliceous matrix; pyrite as very fine grains along irregular sericitic sutures; very finely disseminated pyrite in matrix and as coarse pyritic clots (≤ 1 mm) with dark chloritic rims; overall pyrite content 1-2%.	6996	24.70	24.90	0.20			2.54
	24.90 - 26.50	Pyritized lapilli-tuff, essentially undeformed, but sericite altered lapilli-tuff with 10% coarse, angular lapilli clasts within a light green, sericitized matrix; cut by $\leq 1\%$ late white quartz veinlets; 0.5-1.0% pyrite as: 1) Very fine grained pyrite within selective lapilli clasts with up to 10-15% of clast being replaced. 2) Finely disseminated pyrite within matrix, but preferentially located within patchy, strongly sericitic zones within matrix;	6997	24.90	25.50	0.60			0.38	
			6998	25.50	26.40	0.90			0.25	
	26.50 - 26.92	Very irregular but sharp contacts to anastomosing sericite + pyrite alteration zone with 3-5% very finely disseminated pyrite (dark grey) in sericite-schist groundmass; pyrite also replaces some clasts, as well as forming dense, dark grey masses of 3-5% pyrite in sericite schist.	6999	26.40	27.00	0.60			0.24	

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

HOLE: AK-90-17

PAGE: 6 of 6

INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au *M
34.95	56.55	<p>LAPILLI-TUFF (HETEROLITHIC) Massive, poorly sorted grey-green, locally strongly magnetic; 5%, angular, 5 cm (avg. 1 cm) trachytic clasts, quite variable in texture and colour, in a fine grained trachyte-ash matrix.</p> <p>35.00 - 56.55 Massive grey-green, with 10% angular to sub-rounded, pink-brown porphyritic or buff-grey to dark green, fine grained trachyte clasts in a fine grained ash matrix of 30% fine rock fragments in an aphanitic groundmass.</p> <p>53.35 - 54.45 7 cm wide fault breccia @ 40° 1ca of angular, moderately sericitized wall rock fragments in a dark green chloritic groundmass.</p>									
	56.55	E.O.H.									
			7011	35.00	36.00	1.00		Sericitized Lapilli Tuff	nil		
			7012	36.00	37.00	1.00			0.02		
			7013	37.00	38.00	1.00		Massive Lapilli Tuff	nil		

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

HOLE: AK-90-18

PAGE: 1 of 6

PROPERTY	Amalgamated Kirkland	DATE LOGGED	Nov. 15-16 1990	EASTING	8370.00
TOWNSHIP	Teck	LOGGED BY	M. Masson	NORTHING	10185.00
CLAIM No.	L 491663	SIGNED BY	<i>W. B. Heath</i>	ELEVATION	
STARTED	November 14, 1990	DRILLED BY	Heath & Sherwood	LENGTH	77.90
COMPLETED	November 15, 1990	SURVEYED BY		UNITS	metres
PURPOSE	To test 102-8350 Gold Zone above AK-90-04 and below AK-90-17	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	102-8350 zone intersected at 61.00 - 67.70m				

DEPTH	AZIMUTH	DIP
Collar-	341	45
38.00		45
76.00		44

SUMMARY LOG

ASSAY SUMMARY

INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g./t
0.00 3.50	CASING	77.90	E.O.H.	61.00 67.70	6.70	1.67
3.50 14.50	ASH TUFF - / LAPILLI TUFF			including		
14.50 17.75	CONGLOMERATE			62.00 63.00	1.00	2.09
17.75 19.15	ASH TUFF - / LAPILLI TUFF			64.90 67.70	2.80	3.14
19.15 20.40	CONGLOMERATE			including		
20.40 49.10	ASH TUFF - / LAPILLI TUFF			67.20 67.70	0.50	16.40
49.10 50.20	FAULT ZONE @ 30° tca					
50.20 60.50	SERICITIC LAPILLI TUFF					
60.50 63.60	PYRITE - QUARTZ ZONE					
	60.50 - 61.00 0.5 - 1% pyrite					
	61.00 - 63.00 3 - 4% pyrite, 5% quartz					
	63.00 - 63.60 0.5% pyrite					
63.60 64.80	SERICITIC TUFF / LAPILLI TUFF					
64.80 66.15	SYENITE					
	0.5 - 2% coarse pyrite					
66.15 76.65	SERICITIC LAPILLI TUFF					
	67.40 - 67.55 Sericite, quartz, pyrite zone @ 50° tca,					
	1 - 2% pyrite					
76.65 77.90	LAPILLI TUFF					

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

HOLE: AK-90-18

PAGE: 4 of 6

INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
		52.50 - 60.10 Less altered, well foliated @ 40°-45° tea, wispy to spotty sericite, with more diffuse, patchy alteration and some primary textures still evident, i.e. lapilli clasts with spotty sericite within well foliated, sericitic tufts; unit is cut by 1%, 1-3 mm wide, late, white quartz veinlets	7019	52.00	53.00	1.00		Fault zone, sericite + chlorite	0.03		
			7020	53.00	54.00	1.00	0.02				
			7021	54.00	55.00	1.00	0.02				
			7022	55.00	56.00	1.00	0.02				
			7023	56.00	57.00	1.00	0.02				
			7024	57.00	58.00	1.00	0.02				
			7025	58.00	59.00	1.00	0.03				
		60.10 - 60.45 Fault zone @ 25° tea: sericite + chlorite; cut by numerous, tight chlorite + sericite slips with weak mud gouge on slip planes, and by 1-2 mm wide chlorite + quartz stringers; pseudo brecciated texture.	7026	59.00	59.90	0.90	0.03				
			7027	59.90	60.40	0.50	0.01				
60.50	63.60	PYRITE QUARTZ ZONE Moderately deformed and altered (5-10% sericite) lapilli-tuff with at least 3 types of pyrite mineralization: 1) Pyrite replacement of certain lapilli clasts; 2) Disseminated pyrite; 3) Stringer pyrite Upper contact of pyrite zone is very abrupt with no pyrite evident further up hole from zone. Total pyrite content is 0.5 - 1%.									
		60.50 - 61.00 Upper, leading edge of sulphide zone is coincident with a quartz breccia and 3 cm wide chlorite breccia veinlets; pyrite as very fine grained stringers and minor disseminations.	7028	60.40	61.00	0.60		0.5 - 1% pyrite in sericitic Lapilli Tuff	0.04		

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

HOLE: AK-90-19

PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 17 1990	EASTING	8425.00
TOWNSHIP	Teck	LOGGED BY	M. Masson	NORTHING	10205.00
CLAIM No.	L 491663	SIGNED BY	<i>W.B.</i>	ELEVATION	
STARTED	November 15, 1990	DRILLED BY	Heath & Sherwood	LENGTH	71.20
COMPLETED	November 16, 1990	SURVEYED BY		UNITS	metres
PURPOSE	To test 102-8425 Gold Zone	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ

DEPTH	AZIMUTH	DIP
Collar	341	45
38.00		46

COMMENTS 102-8425 zone intersected at
34.00 - 40.10m

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 1.22	CASING			34.00 40.10	6.10	0.12
1.22 34.00	LAPILLI TUFF			42.00 42.50	0.50	0.10
34.00 34.90	FAULT ZONE			48.50 49.50	1.00	0.20
34.90 44.62	60% recovery PYRITE - QUARTZ ZONE			54.20 54.60	0.40	6.30
	34.90 - 35.20 1 - 2% pyrite, 10% quartz					
	35.20 - 35.85 0.5 - 1% pyrite					
	35.85 - 36.60 3 - 4% pyrite, 10 - 15% quartz breccia zones					
	36.60 - 39.00 0.5 - 1% pyrite					
	39.00 - 40.05 2 - 3% pyrite					
	40.05 - 44.62 0.5% pyrite					
44.62 48.45	SYENITE					
48.45 71.20	SERICITIC LAPILLI TUFF / TUFF					
	54.20 - 54.55 quartz + pyrite zone @ 55° tea 3 - 4% pyrite, 80% quartz, 10 - 15% sericite, chlorite, carbonate gangue					
71.20	E.O.H.					

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

HOLE: AK-90-19

PAGE: 3 of 5

INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/l	Au, Check	Au *M
	34.90 - 35.20	Highly sericitic and deformed (no primary textures preserved), with 1-2% very finely disseminated pyrite throughout; cut by 10% irregular white-grey quartz ± chlorite veinlets and masses; lower contact is a strong 1 cm wide sericite + pyrite schist with disrupted quartz fragments included within it; down hole side of schist is marked by a 1 mm chlorite + quartz veinlet @ 60° tca.	7043	34.90	35.25	0.35		Strongly deformed sericite + pyrite schist bands (2mm - 1cm wide), overall pyrite 1 - 2%	0.15		
	35.20 - 35.85	Altered lapilli-tuff; strongly sericitized, foliated (47° tca) lapilli-tuff (primary clasts preserved) with 0.5-1% disseminated pyrite as <= 0.5 mm subhedral grains and as very fine pyrite + sericite slips, <= 1 mm wide.	7044	35.25	35.85	0.60		Lapilli Tuff, 0.5 - 1% pyrite	0.08		
	35.85 - 36.60	10-15% white-grey quartz breccia zones up to 10 cm wide; fractured, brecciated and boudinaged quartz vein material within an altered wall rock + sericite pyrite groundmass; 3-4% total pyrite.	7045	35.85	36.60	0.75		Quartz breccia veins, 3 - 4% pyrite in sericite schist	0.24		
	36.60 - 39.00	Altered lapilli tuff, light yellow-green, sericitized, with primary trachytic clasts; altered but not strongly deformed; 0.5% disseminated subhedral pyrite throughout and as dark grey pyrite + sericite shears up to 2 mm wide that contain up to 20-25% pyrite; some clasts also display pyrite replacement; 0.5-1% pyrite.	7046	36.60	37.00	0.40		Pseudo-brecciated Tuff with 2 - 3 % pyrite	0.11		
			7047	37.00	37.50	0.50		0.5 - 1% disseminated and veinlet pyrite in undeformed, sericitic Lapilli Tuffs	0.02		
			7048	37.50	38.00	0.50			0.02		
			7049	38.00	39.00	1.00			0.02		
	39.00 - 40.05	2-3% sulphide stringers up to 2 mm wide and 10% irregular white quartz veinlets; lower end of Pyrite Zone is marked by a sharp, 1-2 mm wide, sericite + pyrite shear proximal to a series of small (1-3 mm) <i>en echelon</i> quartz veinlets.	7050	39.00	39.60	0.60		2 - 3% disseminated pyrite and 10% quartz veining	0.33	0.27	
			7051	39.60	40.10	0.50		1 - 2% pyrite in altered Lapilli Tuff	0.16		
	40.05 - 44.62	Bleached, sericitized lapilli-tuff with <= 0.5% disseminated pyrite in matrix and minor pyritic slips, generally less than 1-2 mm wide.	7052	40.10	41.00	0.90		Sericitized Lapilli Tuff with 0.5% disseminated pyrite	0.04		
			7053	41.00	41.40	0.40			0.04		
			7054	41.40	42.00	0.60		1 - 2% pyritic shears and veinlets along narrow quartz veinlets, 3 - 5% quartz veining	0.08		

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

HOLE: AK-90-19

PAGE: 4 of 5

INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
44.62	48.45	44.20 - 44.60	7055	42.00	42.50	0.50		0.5% pyrite along tight slips and vein boundaries	0.10		
			7056	42.50	43.45	0.95		0.5 - 1% pyrite + 2 - 3% quartz veining	0.04		
			7057	43.45	44.20	0.75		< 0.5% disseminated pyrite in sericitized Tuff	0.01		
			7058	44.20	44.65	0.45		1% pyrite in < 1 cm wide, tight chlorite + sericite + quartz shears	0.04		
48.45	71.20	RED ALTERED ROCK (SYENITE (?)) Lower contact of unit is sharp and irregular, and appears to be intrusive, with moderate sericite at contact zone.									
		44.60 - 45.90	7059	44.65	45.30	0.65		Bleached sericitized syenite? possibly Tuff	0.03		
		45.90	7060	45.30	45.90	0.60			0.01		
		45.90 - 48.45	7061	45.90	46.80	0.90		Massive red Syenite	0.01		
			7062	46.80	47.50	0.70		Syenite	0.01		
			7063	47.50	48.00	0.50			0.01		
			7064	48.00	48.50	0.50		Sericitized Syenite at contact	0.01		
		BLEACHED LAPILLI-TUFF / TUFF Massive, light brown (bleached) to green, with 10-15% coarse trachytic clasts up to 3-4 cm, which quite frequently have altered, diffuse boundaries which fade into a light brown very fine to aphanitic bleached groundmass; a majority of the clasts are 0.1-5 cm, medium grained, black-white salt and pepper textured trachytes which gives	7065	48.50	49.50	1.00		Bleached Lapilli Tuff	0.18	0.21	
			7066	49.50	50.50	1.00			0.04		
			7067	50.50	51.50	1.00			0.02		
			7068	51.50	52.50	1.00			0.01		

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

HOLE: AK-90-20

PAGE: 1 of 7

PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 19 1990	EASTING	8425.00
TOWNSHIP	Teck	LOGGED BY	M. Masson	NORTHING	10170.00
CLAIM No.	L 491663	SIGNED BY	<i>W.B.</i>	ELEVATION	
STARTED	November 16, 1990	DRILLED BY	Heath & Sherwood	LENGTH	99.60
COMPLETED	November 17, 1990	SURVEYED BY		UNITS	metres
PURPOSE	To undercut hole AK-90-20 and test the 102-8425 gold zone	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	The 102-8425 zone was intersected at 78.50 - 81.60 m				

DEPTH	AZIMUTH	DIP
Collar	341	45
38.00		44
76.00		42

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	CASING			78.50 81.60	3.10	1.59
1.50 32.30	LAPILLI TUFF					
32.30 33.50	FAULT ZONE @ 25 ° tca					
33.50 68.85	LAPILLI TUFF					
68.85 73.25	LAPILLI TUFF			78.50 81.00	2.50	1.94
	Sericitic, hematitic					
73.25 78.50	SERICITIC TUFF					
78.50 81.60	PYRITE - QUARTZ ZONE					
	2 - 3% pyrite, 2 - 5% quartz veining, sericitic					
81.60 85.30	SYENITE					
	2 - 5% white quartz veining					
85.30 90.00	LAPILLI TUFF					
	Weakly sericitic					
	89.85 - 90.00 Chloritic breccia, 1% quartz veining, trace pyrite					
90.00 99.60	LAPILLI TUFF					
	Moderately sericitic					
99.60	E.O.H.					

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

HOLE: AK-90-20

PAGE: 2 of 7

INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au* M
0.00	1.50	CASING									
1.50	32.30	<p>LAPILLI-TUFF / HETEROLITHIC LAPILLI-TUFF Massive to moderately well foliated with prominent clast elongation @ 45°-50° tca; light grey to dark grey-green, with 5-25%, 0.2-5 cm (avg. 1 cm), angular to sub-rounded, light buff pink to dark green to purple, aphanitic to porphyritic trachytic clasts; matrix of 15-20%, <1 mm lithic clasts in a very fine grained, grey-white groundmass; variable from clast rich to clast poor lapilli-tuffs, and in part intercalated with <= 0.5 m ash-tuff horizons; bedding defined by alternating ash-tuff and lapilli-tuff beds and <= 0.5 mm magnetite layers @ 40°-50° tca; weakly magnetic except proximal to magnetite beds.</p> <p>3.85 Fault @ 35° tca: sericite + ankerite; tight sericite slip with 1-2 cm wide ankerite stain in wall rock.</p> <p>5.15 - 5.25 Fault @ 40° tca: sericite + ankerite; well foliated to schistose zone with strong ankerite staining.</p> <p>9.00 - 9.15 Fault @ 45 deg. tca: sericite + chlorite + ankerite; ankeritic, rusty stained sericite + chlorite schist with minor vuggy calcite infilling.</p> <p>9.15 - 15.00 Ash-tuff, fine grained, massive to well bedded @ 50° tca; contacts with lapilli-tuff are quite gradational.</p> <p>At approximately 21 metres the tuffs become notably hematized with sporadic patchy purple colour; in places hematite is seen to be replacing magnetite beds within ash-tuff which also become moderately to strongly sericitized with 5-10% wispy spotty sericite.</p> <p>23.75 - 24.50 Bleached, silicified zone, light green strongly sericitized and cut by a dirty buff brown, 15 cm wide quartz + ankerite vein which is fractured and rehealed by light brown quartz + ankerite veining; walls are irregular and some what diffuse.</p>									
			7075	23.00	23.70	0.70		Hematized Ash Tuff	nil		
			7076	23.70	24.50	0.80		Sericitized Tuff with 15 cm quartz + ankerite vein	0.01		

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

HOLE: AK-90-20

PAGE: 4 of 7

INTERVAL		DESCRIPTION	SAMPLE				DESCRIPTION	ASSAYS		
FROM	TO		No.	FROM	TO	Length		% Rec	Au, g/t	Au, Check
40.20 - 44.55		Light to dark green, weakly sericitized and stockworked by 5% late, barren, 0.1-0.5 cm wide, white quartz veinlets.								
44.15 - 44.25		Fault @ 50° tca: sericite + chlorite; sharp, tight, sericitic slips with rock flour and minor, <= 1 mm, white quartz veinlets.								
44.55 - 45.85		Pervasively hematized lapilli-tuff, dirty brown-purple, moderately well foliated @ 50° tca.								
45.85 - 45.90		Fault @ 40° tca: sericite + chlorite + quartz; strong, tight mud break with a 1-2 cm wide white-pink quartz vein with sharp chloritic boundaries.								
45.90 - 68.85		Quite variable in colour from dirty brown to light green, with 5-25% angular, average 1 cm, trachyte clasts (heterolithic) in a fine grained ash matrix of 5-25% lithic clasts in a very fine groundmass; weak to moderate sericite, as fine spots and irregular wisps throughout.								
54.00 - 54.10		Massive, barren, white-brown quartz + ankerite vein with sericite + chlorite suturing.	7078	53.80	54.20	0.40		10 cm barren, white quartz vein	0.02	
62.10 - 62.30		Fault @ 45° tca; contacts of fault are sharp tight sericitic slips; interstitial 20% sericitized host rock and 80% white to pink to brown quartz which in turn has been pseudo-brecciated by sericitic sutures and by a later, cross-cutting quartz + chlorite + calcite veinlets which have smeared pyrite on some of the slip faces (< 0.5% total pyrite)	7079	61.50	62.00	0.50		Moderately sericitic Lapilli Tuff	0.01	
			7080	62.00	62.45	0.45		10 cm buff, brown-pink, quartz vein	0.01	0.01
			7081	62.45	63.00	0.55		Lapilli Tuff	0.01	
68.85		Fault @ 40° tca: sericite + chlorite + quartz; 0.5 cm white buff quartz veinlet on sharp chlorite + sericite slips; adjacent wall rock up to 2 cm from vein is cut by numerous chloritic slips.								
68.85 - 73.25		Dirty red-brown (purple hues), moderately sericitized lapilli-tuff, with 5-10% angular trachytic clasts up to 2 cm (avg. 0.5 cm), which are both hematized (purple) and sericitized (light green), in a very fine grained grey-white matrix.	7082	72.00	73.00	1.00		Weakly hematized Lapilli Tuff	0.01	
			7083	73.00	73.50	0.50		Weakly sericitic Lapilli Tuff	0.05	

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

HOLE: AK-90-20

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INTERVAL		DESCRIPTION	SAMPLE				DESCRIPTION	ASSAYS						
FROM	TO		No.	FROM	TO	Length		% Rec	Au, g/t	Au, Check	Au*M			
78.50	81.60	73.25 - 75.00	Sericitized tuff; upper contact is quite gradational with a lighter colour (dirty brown → light green) from 73.25 - 74.00 m until the matrix becomes completely altered to a green-white colour at 74.50 m; lapilli clasts are still evident throughout although many are strongly bleached to a light buff; cut by 1-2%, white, 1-3 mm quartz veinlets.	7084	73.50	74.00	0.50	Moderately - strongly sericitic tuff Sericitized Tuff with 1% quartz veins	0.01					
			7085	74.00	74.50	0.50	0.03							
			7086	74.50	75.00	0.50	0.01							
			75.00 - 78.50	Altered tuff (?); massive, light grey-green, with a patchy mottled texture due to irregular alteration fronts within the matrix; locally matrix contains 5-7% subhedral to lath shaped, dark green amphibole (augite ?) crystals up to 1 mm, in a very fine grained, grey-white groundmass; these "augites" have been chloritized where the groundmass contains 3-5% spotty sericite alteration; unit also contains what appear to be relict lapilli clasts which frequently display diffuse altered boundaries.	7087	75.00	76.00	1.00	Sericite + chlorite altered unit with 5% augite	0.02				
			7088	76.00	77.00	1.00	0.01							
			7089	77.00	78.00	1.00	0.01							
			78.00 - 78.50	Increasingly sericitic and contains <= 0.5% disseminated pyrite.	7090	78.00	78.50	0.50	Sericitized Lapilli Tuff with < 0.5% disseminated pyrite	0.03				
		PYRITE ZONE												
		Lower contact is a sharp, tight chlorite + sericite slip @ 60° tca.												
			78.50 - 79.60	Strongly foliated to weakly schistose @ 50°-55° tca; yellow-green matrix is pervasively sericitized with 0.5% disseminated pyrite; locally relict lapilli clasts are still evident and the dark grey ones are partially replaced by pyrite; cut by 5% irregular white quartz veins up to 3 cm wide.										
	78.80 - 78.90	2-3 cm blue-grey silicified zone with 2-3% finely disseminated pyrite; up hole side of this zone is fractured and white buff quartz vein with sericite + pyrite sutures within vein.	7091	78.50	79.00	0.50	Sericitic Tuff with 5% quartz veining and 2 - 3% pyrite	1.11	1.00					

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

HOLE: AK-90-20

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
		79.60 - 81.60	Less strongly deformed, massive to weakly foliated, with 5% angular clasts (dark green to buff) in a strongly sericitized (yellow-green) matrix; pyrite as:	7092	79.00	79.60	0.60		Sericitic Tuff with 2% quartz veining and 2 - 3% disseminated pyrite	2.85	2.50
			1) Up to 5-10% pyrite as replacement within clasts.	7093	79.60	80.10	0.50		Sericitic Lapilli Tuff with 1% pyrite	2.77	3.11
			2) 0.5-1%, fine disseminated pyrite in matrix.	7094	80.10	81.00	0.90		Sericitic Tuff with 2% quartz veining and 1 - 2% pyrite	1.37	1.41
			3) Pyritic stringers, <= 1 mm wide, along wispy, sericitic sutures.								
		80.65	1 cm blue-grey quartz vein with 1% pyrite on vein walls.								
		80.75 - 81.60	Cut by 1-2% black, <= 1-2 mm wide, chlorite ± quartz veinlets and fractures @ 15° tca.	7095	81.00	81.60	0.60		Sericitic Lapilli Tuff 0.5% pyrite	0.12	
81.60	85.30	SYENITE									
		81.60 - 81.90	Strongly sericitized, yellow-green, with 5% fine black subhedral crystals up to 0.5 mm (augite ?) in an aphanitic, sericitized groundmass.	7096	81.60	82.40	0.80		Sericitized Syenite with 5% quartz, quartz + chlorite veining	0.08	
		81.90 - 82.30	Grades into red-brown coloured syenite with 3-5% black subhedral crystals (augite ?); cut by 5% irregular quartz and quartz + chlorite veinlets sub-parallel to core axis.								
		82.30 - 85.20	Massive, red-brown, very fine grained syenite, micro-fractured and infilled with wispy sericite (< 0.5 mm wide). Cut by 2-3% barren white quartz veinlets.	7097	82.40	83.00	0.60		Massive Syenite, 2 - 3% quartz veins	0.06	
				7098	83.00	84.00	1.00			0.02	0.06
				7099	84.00	84.90	0.90			0.02	
		85.20 - 85.30	Weakly sericitized, light brown, with wispy sericite; lower contact is very sharp, irregular, appears intrusive, and is moderately sericitic.	7100	84.90	85.30	0.40		Weakly sericitic Syenite	0.02	

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

HOLE: AK-90-21

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	Nov. 20-21 1990	EASTING	8600.00
TOWNSHIP	Teck	LOGGED BY	M. Masson	NORTHING	10174.00
CLAIM No.	L 477419	SIGNED BY	<i>W.B.</i>	ELEVATION	
STARTED	November 17, 1990	DRILLED BY	Heath & Sherwood	LENGTH	117.70
COMPLETED	November 19, 1990	SURVEYED BY		UNITS	metres
PURPOSE	To test '102' structure, low magnetic and IP anomalies	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	Mineralized '102' structure intersected at 69.00 - 98.95m				

DEPTH	AZIMUTH	DIP
Collar	341	45
38.00		44
76.00		42
114.00		41

SUMMARY LOG

ASSAY SUMMARY

INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 3.40	CASING	93.50 96.50	SYENITE	69.00 98.95	29.95	0.88
3.40 25.00	ASH TUFF		93.50 - 94.30 Sericitic, 2 - 5% pyrite	including		
25.00 28.50	LAPILLI TUFF	96.50 98.90	LAPILLI TUFF	69.00 74.00	5.00	0.75
28.50 44.70	COARSE LAPILLI TUFF		Weakly to moderately sericitic	including		
44.70 58.35	LAPILLI TUFF	98.90 102.75	ASH TUFF - / LAPILLI TUFF	69.60 70.60	1.00	1.49
58.35 69.10	LAPILLI TUFF	102.75 117.70	GRAYWACKE	72.90 73.50	0.60	2.28
	Hematitic		1 - 2% sericite, < 0.5% pyrite			
69.10 74.00	PYRITE - QUARTZ ZONE		113.70 - 117.50 2 - 3% blue grey to white quartz	82.00 86.00	4.00	0.67
	Sericitic, silicified		veinlets, trace pyrite	including		
	1 - 2% pyrite, 1% quartz veining			83.00 83.20	0.20	7.05
74.00 82.55	LAPILLI TUFF	117.70	E.O.H.	85.00 86.00	1.00	1.08
	Weakly sericitic			90.50 98.95	8.45	2.25
82.55 92.80	COARSE LAPILLI TUFF			including		
	Weakly to moderately sericitic			90.50 92.00	1.50	1.24
	83.10 0.5 cm blue quartz vein @ 60° 1ca with			92.00 96.00	4.00	3.94
	2% pyrite			92.00 92.70	0.70	12.87
	92.05 - 92.60 Silicified, 2 - 3% pyrite			95.50 96.00	0.50	9.84
92.80 93.50	SERICITIC LAPILLI TUFF			96.00 98.95	2.95	0.46
	0.5% pyrite			98.55 98.95	0.40	2.25

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

HOLE: AK-90-21

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
		44.70 Fault @ 50° tea: sericite + chlorite + quartz; strong, tight slip with 0.5 cm quartz ± ankerite vein on slip wall. 44.60 - 44.85 Strongly foliated around fault and contains 10% wispy sericite.									
44.70	58.35	LAPILLI-TUFF Massive to weakly foliated, dark grey-brown to purple (where hematitic) with 15-20% angular trachyte clasts up to 2 cm (avg. 0.5 cm) in a fine ash matrix; predominant (30%) clast type is a light brown to buff trachyte, with remainder as heterolithic, dark green to pink trachyte; weak to non-magnetic; lower contact of unit is sharp @ 35° tea (bedding) and marked by a 10 cm wide ash-tuff bed.									
		55.75 - 55.95 Fault @ 60° tea: sericite + chlorite + quartz; strongly foliated to schistose shear zone with strong sericite alteration; contacts are sharp slip planes with 0.5 cm wide buff-pink quartz veining.									
58.35	69.10	LAPILLI-TUFF Massive, dark green to purple (hematitic), with 5-15% angular to sub-rounded, buff-brown to pink to dark green, trachytic clasts up to 4.5 cm (avg. 2 cm); moderately to strongly magnetic; patchy, hematized zones to lower contact.	7108	65.00	66.00	1.00		Massive Lapilli Tuff	0.01		
			7109	66.00	67.00	1.00			nil		
			7110	67.00	68.00	1.00			nil		
			7111	68.00	69.00	1.00			nil		
69.10	74.00	BLEACHED PYRITIC ZONE Upper contact of bleached zone is some what gradational but appears to coincide with a sharp, dark grey, hairline crack @ 25° tea, with smeared pyrite and chlorite.									
		69.10 - 70.35 Light yellow-green to grey-brown lapilli- tuff, bleached but weakly deformed and quite hard; 0.5-1% finely disseminated pyrite throughout matrix; < 1%, irregular white quartz veinlets; matrix is highly altered to an aphanitic, sericitized mass, which is locally	7112	69.00	69.60	0.60		Bleached Lapilli Tuff with 0.5% pyrite 1% disseminated pyrite	0.18		
			7113	69.60	70.10	0.50			1.54	1.44	

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

HOLE: AK-90-21

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
92.80	93.50	SERICITIZED LAPILLI-TUFF Moderately well foliated, light green sericitized matrix with 5% angular, dark grey to green trachyte clasts with selective pyrite replacement (< 0.5% total pyrite); matrix is very fine grained, highly sericitic and contains 1% subhedral augite (?) crystals; upper contact of unit is gradational; lower contact sharp @ 50° tca.	7140	92.70	93.50	0.80		Pyrite replacement of clast in sericitized Tuff	1.02		
93.50	96.50	SYENITE									
	93.50 - 94.30	Light yellow-green due to pervasive sericitization of matrix which is very fine to aphanitic; contains 2-3% black, anhedral crystals (altered to chlorite) up to 1 mm.	7141	93.50	94.00	0.50		Sericitic Syenite with 1 - 2% pyrite and silicified zone @ 93.55 with 3 - 5% pyrite	0.89		
	93.50 - 93.62	Well foliated @ 40°-50° tca, sericitized and contains 2-3% disseminated pyrite.									
	93.55	1 cm dark grey silicified zone with 5% very fine pyrite.									
	94.40	Sericite alteration becomes very weak and gradation into massive light red-brown syenite, with 2-3% irregular, white quartz clots up to 0.75 cm.	7142	94.00	94.50	0.50		Weakly sericitized Syenite with <0.5% pyrite	0.89		
	94.30 - 96.30	Massive, very fine grained, light red-brown with very thin sericite sutures (micro-fractured) in an aphanitic groundmass; cut by 2-3% buff-white, quartz veinlets up to 0.5 cm wide with bleached yellow-green 0.2- 0.5 cm wide alteration halos; << 0.5% pyrite along dark chloritic vein contacts.	7143	94.50	95.50	1.00		Massive Syenite with four 0.1 to 1.0 cm quartz veins, one with pyrite and a green sericitic halo	0.13		
			7144	95.50	96.00	0.50		Four 0.5 to 1.0 cm quartz veins, two with pyrite and green sericitic halos. (All three may be the same folded vein)	10.79	8.88	
	96.30 - 96.50	Light brown, weakly sericitic with strong sericite at very sharp lower contact @ 32° tca.	7145	96.00	96.50	0.50		Lower sericitic contact of Syenite	0.36		

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

HOLE: AK-90-21

PAGE: 7 of 8

INTERVAL		DESCRIPTION	SAMPLE					ASSAYS					
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au. g/t	Au,Check	Au*M		
96.50	98.90	LAPILLI-TUFF 10% angular, buff-brown to pink trachyte clasts up to 2 cm (avg. 1 cm) in a dark green, weakly to moderately sericitized ash matrix; lower contact is sheared @ 50° tea and contains 1% <= 1 mm, subhedral pyrite with black, chloritic rims in sericitic schist.	7146	96.50	97.00	0.50		Massive Lapilli Tuff, weakly sericitic	0.05				
			7147	97.00	98.00	1.00			0.25				
			7148	98.00	98.55	0.55			0.02				
			7149	98.55	98.95	0.40			2.47	2.03			
98.90	102.75	ASH-TUFF / LAPILLI-TUFF WITH MUDSTONE Massive to well foliated (50° tea), grey-green to light green intercalated ash- and lapilli-tuff beds up to 0.5 metre wide which have gradational contacts; very patchy sericite alteration of matrix which locally gives a very mottled texture; contains minor mudstone rip clasts and mud horizons up to 10 cm wide. 101.80 - 101.90 Massive buff-white quartz vein with sharp chloritic boundaries @ 60° tea; lower contact has smeared pyrite dollars and minor disseminated pyrite in a 2 mm white quartz veinlet. 101.90 - 102.75 Lapilli tuff with dark grey trachyte clasts with selective clast replacement by pyrite; contacts are sharp; lower contact sericitic @ 55° tea.	7150	98.95	99.50	0.55		Intercalated Ash / Lapilli Tuff	0.02				
			7501	99.50	100.00	0.50			0.03				
			7502	100.00	101.00	1.00			0.02				
			7503	101.00	101.70	0.70			nil				
						7504	101.70	101.90	0.20		15 cm wide quartz vein with very minor pyrite	0.17	
			7505	101.90	102.80	0.90		Pyrite replaced clasts in Lapilli Tuff, < 0.5% pyrite	0.04				
102.75	117.70	GRAYWACKE Massive, fine grained, equigranular graywacke, 40% rock fragments, up to 1 mm, including jasper, 40% feldspars and 20% quartz; 1-2% spotty pervasive sericite and << 0.5% disseminated pyrite; occasional mudstone clast up to 1-2 cm. 102.85 - 103.40 Dark to light green aphanitic mudstone with sharp contacts.											
			7506	102.80	103.10	0.30		Mudstone interbed in Graywacke Massive Graywacke	0.01				
			7507	103.10	104.00	0.90			0.03				
			7508	104.00	105.00	1.00			0.04	0.07			

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

HOLE: AK-90-22

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 22 1990	EASTING	8825.00
TOWNSHIP	Teck	LOGGED BY	M. Masson	NORTHING	10380.00
CLAIM No.	L 500057 / 477419	SIGNED BY	<i>W. B.</i>	ELEVATION	
STARTED	November 19, 1990	DRILLED BY	Heath & Sherwood	LENGTH	155.30
COMPLETED	November 21, 1990	SURVEYED BY		UNITS	metres
PURPOSE	To test IP and low magnetic anomalies	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	Source at the geophysical anomalies was intersected at 114.00 - 147.90 m				

DEPTH	AZIMUTH	DIP
Collar	161	45
38.00		44
76.00		42
114.00		38
152.00		38

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 1.52	CASING			81.50 82.50	1.00	0.42
1.52 45.30	LAPILLI TUFF					
45.30 58.80	COARSE LAPILLI TUFF			93.60 94.00	0.40	0.36
	Moderately sericitic					
58.80 59.40	FAULT ZONE					
59.40 71.65	ASH TUFF					
	Sericitic					
71.65 114.00	LAPILLI TUFF					
	Strongly foliated, moderately to strongly sericitic					
	82.00 - 82.20 Fault gouge with quartz + ankerite vein					
	93.70 - 93.85 Schistose zone with 1 cm brecciated quartz vein, 1% pyrite					
114.00 147.90	ALTERED LAPILLI TUFF					
	Moderately to strongly foliated, sericitic, chloritic and silicified; 40% , 0.15 - 6.50 m wide, silicified zones with 1 - 5% disseminated pyrite.					
147.90 155.30	LAPILLI TUFF / GRAYWACKE					
	Weakly sericitic					
155.30	E.O.H.					

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

HOLE: AK-90-22

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au *M
0.00	1.52	CASING									
1.52	45.30	LAPILLI TUFF Dark grey to green, massive to moderately well foliated (40° tca) with 10-15% angular trachyte clasts up to 2 cm (avg. 1 cm) in a fine grained grey-green matrix; although heterolithic, approximately 70% of clasts are light grey, fine grained to spotted trachyte; weakly to moderately magnetic, with local zones of hematization.									
	5.10	Fault @ 35° tca: chlorite + sericite + ankerite; strong, tight shear (2 cm wide) with moderate of mud gouge on slip planes; strong ankeritic stain.									
	14.40	Fault @ 35° tca: chlorite + sericite + ankerite + quartz; tight, sharp chloritic slip with 0.5 cm wide quartz + ankerite + sericite schist.									
	15.00	Fault @ 45° tca: chlorite + sericite + quartz ± calcite; 1 cm wide, sharp, tight schist with irregular white-pink quartz ± calcite veinlet.									
	18.10 - 18.60	1 mm wide specularite vein @ 10° tca.									
	31.80 - 32.10	Series of buff-white quartz veinlets up to 3 mm wide @ 37° tca with light brown, alteration halos up to 0.5 cm wide.									
	40.50 - 42.30	Gradually becomes light green and contains 5-10% wispy and spotty sericite.									
	42.30 - 42.70	Cut by 5-10% white-brown, very irregular, quartz ± calcite stringers and masses and by numerous chloritic sutures which gives a pseudo-brecciated appearance.	7633	42.00	43.00	1.00			nil		
	42.70 - 43.70	Dark green, chloritic and very strongly foliated to schistose @ 40° tca and contains 10-15% very tight chlorite + sericite slips.									
	43.65 - 43.70	Fault @ 40° tca: strong chlorite + sericite + mud break, 1.5 cm wide with narrow white quartz + calcite veinlets interstitial to slip planes.	7634	43.00	44.00	1.00			0.01		

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

HOLE: AK-90-22

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
		43.70 - 45.30									
		Weakly-moderately foliated, moderately sericitic with 5-10% wispy and spotty sericite throughout.	7635	44.00	45.00	1.00				0.01	
45.30	58.80	COARSE, HETEROLITHIC LAPILLI-TUFF Upper contact is marked by a 0.5 cm quartz + chlorite vein @ 15° tca; light pale brown, with 15% coarse, angular to sub-rounded, multi-coloured trachyte clasts up to 5 cm (avg. 1-2 cm), in a very fine grained, pale brown, moderately sericitic matrix; non-magnetic; lower contact is strongly faulted, rubbly core.									
		56.50 - 58.80									
		Becomes increasingly deformed and sericitized and cut by 1% barren white irregular quartz veinlets and masses.	7524	58.00	58.80	0.80		Sericitized Lapilli Tuff		0.01	
		57.35									
		Fault @ 40° tca; 1 cm, white, barren quartz vein on sharp chloritic slips.									
58.80	59.40	FAULT ZONE Fault zone @ 50° tca; strongly deformed sericite schist with strong, talcose slip planes throughout, and 1-2% irregular white quartz veinlets; quite rubbly with approximately 65% recovery.	7525	58.80	59.40	0.60	65	Sericite / Talc Schist, fault zone		nil	
59.40	71.65	ASH-TUFF Massive to well foliated dark grey-green; mottled brown where unit displays diffuse, patchy sericite alteration fronts; tuff is fine grained, with 10%, <= 1 mm, black lithic clasts in a pale to dark green aphanitic groundmass; contains 5% wispy, spotty sericite alteration; minor, intercalated lapilli-tuff horizons up to 0.5 metres wide.									
		61.00									
		Fault @ 20° tca; tight chloritic slip with a 2-3 mm wide white quartz veinlet and 2-3 cm of buff-brown sericite alteration on wall rock.	7526	59.40	60.00	0.60		Ash Tuff		0.01	
			7527	60.00	60.90	0.90				nil	
			7528	60.90	61.30	0.40				0.01	
			7529	61.30	62.00	0.70				nil	
			7530	62.00	63.00	1.00				0.04	0.09
			7531	63.00	64.00	1.00				nil	
			7532	64.00	65.00	1.00				nil	

BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG

HOLE: AK-90-22

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS						
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M			
82.00 - 82.20		Fault @ 27° tca; strong mud break with minor late white-brown quartz ± ankerite vein, 2-3 mm wide.	7552	81.50	82.50	1.00			0.35	0.48				
			7553	82.50	83.00	0.50			0.02					
			7554	83.00	84.00	1.00			0.01					
			7555	84.00	85.00	1.00			0.01					
			7556	85.00	86.00	1.00			nil					
			7557	86.00	86.50	0.50			0.01	0.01				
			86.50 - 88.80		Dirty grey-brown, quite soft (sericitic); micro-fractured by numerous chlorite ± quartz stringers up to 1 mm wide.	7558	86.50	87.50	1.00			0.01		
						7559	87.50	88.00	0.50			nil		
						7560	88.00	89.00	1.00			nil		
						7561	89.00	90.00	1.00			nil		
						7562	90.00	91.00	1.00			0.01		
						7563	91.00	92.00	1.00			nil		
			92.40 - 92.70		Series of broken, fragmented white-buff to pink quartz breccia veins up to 2 cm, cemented by dark green chloritic groundmass.	7564	92.00	92.40	0.40			nil		
7565	92.40	92.90				0.50			0.01					
93.70 - 93.85		Well laminated to schistose, with 1 cm wide pseudo-brecciated quartz vein, rehealed by sericite + pyrite stringers; 1% disseminated pyrite.	7566	92.90	93.60	0.70			0.01					
			7567	93.60	94.00	0.40			0.37	0.35				
95.00 - 95.15		Fault @ 15° tca; 3 mm wide chlorite breccia slip sub-parallel to core axis.	7568	94.00	94.95	0.95			0.09					
			7569	94.95	95.50	0.55			0.01					
			7570	95.50	96.00	0.50			0.01					
96.50 - 114.00		Massive, undeformed heterolithic lapilli- tuff with 1% late, barren irregular white quartz veinlets; local zones of hematization.	7571	96.00	96.50	0.50			0.01					
			7572	112.00	113.00	1.00			0.01					
114.00		Fault @ 70° tca; strong, tight (0.5 cm) mud break with gravelly fault gouge.	7573	113.00	114.00	1.00			0.01					

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

HOLE: AK-90-22

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au *M
114.00	147.90	ALTERED, DEFORMED LAPILLI-TUFF - PYRITE ZONE Moderately to strongly deformed, altered (sericitic) and cut by numerous chlorite, sericite, sericite + pyrite ± quartz stringer veinlets and fault slips which locally give rubbly broken core.									
	114.00 - 117.00	Moderately well foliated (@ 50° tca) lapilli- tuff with strongly sericitized matrix; 1-2% barren, white irregular quartz veinlets with no pyrite.	7574	114.00	114.85	0.85		Sericitized, deformed Lapilli Tuff	0.02		
	114.90 - 115.05	Grey-blue silicified zone with 1-2% very fine disseminated pyrite.	7575	114.85	115.30	0.45		Silicified zone with 1 - 2% pyrite	0.02		
			7576	115.30	116.00	0.70			0.01		
			7577	116.00	116.50	0.50			0.01		
			7578	116.50	117.00	0.50			0.01		
	117.00 - 117.80	Strongly foliated and sericitic, cut by numerous sharp, dark grey slips which appear to be sericite + finely smeared pyrite ± molybdenite (?); 2-3% disseminated and wormy pyrite.	7579	117.00	118.00	1.00		Sericitized Tuff with 2 - 3% pyrite	0.01		
			7580	118.00	118.50	0.50			0.01		
	117.80 - 118.50	Moderately deformed, strongly sericitic, with 0.5% finely disseminated pyrite.									
	118.50 - 118.65	Strong tight (2 mm) dark grey mud break with sericite + smeared pyrite @ 70° tca, 2% total pyrite.	7581	118.50	119.00	0.50		Sericitized Tuff with strong mud break and 0.5 - 2% pyrite	0.01	0.01	
	118.90	Fault @ 30° tca; strong, tight mud break with blue-grey smeared sulphides.	7582	119.00	119.50	0.50			0.01		
	119.55 - 120.00	Strongly deformed and sericitized tuff with a very strong, tight blue-grey mud slip @ 15° tca; this break appears to be sericite & pyrite ± molybdenite; 0.5 cm grey-white quartz vein parallel to slip, fractured by narrow sericite + pyrite sutures; 3-5% pyrite.	7583	119.50	120.00	0.50	85	3 - 5% pyrite with strong mud break	0.01		
			7584	120.00	120.90	0.90	90	Sericitized Tuff with 1% quartz and 0.5% disseminated pyrite	0.01		
	120.90 - 121.20	Strongly deformed with 5% pyrite and strong, blue-grey sericite + pyrite slips @ 45° and 10° tca; 0.5 cm wide buff-white quartz vein with 2-3% wormy, dendritic pyrite.	7585	120.90	121.20	0.30		5% pyrite in strongly deformed Tuff	0.01		
			7586	121.20	122.20	1.00		Sericitized Tuff with < 0.5 % pyrite	0.01		
			7587	122.20	122.90	0.70		Sericitic Lapilli Tuff	0.01		

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

HOLE: AK-90-22

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
122.90 - 123.50	123.50	Blue-grey irregular silicified zones with brecciated wall rock fragments to 0.5 cm, with 2-3% very finely disseminated pyrite.	7588	122.90	123.50	0.60	95	2 - 3% pyrite in blue gray silicified zones in strongly deformed Tuff	0.06	0.04	
123.40	123.40	2 mm wide sericite + pyrite + talc schist @ 30° tca.									
123.50 - 124.30	124.30	Strongly foliated to schistose to laminated (sericite + chlorite + quartz) zone with numerous blue-grey slips and irregular white quartz veins; 2% total pyrite as disseminations and pyritic veinlets (sutures).	7589	123.50	124.30	0.80	95	Foliated to schistose zone with 2% pyrite	0.01		
			7590	124.30	124.75	0.45				0.01	
124.75 - 127.50	127.50	Strongly deformed and rubbly with 70-80% total recovery due to very high abundance of strong sericite ± talc ± fuchsite ± quartz schists throughout this section; sericite schist contains 5-10% white to blue-grey quartz veinlets and 3-5% disseminated pyrite.	7591	124.75	126.00	1.25	70	Rubbly core, sericite schist, 2% pyrite	0.01		
			7592	126.00	126.50	0.50	80	Strong sericite + quartz schist, 5% pyrite	0.01		
			7593	126.50	127.50	1.00	70	Rubbly, busted, ground core with 2 - 3% pyrite and 3% blue-white quartz veining	0.01		
127.50 - 128.30	128.30	Less strongly deformed, primary textures still evident, but contains some tightly confined pyritic, silicified zones.	7594	127.50	128.00	0.50		Sericitized Lapilli Tuff with pyritic silicified zones, 3 - 5% pyrite	0.01		
127.70	127.70	2-3 cm wide dark grey silicified zone with 3-5% disseminated pyrite.									
128.15 - 128.30	128.30	Fractured, grey-white silicified zone with 2-3% disseminated pyrite.	7595	128.00	128.30	0.30			0.01		
128.30 - 129.30	129.30	Massive to moderately foliated, moderately sericitized lapilli-tuff with approximately 0.5% stringer pyrite.	7596	128.30	129.30	1.00			0.01		
129.30 - 135.80	135.80	Dark grey silicified zone; primary texture of lapilli tuff maintained locally; however, matrix is light grey, very hard and notably silicified with 1-3% disseminated pyrite; leading edge of this zone is a very sharp hairline pyrite + sericite suture; 2-3% irregular white quartz masses and blebs throughout.	7597	129.30	130.00	0.70		Silicified Tuff with 2% pyrite	0.01	0.01	
			7598	130.00	130.85	0.85			0.01		
			7599	130.85	131.80	0.95		Moderately silicified with 1 - 2% pyrite	0.01		
			7600	131.80	132.50	0.70		Silicified zone with 2 - 3% pyrite	0.01		
			7601	132.50	133.00	0.50			0.01		
			7602	133.00	134.00	1.00			0.01		
			7603	134.00	134.80	0.80			0.01		
			7604	134.80	135.50	0.70			0.02		

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

HOLE: AK-90-22

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au,Check	Au*M
135.80 - 138.15		Highly foliated (@ 50° tca) sericitized lapilli-tuff with 10-15% heterolithic clasts (including some jasper) up to 1 cm (avg. 0.4 cm) buff-brown to grey to fuchsitic altered; matrix is light green, very fine grained with <= 0.5% disseminated pyrite; minor dark grey pyrite + quartz zones up to 3 cm wide centred on a sharp sericite + pyrite slip.	7605	135.50	136.00	0.50		Sericitized Tuff with 1% disseminated pyrite and pyrite + quartz veins Sericitized Tuff with 0.5% pyrite Sericitic Tuff with quartz + pyrite zones @ 137.80 m (3 cm wide)	0.01		
			7606	136.00	136.50	0.50			0.01		
			7607	136.50	137.35	0.85			nil		
			7608	137.35	138.15	0.80			0.01		
			7609	138.15	138.45	0.30			0.02	0.02	
			7610	138.45	139.00	0.55			0.01		
			7611	139.00	140.00	1.00			0.01		
			7612	140.00	140.70	0.70			0.01		
140.70		Sharp chlorite + quartz slip @ 60° tca.									
140.70 - 142.10		Light grey, very fine grained tuff with faint pyrite bands (bedding), 0.5 mm wide at 10°-15° tca, and spaced 0.1-1 cm apart; matrix contains 0.5% disseminated pyrite; lower contact is truncated by a tight (1 mm) sericite slip @ 70° tca.	7613	140.70	141.40	0.70		Ash Tuff with banded pyrite beds? and 0.5% disseminated pyrite	0.02		
			7614	141.40	142.10	0.70			0.01		
142.10 - 143.40		Massive, dark grey, fine grained tuff with weak, spotty sericite alteration and << 0.5% pyrite; weakly silicified.	7615	142.10	142.60	0.50			0.01		
			7616	142.60	143.40	0.80			0.02		
143.40		Sharp, dark grey, sericite + pyrite slip @ 40° tca.									
143.40 - 145.45		Dark grey-white strongly silicified zone; matrix is fine grained grey-white very hard and contains 1-2% disseminated pyrite; 3-5% white, massive to brecciated quartz veins up to 5-6 cm; relict lapilli tuff is still evident locally.	7617	143.40	144.00	0.60		Highly silicified zone with 3 - 4% pyrite Silicified zone, 2 - 3% pyrite	0.01	0.02	
			7618	144.00	144.50	0.50			0.02		
			7619	144.50	145.00	0.50			0.02		
			7620	145.00	145.45	0.45			0.01		

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

HOLE: AK-90-23

PAGE: 1 of 9

PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 26 1990	EASTING	8250.00
TOWNSHIP	Teck	LOGGED BY	M. Masson	NORTHING	10145.00
CLAIM No.	L 491663	SIGNED BY	<i>[Signature]</i>	ELEVATION	
STARTED	November 21, 1990	DRILLED BY	Heath & Sherwood	LENGTH	191.70
COMPLETED	November 25, 1990	SURVEYED BY		UNITS	metres
PURPOSE	To undercut hole AK-90-07	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	The '102' structure was intersected at 129.70 - 168.00m				

DEPTH	AZIMUTH	DIP
Collar	341	55
38.00		55
76.00		55
114.00		54
152.00		54
190.00		50

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	CASING					
1.20 22.50	LAPILLI TUFF					
22.50 23.15	FAULT ZONE @ 30° tca					
23.15 37.00	LAPILLI / ASH TUFF Hematitic, sericitic					
37.00 75.70	LAPILLI TUFF					
75.70 90.70	COARSE LAPILLI TUFF					
90.70 104.50	LAPILLI TUFF	191.70	E.O.H.			
104.50 114.40	COARSE LAPILLI TUFF					
114.40 118.70	LAPILLI / ASH TUFF					
118.70 122.60	LAPILLI TUFF					
122.60 129.70	ASH TUFF					
129.70 131.10	FAULT ZONE @ 50° tca					
131.10 191.70	GRAYWACKE					
	131.10 - 168.00 Sericitic, 2 - 3% chlorite + quartz veinlets, 0.5% pyrite			141.85 142.35	0.50	0.19
	141.85 - 142.10 Fault @ 30° tca, 3 cm quartz vein, trace chalcopyrite					

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

HOLE: AK-90-23

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au* M
		gradational.									
		89.35 Fault @ 55° tca; sharp chloritic slip with 0.5 mm quartz veinlet. 87.35 - 89.85 Moderately sericitized, with 15% wispy and spotty sericite.									
90.70	104.50	LAPILLI-TUFF Massive, dark grey-green, with 5-15% angular, light grey to buff to green trachyte clasts, up to 3 cm (avg. 1 cm); matrix is fine to very fine grained of 10-15% lithic clasts (including minor jasper) in an aphanitic, grey-white, groundmass; moderately magnetic; lower contact gradational.									
104.50	114.40	COARSE, HETEROLITHIC LAPILLI-TUFF Massive, dark green with 15-25% coarse, angular to well rounded trachyte clasts, up to 7 cm (avg. 5 cm), in a very fine grained, dark green matrix; this unit appears quite similar to conglomerate, but no quartz is visible in the matrix and all the clasts, although variable in colour and texture, appear to be trachyte; locally strongly magnetic; gradational contacts.	7636	114.00	114.50	0.50		Massive, coarse Lapilli Tuff	0.01		
114.40	118.70	LAPILLI-TUFF / ASH-TUFF Massive, dark grey to green, intercalated ash- and lapilli-tuff beds up to 1.5 metres wide with both sharp and gradational contacts; ash-tuff beds are massive to weakly laminated @ 50° tca and display irregular light brown, mottled texture due to diffuse sericite alteration fronts proximal to late white quartz veinlets up to 0.5 cm wide.									
		115.75 - 115.90 Series of irregular quartz + chlorite veinlets up to 0.5 cm wide with pink-brown soft mineral (altered feldspar?) and minor blebby chalcopyrite.	7637	114.50	115.00	0.50		Lapilli Tuff	0.03		
			7638	115.00	116.00	1.00			0.04		
			7639	116.00	117.00	1.00			0.03		
			7640	117.00	118.00	1.00			0.01		
			7641	118.00	118.70	0.70		Ash Tuff with weak sericite bleaching	0.03		
			7642	118.70	119.40	0.70			0.05	0.03	

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

HOLE: AK-90-23

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
118.70	122.60	HETEROLITHIC LAPILLI-TUFF Massive to moderately well foliated, with 15% angular to sub-rounded, buff-brown to pink to grey, fine grained to spotted trachyte clasts, up to 3 cm (avg. 1 cm); matrix is a dark green, chloritic and very fine grained ash-tuff.									
	119.70 - 120.35	Fault zone @ 20° tca; very irregular, chlorite + sericite slips @ 20° tca with 15% white-pink quartz veinlets parallel to slip planes and 5% extensional ladder veinlets @ 90° to slips; host rock is strongly sericitized and cut by numerous quartz + chlorite, <= 1 mm veinlets.	7643	119.40	120.35	0.95		Sericitic fault zone	0.02		
			7644	120.35	121.00	0.65		Foliated Lapilli Tuff	0.03		
	121.10 - 121.55	Fault zone @ 25° tca; contacts are sharp sericite slips; interstitial material is comprised of 25% white to buff quartz veinlets and irregular masses within highly sericitized lapilli-tuff.	7645	121.00	121.60	0.60		Sericitic fault zone with 25% quartz	0.02		
	122.00 - 122.60	Moderately to strongly foliated @ 20°-25° tca; moderately sericitized with 10-15% wispy and spotty sericite.	7646	121.60	122.00	0.40		Massive Lapilli Tuff	0.01		
			7647	122.00	122.60	0.60		Foliated Tuff	0.01		
122.60	129.70	ASH-TUFF Massive to moderately well bedded, very fine grained, well sorted, light grey-green; very strongly magnetic with 5%, < 0.5 mm black magnetite disseminated throughout a grey-white, aphanitic ground mass; bedding @ 10°-15° tca; unit is also intercalated with minor lapilli-tuff beds up to 50 cm wide.	7648	122.60	123.20	0.60		Ash Tuff with 5% magnetite	0.01		
			7649	123.20	124.00	0.80			0.01		
			7650	124.00	125.00	1.00			0.02		
			7651	125.00	126.00	1.00			0.01		
			7652	126.00	127.00	1.00			0.01		
			7653	127.00	128.00	1.00			0.04	0.02	
			7654	128.00	129.00	1.00			0.01		
			7655	129.00	129.70	0.70			0.01		

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

HOLE: AK-90-23

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
129.70	131.10	FAULT ZONE Fault zone @ 50° tca: sericite + chlorite + quartz ± gouge; leading contact of zone is a strong sharp mud break approximately 1 mm wide.									
		129.70 - 130.15 Strongly foliated to schistose zone of predominantly sericite + chlorite with 5% boudinaged quartz veinlets up to 0.5 cm wide.	7656	129.70	130.15	0.45		Sericitized fault zone	0.02		
		130.15 - 130.70 Light pink-brown, possible silicified (very hard) ash-tuff?	7657	130.15	130.70	0.55		silicified ? zone	0.01		
		130.70 - 131.10 Moderately to strongly foliated, with 15-20% wispy and spotty sericite throughout, and 3% boudinaged quartz veinlets.	7658	130.70	131.20	0.50			0.02	0.03	
131.10	168.00	GRAYWACKE Massive, moderately well sorted, light grey-green, with 30% fine lithics, including jasper, in a grey-white groundmass of quartz + feldspar in roughly equal proportion and 3-5% pervasive, spotty sericite; as a whole this unit contains 1-2% light green, aphanitic mudstone clasts up to 5 cm randomly scattered throughout; characteristically weak to non-magnetic; contains 0.5% pervasively disseminated pyrite, and 2-3% quartz ± chlorite veinlets, up to 2-3 cm. Pyrite mineralization in this unit is very limited and scattered, as 0.5 - 2 mm wide pyritic veinlets with no visible preferred orientation. (<0.5% of total unit); the numerous 1-3 mm chlorite ± quartz veinlets throughout locally produce a pseudo-brecciated, "crack and seal" texture.	7659	131.20	132.00	0.80		Massive Graywacke	0.01		
			7660	132.00	133.00	1.00			0.01		
			7661	133.00	133.50	0.50			0.02		
			7662	133.50	134.50	1.00			0.01		
			7663	134.50	135.50	1.00			0.02		
			7664	135.50	136.50	1.00			0.01		
			7665	136.50	137.50	1.00			0.02		
			7666	137.50	138.00	0.50			0.02		
			7667	138.00	139.00	1.00			0.01		
			7668	139.00	140.00	1.00			0.01		
			7669	140.00	141.00	1.00		0.01			
			7670	141.00	141.85	0.85		0.02			
		141.85 - 142.10 Fault @ 30° tca; leading contact is a sharp chlorite slip, weakly talcose; 3 cm wide white quartz vein with chloritic walls and minor sericitized wall rock clasts, as well as very minor, blebby chalcopyrite.	7671	141.85	142.35	0.50		Fault zone with 3 cm quartz vein	0.20	0.18	
			7672	142.35	143.00	0.65			0.01		
			7673	143.00	144.00	1.00			0.01		
			7674	144.00	145.00	1.00			0.02		
			7675	145.00	146.00	1.00			0.02		
			7676	146.00	147.00	1.00			0.03		
			7677	147.00	148.00	1.00			0.02		

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

HOLE: AK-90-23

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
148.10 - 148.40	148.35	< 1 mm wide, <= 1% pyritic stringers . 1 mm wide chlorite ± quartz slip @ 60° tca with a 2 mm wide pyrite veinlet @ slip contact.	7678	148.00	148.50	0.50		Graywacke with 5% white quartz veining and 1% stringer pyrite	0.02		
			7679	148.50	149.00	0.50			0.02		
			7680	149.00	150.00	1.00			0.04		
150.05 - 150.30		Series of barren white quartz veins 1-3 cm wide within moderately sericitic graywacke.	7681	150.00	150.50	0.50			0.02	0.01	
			7682	150.50	151.50	1.00			0.02		
			7683	151.50	152.30	0.80			0.03		
152.35 - 152.60		3-4 cm quartz + chlorite breccia vein, white-buff quartz with angular wall rock fragments, as well as wall rock fragments in a dark green chlorite groundmass.	7684	152.30	152.70	0.40		Quartz breccia vein	0.02		
			7685	152.70	153.50	0.80			0.02		
			7686	153.50	154.00	0.50			0.02		
			7687	154.00	155.00	1.00			0.02		
			7688	155.00	156.00	1.00			0.04		
			7689	156.00	157.00	1.00			nil		
			7690	157.00	157.40	0.40			0.02		
157.45 - 157.52		3 cm wide white to grey quartz vein @ 60° tca, centred on a sharp sericite slip, with 2-3% sub-euhedral pyrite.	7691	157.40	157.80	0.40		Quartz + pyrite vein	0.03		
157.52 - 157.80		Sericitic with 0.5% disseminated pyrite.	7692	157.80	158.50	0.70			0.02		
			7693	158.50	159.00	0.50			0.03	0.03	
			7694	159.00	160.00	1.00			0.02		
			7695	160.00	161.00	1.00			0.02		
			7696	161.00	161.60	0.60			0.02		
			7697	161.60	162.10	0.50			0.07	0.04	
			7698	162.10	163.00	0.90			0.02		
			7699	163.00	163.85	0.85			0.02		
			7700	163.85	164.35	0.50			0.02		
			7701	164.35	165.00	0.65			0.02		
			7702	165.00	166.00	1.00			0.02		
			7703	166.00	167.00	1.00			0.02		
			7704	167.00	168.00	1.00			0.03		

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

HOLE: AK-90-23

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au *M
168.00	185.65	GRAYWACKE Weakly sericitic, with 0.5% white quartz veins with trace pyrite along vein contacts; local chlorite + pyrite filled fractures.	7705	168.00	169.00	1.00		Graywacke with 3 - 4 % pyritic stringers up to 1 mm wide	0.04		
			7706	169.00	170.00	1.00			0.02		
			7707	170.00	171.00	1.00			0.03	0.02	
			7708	171.00	172.00	1.00			0.02		
			7709	172.00	173.00	1.00			nil		
			7710	173.00	174.00	1.00			0.02		
			7711	174.00	175.00	1.00			0.02		
			7712	175.00	176.00	1.00			0.03		
			7713	176.00	177.00	1.00			0.03		
			7714	177.00	178.00	1.00			nil		
			7715	178.00	179.00	1.00			0.02		
			7716	179.00	180.00	1.00			0.02		
			7717	180.00	181.00	1.00			0.02	0.03	
			7718	181.00	182.00	1.00			0.02		
			7719	182.00	183.00	1.00			0.01		
185.65	191.70	GRAYWACKE Massive with no quartz veining or pyrite mineralization; very weakly sericitic.	7720	183.00	184.00	1.00		0.01			
			7721	184.00	185.00	1.00		0.02			
			7722	185.00	186.00	1.00		0.01			
			7723	186.00	187.00	1.00		0.02			
			7724	187.00	188.00	1.00		0.03			
			7725	188.00	189.00	1.00		0.02	0.05		
			7726	189.00	190.00	1.00		0.02			
			7727	190.00	191.00	1.00		0.02			
			7728	191.00	191.70	0.70		0.02			

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

HOLE: AK-90-24

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	Nov. 27-28 1990	EASTING	8190.00
TOWNSHIP	Teck	LOGGED BY	M. Masson	NORTHING	10140.00
CLAIM No.	L 491663	SIGNED BY	<i>W. Heath</i>	ELEVATION	
STARTED	November 25, 1990	DRILLED BY	Heath & Sherwood	LENGTH	151.00
COMPLETED	November 27, 1990	SURVEYED BY		UNITS	metres
PURPOSE	To undercut hole AK-90-08	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	The 102 - 8170 gold zone was intersected at 136.25 - 140.00m				

DEPTH	AZIMUTH	DIP
Collar	341	55
38.00		55
76.00		54
114.00		53
151.00		52

SUMMARY LOG

ASSAY SUMMARY

INTERVAL		DESCRIPTION	INTERVAL		DESCRIPTION	INTERVAL		LENGTH in metres	AVERAGE Au g/t	
From	To		From	To		From	To			
0.00	1.20	CASING COARSE LAPILLI TUFF LAPILLI TUFF 47.80 - 49.60 Fault @ 0 - 10° tca 53.70 - 56.70 Fault @ 0 - 10° tca					136.25	140.00	3.75	2.74
1.20	36.10									
36.10	64.15									
64.15	126.75	COARSE LAPILLI TUFF 92.20 - 92.35 Silicified zone 96.50 - 96.70 2 - 3% pyrite in brecciated quartz calcite zone					136.25	138.50	2.25	0.34
126.75	136.25	SERICITIC LAPILLI TUFF FAULT ZONE @ 40° tca GRAYWACKE 136.50 - 143.00 Moderately to weakly sericitic, 1 - 2% 0.1 to 4 cm white quartz veins, 0.5% pyrite along vein contacts 143.00 - 151.00 Weakly sericitic								
136.25	136.50									
136.50	151.00									
151.00		E.O.H.					138.50	140.00	1.50	6.35

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

HOLE: AK-90-24

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
64.15	126.75	COARSE, HETEROLITHIC LAPILLI-TUFF Dark grey-green, massive, with 10-20% coarse, angular to sub-rounded, trachyte clasts up to 10 cm (avg. 2-3 cm) in a fine grained, dark grey-green matrix; clasts are very variable from dark grey-green to pink to brown, but all appear to be trachyte; looks very much like a conglomerate, but matrix contains no visible quartz, and framework is trachyte; locally moderately magnetic.									
	85.90 - 86.95	Fault zone @ 35°-40° tca: chlorite + sericite + fault gouge; strong mud break centred @ 86.50 - 86.60 m with strong fault gouge; surrounding unit is strongly foliated to schistose (sericite + chlorite) with minor boudinaged quartz veinlets.	7734	85.00	85.90	0.90		Massive coarse Tuff	0.01		
			7735	85.90	86.90	1.00		Fault zone	nil		
			7736	86.90	87.90	1.00		Massive Tuff	nil		
			7737	87.90	88.50	0.60			nil		
			7738	88.50	89.00	0.50			nil		
	86.95 - 110.00	1-2% multiple quartz ± calcite veinlets up to 1 cm wide (2-3 generation), generally barren, but may contain minor chalcopyrite in places.	7739	89.00	90.00	1.00		Massive Lapilli Tuff with 1 - 2% quartz veinlets	nil	0.01	
			7740	90.00	91.00	1.00			0.01		
			7741	91.00	92.00	1.00			nil		
	92.20 - 92.35	Light grey-brown, very fine grained silicified zone with very gradual diffuse contacts; little to no visible sulphides.	7742	92.00	92.50	0.50		Silicified zone	nil		
			7743	92.50	93.00	0.50			nil		
			7744	93.00	94.00	1.00			nil		
			7745	94.00	94.50	0.50			nil		
			7746	94.50	95.50	1.00			nil		
			7747	95.50	96.40	0.90			0.01		
	96.50 - 96.70	Pyritic zone, 2-3 cm wide, bleached (grey-white) with 2-3% disseminated pyrite in a grey-white quartz + calcite groundmass on the up hole side of a 1 cm quartz breccia vein with included wall rock fragments which have 1-2% pyrite; down hole side of quartz vein is a bleached (grey-white) tuff with pyritic stringers and blebs; very little disseminated pyrite; this zone appears to be coincidental with a contact between coarse lapilli-tuff and a finer ash- /lapilli-tuff horizon; lower contact of zone is very sharp, tight chloritic slip @ 55° tca.	7748	96.40	96.80	0.40		Sulphide zone with 2 - 3% pyrite + quartz breccia vein	0.03		
			7749	96.80	97.50	0.70			0.01		
			7750	97.50	98.00	0.50			0.02	0.03	
			7751	98.00	99.00	1.00			0.02		
			7752	99.00	100.00	1.00			0.01		
			7753	100.00	101.00	1.00			0.01		

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

HOLE: AK-90-24

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS					
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M		
126.75	136.25	101.25 - 101.40	Fault @ 20° tca; tight sericite + chlorite slip with 1 -2 mm quartz + calcite veinlet; moderate sericitization of wall rock for 1 cm proximal to slip.	7754	101.00	102.00	1.00			0.01			
		118.00 - 126.75	Predominantly hematitic, but with some patchy zones of diffuse sericitization proximal to veinlets.	7755	124.00	125.00	1.00		Massive, coarse Lapilli Tuff	nil			
				7756	125.00	126.00	1.00			nil			
			SERICITIZED LAPILLI-TUFF										
			Upper contact is marked by a strong tight sericitic slip @ 30° tca which has some minor euhedral pyrite on the slip face.										
			126.75 - 128.50	Dark green, with very irregular anastomosing, buff-brown sericitized bleaching which gives a strong mottled appearance.	7757	126.00	126.70	0.70		Sericitic Tuffs at fault contact	nil		
					7758	126.70	127.50	0.80			nil		
					7759	127.50	128.00	0.50			nil		
			128.50 - 136.25	Pervasively sericitized with upwards of 25-30% wispy and spotty sericite; relict lapilli clasts are still locally evident, because the zone is only moderately deformed.	7760	128.00	129.00	1.00			nil		
					7761	129.00	130.00	1.00			nil		
					7762	130.00	131.00	1.00			0.01		
					7763	131.00	132.00	1.00			nil	nil	
					7764	132.00	133.00	1.00			0.01		
					7765	133.00	134.00	1.00			0.01		
				7766	134.00	135.00	1.00			0.05			
				7767	135.00	135.50	0.50			0.02			
				7768	135.50	136.25	0.75			0.01			
136.25	136.50	FAULT ZONE											
		Fault zone @ 40° tca; very strong mud break with brecciated quartz + chlorite veinlets up to 0.5 cm wide.	7769	136.25	136.50	0.25			Mud break	0.59	0.41		

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

HOLE: AK-90-24

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au *M
136.50	151.00	GRAYWACKE Massive, light grey-green fine grained, moderately well sorted graywacke of 40% lithics (including jasper), 30% feldspar and 30% quartz; 1-3% pervasive, spotty sericite and 1% light green aphanitic, mudstone clasts up to 3-4 cm; weak to non-magnetic; pyrite mineralization as narrow, discrete veinlets up to 2 mm wide, pyritic boundaries on quartz veins and a <= 0.5% disseminated pyrite.									
	136.50 - 143.00	Moderately to weakly sericitic, hard silicified, brecciated; 3-5%, 0.1-1.5 cm wide white to grey quartz ± chlorite ± pyrite veinlets at 0° to 55° tca (avg. 20°); 0.5-1.0% pyrite along vein contacts and disseminated in graywacke adjacent to the veins.									
	136.50 - 137.00	3% chlorite ± quartz veinlets with no pyrite.	7770	136.50	137.00	0.50		Graywacke with 0.5% pyrite	0.20		
	137.10 - 137.25	0.3-1.0 cm grey quartz + chlorite + pyrite vein @ 15° to 0° to 55° tca; 5% quartz, 35% pyrite, 10% chlorite.	7771	137.00	137.50	0.50		Graywacke with narrow quartz + pyrite veins	0.61		
	137.25 - 137.85	0.2-1.5 cm quartz + chlorite vein @ 5°-10° tca; 20% chlorite, 80% quartz, < 0.5% pyrite in chlorite along vein contacts.	7772	137.50	138.50	1.00		Quartz + chlorite breccia + pyritic veinlet	0.24		
	137.90 - 138.20	Chlorite + grey quartz + calcite breccia zone @ 15°-20° tca with 1% disseminated pyrite.									
	138.20 - 138.85	Fractured with 3% 1-2 mm quartz veinlets.	7773	138.50	139.00	0.50			7.44	5.63	
	138.47	1.5 mm pyrite veinlet @ 70° tca.									
	138.82 - 139.00	0.2-1.0 cm blue grey quartz + ankerite vein @ 15°-20° tca; 3-5% disseminated pyrite in vein and 1% disseminated pyrite in wall rock over widths of 1-2 cm.									
	139.00 - 139.50	0.1 to 0.5 cm quartz + carbonate vein @ 55°-65° tca with 0.5% pyrite; 1% finely disseminated pyrite in graywacke.	7774	139.00	140.00	1.00			6.31	6.19	
	139.50 - 143.30	1-2% white quartz + carbonate veinlets, 0.01 - 1.5 cm wide, with trace of pyrite.	7775	140.00	141.00	1.00			0.05		
			7776	141.00	141.50	0.50		Graywacke with < 0.5% pyrite + quartz vein	0.03		
	141.35 - 141.40	1 cm white-buff quartz vein with pyritic margins up to 2 mm wide.	7777	141.50	142.00	0.50			0.02		
			7778	142.00	143.00	1.00			nil		

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

HOLE: AK-90-25

PAGE: 1 of 7

PROPERTY	Amalgamated Kirkland	DATE LOGGED	Nov.29 - Dec.3 1990	EASTING	8125.00
TOWNSHIP	Teck	LOGGED BY	M. Masson	NORTHING	10150.00
CLAIM No.	L 491663	SIGNED BY	<i>W. P. Heath</i>	ELEVATION	
STARTED	November 27, 1990	DRILLED BY	Heath & Sherwood	LENGTH	142.90
COMPLETED	November 30, 1990	SURVEYED BY		UNITS	metres
PURPOSE	To test 102 - 8170 zone	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	The zone was intersected at 102.65 - 104.50m				

DEPTH	AZIMUTH	DIP
Collar	341	55
38.00		54
76.00		53
114.00		50

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	104.50 132.35	SILTSTONE / MUDSTONE	102.65 106.00	3.35	1.30
3.80 22.40	ASH TUFF		114.80 - 115.85 Sericitic graywacke, 0.5% pyrite			
22.40 22.60	SILTSTONE	132.35 142.90	LAPILLI TUFF	including		
22.60 23.10	COARSE LAPILLI TUFF		135.50 - 135.60 Silicified, 2 - 3% pyrite			
23.10 23.95	SILTSTONE		136.10 - 136.70 Siltstone with 30% quartz + sericite veinlets, 0.5% pyrite	103.90 104.40	0.50	8.01
23.95 27.50	COARSE LAPILLI TUFF					
27.50 32.85	ASH TUFF					
32.85 68.60	LAPILLI TUFF					
68.60 86.30	LAPILLI TUFF	142.90	E.O.H.			
	Sericitic					
86.30 94.10	LAPILLI TUFF					
	Weakly sericitic					
94.10 102.65	ASH TUFF					
	Hematitic					
102.65 104.50	QUARTZ - PYRITE BRECCIA ZONE					
	102.65 - 103.40 Fault zone, trace pyrite					
	104.10 - 104.25 Brecciated quartz vein, 3 - 5% pyrite					
	104.40 - 104.50 Fault breccia					

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

HOLE: AK-90-25

PAGE: 4 of 7

INTERVAL		DESCRIPTION	SAMPLE				DESCRIPTION	ASSAYS		
FROM	TO		No.	FROM	TO	Length		% Rec	Au, g/t	Au, Check
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	
		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.	7792	72.80	73.60	0.80			0.01	
		73.30 - 73.40 Fault @ 25° tca: sericite + quartz ± ankerite; 1-2 cm quartz + ankerite vein on sharp sericite slip.	7793	73.60	74.30	0.70			0.01	
			7794	74.30	75.00	0.70			0.01	
			7795	75.00	76.00	1.00			0.01	
			7796	76.00	77.00	1.00			0.02	
			7797	77.00	78.00	1.00			0.01	
			7798	78.00	79.00	1.00			0.01	
			7799	79.00	80.00	1.00			0.02	
			7800	80.00	80.50	0.50			0.02	
		80.90 - 81.40 Quartz + chlorite vein with angular wall rock inclusions and very minor chalcopyrite.	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	

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

HOLE: AK-90-26

PAGE: 1 of 7

PROPERTY	Amalgamated Kirkland	DATE LOGGED	December 4 1990	EASTING	8600.00
TOWNSHIP	Teck	LOGGED BY	M. Masson	NORTHING	10155.00
CLAIM No.	L 477419	SIGNED BY	<i>[Signature]</i>	ELEVATION	
STARTED	November 30, 1990	DRILLED BY	Heath & Sherwood	LENGTH	160.68
COMPLETED	December 2, 1990	SURVEYED BY		UNITS	metres
PURPOSE	To undercut hole AK-90-21	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	The '102' structure was intersected at 120.60 - 149.80m				

DEPTH	AZIMUTH	DIP
Collar	341	55
38.00		54
76.00		52
114.00		52
152.00		50

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 6.00	CASING					
6.00 18.00	LAPILLI TUFF / ASH TUFF					
18.00 42.30	Hematitic					
42.30 77.00	ASH TUFF					
	LAPILLI TUFF					
	42.30 - 48.00 Sericitic	148.70 149.80	136.00 - 136.60 Sericitic, 2% blue gray quartz veinlets, trace pyrite	120.00 123.00	3.00	1.84
	48.00 - 77.00 Hematitic		142.65 - 143.35 0.5 - 1% pyrite		including	
77.00 103.60	LAPILLI TUFF		144.15 - 144.80 Quartz + calcite + pyrite veinlets			
	Chloritic to hematitic		144.80 - 145.50 1% pyrite	120.45 122.35	1.90	3.89
103.60 120.60	LAPILLI TUFF	149.80 160.68	CONGLOMERATE		and	
	Hematitic, sericitic		1 - 2% pyrite, 10% quartz veinlets			
120.60 122.85	QUARTZ PYRITE ZONE		LAPILLI TUFF	120.45 121.20	0.75	7.12
	120.60 - 121.00 Quartz-pyrite vein with 3% pyrite, trace chalcopyrite	160.68	Sericitic	139.50 142.00	2.50	0.10
	121.00 - 121.80 Sericitic, 0.5% pyrite		156.35			
	121.80 - 122.30 Contact zone, silicified, 1 - 2% pyrite			148.00 149.80	1.80	0.28
122.85 148.70	MUDSTONE / GRAYWACKE					
	122.30 - 122.85 1% pyrite, 2 - 3% quartz veinlets		E.O.H.			

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

HOLE: AK-90-26

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INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
103.60	120.60	HETEROLITHIC LAPILLI-TUFF									
		103.60 - 109.60 Massive, dark red-green, weakly hematitic with 15-20% angular to sub-rounded, heterolithic, trachyte clasts up to 5 cm (avg. 2 cm); 35% of clasts are fine grained, red-pink syenitic rock.	7848	111.00	112.00	1.00		Sample lost; not assayed			
		112.40 - 115.30 Moderately sericitic, light green with 5% wispy sericite.	7849	112.00	113.00	1.00		Weakly sericitic Tuff	0.01		
			7850	113.00	114.00	1.00			0.01		
			7851	114.00	115.00	1.00			0.03		
		115.30 - 118.35 Weakly hematitic, dirty red-brown and virtually undeformed.	7852	115.00	116.00	1.00			0.01		
			7853	116.00	117.00	1.00			0.01		
			7854	117.00	118.00	1.00			0.02		
			7855	118.00	118.50	0.50			0.02		
		118.35 - 120.60 Light grey, moderately sericitized and weakly foliated @ 35° tca.	7856	118.50	119.50	1.00			0.02		
			7857	119.50	120.00	0.50		0.01			
			7858	120.00	120.45	0.45		0.31			
120.60	122.85	QUARTZ + PYRITE ZONE									
		120.60 - 121.00 Buff-white to blue-grey vein quartz fragments within a fractured and sericitized lapilli-tuff, containing 2-3% pyrite and minor chalcopyrite; pyrite finely disseminated within wall rock adjacent to veins and as <= 1 mm pyritic veinlets and fracture fillings within matrix and quartz veins.	7859	120.45	121.20	0.75		Quartz + pyrite vein with 2 - 3% pyrite and minor chalcopyrite	7.63	6.60	
		121.00 - 121.80 5-10% wispy sericite, 0.5% disseminated pyrite and minor pyritic stringers.	7860	121.20	121.65	0.45		Sericitized Tuff with 0.5% disseminated pyrite + minor pyrite stringers	1.00		

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

HOLE: AK-90-26

PAGE: 5 of 7

INTERVAL		DESCRIPTION	SAMPLE				DESCRIPTION	ASSAYS		
FROM	TO		No.	FROM	TO	Length		% Rec	Au, g/t	Au, Check
		121.80 - 122.30	7861	121.65	122.35	0.70			2.40	2.19
		Contact zone between lapilli-tuff and silicified and pyritic mudstone; buff- white to grey fractured and brecciated quartz veins and silicified mudstone with 1-2% disseminated and stringer pyrite on fracture planes and on sericitic vein boundaries; prominent foliation @ 50° tca.								
		122.30 - 122.85	7862	122.35	123.00	0.65			0.42	
		Well laminated mudstone with minor (<0.5%) disseminated pyrite and 0.5-1% pyritic stringers on quartz vein boundaries and on tight sericitic slips; lower contact is a sharp sericite slip with 1 cm white quartz vein @ 55° tca.								
122.85	148.70	MUDSTONE / GRAYWACKE								
		122.85 - 124.60	7863	123.00	123.50	0.50			0.02	
		Yellow-green mudstone, laminae 1-3 mm thick, very irregular convoluted with bedding @ 55° tca; up to 15 cm thick graywacke/tuff interbeds.	7864	123.50	124.00	0.50			0.02	
			7865	124.00	124.65	0.65			0.01	
		124.60 - 126.30	7866	124.65	125.40	0.75			nil	
		Intercalated mudstones, graywacke and lapilli-tuff with very irregular flame structures and convoluted bedding; moderately sericitic.	7867	125.40	126.40	1.00			0.01	
		126.30 - 139.00	7868	126.40	127.00	0.60			0.02	
		Predominantly a massive light grey-green, fine grained graywacke consisting of 50% lithics, 30% feldspar and 20% quartz, up to 1 mm; weakly sericitic with <= 1% angular mudstone chips up to 1-2 cm; locally, < 0.5% disseminated pyrite.	7869	127.00	127.50	0.50			0.01	
			7870	127.50	128.00	0.50			0.02	
		136.00	7871	128.00	129.00	1.00			0.01	
		Fault @ 40° tca; strong, 1 cm mud break with blue-grey gouge (smearred pyrite?) on slip planes.	7872	129.00	130.00	1.00			0.01	
			7873	130.00	131.00	1.00			0.01	
			7874	131.00	132.00	1.00			0.02	
			7875	132.00	133.00	1.00			0.02	0.02
			7876	133.00	134.00	1.00			0.04	
			7877	134.00	135.00	1.00			0.02	

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

HOLE: AK-90-26

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INTERVAL		DESCRIPTION	SAMPLE				DESCRIPTION	ASSAYS		
FROM	TO		No.	FROM	TO	Length		% Rec	Au, g/t	Au, Check
			7878	135.00	135.50	0.50			0.02	
			7879	135.50	136.50	1.00		Foliated Graywacke with 2% silicified veinlets and very minor pyrite	0.02	
136.00 - 136.60		Moderately foliated with 5-10% wispy and spotty sericite and 2% blue-grey silicified veinlets up to 2 mm wide with very minor, pyrite.	7880	136.50	137.00	0.50			0.02	
			7881	137.00	138.00	1.00			0.02	
			7882	138.00	138.90	0.90			0.02	
139.00 - 142.55		Intercalated with yellow-green, sericitic mudstone interbeds up to 20 cm wide, frequently sheared due to tight sericite ± talc slips; moderately deformed; 2-3% milk-white quartz veinlets up to 1 cm and minor fuchsitic clasts.	7883	138.90	139.50	0.60			0.02	
			7884	139.50	140.40	0.90			0.12	0.22
			7885	140.40	141.00	0.60			0.03	
			7886	141.00	142.00	1.00			0.09	
142.55		Fault @ 50° tca; strong sericite + talc shear 5 cm wide with buff-white quartz veinlets up to 1 cm.	7887	142.00	142.65	0.65			0.02	
142.55 - 148.70		Massive grey-green, fine grained graywacke with 1-2% angular mudstone clasts up to 5 cm.	7888	142.65	143.35	0.70		Graywacke with 0.5 - 1% disseminated pyrite	nil	
			7889	143.35	144.15	0.80			0.01	
144.30		1-2 cm white-grey quartz + calcite + pyrite vein, @ 32° tca, with 1-2% pyrite.	7890	144.15	144.80	0.65		Graywacke with 2 quartz + calcite + pyrite veinlets	0.01	
144.70		2 cm wide, open vuggy quartz + calcite vein with 1-2% euhedral pyrite on vein wall and as cavity fillings.								
			7891	144.80	145.50	0.70		Massive Graywacke with 1% disseminated pyrite	0.02	
			7892	145.50	146.00	0.50			0.01	
			7893	146.00	147.00	1.00			0.02	
			7894	147.00	148.00	1.00			0.02	
			7895	148.00	148.70	0.70			0.20	

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

HOLE: AK-90-27

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	December 5 1990	EASTING	7900.00
TOWNSHIP	Teck	LOGGED BY	M. Masson	NORTHING	9890.00
CLAIM No.	L 491651	SIGNED BY	<i>W. B. ...</i>	ELEVATION	
STARTED	December 2, 1990	DRILLED BY	Heath & Sherwood	LENGTH	130.10
COMPLETED	December 4, 1990	SURVEYED BY		UNITS	metres
PURPOSE	To test IP anomaly at 9950N and Magnetic low at 10000N	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	No anomalous assays				

DEPTH	AZIMUTH	DIP
Collar	341	45
38.00		45
76.00		44
114.00		43

SUMMARY LOG

ASSAY SUMMARY

INTERVAL		DESCRIPTION	INTERVAL		DESCRIPTION	INTERVAL		LENGTH	AVERAGE
From	To		From	To		From	To		
0.00	1.55	CASING	123.70	130.10	ASH TUFF				
1.55	10.90	LAPILLI TUFF Hematitic			123.70 - 124.80	Sheared at 65° tca, 5 - 10% quartz veinlets and masses, 0.5% finely disseminated pyrite			
10.90	17.20	LAPILLI TUFF Chloritic							
17.20	35.80	ASH TUFF 23.70 - 25.10 10% quartz - calcite veins, < 0.5% pyrite							
35.80	40.00	LAPILLI TUFF Hematitic	130.10		E.O.H.				
40.00	49.50	ASH TUFF Sericitic 44.00 - 49.50 5% quartz - calcite veinlets, <0.5% pyrite							
49.50	123.70	COARSE LAPILLI TUFF / BLOCK TUFF 113.70 - 123.70 Moderately sericitic							

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

HOLE: AK-90-27

PAGE: 2 of 5

INTERVAL		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
0.00	1.55	CASING									
1.55	10.90	HETEROLITHIC LAPILLI-TUFF Massive, dark green to purple where hematitic, with 5-10% angular to sub-rounded predominantly fine grained to porphyritic red trachyte, and dark green to grey aphanitic trachyte clasts up to 3 cm (avg. 1 cm), in a very fine grained ash matrix; jasper is evident within the matrix; narrow ash horizons, up to 15 cm, with distinct magnetite beds @ 60° tca; strongly magnetic; lower contact marked by sharp chlorite slip @ 35° tca.									
	5.55 - 6.00	Fault @ 15° tca; chlorite + ankerite + rubbly core; open, dirty chlorite slip with a strong ankerite staining.									
10.90	17.20	MONOLITHIC LAPILLI-TUFF Dark green massive, with dark green, black spotted, angular trachyte clasts up to 4 cm (avg. 1 cm) in a light green, aphanitic matrix; strongly magnetic and moderately chloritic.									
	17.00 - 17.20	Fault @ 45° tca; chlorite + sericite + quartz + calcite; dirty, irregular white-pink quartz / calcite veinlets on sharp chlorite + sericite slips.									
17.20	35.80	ASH-TUFF Massive, dark green very fine grained and strongly magnetic; very nondescript, but in places contains minor scattered lapilli clasts; lower contact very sharp and irregular.									
	23.70 - 25.10	10% white-pink quartz + calcite veins up to 1 cm in a moderately foliated, sericitized ash-tuff; <0.5% disseminated pyrite.	7911	23.00	23.50	0.50		Ash Tuff	0.01		
			7912	23.50	24.00	0.50		Sericitized Ash Tuff with quartz + calcite veinlets and < 0.5% pyrite	nil		

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

HOLE: AK-90-27

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS								
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M					
35.80	40.00	26.30 - 26.80 Pink quartz + calcite breccia vein with angular wall rock fragments up to 2 cm, sub-parallel to core axis. 28.00 Fault @ 50° tca; 0.5 cm pink quartz + calcite vein with strong chlorite slip boundaries.	7913	24.00	24.50	0.50	95			0.01						
			7914	24.50	25.10	0.60				nil						
			7915	25.10	26.00	0.90				nil						
			7916	26.00	27.00	1.00				0.01						
			7917	35.00	35.50	0.50				Ash Tuff		nil	0.01			
			LAPILLI-TUFF													
			Massive, purple-red (hematitic), with 5-20% angular, 75% bright red (syenite ?), fine grained to porphyritic and 25% buff-brown to dark green trachytic clasts, 0.1-5 cm in size, in a very fine grained hematized matrix, with predominantly red trachyte fragments; locally crudely bedded @ 60° tca with minor ash tuff horizons.													
			36.10 - 36.30	Fault @ 45° tca; strong, rubby sericite schist with 2 cm quartz + ankerite vein.	7918	35.50				36.00		0.50			0.01	
					7919	36.00				36.50		0.50			0.01	
					7920	36.50				37.00		0.50			0.01	
	37.30	Patch of coarse blebby pyrite proximal to a tight chloritic fracture.	7921	37.00	38.00	1.00			0.01							
			7922	38.00	39.00	1.00			0.04	0.02						
			7923	39.00	40.00	1.00			0.01							
40.00	49.50	ASH-TUFF														
	40.00 - 44.00	Moderately sericitized, light green massive to weakly bedded, with up to 5%, <= 3 mm dark grey to green to red lapilli clasts; quite soft and pervasively sericitized but is virtually undeformed.	7924	40.00	41.00	1.00			0.01							
			7925	41.00	42.00	1.00			0.01							
			7926	42.00	43.00	1.00			0.01							
	44.00 - 49.50	Dark green, chloritic ash-tuff.	7927	43.00	44.00	1.00			0.01							

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

HOLE: AK-90-27

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INTERVAL		DESCRIPTION	SAMPLE				DESCRIPTION	ASSAYS			
FROM	TO		No.	FROM	TO	Length		% Rec	Au, g/t	Au, Check	Au* M
49.50	123.70	5% white-pink quartz + calcite veins up to 3 cm wide, with weak sericite alteration halos and <= 0.5% pyrite in wall rock. Gradational zone from ash-tuff to coarse lapilli-tuff.	7928	44.00	45.00	1.00		Ash Tuff with quartz + calcite veinlets and minor pyrite	0.01		
			7929	45.00	45.80	0.80			nil		
			7930	45.80	46.30	0.50			0.01		
			7931	46.30	46.90	0.60			0.02		
			7932	46.90	47.50	0.60			0.04		
			7933	47.50	48.00	0.50			0.03	0.03	
			7934	48.00	49.00	1.00			0.02		
			7935	49.00	50.00	1.00			0.04		
			7936	50.00	51.00	1.00		0.01			
			COARSE MONOLITHIC LAPILLI-TUFF / BLOCK-TUFF								
			Massive, dark green to red-black, very poorly sorted, with 5-25% dark red angular to well rounded trachytic (syenitic?) clasts from 1 mm to 7 cm in size, in a fine ash matrix of similar composition; very strongly magnetic; 1-2% white-pink quartz ± calcite veinlets up to 1 cm throughout; minor ash-tuff horizons up to 1 metre, with similar composition to the lapilli-tuffs, but finer grained.								
			79.50 - 82.50	Fault @ 5°-10° tca; tight chlorite slip sub-parallel to core axis with sporadic quartz + calcite veining parallel to slip plane.							
			91.00 - 91.70	Fault @ 10° tca; tight chlorite + sericite slip with irregular, white-pink quartz + calcite + sericite.							
			105.50	Fault @ 45° tca; sharp, strong chlorite + sericite slip with minor, 1-2 mm quartz veinlets on adjoining wall rock.							
			113.70 - 123.70	Moderately deformed with 5-10% wispy sericite and numerous quartz + chlorite stringers as a stockwork; prominent foliation @ 45° tca; local patchy hematized areas are still preserved within the altered sericitic tuffs.							
				7937	111.00	112.00	1.00	Massive Coarse Tuff	nil		
			7938	112.00	113.00	1.00	0.01				
			7939	113.00	113.50	0.50	0.02				
			7940	113.50	114.00	0.50	Sericitized foliated Tuff	0.01			
			7941	114.00	115.00	1.00		0.01			
			7942	115.00	116.00	1.00		0.01			
			7943	116.00	117.00	1.00		0.08	0.03		
			7944	117.00	118.00	1.00		0.01			

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

HOLE: AK-90-28

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	December 6 1990	EASTING	7350.00
TOWNSHIP	Teck	LOGGED BY	M. Masson	NORTHING	10170.00
CLAIM No.	L 491183	SIGNED BY	<i>[Signature]</i>	ELEVATION	
STARTED	December 4, 1990	DRILLED BY	Heath & Sherwood	LENGTH	122.40
COMPLETED	December 6, 1990	SURVEYED BY		UNITS	metres
PURPOSE	To test 101-7290 gold zone (West Boundary)	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	The 102 - 7290 zone was intersected at 44.00 - 46.00m				

DEPTH	AZIMUTH	DIP
Collar	341	45
38.00		45
76.00		44
114.00		43

SUMMARY LOG

ASSAY SUMMARY

INTERVAL		DESCRIPTION	INTERVAL		DESCRIPTION	INTERVAL		LENGTH in metres	AVERAGE Au g/t
From	To		From	To		From	To		
0.00	5.50	CASING	64.70	115.00	GRAYWACKE	44.00	46.00	2.00	1.89
5.50	10.60	BLEACHED LAPILLI TUFF Sericitic			Trace to 2% pyrite 69.10 - 69.60 1 - 2% white to blue gray quartz veins, 1% pyrite		including		
10.60	13.45	CONGLOMERATE / GRAYWACKE			71.80 - 72.90 1 - 2% blue gray quartz veins	44.70	45.20	0.50	4.03
13.45	21.60	BLEACHED LAPILLI TUFF Sericitic			73.40 - 74.30 2 - 3% blue gray quartz veins, 1% pyrite				
21.60	24.40	CONGLOMERATE Sericitic			93.80 - 93.90 Shear zone, 3% blue gray quartz veins, < 0.5% pyrite				
24.40	26.15	ASH TUFF			101.80 - 102.15 Shear zone, 25 - 30% gray quartz veining, 1% pyrite, sericitic				
26.15	28.30	CONGLOMERATE / GRAYWACKE							
28.30	44.75	ASH / LAPILLI TUFF Hematitic	115.00	118.60	CONGLOMERATE				
44.75	45.20	PYRITIC LAPILLI TUFF 1% pyrite, sericitic	118.60	120.00	GRAYWACKE				
45.20	50.70	ASH / LAPILLI TUFF Weakly hematitic	120.00	122.40	2 - 3% blue gray quartz veinlets, 1 - 2% pyrite LAPILLI TUFF				
50.70	55.80	LAPILLI TUFF Weakly chloritic		122.40	E.O.H.				
55.80	64.70	MUDSTONE / SILTSTONE							

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

HOLE: AK-90-28

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
0.00	5.50	CASING									
5.50	10.60	BLEACHED LAPILLI-TUFF Massive, light buff-brown with 5% black subhedral, chloritic lath shaped crystals up to 2 mm and irregular, anhedral crystal aggregates up to 5 cm as spots and irregular masses, with irregular diffuse boundaries and may represent bleached lapilli clasts; highly altered and bleached matrix with 5-10% wispy sericite within a very fine grained buff-brown groundmass; local relict lapilli clasts up to 1 cm; usually non-magnetic; trace pyrite.	7961	5.50	6.00	0.50		Bleached Lapilli Tuff	0.01		
			7962	6.00	7.00	1.00			0.01		
			7963	7.00	8.00	1.00			0.01		
			7964	8.00	9.00	1.00			0.01		
			7965	9.00	10.00	1.00			0.02		
			7966	10.00	10.60	0.60			0.02		
10.60	13.45	PEBBLE CONGLOMERATE / GRAYWACKE Interbedded, with gradational contacts, very poorly sorted, mixed zone of lapilli fragments and conglomerate pebbles fragments within a moderately sericitized graywacke matrix; dirty mottled texture in places due to irregular, patchy sericite alteration of matrix.									
			7967	10.60	11.40	0.80		Sericitic Pebble Conglomerate	0.02		
			7968	11.40	12.40	1.00			0.02		
		12.90 - 13.05 Shear zone @ 70° tca; strongly foliated to schistose sericite + chlorite + ankerite + quartz.	7969	12.40	13.10	0.70		Foliated to sheared Conglomerate with fault at 12.90 m	0.01	0.01	
			7970	13.10	14.00	0.90		Sericitized Graywacke + Tuff	0.02		
13.45	21.60	BLEACHED LAPILLI-TUFF Massive, light buff-brown with 5% black subhedral, chloritic lath shaped crystals up to 2 mm and irregular, anhedral crystal aggregates up to 5 cm as spots and irregular masses, with irregular diffuse boundaries and may represent bleached lapilli clasts; highly altered and bleached matrix with 5-10% wispy sericite within a very fine grained buff-brown groundmass; local relict lapilli clasts up to 1 cm; usually non-magnetic; trace pyrite.									
			7971	14.00	15.00	1.00		Bleached Lapilli Tuff	0.01		
			7972	15.00	16.00	1.00			0.01		
			7973	16.00	17.00	1.00			0.01		
			7974	17.00	18.00	1.00			0.02		
			7975	18.00	19.00	1.00			0.01		
			7976	19.00	20.00	1.00			0.01		
			7977	20.00	21.00	1.00			0.02		
			7978	21.00	21.60	0.60			0.02		

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

HOLE: AK-90-28

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INTERVAL		DESCRIPTION	SAMPLE				DESCRIPTION	ASSAYS			
FROM	TO		No.	FROM	TO	Length		% Rec	Au, g/t	Au, Check	Au*M
21.60	24.40	PEBBLE CONGLOMERATE 21.60 - 22.90 Moderately sericitized with 5-10% wispy sericite interstitial to pebble framework and some sericite alteration of mafic clasts. 22.90 - 24.40 15% well rounded, polyimictic pebbles up to 4 cm in a fine grained sericitized graywacke matrix; lower contact is sharp and somewhat irregular.	7979	21.60	22.50	0.90		Sericitized Conglomerate	0.02		
			7980	22.50	23.00	0.50			0.03		
			7981	23.00	23.50	0.50			0.02	0.01	
			7982	23.50	24.40	0.90			0.02		
24.40	26.15	ASH-TUFF Massive to well bedded @ 40° tca, red-brown very fine grained with very minor, light grey lapilli clasts up to 0.5 cm; very massive, hard and undeformed; 1% quartz + chlorite veinlets up to 0.5 cm; lower contact sharp @ 45° tca.	7983	24.40	25.00	0.60		Massive to well bedded Ash Tuff	0.02		
			7984	25.00	25.50	0.50			0.01		
			7985	25.50	26.15	0.65			0.01		
26.15	28.30	CONGLOMERATE / GRAYWACKE Dark grey-green, moderately foliated graywacke with 5% wispy sericite and 2% quartz + chlorite veinlets up to 0.5 cm. Lower contact of unit is somewhat gradational. 26.15 - 27.00 Fine polyimictic conglomerate with moderately well-rounded pebbles up to 2 cm.	7986	26.15	27.00	0.85		Pebble Conglomerate - sericitized Graywacke with 2% quartz + chlorite veinlets	0.01		
			7987	27.00	27.50	0.50			nil		
			7988	27.50	28.30	0.80			nil	nil	
28.30	44.75	ASH-TUFF / LAPILLI-TUFF Light red-brown, alternating, fine grained and well bedded @ 45° tca, ash-tuff and massive lapilli-tuff beds up to 0.75 metres wide; moderately hematitic and weakly magnetic. 32.70 Fault @ 70° tca; 2 cm sericite schist with narrow (1-2 mm) white quartz veinlets.	7989	28.30	29.00	0.70		Hematized Ash + Lapilli Tuff	nil		
			7990	29.00	30.00	1.00			0.01		
			7991	30.00	31.00	1.00			nil		
			7992	31.00	32.00	1.00			nil		
			7993	32.00	33.00	1.00			0.01		
			7994	33.00	34.00	1.00			0.01		

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

HOLE: AK-90-28

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INTERVAL		DESCRIPTION	SAMPLE				DESCRIPTION	ASSAYS		
FROM	TO		No.	FROM	TO	Length		% Rec	Au, g/t	Au, Check
			7995	34.00	35.00	1.00			nil	
			7996	35.00	36.00	1.00			0.01	
			7997	36.00	37.00	1.00			0.02	
			7998	37.00	38.00	1.00			0.02	
			7999	38.00	39.00	1.00			0.01	0.01
			8000	39.00	40.00	1.00			0.01	
			11701	40.00	41.00	1.00			0.02	
		41.00 - 41.25 Shear zone @ 70° tca; strongly foliated, sericitized tuffs with sharp, tight sericite slip boundaries and minor white quartz adjacent to slip planes.	11702	41.00	41.50	0.50		Ash Tuff with shear zone at 41.00m	0.02	
			11703	41.50	42.00	0.50		Hematitic Ash Tuff	0.02	
			11704	42.00	43.00	1.00			0.02	
			11705	43.00	44.00	1.00			0.02	
			11706	44.00	44.70	0.70			0.75	
44.75	45.20	PYRITIC LAPILLI TUFF Light grey-brown, massive with 5% angular buff-grey, trachytic clasts up to 1 cm in a massive, aphanitic groundmass; upper contact is marked by a sharp sericite slip @ 70° tca; 1 % very finely disseminated pyrite.								
		44.80 2 cm wide sericite + quartz schist with 1-2% very fine disseminated pyrite.	11707	44.70	45.20	0.50		Pyritic Lapilli Tuff, 1 - 2% pyrite	4.31	3.75
45.20	50.70	ASH-TUFF / LAPILLI-TUFF Weakly hematitic, intercalated ash- and lapilli-tuff beds up to 0.5 metres wide, usually with gradational contacts; light grey-brown to purple (hematitic); very strongly magnetic due to 1% disseminated to bedded magnetite throughout.								
		45.20 - 47.00 Moderately sericitized, with irregular patchy sericite alteration which gives unit a dirty, mottled texture; 2-3% barren white-pink quartz veins.	11708	45.20	46.00	0.80		Sericitized Tuff with 2 - 3% quartz veins	1.54	
			11709	46.00	47.00	1.00		Weakly hematitic Ash Tuff	0.03	

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

HOLE: AK-90-28

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
64.70	115.00	GRAYWACKE Massive, fine grained, light green graywacke of 40% lithics, 35% feldspar, 25% quartz grains, all <= 1 mm in size; minor, angular mudstone clasts, fuchsitic clasts and minor pervasive disseminated pyrite. 69.10 - 69.60 1-2%, grey-white to blue, 1-3 mm quartz veinlets, with 1% disseminated pyrite in matrix and on vein boundaries. 71.80 - 72.90 1-2%, blue-grey, <= 1 mm, quartz veinlets and very minor disseminated pyrite. 73.40 - 74.30 Stockwork of 2-3%, of blue-grey, 1-2 mm quartz veinlets, with 1% disseminated pyrite; upper contact sharp chlorite slip @ 70° tca; lower contact is a 1 cm chlorite + quartz slip @ 50° tca. 77.25 - 77.57 Shear zone; weakly foliated, sericitized graywacke with 1-2% white quartz veinlets; contacts are strong sharp sericite + quartz slips @ 60° tca.	11732	64.70	65.50	0.80		Graywacke with 1 - 2% quartz stringers	nil		
			11733	65.50	66.00	0.50			0.01		
			11734	66.00	67.00	1.00			0.02		
			11735	67.00	68.00	1.00			0.01		
			11736	68.00	69.00	1.00			0.02		
			11737	69.00	69.60	0.60			0.02		
			11738	69.60	70.50	0.90			0.01		
			11739	70.50	71.00	0.50			0.01		
			11740	71.00	71.80	0.80			0.02		
			11741	71.80	72.50	0.70			0.01		
			11742	72.50	73.00	0.50			0.02		
			11743	73.00	73.40	0.40			0.02		
			11744	73.40	74.40	1.00			0.01		0.01
			11745	74.40	75.00	0.60			0.01		
			11746	75.00	76.00	1.00			0.01		
			11747	76.00	77.00	1.00			0.01		
			11748	77.00	77.60	0.60			0.02		
			11749	77.60	78.30	0.70			0.01		
			11750	78.30	79.00	0.70			0.03		
			11751	79.00	80.00	1.00			0.02		
11752	80.00	81.00	1.00			0.01					
11753	81.00	82.00	1.00			0.01					
11754	82.00	83.00	1.00			0.01					
11755	83.00	84.00	1.00			0.01					
11756	84.00	85.00	1.00			0.01					

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

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INTERVAL		DESCRIPTION	SAMPLE					ASSAYS			
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au *M
			11757	85.00	86.00	1.00			0.01		
			11758	86.00	87.00	1.00			0.01		
			11759	87.00	88.00	1.00			nil		
			11760	88.00	89.00	1.00			0.01	0.01	
			11761	89.00	90.00	1.00			0.01		
			11762	90.00	90.50	0.50			0.01		
	90.60 - 90.80	7 cm wide quartz + chlorite breccia vein with strong sericite alteration of wall rock and 0.5% disseminated pyrite on vein margin.	11763	90.50	91.00	0.50		Sericitized Graywacke with 5 - 7 cm quartz + chlorite breccia vein and 0.5% pyrite	0.02	0.02	
			11764	91.00	92.00	1.00			0.01		
			11765	92.00	93.00	1.00			0.01		
			11766	93.00	93.60	0.60			0.01		
	93.80 - 93.90	Shear zone @ 60° tca; well foliated, sericitic graywacke with 3%, < 1 mm, blue quartz veinlets and < 0.5% pyrite; contacts are sharp, tight sericite + chlorite slips.	11767	93.60	94.00	0.40		Quartz + sericite shear zone	0.04		
			11768	94.00	95.00	1.00			0.01		
			11769	95.00	96.00	1.00			0.01		
			11770	96.00	97.00	1.00			0.02		
			11771	97.00	98.00	1.00			0.01		
			11772	98.00	99.00	1.00			0.01		
			11773	99.00	100.00	1.00			0.02		
			11774	100.00	101.00	1.00			nil		
			11775	101.00	101.50	0.50			nil		
	101.80 - 102.15	Shear zone: sericite + quartz + pyrite; upper contact is a strong sharp chlorite + sericite slip @ 37° tca; lower contact is a 1 cm chlorite breccia vein with angular wall rock clasts up to 2 mm; 25-30% white-grey quartz, with interstitial, sericitic graywacke containing 0.5-1% disseminated pyrite.	11776	101.50	102.15	0.65		Sericite + quartz + pyritic shear zone	nil		
			11777	102.15	103.00	0.85			nil		
			11778	103.00	104.00	1.00			nil	0.01	
			11779	104.00	104.60	0.60			0.01		
			11780	104.60	105.60	1.00			nil		
			11781	105.60	106.00	0.40			nil		
			11782	106.00	107.00	1.00			nil		
			11783	107.00	107.50	0.50			nil		

DOCUMENT No.
W9108.00080



Mining Act Report of Work

Name and Address of Recorded Holder BATTLE MOUNTAIN (CANADA) INC.	Prospector's Licence No. 75179
390 Bay Street, Suite 2910, Toronto, Ontario M5H 2Y2	Telephone No. (416) 867-9815

Summary of Distribution of Credits and Work Performance

Mining Division Larder Lake	Mining Claim		Work Days Cr.	Mining Claim		Work Days Cr.	Mining Claim		Work Days Cr.
	Prefix	Number		Prefix	Number		Prefix	Number	
Township or Area Teck Township	See Attached Schedule I								
Total Assessment Credits Claimed 7120									
Type of Work Performed (Check one only)									
<input type="checkbox"/> Manual Work									
<input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work									
<input type="checkbox"/> Mechanical equipment									
<input type="checkbox"/> Power Stripping other than Manual (maximum credit allowed - 100 days per claim)									
<input checked="" type="checkbox"/> Diamond or other Core drilling									
<input type="checkbox"/> Core Specimens									

Dates when work was performed From: Oct. 15/90 To: Dec. 10/90	Total No. of Days Performed 7120	Total No. of Days Claimed 7120	Total No. of Days to be Claimed at a Future Date 0
--	--	--	--

All the work was performed on Mining Claim(s): Indicate no. of days performed on each claim. * (See note No. 1 on reverse side)	Mining Claim 477299	No. of Days 70.54	Mining Claim 477419	No. of Days 1359.25	Mining Claim 491183	No. of Days 401.57	Mining Claim 491651	No. of Days 2214.14
Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim
491663	2572.52	500057	456.04	500058	45.94	See Attached Schedule II		

Required information eg. type of equipment, Names, Addresses, etc. (See Table on reverse side)
If space below is insufficient, attach schedules with required information and location sketches

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

Drilling performed Oct. 15, 1990 to Dec. 6, 1990

Core stored at Battle Mountain (Canada) Inc. Warehouse
953 Government Road West
Kirkland Lake, Ontario

Core Diameter: NQ 17/8 inches, Drill Hole Location: See Drawing No. 1

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
MAR 18 1991
RECEIVED

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

I hereby certify that, at the time the work was performed, the claims covered in this report of work were recorded in the current recorded holder's name or held under a beneficial interest by the current recorded holder.	Date Feb 19, 1991	Recorded Holder or Agent (Signature) <i>[Signature]</i> G. E. Leigh
--	-----------------------------	--

Certification Verifying Report of Work

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

Name and Address of Person Certifying
T. J. Bottrill, Battle Mountain (Canada) Inc., 390 Bay St. Ste. 2910
Toronto, Ont., M5H 2Y2

Telephone No.
(416) 867-9815

Date
Feb 19, 1991

Certified By (Signature)
[Signature]
T. J. Bottrill

For Office Use Only

Work Assignments	Received
L 477299 Premier Explorations Inc. 70.54	3929.46
477419	1359.25
491183	2640.78
491651	3598.43
491663	1785.86
500057	2572.52
500058	1427.48
(X20) Diamond Drilling L 477299 70.54 days performed	3543.96
477419 1359.25	456.04
491183 401.57	45.94
491651 2214.14	3954.06

RECEIVED
LARDER LAKE
MINING DIVISION
FEB 22 1991
TIME **4:08pm**

491663 2572.52 days performed
500057 456.04
500058 45.94

SCHEDULE I

SUMMARY OF DISTRIBUTION OF CREDITS

<u>Prefix</u>	<u>Mining Claim Number</u>	<u>Work Days Credit</u>	<u>Prefix</u>	<u>Mining Claim Number</u>	<u>Work Days Credit</u>
L	1045667	40	L	1046588 ^H WB	40
L	1045669	40	L	1046589 ^H WB	40
L	1045670	40	L	1046590 ^H WB	40
L	1045671	40	L	1046520	20
L	1045672	40	L	1046521	60
L	1045673	40	L	1046522	60
L	1046424	20	L	1046524	60
L	1046425	20	L	1046525	60
L	1046426	20	L	1046526	40
L	1046427	20	L	1046559	40
L	1046428	20	L	1046560	40
L	1046429	20	L	1046561	40
L	1046430	20	L	1046562	40
L	1046431	20	L	1046563	40
L	1046432	20	L	1046564	40
L	1046433	20	L	1046565	40
L	1046434	20	L	1046566	40
L	1046435	20	L	1046567	40
L	1046436	30	L	1046568	40
L	1046437	20	L	1046569	40
L	1046438	60	L	1046570	40
L	1046439	60	L	1046571	40
L	1046440	30	L	1046572	40
L	1046441	20	L	1046573	40
L	1046466	40	L	1046574	40
L	1046467	40	L	1046575	40
L	1046468	40	L	1046576	40
L	1046469	40	L	1046577	40
L	1046470	40	L	1046578	40
L	1046471	40	L	1046579	40
L	1046472	40	L	1046580	40
L	1046473	40	L	1046581	40
L	1046474	40	L	1046582	40
L	1046475	40	L	1046583	40
L	1046476	40	L	1046584	40
L	1046477	40	L	1046585	40
L	1046480	40	L	1046586	40
L	1046481	40	L	1046587	40
L	1046482	40	L	1046588	40
L	1046483	40	L	1046589	40
L	1046484	40	L	1046607	40
L	1046485	40	L	1046608	40
L	1046486	40	L	1046609	40
L	1046487	40	L	1046610	40

gjs

SUMMARY OF DISTRIBUTION OF CREDITS
(Continued)

<u>Prefix</u>	<u>Mining Claim Number</u>	<u>Work Days Credit</u>	<u>Prefix</u>	<u>Mining Claim Number</u>	<u>Work Days Credit</u>
L	1046611	40	L	1046782	40
L	1046612	40	L	1046783	40
L	1046613	40	L	1046784	40
L	1046614	40	L	1046785	40
L	1046615	40	L	1046786	40
L	1046616	40	L	1046787	40
L	1046746	40	L	1046788	40
L	1046747	40	L	1046789	40
L	1046748	40	L	1046790	40
L	1046749	40	L	1046791	40
L	1046750	40	L	1046792	40
L	1046751	40	L	1046793	40
L	1046752	40	L	1046794	40
L	1046753	40	L	1046823	40
L	1046754	40	L	1046951	40
L	1046755	40	L	1046952	40
L	1046756	40	L	1046953	40
L	1046757	40	L	1046954	40
L	1046758	40	L	1046955	40
L	1046759	40	L	1047116	40
L	1046760	40	L	1047117	40
L	1046761	40	L	1047118	40
L	1046762	40	L	1047119	40
L	1046763	40	L	1047120	40
L	1046764	40	L	1047121	40
L	1046765	40	L	1047122	40
L	1046766	40	L	1047123	40
L	1046767	40	L	1047124	40
L	1046768	40	L	1047125	40
L	1046769	40	L	1047131	40
L	1046770	40	L	1047132	40
L	1046771	40	L	1047133	40
L	1046772	40	L	1047134	40
L	1046773	40	L	1047135	40
L	1046774	40	L	1047151	40
L	1046775	40	L	1047152	40
L	1046776	40	L	1047153	40
L	1046777	40	L	1047154	40
L	1046778	40	L	1047155	40
L	1046779	40	L	1047156	40
L	1046780	40	L	1047157	40
L	1046781	40	L	1047158	40

JLB

SUMMARY OF DISTRIBUTION OF CREDITS
(Continued)

<u>Prefix</u>	<u>Mining Claim Number</u>	<u>Work Days Credit</u>	<u>Prefix</u>	<u>Mining Claim Number</u>	<u>Work Days Credit</u>
L	1047159	40	L	1047165	40
L	1047160	40	L	1047166	40
L	1047161	40	L	1047167	40
L	1047162	40	L	1047168	40
L	1047163	40	L	1047169	40
L	1047164	40			

FL: KL\ACRPSCD1.CDT

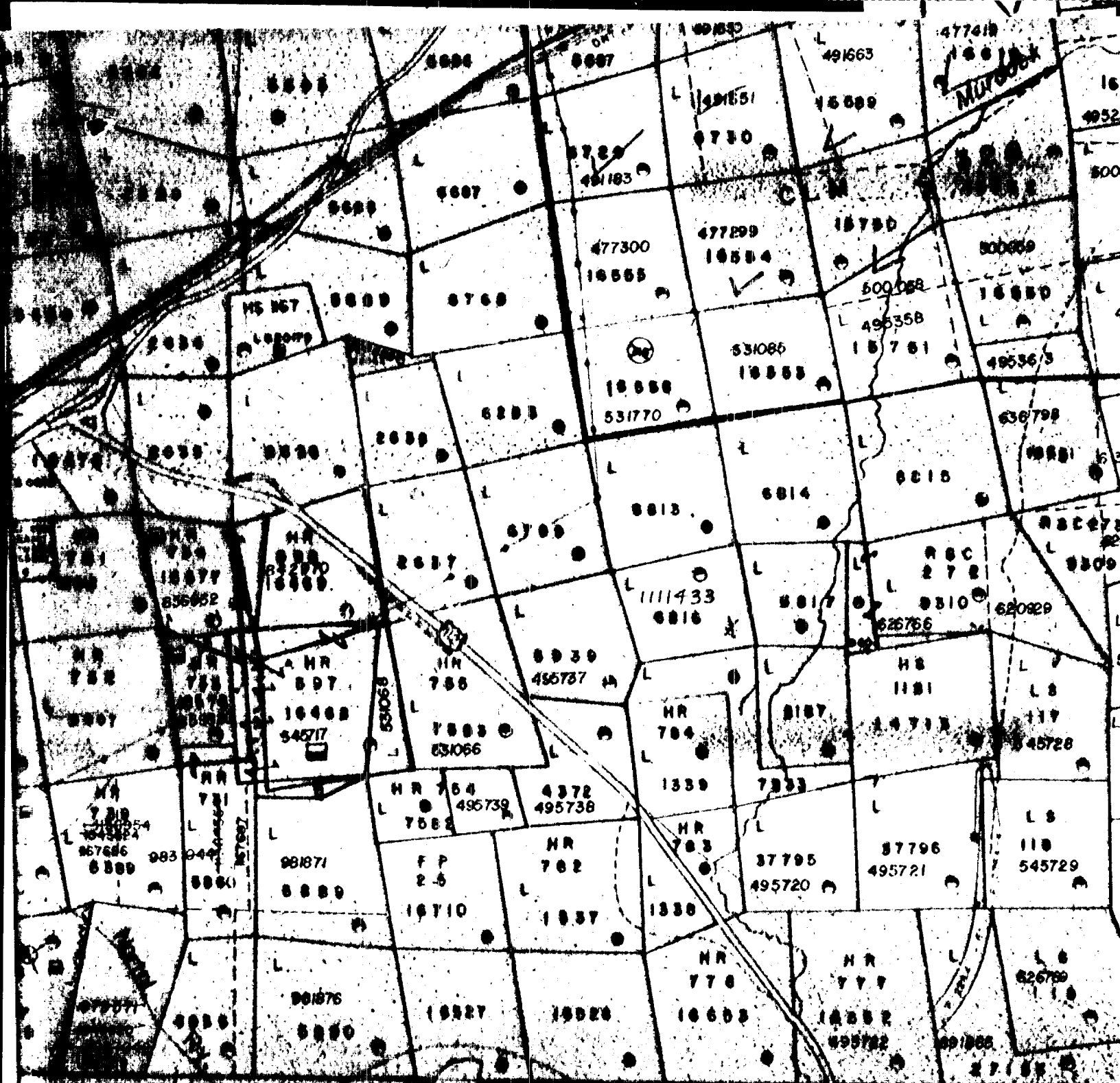
SCHEDULE II

Number of Day's Work Performed On Each Claim

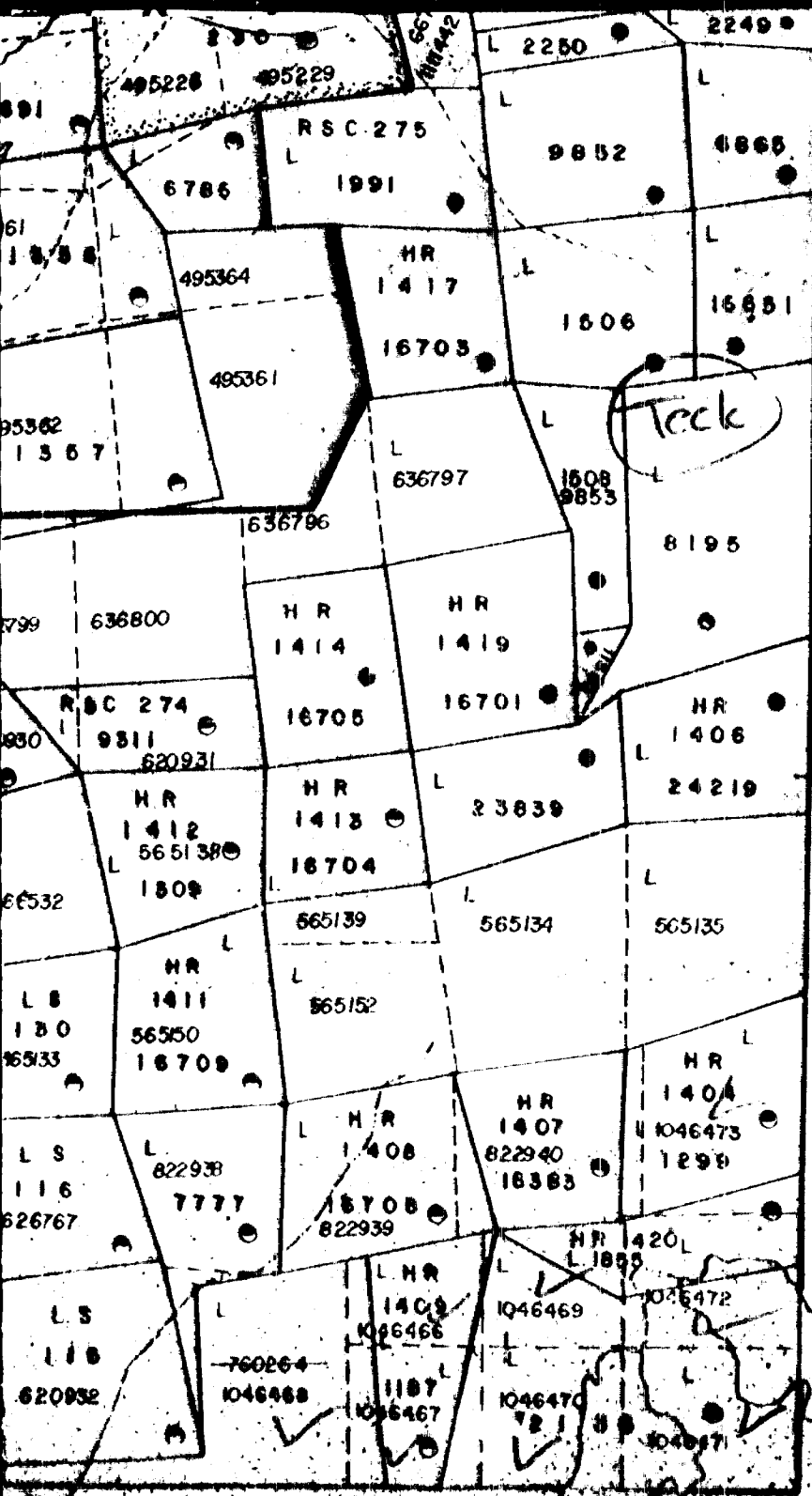
<u>Hole No.</u>	<u>477299</u>	<u>477419</u>	<u>491183</u>	<u>491651</u>	<u>491663</u>	<u>500057</u>	<u>500058</u>	<u>Total Days (Feet)</u>
AK90 - 1	-	-	-	-	364.50 ✓	-	-	364.50
- 2	-	-	-	-	405.35 ✓	-	-	405.35
- 3	-	-	-	-	424.87 ✓	-	-	424.87
- 4	-	-	-	-	412.89 ✓	-	-	412.89
- 5	-	-	-	-	398.79 ✓	-	-	398.79
- 6	-	-	-	-	235.56 ✓	-	-	235.56
- 7	-	-	-	-	330.56 ✓	-	-	330.56
- 10	-	-	-	569.88 ✓	-	-	-	569.88
- 11	-	-	-	385.17 ✓	-	-	-	385.17
- 12	70.54 ✓	-	-	256.07 ✓	-	-	-	326.61
- 13	-	-	-	272.87 ✓	-	-	22.97 ✓	295.84
- 14	-	-	-	303.31 ✓	-	-	22.97 ✓	326.28
- 16	-	392.45 ✓	-	-	-	-	-	392.45
- 21	-	386.15 ✓	-	-	-	-	-	386.15
- 22	-	53.48 ✓	-	-	-	456.04 ✓	-	509.52
- 26	-	527.17 ✓	-	-	-	-	-	527.17
- 27	-	-	-	426.84 ✓	-	-	-	426.84
- 28	-	-	401.57 ✓	-	-	-	-	401.57
Total No. of Days	<u>70.54</u>	<u>1,359.25</u>	<u>401.57</u>	<u>2,214.14</u>	<u>2,572.52</u>	<u>456.04</u>	<u>45.94</u>	<u>7,120.00</u> ✓

* - Total length of hole 108.2 m (354.97 ft.), 330.56 days claimed.
1.0 metres = 3.2808398 ft.

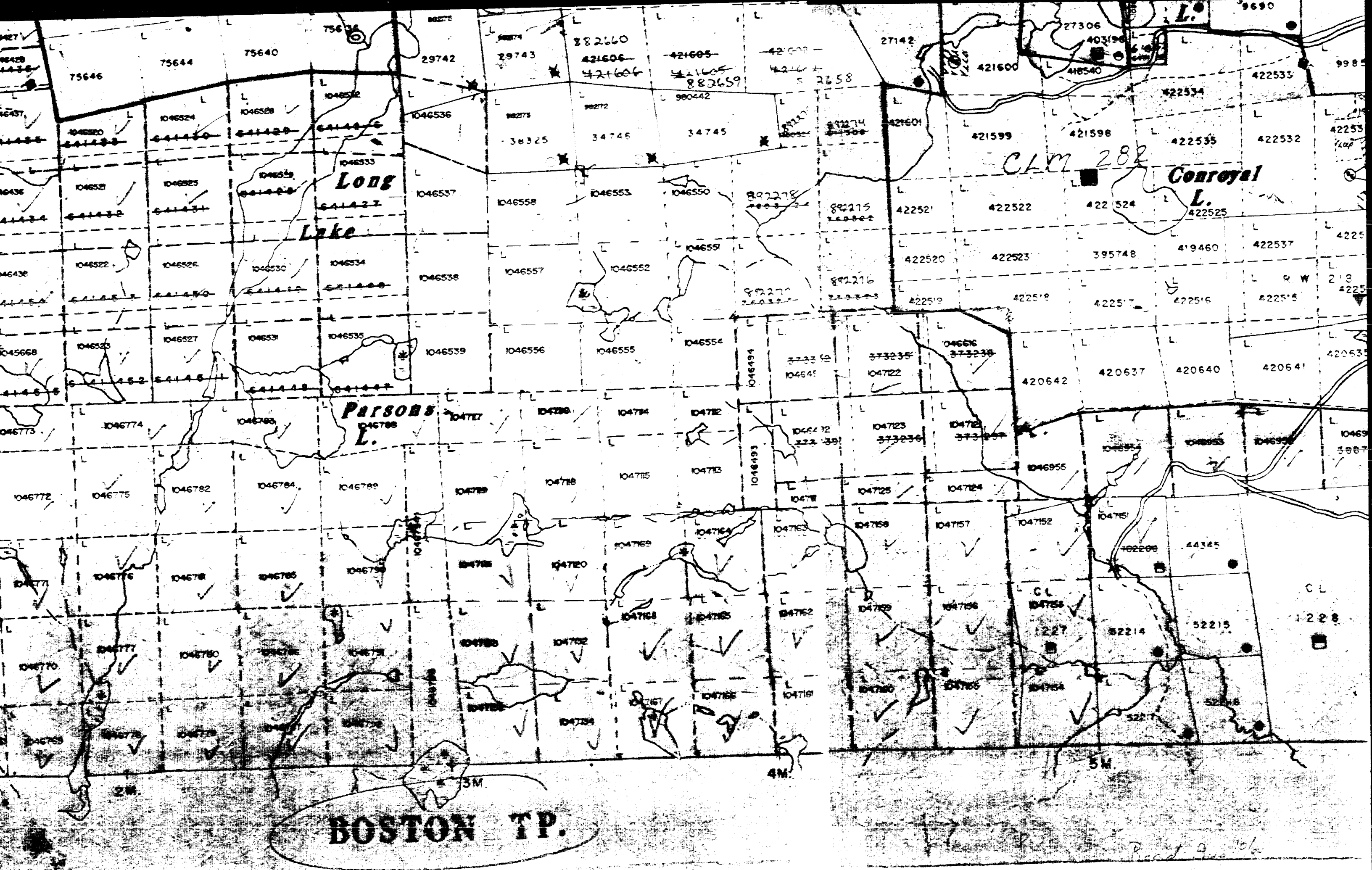
JIS



110 TWP M379



PLA
MINISTRY



BOSTON TP.

PARSONS L.

Long Lake

Conroyal L.

CAM 282

CL 1227

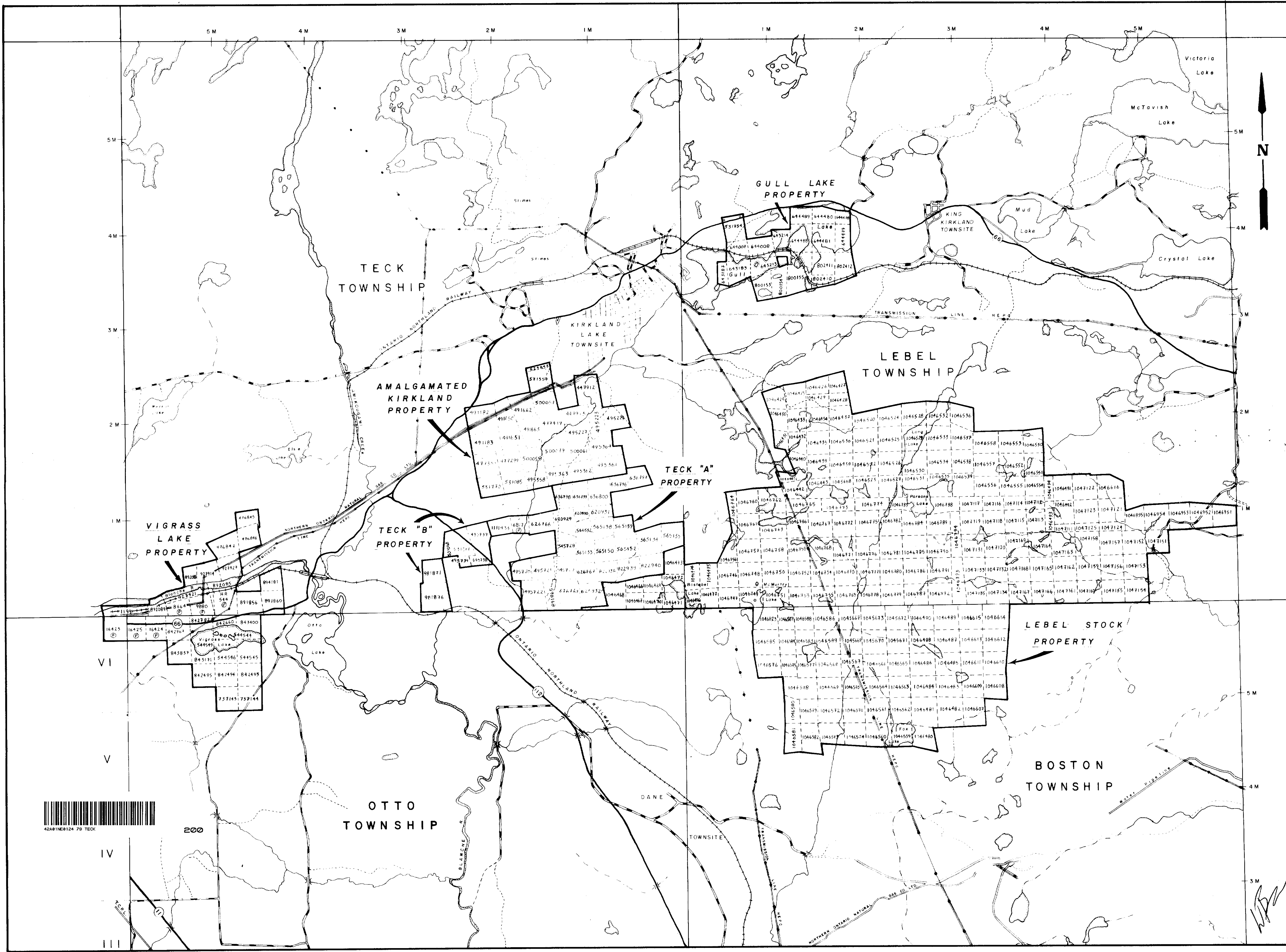
2M

3M

4M

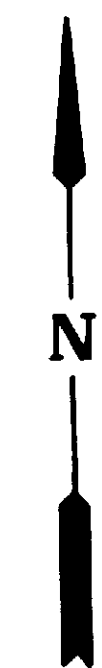
5M

Road Ave 10/6

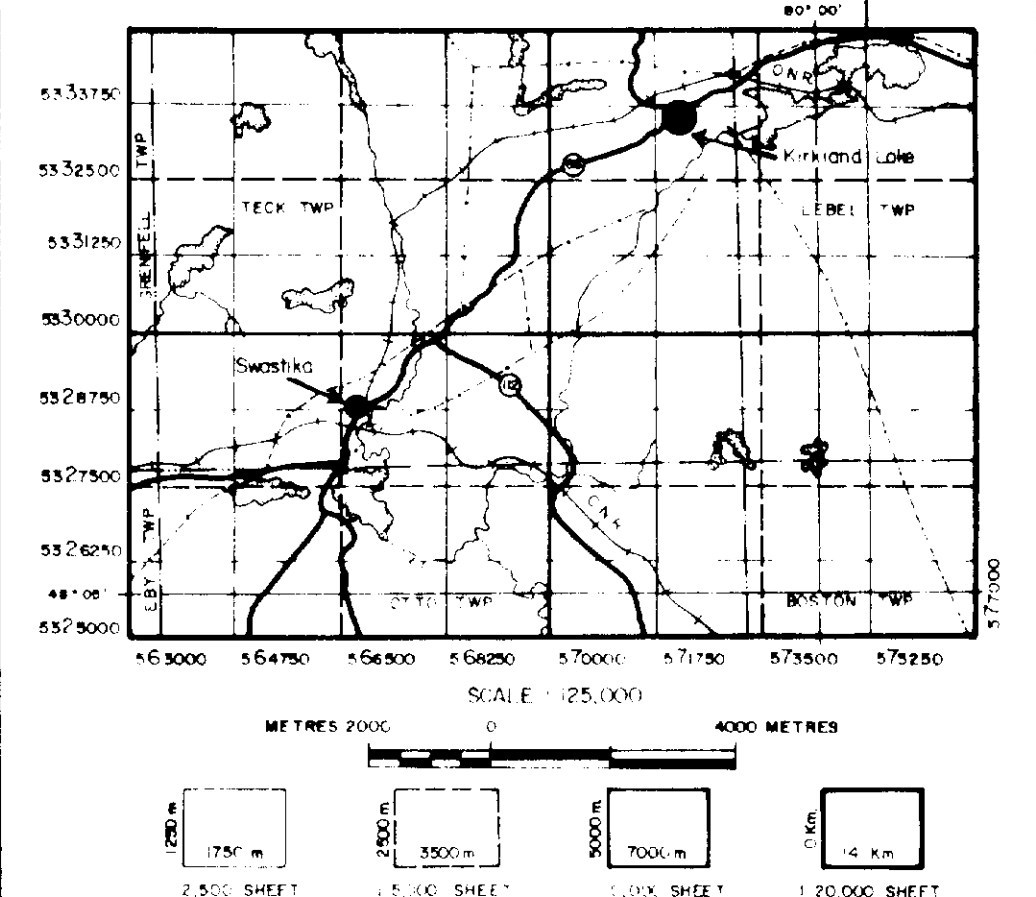


LEGEND

- HIGHWAY and ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIP BASE LINE, etc.
- UNSURVEYED LINES
- PARCEL BOUNDARY
- MINING CLAIMS



NOTE: The information that appears on this map has been compiled from various sources, therefore accuracy cannot be guaranteed.



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO

CLAIM MAP

PROJECT No. 75 JV-28	DATA BY
NTS 42A/18 32D/4	DRAWN BY B.H. Madill, Tech.
DRAWING No. PL-001	DATE 07/11/90
SCALE: 1 inch = 1/2 mile	

