

A01NE0124 79 TECK

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DIAMOND DRILLING

TOWNSHIP: TECK

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REPORT NO: 79

WORK PERFORMED FOR: BATTLE MOUNTAIN INC. RECORDED HOLDER: SAME AS ABOVE []

: OTHER []

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
T 401663	ak-90-01	111.1 M	OCT/90	(1)
П 491002	· AK-90-02	123.55 M	OCT/90	(1)
	AK-90-03	129.5 M	ост/90	(1)
	AK-90-04	125.85 M	OCT/90	(1)
II.	AK-90-05	121.55 M	OCT/90	(1)
-11 ,	AK-90-06	71.8 M	OCT/90	(1)
:1	AK-90-07	108.2 M	OCT/90	(1)
	7K-90-08	123.45 M	OCT/90	(1)
- 101.000	yk−00−00	124 M	OCT/90	(1)
ь 491663	אג- 90 - 09	173.7 M	NOV/90	(1)
L 491651	AK-90-10	117.4 M	NOV/90	(1)
	AK-90-11	99.55 M	NOV/90	(1)
L 477299/491651	AK-90-12	90.17 M	NOV/90	(1)
L 500058/491651	AK - 90 - 13	99 45 M	NOV/90	(1)
т 491663	AK-90-14 AK-90-15	102.75 M	NOV/90	(1)

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

(CONT'D)

DIAMOND DRILLING

TOWNSHIP: TECK

WORK PERFORMED FOR: BATTLE MOUNTAIN INC. RECORDED HOLDER: SAME AS ABOVE [X]

; OTHER []

NOTE DATE FOOTAGE HOLE NO. CLAIM NO. NOV/90 (1) 119.62 M AK-90-16 L477419 (1)NOV/9056.55 M AK-90-17 L491663 (1) NOV/90 11 AK-90-18 77.9 M (1)NOV/90 71.2 M 11 AK-90-19 (1)NOV/9099.6 M 11 AK-90-20 (1) NOV/90117.7 M AK-90-21 L477419 (1)NOV/90155.3 М L500057/477419 AK-90-22 (1)NOV/90 191.7 Μ AK-90-23 L491663 (1)NOV/90151 11 AK-90-24 Μ (1)NOV/90142.9 M 11 AK-90-25 NOV-DEC/90 (1) 160.68 M AK-90-26 ъ477419 (1)DFC/90 130.1 AK-90-27 Μ L491651 (1)DEC/90 122.4 M AK-90-28 L491183

REPORT NO: 79

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

BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT

DIAMOND DRILLING REPORT

AMALGAMATED KIRKLAND PROPERTY (OCTOBER - DECEMBER, 1990)

TECK TOWNSHIP, LARDER LAKE MINING DIVISION ONTARIO, CANADA

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Kirkland Lake, Ontario

January, 1991

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W. Benham

APPENDIX I

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DIAMOND DRILL LOGS

*HOLE: AK-90-01

PROPERTY Amalgamated Kirkland DATE LOGGED October 17-20 1990 EASTING 8350.00 LOGGED BY Mark Masson DEPTH AZIMUTH DIP -NORTHING 10185.00 TOWNSHIP Teck SIGNED BY ELEVATION 341 Collar 45 CLAIM No. L 491663 DRILLED BY leath & Sherwood LENGTH 111.10 28.96 45 STARTED. October 16, 1990 SURVEYED BY UNITS metres COMPLETED October 18, 1990 102.10 40 CORE LOCATION K.L. Warehouse CORE SIZE NQ 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

		SUMMA	RY LOG			ASSA	Y SUMMARY	ł
INTERV From	VAL Tu	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTER From	VAL To	LENGTH In metres	AVERAGE Au g/1
0.00 2.00	2.00 12.30	CASING CONGLOMERATE 7.55 - 7.87 Fault @ 22° tca 9.40 - 9.80 Fault @ 30° tca 11.90 - 12.15 Fault @ 37° tca		53.50 - 54.10 Foliation (# 60° tca 54.10 - 56.90 Fault Zone (# 40° tca 59.40 - 60.15 Pyrite Zone (# 40° tca 5 - 10 (% py, 1 - 3 % qtz 60.60 - 60.85 Fault Zone (# 30° tca	59.40	60.40	1.00	0.61
12.30	14.10	ASH TUFF	60.90 80.10	IAPILLI TUFF				
14.10 14.45	14.45 18.40	CONGLOMERATE LAPILLI TUFF 15.85 - 16.00 Fault & 52º tra	80.10 83.10	ASH TUFF 80.10 - 80.20 Fault @ 17º tca 82.80 - 83.10 Fault @ 20º tca				
18,40	22.70	ASII TUFF 22.45 - 22.60 Fault @ 22 • tca	83.10 84.75 84.75 87.80	LAPILLI TUFF ASH TUFF				
22.70	41.20	LAPILLI TUFF 29.80 - 30.00 Sericite Zone 37.26 - 37.70 Fault Zone (à 40° tea	87.80 92.50	84.75 - 85.20 Fault Zone @ 47° tca IAPILLI TUFF 92.20 - 92.40 Fault @ 47° tca				
41.20	49.70	ASH TUFF 41 20 - 42 00 Fault Zone (a. 379 tea	92.50 92.80	CONGLOMERATE COADSE LADILLETHEE				
49.70 (60.90	SERICITIC ALTERATION ZONE 50.80 - 51.65 Fault Zone @ 45° tca	107.50 111.10	LAPILLI TUFF			i I	
		52.35 - 53.50 Fault Zone @ 51º tca	111.10	E.O.11.			I	

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HOLE: AK-90-01

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INTE	RVAL	DESCRIPTION								
FROM	то	DESCRIPTION	No	FROM			SAN	IPLE DECODURINGU		ASSAYS
0.00				FROM	10	Longin	M Kec	DESCRIPTION	Au, g/t	Au, Check Au [•] M
0.00	2.00	CASING		-						
2.00	12.30	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 tragments (graywacke) groundmass. Minor wispy sericite is pervasive throughout.		•						
i		 2.85 - 2.87 Fault @ 50° tca tight chlorite and sericite schist with moderate to strong ankerite. 3.74 - 3.85 Fault @ 57° tca Sericite + Ankerite Schist - leading contact marked by 1 cm quartz albite veinlet with sharp chloritic boundaries. Lower contact is gradational with wispy sericitic conglomerate. 6.75 - 6.85 Fault @ 23° tca Sericite + chlorite + quartz/albite, rubbly button core 7.30 - 7.40 Fault @ 15° tca 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. 	6177 6178 6179 6180 6181 6182 6183 6184	2.00 3.00 3.50 4.00 5.00 6.50 7.00	3.00 3.50 4.00 5.00 6.00 6.50 7.00 8.00	1.00 0.50 0.50 1.00 1.00 0.50 0.50 1.00	Ĭ	Foliated Cgl, Fault @ 2.85 - 2.87 Conglomerate - weak sericite Cgl + sericite + ankerite schist Weakly foliated Conglomerate Massive Conglomerate Massive Conglomerate Foliated Cgl, fault @ 6.75 - 6.85 Foliated sheared Conglomerate, fault @ 7.30 - 7.55	0.02 0.02 0.03 0.03 0.02 0.04 0.02 0.04	0.01
		9.40 - 9.80 Fault @ 30° tca Sericite + ankerite + quartz/albite; strong sericite/ankerite schist and brecciated quartz albite veinlets.	6185 6186 6187 6188	8.00 9.00 10.00 11.00	9.00 10.00 11.00 11.50	1.00 1.00 1.00 0.50		Massive to foliated Conglomerate Sheared Cgl - Sericite+ Ank + Qtz/Albite Massive Conglomerate Massive Conglomerate	0.02 0.02 0.03 0.01	

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INTE	RVAL	DESCRIPTION				· · · · · · · · · · · · · · · · · · ·	SAN	APLE		244224
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/1	Au,Check Au*M
		11.90 - 12.15 Fault @ 37° tca Sericite + chlorite + calcite + quartz; pseudo brecciated to brecciated quartz vein, 3 cm wide, in sericite chlorite schist.	6189 6190	11.50 12.20	12.20 13.00	0.70 0.80		Scr + Chl Schist + Qiz Breccia Massive Ash Tuff	0.01 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 (a 33° tca: scricite + 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. 		1 a	، ر. ران	· 、				
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-incidental with late barren quartz \pm 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	6193	14 5()	15.00	0.50		Massium Lapilli Tuff	0.03	
		cm irregular quartz vein.	6194	15.00	16.00	1.00		Massive Lapini Tun Massive to foliated Lapilli Tuff - fault @ 15.85 - 16.00	0.03	
		no. 10.00 rault (n 52° tea: sericite + quartz/albite schist; strong to moderately sericitized tuff with late, barren white quartz veinlets to 0.5 cm.	6195 6196	16.00 17.00	17.00 17.70	1.00 0.70		Massive undeformed Lapilli Tuff Massive Lapilli Tuff with minor late QV's	0.02 0.02	
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INTE	RVAL	DESCRIPTION			:		SAN	1PLE		ASSAYS	
FROM	то		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, gh	Au,Check A	lu•M
		 17.45 - 17.50 Fault (a 67° tca: sericite + chlorite + quartz schist; 1 cm buff-milk white quartz vein with 1 mm wide chlorite selvage in strongly sheared sericite schist. 18.00 - 18.06 Fault (a 27° tca: sericite + chlorite + quartz pseudo-brecciated to brecciated white quartz vein within sericite-chlorite schist. 18.20 - 18.40 Contact zone with ash tuff is strongly sericitized with very irregular quartz ± albite veinlets throughout. 	6197	17.70	18.40	Q.70		Massive Lapilli Tuff	0.02	*****	
18.40	22.70	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 Fault @ 50° tca: sericite + chlorite + quartz; irregular buff to white quartz veinlets and brecciated masses in sericite + chlorite schist. 19.55 - 19.60 Fault @ 32° tca: sericite + chlorite + ankerite + quartz; rusty 	6198 6199	18.40 19.00	19.00 20.00	0.60 1.00		Massive Ash Tuff with sericite + quartz, fault @ 18.70 Ash Tuff with minor faulting and quartz	0.01 0.01		
		 19.80 - 20.10 Bedding (<i>a</i>: 12 - 15° tca: very finely laminated ash tuff in contacts with slightly coarser ash tuff; small scale micro faulting evident with 0.5 - 1 cm movement. 	6200 6201 6202	20.00 21.00 22.00	21.00 22.00 22.70	1.00 1.00 0.70		Massive Ash Tuff Massive Ash Tuff Massive Ash Tuff with fault breecia @ 22.45	nil 0.01 0.01		
		22.45 - 22.60 Fault breccia @ 22° tca: angular brecciated white quartz fragments up to 3 cm in a dark green to black chloritic matrix. Minor late calcite in fractures.									
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 scricitized spotted trachyte to dirty brown porphyritic trachyte with phenocrysts to $1 - 2$ mm in holocrystalline	6203 6204	22.70 23.50	23.50 24.00	0.80 0.50		Massive Lapilli Tuff Massive Lapilli Tuff - minor late calcite	0.01 0.01		

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INTER	RVAL		DESCRIPTION					SAN	IPLE		ASSAYS
FROM	то			No.	FROM	то	Longih	% Rcc	DESCRIPTION	Au, g/1	Au, Check Au*M
		groundmass. C poorly sorted v	Clasts are angular to sub-rounded from 2 mm - 4 cm (avg. 1 cm), with weak to moderate shear fabric @ 55* tea; unit displays patchy	6205	24.00	25.00	1.00		Massive Lapilli Tuff with late quartz vein	0.01	
		strong magneti	sm throughout.	6206 6207	25.00 26.00	26.00 27.00	1.00 1.00		Massive Lapilli Tuff Massive Lapilli Tuff - fault @ 26.50	0.01 0.01	
		24.50 - 24.60 26.50 - 26.60	Quartz ± albite + ankerite vein @ 40° tca: buff-white to brown. Fault @ 40° tca: chlorite + quartz + calcite; narrow open chloritic	6208	27.00	28.00	1.00		Massive undeformed Lapilli Tuff	0.01	
		29.80 - 30.00	fault with vuggy quartz + calcite infilling. Sericitic zone; moderately sericitized tuff with late buff-brown to while quartz veining of 10% tea	6209 6210	28.00 29,00	29.00 30.00	1.00 1.00		Massive Lapilli Tuff Massive to sericitic Tuff @ 29.80	0.01 0.01	
		30.30 - 30.40 34.32 - 34.40	Fault (1 50° tca: chlorite + sericite + quartz. Fault (1 67° tca: sericite + quartz + chlorite; strong sericite schist	6211	30.00	31.00	1.00		Massive Lapilli Tuff - minor weak	0.01	0.01
		37.26 - 37.70	with breeciated quartz throughout; bull white, barren quartz. Fault zone - fault breecia (a 27° - 40° tea: breeciated to pseudo- breeciated (crack & soult zone of obtorite + sericite + oparta in	6212 6213	31.00 32.00	32.00 33.00	1.00 1.00		Massive Lapilli Tuff Massive Lapilli Tuff	0.01	
			fine grained ash - / lapilli - tuff; pseudo-breccia i.e. an in-situ cracking which is infilled with chlorite; brecciated material is	6215	34.00	35.00	1.00		Massive Lapilli Tuff - fault @ 34.32	nil	
		40.00 - 40.50	angular quartz clasts in a dark chloritic/sericitic matrix. Ash Tuff - massive, very fine grained, light-green to grey ash tuff with very fine term is magnitude (0.5 - 2.5 cm	6216 6217	35.00 36.00	36.00 37.00	1.00		Massive Lapilli Tuff Massive unaltered Lapilli Tuff	nil nil	
			separation; bedding (a 55° tca.	6218 6219 6220	37.00 38.00 39.00	38.00 39.00 40.00	1.00		Fault Breecia Zone 37.26 - 37.70 Massive Ash/Lapilli Tuff Massive Ash/Lapilli Tuff	0.01 nil 0.01	
				6221	40.00	40.50	0.50		Undeformed Ash Tuff with 1 mm magnetic beds	0.01	
		Note: From 3 contact clasts a to very clasts.	85.50 - 41.20 m zone of intercalated ash and lapilli tuffs; Gradational ts between the units are noted by a sharp decrease in the number of and no apparent change is evident in the groundmass which is a fine fine grained, massive trachytic ash with 30% feldspar + 70% lithic	6222	40.50	41.20	0.70			0.01	

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INTE	RVAL		DESCRIPTION					SAN	1PLE		ASSAYS	
FROM	то			No.	FROM	то	Length	% Rec	DESCRIPTION	Au. g/t	Au,Check	Au*M
41.20	50.80	ASH TUFF Unit is general green to mauve non-magnetic b veinlets up to (ly massive to poorly bedded, very fine to fine grained, dark grey to (hematite) and contains $< 1\%$ clasts greater than 5 mm. Generally but has some locally strongly magnetic areas; irregular, white quartz 0.5 cm are pervasive throughout.	6223	41.20	42.00	0.80		Fault Zone - Qiz breccia , chlorite and sericite	0.01		
		41.20 - 42.00	Fault Zone - Fault Breccia ($4, 37^{\circ}$ 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 Q1z 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	6225	43.00	44.00	1.00		Massive Ash Tuff - fault @ 43.32 - 43.40	0.02		
		1144 1176	predominantly sericitic ash tuff.	6226	44.00	45.00	1.00		Ash Tuff - fault @ 44.66 - 44.75	0.01		
		44.00 - 44.75	quartz vein bounded by dark green chlorite and wisny sericite	6227	45.00	46.00	1.00		Massive weakly sericitic Ash Tuff	nil		
		46.26 - 46.35	Quariz Vein: very irregular quartz vein with moderate to strong sericite alteration at contacts and within 1 - 2 cm inclusion; quartz	6228	46.00	47.00	1.00		Massive Ash Tulf with 1% quartz veins	זות		
			is milk-white to pinkish and appears to have undergone three periods of silicification.	6229	47.00	48.00	1.00		Ash Tuff with 1% quartz and chlorite veinlets	0.02		
		48.90 - 49.30 -	Well bedded Ash Tuft: very fine grained light grey-green ash tuff with 1 - 2 mm wide purple (hematite) beds @ 62° tca. These beds	6230	48.00	49.00	1.00		Massive Ash Tuff with 1 - 2% quartz veinlets	nil		
		49.30 - 49 .38	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. Fault (a 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		



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INTE	RVAL	DESCRIPTION					SAN	IPLE		ASSAYS	
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/1	Au, Check Au*h	4
		49.70 - 50.40 Sericite isograd (a 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 (i 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		Fauli Zone - sheared Lapilli Tuff	nit		
		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° tea; 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 Strongly deformed tapilli tuff with patchy and wispy sericite + chlorite in a pseudo-brecciated groundmass of lapilli tuff and 10 - 15% trregular quartz masses outlined by dark chloritic boundaries. 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. 	6235 6236	52.35 53.00	53.00 53.50	0.65 0.50		Scricitic fault + Fault Breccia Ruhbly core - scricite + chlorite + quartz schist	0.01 0.04		

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INTE	RVAL	DESCRIPTION									
FROM	то	DESERT HOR	No	FROM		l anath	SAN Ø Dan	IPLE		ASSAYS	
53.50	54.10	LAPILLI TUFF Well foliated, muni-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	<u>77 KEC</u>	Foliated, moderately sericitic Lapilli Tuff	Au, g/t	Au,Check	<u>Au*M</u>
54.10	56.90	 FAULT ZONE (a) 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 Breecia @ 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 6239 6240	54.10 55.00 56.00	55.00 56.00 56.90	0.90 1.00 0.90		Strongly sheared, foliated sericitic Tuff Sheared Lapilli Tuff - sericite + chlorite Strongly sheared sericitic Tuff	nil 0.02 0.07		
56.90 59.40	59.40 60.15	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 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 flowting are evident as 1 white markets.	6241 6242 6243 6244 6245	56,90 57,90 58,90 59,40 59,90	57.90 58.90 59.40 59.90 60.40	1.00 1.00 0.50 0.50 0.50		Moderately foliated, sericitic Ash Tuff Massive to foliated Ash Tuff Massive sericitic Ash Tuff Pyrite Zone, 5 - 10% pyrite in sericitic Tuff Pyrite Zone, 3 - 5% pyrite in sericitic Tuff	0.02 0.07 0.09 0.88 0.36	0.84	
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	6243 6244 6245	58.90 59.40 59.90	59.40 59,90 60.40	0.50 0.50 0.50		Massive sericitic Ash Tuff Pyrite Zone, 5 - 10% pyrite in sericitic Tuff Pyrite Zone, 3 - 5% pyrite in sericitic Tuff	0.09 0.88 0.36	0.84	

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INTE	RVAL	DESCRIPTION			•		SAN			A \$\$ A ¥\$
FROM	ТО		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au.Check Au*M
		mm quartz \pm chlorite veinlets parallel to fabric and having strong pyritic boundaries and 2) late white cross-cutting quartz veinlets and masses; upper contact is very sharp and somewhat irregular ($\&$ 65° tca; lower contact is very irregular, sharp and is marked by a 5 mm quartz vein with semi-massive, fine grained pyrite along vein boundaries 1 - 2 mm wide; average pyrite content 5 - 10%.								
60.15	60.90	SERICITIC ASH TUFF Massive to weakly foliated light green, fine grained sericitic ash tuff; unit contains 1 - 2% very finely disseminated pyrite from 60.50 - 60.60 m.	6246	60.4 0	60.90	0.50		Sericitic Ash Tuff + Fault Breecia	0.08	
		 60.35 - 60.40 Fault Breccia @ 53° tca: 3 - 4 cm black, chloritic breccia with angular, sericitic trachyte clasts to 1.5 cm. 60.60 - 60.85 Fault @ 30° tca: sericite + chlorite + quartz. 	- -							
60.90	80.10	 1APILLI TUFF Massive to weakly foliated dark grey to green, fine to medium grained lapilli tuff; groundmass is fine grained, chloritic and moderately to strongly magnetic through out; clast component from 5 - 25% of the unit, are angular to sub-rounded, generally less than 1 cm in size, and are comprised predominantly of light brown coloured, fine grained to aphanitic trachyte up to 80%; very weak to non-existent fabric or clast elongation, i.e.: massive, poorly bedded and moderately well sorted. 63.30 Fault @ 20° tca: sericite + chlorite schist; tight 2 - 3 mm wide sericite + chlorite shear. 73.35 Fault @ 71° tca: Chlorite + Quartz ± calcite; 1 cm wide chloritic shear with 0.5 cm pink quartz + calcite. 	6247 6248 6249 6250 6251 6252 6253 6254 6255 6256 6257 6258 6259 6260	60.90 61.90 62.50 63.50 64.50 65.50 65.50 67.50 68.50 69.50 70.50 71.50 72.50 73.50	61.90 63.50 64.50 65.50 66.50 67.50 68.50 69.50 70.50 71.50 72.50 73.50 74.50	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00		Massive weakly sericitic Lapilli Tuff Massive Lapilli Tuff Massive Lapilli Tuff fault @ 63.30 Massive chloritic Lapilli Tuff Massive Lapilli Tuff Massive Lapilli Tuff Massive Lapilli Tuff Massive unaltered Lapilli Tuff	0.04 0.01 0.04 nii 0.01 0.01 0.01 0.01 0.01 0.02 0.05 0.01 nii	0.01

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INTE	RVAL	DESCRIPTION			:		SAN	(PI.E		ASSAYS	
FROM	то		No.	FROM	τo	Length	% Rec	DESCRIPTION	Au, g/1	Au,Check Au	J•M
			6261 6262 6263 6264 6265 6265	74.50 75.50 76.50 77.50 78.50 79.50	75.50 76.50 77.50 78.50 79.50 80.50	1.00 1.00 1.00 1.00 1.00 1.00		Massive unaltered Lapilli Tuff Massive Lapilli Tuff - fault @ 80.10	nii 0.02 nii 0.01 nii nii nii	0.01	
80.10	80.20	FAULT ZONE (a) 17° tea Serieite + Chlorite + Quartz buff to pink quartz + calcite breecia in serieite + chlorite schist; fault marks upper contact of fine grained massive, bleached ash tuff									
80.20	83.10	ASH TUFF / ALTERED LAPILLI TUFF Massive to weakly foliated with weak clast elongation @ 55* tea; 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)			н 1. 1						
		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) cleats become obligated and different to distinguish	6267	80.50	81.50	1.00		Bleached Ash Tuff with 5% Magnetic	0.01		
		scretce and anti-anti-inguish.	6268	81.50	82.50	1.00		Massive to bleached Tuff with 3 - 5% Magnetite	0.01		
		82.80 - 83.10 Lower contact faulted (g 20° tca: sericite + chlorite + pink-buff quartz; minor (<<1%) coarse, euhedral pyrite along slip face.	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 $1 - 2 \text{ mm}$ to 2.5 cm (avg. $4 - 5 \text{ mm}$) 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		

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INTE	RVAL	DESCRIPTION					SAN	1PI F		24 4 2 2 4
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au.Check Au [•] M
		matrix is fine grained dark grey-green, equigranular and consists of 65% feldspar, 35% lathics.		:						
84.75	85.20	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
¥5.20	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 ($\frac{1}{6}$ 40° tea (25% + sericite); buff-brown alteration halos have very diffuse boundaries grading outward	6272 6273	85.20 86.00	86.00 87.00	0.80		Ash Tuff with sericitic halos proximal to quartz veins Ash Tuff with sericite alteration balas	0,01 0.01	
	i	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	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. 88.85 - 89.10 Light brown, fine grained ash tuff with weakly bedded magnetite grains and specks throughout (2 - 3% of total). 	6275 6276	87.80 88.50	88.50 89.10	0.70 0.60		Massive unaltered Lapilli Tuff Massive Lapilli-/ Ash Tuff with magnetite	0.03 0.02	
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 6278	89.10 90.10	90.10 91.00	1.00 0.90		Massive unaltered Lapilli Tuff Massive weakly sericitic Lapilli Tuff	0.02 nil	

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INTE	RVAL	DESCRIPTION					SAM	IPLE		ASSAYS
FROM	TO		No.	FROM	то	Longth	% Rec	DESCRIPTION	Au, g/t	Au, Check Au*M
		 91.05 - 92.40 Fault @ 78° tca: sericite + quartz; 2 cm wide sericite schist with narrow (2 - 3 mm) quartz veinlets. 92.20 - 92.40 Fault Zone @ 47° tca: 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. 	6279 6280	91.00 92.00	92.00 _. 92.50	1.00 0.50		Massive Lapilli Tuff - minor sericite alteration Sheared sericitic Lapilli Tuff	0.01 nit	
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 tulfs; 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	 LAPILLT 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. 94.42 - 94.50 Fault (a 50° tea: chlorite + sericite; muddy, tight chlorite + sericite ± quartz; chloritic shear with minor pink-white quartz + quartz breecia. 	6282 6283 6284 6285 6286 6287 6288 6289 6290 6291 6292 6293 6294 6295 6295 6296	93.00 94.00 95.00 96.00 97.00 98.00 99.00 101.00 102.00 103.00 104.00 105.00 106.00 107.00	94.00 95.00 96.00 97.00 99.00 100.00 101.00 101.00 103.00 104.00 105.00 105.00 107.00	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00		Massive coarse Lapilli Tuff Massive Lapilli Tuff fault @ 94.42 Massive Lapilli Tuff Massive Lapilli Tuff Massive Lapilli Tuff Massive Lapilli Tuff Coarse Lapilli Tuff Massive unallered coarse Lapilli Tuff	0.02 0.01 ni1 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	0.01

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INTE	RVAL		DESCRIPTION					SAN	1PLE		ASSAYS
FROM	то			No.	FROM	то	Length	% Rec	DESCRIPTION	Au. 2/1	Au.Check Au*M
107.50	111.10	 LAPILLI TUFF Heterolithic - massive, dark groare heterolithic, sub-angular a comprise 10 - 20% of unit; matmagnetic. 108.95 Fault @ 30* tea; 0.5 cl 	cen to mauve coloured strongly magnetic tuff; clas and vary from 1 mm - 1.5 cm (avg 0.5 cm) ar trix is fine grained, dark green chloritic and strong m wide quartz + chlorite shear.	6297 6298 6299 6300	107,50 108,00 109,00 110,00	108.00 109.00 110.00 111.10	0.50 1.00 1.00 1.10		Massive heterolithic Tuff Massive Lapilli Tuff Massive Lapilli Tuff Massive unaltered heterolithic tuff	nil nil nil nil	
	111.10	E.O.H.					1				
		NOTE: Abbreviations Used Ank = Ankerite, Chl = Chlorite, Qiz = Quariz,	Cgl = Conglomerate QV = Quartz Vein Ser = Sericite								
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HOLE: AK-90-02

PROPERTY Amalgamated Kirkland DATE LOGGED October 21-22 1990 EASTING 8300.00 LOGGED BY Mark Masson DEPTH AZIMUTH NORTHING 10175.00 DIP TOWNSHIP Teck SIGNED BY **ELEVATION** Heath & Sherwood Collar 341 45 CLAIM No. L 491663 DRILLED BY LENGTH 123.55 STARTED October 18, 1990 38.10 44 SURVEYED BY UNITS metres COMPLETED October 19, 1990 CORE LOCATION K.L. Warehouse 96.00 41 CORE SIZE NQ PURPOSE To test 102-8275 Gold Zonc COMMENTS Alteration Zone 54.5-64.0, 9.5 m No appreciable sulphide mineralization

		SUMMA	RY LOG		ASSA	Y SUMMARY		
INTERV From	VAL Tu	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE	
0.00 2.44 4.10 11.20 54.50 61.90 63.60 64.00 69.50 7 79.20 102.35 10	2.44 4.10 11.20 54.50 61.90 63.60 64.00 69.50 79.20 02.35 03.75	CASING ASII TUFF LAPILLI TUFF 8.40 - 9.00 Shear Zone @ 24 * tca ASII TUFF BLEACHED ASH TUFF FAULT ZONE 63.55 - 63.60 Quartz Vein @ 35 * tca 1 - 3 % pyrite SYENITE LAPILLI TUFF ASII - LITHIC TUFF 70.45 - 70.80 Sheared , Sericitic 74.75 - 75.15 Fault @ 45 * tca 78.75 - 79.20 Bleached COARSE LAPILLI TUFF FAULT ZONE	103.75 123.55	GRAYWACKE 3 - 4 % sericite E.O.II.	From To 63.10 63.65 103.00 104.00	in metres 0.55 1.00	Au g/i 0.165 0.12	
		10 - 15 % brecciated quartz veining and chloritic fractures			· ·	ł		

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INTER	VAL	DESCRIPTION					SAM	PLE		ASSAYS
FROM	ΤO	· · · · ·	No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au,Check Au*M
0.00	2.44	CASING								
2.44	4.10	ASH TUFF Massive to well bedded, fine grained, equigranular ash tuff; unit is grey-green in colour with very fine $(0.5 - 1 \text{ mm})$ dark grey ash beds @ 15* tea; unit is deformed; non-magnetic and intercalated with massive lapilli tuffs with sharp but irregular contacts.								
4.10	11.20	acts. ILLI TUFF fix supported, heterolithic lapilli tuff; sive, dark-grey undeformed and unaltered with 1-3% dispersed, sub-angular s floating in a massive, fine grained ash matrix. Framework consists of sub- thar clasts to 1.5 cm, from dark green to buff to pink in colour, and have little to abric orientation. Unit is non-magnetic and contains less than 0.5% late, white- quartz veinlets (<= 0.5 cm) randomly dispersed throughout.		7.00 8.00	8.00 8.42	1.00 0.42		Massive Lapilli Tuff Massive Lapilli Tuff	nil nil	
		8.42 - 9.00 Fault shear zone (a 24° tca: sericite + ankerite + chlorite; rusty weathered highly foliated to sheared with strong sericite and ankerite alteration; upper contact marked by an irregular 0.5 cm quartz + chlorite vein with penetrative carbonate alteration up to 3 cm in wall rock; lower contact is sharp, tight 2 mm quartz + chlorite veinlet; late, vuggy quartz + calcite vein cross-cuts foliation (a 80°.	6303 6304	8.42 9.00	9.00 10.00	0.58 1.00		Sericite + Ankerite Schist Massive Lapilli Tuff	0.01 nii	0.03
		10.47 - 10.55 Fault breecia (# 33° tea; angular white-pink quartz fragments in dark chloritic matrix;	6305	10.00	11.00	1.00		Lapilli Tuff with late cross faulting	0.03	
11.20	54.50	ASH TUFF Massive to well bedded, fine grained, grey-green ash tuff with intercalated clast-rich lapilli tuff beds from 1 cm to 1 m in width and generally averaging <0.5 m wide; unit is unaltered and undeformed with patchy, strongly magnetic zones but is							, , ,	

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INTER	VAL	DESCRIPTION					SAM	PLE		ASSAYS
FROM	ТО		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check Au*M
54.50	61.90	 DESCRIPTION generally weak to non-magnetic; intercalated lapilli beds are heterolithic with clast component ranging from 5-25% in a fine grained ash matrix; bedding varies from 5 - 20° tea and quite often shows evidence of cross-bedding in ash component. 25.30 - 25.70 White to cream to pink coloured irregular barren quariz vein running sub-parallel to core axis. Minor sericite and chlorite in wall rock. 25.70 - 25.95 Fault @ 17° tea: sericite + chlorite + quartz + calcite; 3 - 5 cm breeciated quartz + calcite vein within tight sericitic, muddy slips 1 - 2 mm wide on both walls. 49.75 - 49.90 Fault @ 40° tea: chlorite + sericite + quartz; strongly sheared, muddy fault with narrow (1 - 3 mm) quartz veinlets. 53.55 - Fault @ 33° tea: tight 1 cm wide chlorite + sericite shear. BLEACHED ASH TUFF This section is characterized by 5-10% cross-cutting quartz veinlets with bleached, buff-brown irregular sericitized alteration halos surrounding them. Unaltered sections are massive, fine grained grey-green ash tuff as at 11.20 - 55.50 metres. At least 3 states of quartz veinlem are evident. 	No. 6306 6307 6308 6309 6310 6311 6312 6313	FROM 24.00 25.00 25.50 26.00 53.00 54.00 54.00 54.00	TO 25.00 25.50 26.00 27.00 54.00 54.50 55.00 56.00	1.00 0.50 0.50 1.00	SAM % Rec	PLE DESCRIPTION Massive Ash / Lapilli Tuff Quartz vein in massive Ash Tuff Fault Zone @-25.70 m Massive Ash Tuff Massive Ash Tuff Massive Ash Tuff Ash Tuff with sericite alteration on quartz Ash Tuff with quartz veins and	Au, g/1 0.01 0.01 0.03 nil 0.01 0.01	ASSAYS Au,Check Au*M
		 Primary quartz flooding with sericite (@ 20° tca) alteration halos up to 2 cm wide bounding milk-white irregular quartz veins @ 15° - 20° tca with inclusions of sericitized wall rock. Veins have 0.5 - 3 cm wide halos. and 3) Two stages of later cross-cutting quartz flooding @ 90° to initial veining. These veins are narrow (1 - 3 mm) and are frequently stepped due to small scale microfaulting parallel to primary vein orientation. 	6314 6315 6316 6317 6318 6319	56.00 57.00 58.00 59.00 60.00 61.00	57.00 58.00 59.00 60.00 61.00 61.90	1.00 1.00 1.00 1.00 1.00 1.00		Sericitie Sericitized Ash Tuff with quartz veins Bleached Ash Tuff + quartz veins Bleached Ash Tuff + quartz veins Bleached Ash Tuff with 3 - 5% quartz veins Bleached Ash Tuff with 5% quartz veins Bleached Ash Tuff with 3 - 5% quartz veins	níl 0.01 0.01 nil nil	0.01

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INTER	VAL	DESCRIPTION					SAN	IPLE		ASSAYS
FROM	то		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/1	Au,Check Au*M
61.90	63.60	FAULT ZONE Mylonite (a 37° tea: strongly foliated to sheared, scricitized tuffs; unit displays cataclastic to pseudo-mylonitic texture with wispy to banded scricite (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 (a' 37° tea (80° to schistosity).	6320 6321	61.90 62.50	62.50 63.10	0.60 ().60		Sheared sericitic Mylonite Sericitic Mylonite	0.01 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 shp face which marks lower contact @ 35° tca; vein displays crack and scal 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 pyrite 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 scricite 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 synite for 1 cm at contact (i.e., post synite fault) @ 75* tca.	6323	63.65	64.00	0.35		Sycnite - late quartz chlorite veining	U.O1	
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INTER	VAL	DES	SCRIPTION					SAM	IPLE		ASSAYS
FROM	TO	·		No.	FROM	то	Length	% Rcc	DESCRIPTION	Au, g/l	Au,Check Au*M
64.00	69.50	LAPILLI TUFF Heterolithic coarse lapilli tuff, massiv (a 55° tca; unit is grey-green to purp cross-cutting quartz veinlets (1 - 2 m Framework consists of poorly sorted a 2 mm to 5 cm in size (avg 0.5 - 1 cm types vary from green fine grained cla grained, black trachyte clasts. Mate moderate sericite alteration througho	e to moderately foliated with clast elongation le (hematized) in colour and is cut by $2 - 3\%$ m) wide (a) 35° tea sub-parallel to foliation. ngular to subrounded lithic fragments from $1 - 1$ and comprising 10 - 15% of unit. Lithology sits to reddish brown, porphyritic and very fine rix is fine grained lithic ash with pervasive, ut.	6324 6325 6326 6327	64.00 64.50 65.00 66.00	64.50 65.00 66.00 66.50	0.50 0.50 1.00 0.50		Altered sericitic Tuff with 3% quartz veinlets Massive hematitic Lapilli Tuff Massive hematitic Lapilli Tuff Weakly sericitic Lapilli Tuff	0.02 0.01 0.01 0.01	
;		 66.97 - 67.07 Open, vuggy, drusy q parallel to core axis. 10%). 67.30 - 67.45 Quartz + sericite set quartz veining 3 - 4 c and fault stips. 67.90 - 68.00 Quartz Vein @ 22* vein 2 cm wide. 69.50 Fault @ 40* tca: stro. 0.5 cm wide. 	uartz + calcite veinlets (1 - 3 mm wide), sub- Core is rusty, carbonatized and sericitic (5 - hist (4 45° tca: grey to buff-brown coloured m wide with strong irregular sericitic margins tca: white to buff to pink quartz and sericite ong, tight muddy chloritic break approximately	6328 6329 6330 6331	66.50 67.10 68.10 69.10	67.10 68.10 69.10 69.60	0.60 1.00 1.00 0.50		Lapilli Tuff with vuggy quartz + calcite Lapilli Tuff with quartz veins Hematized Lapilli Tuff - 3% quartz veins Massive Tuff with faulting @ 69.50	0.02 0.01 0.01 0.01	0.02
69.50	79.20	ASH - LITHIC TUFF Massive dark grey to green generally with minor patchy sections of lapi throughout. Unit consists predomina rock (ragments) with less than 1% generally buff-brown and very fine gra Unit is cross-cut by 1% white quar moderate sericitization halos on marg	quite fine grained and moderately well sorted lit tuff up to 0.5 metre wide interspersed ntly of fine grained lithic matrix (feldspars + lapilit sized clasts randomly scattered and bined. Unit displays patchy, strong magnetics. Iz veinlets (1 - 3 mm wide) with weak to ins with up to 1 - 2 cm wall rock penetration.								

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INTER	VAL		DESCRIPTION				1	SAM	IPLE		ASSAYS	
FROM	то	,		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/i	Au,Check Au	•М
		70.45 - 70.80 1 74.75 - 75.15 77.00 - 77.03 78.75 - 79.20	Sheared to sericitized lithic tuff; dirty brown coloured altered tuff with 5 - 10% pervasive sericite and numerous tight chloritic slips throughout; 70.50 - 70.55 buff-brown, halo-crystalline (cherty), irregular quartz mass, fractured and cut by 0.5 mm black chloritic slips; lower contact sharp 2 - 3 mm chlorite + quartz vein @ 52° tea. Fault (a 45° tea: tohated to sheared lithic tuff with sericite + quartz throughout; quartz occurs as white to bulf disrupted masses and breeciated veinlets up to 0.5 cm with 0.5% disseminated pyrite in wall tock @ 75.05 - 75.10 m. Fault breecia (a 77° tea: 1 - 1.5 cm white breeciated quartz vein in a dark green fine grained chloritic matrix. Bleached lithic tuff: 3 - 5% mtk-white quartz veinlets 1 - 5 mm wide along hair-line slips (a 50° tea with irregular light brown bleached, sericitic halos up to 1 - 2 cm. Where veins coalesce together bleached areas increase in width but not necessarily in	6332 6333 6334 6335 6336 6337 6338 6339 6340 6341 6342	69.60 70.40 70.90 71.90 72.50 73.50 74.50 75.50 76.50 76.50 78.50	70.40 70.90 71.90 72.50 73.50 74.50 75.50 76.50 77.50 78.50 79.20	0.80 0.50 1.00 1.00 1.00 1.00 1.00 1.00 1.0		Massive Lithic Tuff Sericitic Lithic Tuff - cherty quartz (9, 70.45 Massive Lithic Tuff - minor quartz + bleaching Massive Lithic Tuff Massive Lithic Tuff Massive Lithic Tuff, minor quartz Foliated Tuff with quartz and 0.5% pyrite Massive Lithic Tuff Lithic Tuff with fault breecia Massive Lithic Tuff Lithic Tuff with bleached veins	nil U.U1 0.01 0.02 0.04 0.01 nil nil 0.01 0.01	0.05	
79.20	102.35	LAPILLI TUFI Monolithic coa with light grey and range from total; 98% of c exotic, very fii moderately may 3 - 4% pink to	rise lapilli tuff; unit is massive, undeformed dark grey-green in colour to reddish clasts; clasts are matrix supported, angular to sub-rounded a 2 mm to 5 cm + (avg. size 1 - 1.5 cm) and comprise 5 - 10% of lasts are buff-grey to reddish fine grained to porphyritic trachyte; 5% be grained clasts; matrix is dark grey-green fine grain lithic ash, gnetic; upper contact with lithic tuff is sharp @ 40° tca; unit is cut by white quartz veinlets $(1 - 3 \text{ mm})$ at various core angles.	6343 6344	79.20 80.00	80.00 81.00	0.80 1.00		Massive coarse Lapilli Tuff Massive Lapilli Tuff	nil nil		

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VAL	DESCRIPTION			. •		SAM	IPLE		ASSAYS
то		No.	FROM	τo	Length	% Rec	DESCRIPTION	Au, g/1	Au,Check Au*M
	 81.00 - 81.50 Bleached scricitic zone; leading edge is tight scricite + chlorite slip (a 57° tca; section is yellow-green in colour, massive to moderately foliated with pervasive wispy scricite throughout; lower contact is gradational; lower contact marked by strong, 1.4 m wide fault zone. 	6345 6346 6347	81.00 81.50 82.00	81.50 82.00 83.00	0.50 0.50 1.00		Bleached sericitic Lapilli Tuff Massive Lapilli Tuff - minor bleaching - Massive Lapilli Tuff, quartz veins	0.02 nil 0.02	
		6348 6349 6350	83.00 84.00 85.00	84.00 85.00 86.00	1.00 1.00 1.00		Massive Lapilli Tuff - bleaching Massive unaltered Lapilli Tuff Massive Lapilli Tuff	0.02 0.03 0.01	0.02
		6351 6352 6353 6354	99.00 100.00 101.00 101.50	100.00 101.00 101.50 102.35	1.00 1.00 0.50 0.85		Massive coarse Lapilli Tuff Massive Lapilli Tuff Massive Lapilli Tuff Massive to foliated Tuff @ fault	nil nil nil 0.01	
103.75	FAULT ZONE Fault zone @ 57° tca: sericite + chlorite + quartz schist; strongly sheared to breeciated fault zone comprised of 80% massive sericite (yellow-green colour) plus tight chlorite sericite slips (1 - 2 mm) and massive to breeciated 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 6356	102.35 103.00	103.00 104.00	0.65		contact Fault zone - sericite schist Fault zone - sericitic greywacke	0.01 0.11	0.13
123.55	GREWACKE Massive, moderately well sorted, grey-green in colour and cut by $\leq = 1\%$ late, barren white quartz veinlets (0.5 - 2 nim), 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 6358 6359 6360	104.00 105.00 106.00 107.00	105.00 106.00 107.00 108.00	1.00 1.00 1.00		Sericitic Greywacke @ fault Massive Greywacke, spotty sericite Massive Greywacke - mudstone clasts Massive Greywacke - mudstone clasts	0.02 0.02 0.01 0.01	
	VAL TO 103.75 123.55	VAL DESCRIPTION TO 81.00 - 81.50 Bleached sericitic zone: leading edge is tight sericite + chlorite slip (0.57° 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. 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 while 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. 123.55 GRETWACKE Massive, moderately well sorted, grey-green in colour and cut by <= 1% late, harren white quartz venlets (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 scricite prevalent throughout; generally non-magnetic.	VAL DESCRIPTION TO No. 81.00 - 81.50 Bleached sericitic zone; leading edge is tight sericite + chlorite slip (6) 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 6349 6349 6350 6351 6351 6353 6352 6353 6353 6354 6354 6356 6355 6357 6356 6351 6357 feature comprised of 80% massive sericite (yellow-green colour) plus tight chlorite sericite slips (1 - 2 mm) and massive to breceitated white to grey quartz verits 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. 6357 123.55 GREYWACKE Massive, moderately well sorted, grey-green in colour and cut by <= 1% late, barren white quartz veniets (0.5 - 2 mm), and contains 1 - 2% scattered, angular, aphanitic 6358 6359 123.55 GREYWACKE Massive, moderately well sorted, grey-green in colour and cut by <= 1% late, barren white quartz veniets (0.5 - 2 mm), and contains 1 - 2% scattered, angular, aphanitic 6358 6359 6359 + 010 - 15 cm (avg. 1 - 2 cm) and jasper (1 mm - 3 cm); matrix comprises 95% + 016 the u	VAL DESCRIPTION TO No. FROM 81.00 - 81.50 Bleached sericitic zone: leading edge is tight sericite + chlorite slip (a 57* tea; section is yellow-green in colour, massive to moderately foliated with pervasive wispy sericite throughout; tower contact is gradational; lower contact marked by strong, 1.4 m wide fault zone. 6345 81.00 6348 83.00 6349 84.00 6350 85.00 6349 84.00 6350 85.00 6351 99.00 6352 100.00 6353 101.00 6353 101.00 6353 101.00 6353 101.00 6354 101.50 101.50 103.75 FAULT ZONE Fault zone (# 57* tea: sericite + chlorite + quartz schist; strongly sheared to breeciated fault zone comprised of 80% massive sericite (yellow-green colour) plus tight chlorite sericite slips (1 - 2 mm) and massive to breeciated white to grey quartz verins throughout (10 - 15%). Trace (ne grained pyrite in chlorite slips. This section may include very fine grained, yellow-green sericitic mudstone with sharp, tight sericite + chlorite boundaries. 6357 104.00 123.55 GRETWACKE Massive, moderately well sorted, grey-green in colour and cut by <= 1% late, barren white quartz venilets (0.5 - 2 nm), 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 fragment	VAL DESCRIPTION TO No. FROM TO 81.00 - 81.50 Bleached sericitic zone; leading edge is tight sericite + chlorite slip (n 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 83.00 6347 82.00 83.00 6346 81.50 83.00 6348 83.00 6340 6347 82.00 83.00 6350 85.00 66.00 6351 99.00 100.00 6352 100.00 6351 100.00 6352 100.00 6352 100.00 6351 102.35 103.00 101.00 101.50 102.35 103.00 103.00 103.00 104.00 6355 102.35 103.00 103.00 103.00 103.00 104.00 6355 102.35 103.00 104.00 6355 102.35 103.00 104.00 105.00 6356 103.00 104.00 105.00 6356 103.00 104.00 105.00 6356 103.00 104.00 105.00 105.00 105.00 6357	VAL DESCRIPTION TO No. FROM TO Length 81.00 - 81.50 Bleached sericitic zone: leading edge is tight sericite + chlorite slip (a: 57* tca; 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 81.00 82.00 0.50 6347 82.00 83.00 1.00 6348 83.00 84.00 1.00 6348 83.00 84.00 1.00 6348 83.00 1.00 6350 85.00 80.00 1.00 6359 85.00 80.00 1.00 6351 99.00 100.00 1.00 6351 99.00 100.00 1.00 6351 99.00 100.00 1.00 6351 101.00 1.00 6354 101.00 1.00 103.75 FAULT ZONE Fault zone (#: 57* tca: sericite + chlorite + quartz schist; strongly sheared to breceiated fault zone di 57* tca: sericite chief grained pyrite in chlorite slips. This section may include very fine grained, yellow-green sericitic mudstone with sharp, tight sericite + chlorite boundaries.	VALDESCRIPTIONSAMTON0.FROMTOLength $\%$ RecN0.81.00 - 81.50Bleached sericitic zone; leading edge is tight sericite + chlorite slip (6.57* 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 81.00 81.00 81.00 81.00 81.00 81.00 80.00 1.00 6347 82.00 83.00 1.00 6348 83.00 1.00 6349 84.00 85.00 1.00 6347 82.00 85.00 1.00 6351 99.00 10000 1.00 6352 100.00 1.00 6351 99.00 100.00 1.00 6352 100.00 1.00 6351 101.00 1.00 6354 101.50 102.35 0.85 100.00 1.00 6351 102.35 103.00 0.65 103.75 FAULT ZONEFault zone (g. 57* tea: sericite + chlorite + quariz schist; strongly sheared to brecviated fault zone comprised of 80% massive sericite (yellow-green colour) plus tight thorite stips (1 - 2 mm) and massive to brecetated white to grey quariz vein throughout (10 - 15\%). Trace (ine grained pyrie in chlorite stips. This section may include very fine grained, yellow-green sericitic mudstone with sharp, tight sericite + chlorite domaries. 6357 104.00 100.00 123.55 GREYMCKE Massive, moderately well sorted, grey-green in colour and cut by <= 1% late, harren white quariz veni	VAL DESCRIPTION SAMPLE TO No. FROM TO Length % Rec DESCRIPTION No. FROM TO Length % Rec DESCRIPTION 81.00 - 81.50 Bleached scricitic zone; leading edge is tight sericit e chlorite sing fradational; lower contact marked by strong, 1.4 m wide fault zone; sericit modulu; lower contact is gradational; lower contact marked by strong, 1.4 m wide fault zone; 6347 81.00 81.00 80.00 1.00 Massive Lapilit Tuff - minor bleaching 6348 83.00 84.00 85.00 1.00 Massive Lapilit Tuff - bleaching 6348 84.00 84.00 84.00 85.00 1.00 Massive Lapilit Tuff 103.75 FAULT ZONE Feult zone (57* tes: sericite + chlorite + quartz schist; strongly sheared to brecenated fault zone comprised of 80.7 massive to brecenated white to greg quartz veins throughout (10 - 15%). Trace fine grained, yellow-green sericitic mudstone with sharp, ight sericite + chlorite greg green in coloury and the bit of greg grand, yellow-green sericitic mudstone with sharp, ight sericite for thorize ding, and contains 1 - 2% scattered, angular, aphanitic om minde grand, yellow-green sericitic mudstone with sharp, ight sericite for thorize ding, and contains 1 - 2% scattered, angular, aphanitic om minde grave yells of reveake (57% were freqaration, und contains 1 - 2% scattered, angular, aphanitic onto se	VAL DESCRIPTION SAMPLE TO No. FROM TO Length % Rec DESCRIPTION Au, pr No. FROM TO Length % Rec DESCRIPTION Au, pr 81.00 - 81.50 Bleached scrictlic zone: leading edge is tight sericite + chlorite slip (n 57* tax; section is yellow-green in colour, massive to moderately is gradational; lower contact marked by strong, 1.4 m wide fault zone. 6345 81.00 81.00 10.0 Massive Lapiliti Tuff - minor Massive lapiliti Tuff - minor bleaching 0.02 6348 83.00 84.00 1.00 Massive Lapiliti Tuff - minor Massive lapiliti Tuff 0.02 6348 83.00 85.00 10.0 Massive lapiliti Tuff 0.02 6348 83.00 85.00 10.0 Massive lapiliti Tuff 0.01 6351 99.00 100.00 10.00 Massive coarse Lapiliti Tuff nit 103.75 FAULT ZONE Fault zone (# 57* tax: serticite + chlorite + quartz schsit; strongly sheared to brecented fault zone of 80% massive schictic (grelow-green colour) plus it the chlorite scripts to 15* chlorite breching fault zone of 80% massive schictic gregowacke 0.01 103.75

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HOLE: AK-90-02

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INTER	VAL	DESCRIPTION					SAN	IPLE		ASSAYS
FROM	то		No.	FROM	то	Longth	% Rec	DESCRIPTION	Au, g/t	Au,Check Au [*] M
		108.42 - 108.45 Fault @ 35° tca: 1 - 2 cm chlorite + sericite slip with white- greyish quartz veinlets 108.52; wispy pyritic band 1 mm wide in sericitic Graywacke.	6361 6362 6363	108.00 108.60 109.10	108.60 109.10 110.00	0.60 0.50 0.90		Scricitic Greywacke with faulting and Pyrite @ 108.50 Greywacke with mudstone clasts Massive Greywacke, spotty sericite	0.05 0.01 0.02	
	123.55	Е.О.Н.					·			
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**HOLE: AK-90-03

71.50 - 72.00, 75.80 - 76.60

PROPERTY Amalgamated Kirkland DATE LOGGED October 23-24 1990 EASTING 8400.00 DEPTH AZIMUTH DIP LOGGED BY Mark Masson NORTHING 10185.00 TOWNSHIP Teck SIGNED BY ELEVATION 341 45 Williath & Sherwood Collar CLAIM No. L 491633 DRILLED BY LENGTH 129.50 35.00 43 STARTED October 21, 1990 SURVEYED BY UNITS metres 65.50 COMPLETED October 22, 1990 42 **CORE LOCATION** K.L. Warchouse CORE SIZE NQ 114.00 41 1 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

		SUMMA	RY LOG		1	ASSA	Y SUMMARY	?
INTE From	RVAL To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTER From	VAL To	LENOTH in metres	AVERAGE Au g/t
0.00 2.74 3.70 4.00 8.50 16.50 22.70 29.25 52.65	2.74 3.70 4.00 8.50 16.50 22.70 29.25 52.65 61.90	CASING LAPHLLI TUFF FAULT ZONE ASIL TUFF LAPHLLI TUFF ASIL TUFF SERICITIC ASH TUFF 22.50 - 29.25 Fault breecia @ 15° tca LAPHLLI TUFF Hematitic, foliated @ 52° tca 33.40 - 33.45 Fault @ 22° tca 35.97 - 36.45 Fault @ 22° tca 35.97 - 36.45 Fault @ 20° tca 41.25 - 41.35 Fault @ 30° tca 43.00 - 43.16 Sericite Zone @ 10° tca LITHIC TUFF / LAPHLLI TUFF 61.90 Fault @ 55° tca	71.50 72.00 72.00 75.80 75.80 76.60 76.60 77.35 77.35 77.50 77.50 89.00 89.00 99.50 99.50 109.60	PYRITE QUARTZ BRECCIA 3 - 5 % pyrite , 50 % Quartz SYENITE PYRITE QUARTZ BRECCIA 1 % pyrite SYENITE FAULT BRECCIA @ 44° tca HEMATITIC LAPILLI TUFF ASII TUFF 99.35 - 99.50 Fault @ 25° tca 54.10 - 56.90 Fault @ 25° tca LAPILLI TUFF 101.05 - 101.70 Fault @ 18° tca 102.20 - 102.60 Fault @ 55° tca 105.90 - 106.10 Fault @ 25° tca SEDICTEC 1 A DELT TUFF	65.60 71.40 74.10 75.80	66.10 76.60 72.10 76.60	0.50 5.20 0.70 0.80	0.83 0.62 2.135 0.965
65.75 65.90	65.90 71.50	62.40 - 62.60 Fault (a 40° tea PYRITE / QUARTZ BRECCIA - 3-5 % pyrite SERICITIC TUFF	120.85 122.00 122.00 129.50 129.50	MUDSTONE SERICITIC LAPILLI TUFF E.O.H.				

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INTER	VAL	DESCRIPTION					SAM	IPLE		ASSAYS	
FROM	ТО		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/l	Au,Check	Au*M
0.00	2.74	CASING									
2.74	4.00	LAPILLI TUFF - HETEROLITHIC Weakly to moderately well foliated ($(a 45^{\circ} tca)$, poorly sorted, heterolithic lapilli tuff; clasts are angular to moderately well rounded and range from 1 mm to 3 cm in size (avg. $0.5 \cdot 1$ cm) and comprise $20 \cdot 25\%$ of unit; clast lithologies are extremely variable from dark green very fine grained to yellowish-green mudstone to porphyritic red-brown trachyte; matrix (75%) is comprised of very fine grained ash and lithic fragments and is weakly sericitized with 1 - 2% wispy sericite alteration throughout; non-magnetic									
		3.70 - 4.00 Fault zone; rubbly core (approximately 50 - 60% recovery); sericite + chlorite + quartz breccia; angular white quartz fragments up to 1 cm in a sericite + chlorite groundmass.									
4.00	8.52	ASH TUFF Massive, fine grained, moderately well bedded $(@ 35^{\circ})$ tca; unit varies in colour from buff to grey-brown to mauve and contains narrow (1 - 10 cm) lithic beds comprised of fine, angular, red trachytic clasts (1 - 2 mm in size), intercalated with very fine grained ash tuff; unit displays patchy, strong magnetics.									
8.52	16.50	8.50 - 8.52 Fault @ 80° tca: tight 1 cm sericite + chlorite slip at contact. LAPILLI TUFF - HETEROLITHIC LAPILLI TUFF Massive, dark grey-green, poorly sorted, matrix supported lapilli tuff; framework averages 20 - 25% of unit and consists of angular to well rounded clasts from $1 - 2$ mm to 5 cm (avg. 1 cm) of numerous lithology types and colours, buff-brown fine grained to pinkish-red trachyte to dark green, very fine grained mafic (?) clasts; matrix is very fine grained mass of rock fragments + feldspar + chlorite.									

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INTE	RVAL		DESCRIPTION					SAM	1 PLE		ASSAYS
FROM	то			No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au,Check Au*h
		*NOTE: This bods but seem Unit is also ini tuffs up to 1 m	unit is in part intercalated with narrow, jasperoidal conglomerate to have little or no quartz associated with them (up to 1 m wide), ercalated with moderately well bedded (@ 17° tca) fine grained ash wide (avg. 25 cm); contacts are gradational with coarse lapilli tuffs.				·				
		13.65 - 13.80	Quartz + ankerite vein @ 18° tca: dirty, fractured quartz + ankerite vein 2 cm wide with sharp chloritic slip boundaries.								
16.50	22.70	ASH TUFF Massive, fine g bedding; undet lapilli tuff hori contains, narre display very gra	rained dark green to grey in colour, well sorted with poorly developed ormed, unaltered; unit is in part intercalated with coarse, heterolithic zons up to 0.5 metres wide with very gradational contacts; unit also w, up to 25 cm wide, jasperoidal conglomerate interbeds which also idational contacts; moderately magnetic throughout.			,					
		19.20 - 19.30	Quartz + ankerite vein: 7 cm wide milk white quartz + ankerite vein; upper contact is sharp sericitic shear $(2 - 3 \text{ mm}) \oplus 90^\circ$ tea; lower contact is irregular with some brecciation of quartz evident; lower contact of unit is arbitrary leading to altered, bleached tuffs but appears to be marked by a tight, scricitic slip @ 22.7 m.	6364	19.00	19.50	0.50		Quartz ankerite vein in Ash Tuff	0.01	
		22.70	Fault ($y = 22^{\circ}$: strong, tight muddy break $1 - 2$ mm wide with chlorite + scricite gouge and ankerite alteration of wall rock up to 0.5 cm symmetrically about fault.	6365	22.50	23.50	1.00		Massive Ash Tuff - tight mud fault	nil	
22.70	27.50	BLEACHED A Light grey to be time grained wi 1% late quart	SH TUFF off-brown coloured bleached tuffs; unit is massive, non-magnetic, very th 5% wispy and spotty sericite alteration throughout; unit is cut by t + chlorite veinlets (<= 1 mm wide) which display symmetrical	6366 6367 6368	23.50	24.50 25.50 26.50	1.00 1.00			nit nil	
L		197 late quart	c + chlorite veinleix (< = 1 mm wide) which display symmetrical	6.368	25.50	26.50	1.00			nit	

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INTER	VAL	DESCRIPTION	1		•		SAM	IPLE		274224	
FROM	TO		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au,Check	Au*M
		sericitic alteration (bleaching) around margins up to 0.5 cm wide.; lower contac marked by strong wide fault breecia.	6369	26.50	27.50	1.00			nil		
27.50	29.25	FAULT BRECCIA Very strong muddy fault breecia with upper contact @ 15° tca; unit is ver recognizable with distinct red-purple-yellow colouration due to a very fine graine hematized groundmass with wispy sericite; zone displays strong cataclastic textur comprised of angular bright red clasts of hematiite (very fine grained) up to 1 cr (avg. 0.5 cm) and what appear to be narrow disrupted hematilic beds 1 mm wide an up to 3 · 4 cm long; groundmass is comprised of fine grained dark green chlorite - hematite, 30% sericite); fault breecia grades into strongly foliated, altered hematize heterolithic lapilli tuff.	6370 6371	27.50 28.50	28,50 29.25	1.00 0.75		Hematitic Fault Breccia Hematitic Fault Breccia	nil U.O2	0.01	
29.25	52.65	LAPILLI TUFF Hematized, heterolithic, coarse lapilli tuff.			I						
		29.25 - 31.50 Unit is highly deformed and well foliated @ 52° tca and consists of 50% heterolithic clasts of multi-coloured and textured trachyti rocks which are angular to sub-rounded with prominent stretchin	6372 6373	29.25 30.10	30.10 31.00	0.85 0.90		Foliated Hematized Lapilli Tuff Hematized Lapilli Tuff, 3 cm quartz	0.02 nil		
i	•	parallel to toliation (1.2 mm - 7 cm in size); matrix is grey to greer fine grained, sericitized and deformed rock fragments an constitutes 50% of unit; pervasive hematite alteration.	6374	31.00	31.50	0.50		Foliated Lapilli Tuff	0.01		
		is cut by 2 - 3% narrow (1 - 3 mm) quartz, quartz + chlorite an	6376	32.00	33.00	1.00			0.01	0.02	
		quarty + hematite veinlets. 33.40 - 33.45 Fault (@ 22° tea: strong tight (2 mm) mud gouge with late quart	6377	33.00	33.50	0.50		Foliated Lapilli Tuff - mud break	0.02		
		(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		

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INTER	VAL	DESCRIPTION					SAN	IPLE		ASSAYS
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/l	Au,Check Au [•] M
		35.97 - 36.45 Fault zone (a 70° tea: sericite + quartz + ankerite; strongly foliated to sheared rusty weathered fault zone with 4 cm breeciated	6381	35.90	36.50	0.60		Sericite + Quartz + Ankerite Fault	0.01	
		quartz vein (4.36.0 m; sharp sericitic boundaries with minor muddy fault genee	6382	36.50	37.00	0.50		Foliated Lapilli Tuff	0.01	
	Í	$41.25 - 41.35$ Fault (0.30° (car service \pm quarter 3 cm milk white to mink	6.18.1	37.00	38.00	1.00		Hematized coarse Lapilli Tuff	0.02	
		massive quartz ven with sharn sericite clip boundaries	6384	38.00	.59.00	1.00			0.03	
		43.00 - 43.16 Sericite + chlorite + quartz (q 10° tea: irregular mass of sericite	6386	40.00	40.00	1.00			0.02	
		+ pseudo-brecciated wall rock within a fractured quartz + chlorite	6387	41.00	41.50	0.50		Quarte + Sericite fault zone	0.02	
		vein; lower contact of unit is faulted with tight sericitic slip and	6388	41.50	42.00	0.50		Massive hematized Lapilli Tuff	0.03	
		moderate to strong scricite alteration of wall rock.	6389	42.00	43.00	1:00			0.03	
	1		6390	43.00	44.00	1.00			0.05	0.07
			6391	44.00	45.00	1.00			0.02	
i			6392	45.00	46.00	1.00			0.02	
			6393	46.00	47.00	1.00			0.02	
			6305	- 47.00 · . - 49.00		1.00			0.01	
			6396	40.00 49 (ii)	49.00	1.00			0.02	
			6397	50.00	51.00	1.00			0.02	
			6348	51.00	57 (11)	1.00	•		0.02	
			6399	52.00	52.65	0.65			(101	0.03
					,	0.00			0.05	0.05
52.65	61.90	LITHIC TUFF / LAPILLI TUFF								
		Zone of intercalated lithic and lapilli tulls; unit is massive, undeformed light brown to green, non-bedded and non-magnetic, unit is typically fine-medium grained lithic	6400	52.65	53.00	0.35		Foliated sericitic Lithic Tuff @ fault contact	0. 02	
		full comprised of 80% very fine grained matrix with 20% angular buff-brown lithic	6401	53.00	54,00	1.00			0.01	
		fragments, 1 - 3 mm in size; moderately well sorted; section is intercalated	6402	54.00	55.00	1.00		· · · · · · · · · · · · · · · · · · ·	0.01	
		(gradational contacts) with clast-rich (25 + 30%) lapilli tuffs with sub-rounded clasts	6403	\$5.00	56.00	1.00			0.01	
		5% outple brown fine grained trachyle; 20% grey-green trachyle;	6404	\$6.00	57.00	1.00			0.02	
		a si purpre-orown nine grainea tracnyte.	6405	57.00	58.00	1.00			0.01	
			0406	58.00	59.00	1.00			0.02	
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INTER	VAL	DESCRIPTION					SAN		<u> </u>	ACCANC
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au #/1	ASSA 15
		61.9 Fault (a. 55° tca: tight (1 mm) chlorite slip with <<0.5% pyrite + chalcopyrite.	6407 6408 6409	59.00 60.00 61.00	60.00 61.00 61.90	1.00 1.00 0.90			0.02 0.02 0.03	
61.90	65.75	BLEACHED TUFFS - LAPILLI TUFF Massive fine to medium grained lithic - and lapilli - tuff with characteristic spotted, porphyritic lexture; 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° tca: sericite + chlorite + ankerite; rusty weathered, brecciated and sericitized wall rock fragments in a highly altered sericite + chlorite + ankerite groundmass.	6411 6412 6413 6414 6415	62.40 62.90 63.50 64.00 65.00	62.90 63.50 64.00 65.00 65.60	0.50 0.60 0.50 1.00 0.60		Scricite + chlorite + ankerite Fault Breccia Altered, bleached sericitic Tuff	0.01 0.02 0.01 0.02 0.01	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 \pm molybdenite slips (<i>i</i> 62° tca; 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	66.1 0	0.50		Pyrite zone = 3 - 5% pyrite in sericite + quartz breccia	0.70	0.96

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INTER	VAL	1	DESCRIPTION			•••	IPI F.		ASSAVS		
FROM	то			No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/l	Au,Check Au*M
65.90	71.50	BLEACHED T Massive, perva groundmass wi cm; unit disp subhedral to a grained, sericit	UFFS sively sericitized, lapilli tuff with characteristic yellow-green to huff th 10 - 15% coarse, angular to sub-rounded altered clasts up to 5 - 7 lays spotted porphyritic, pseudo-porphyritic texture with black inhedral, chloritized \pm hematized crystals (5 - 25%) in a very fine ic groundmass.	6417 6418 6419 6420 6421 6422	66.10 67.00 68.00 69.00 70.00 71.00	67.00 68.00 69.00 70.00 71.00 71.40	0.90 1.00 1.00 1.00 1.00 0.40		Sericitized Lapilli Tuff	0.03 0.02 0.01 0.02 0.01 0.02	
71.50	72.00	PYRITE - QU/ Zone is grey in very fine graind 3 - 5% pyrite); + pyrite stip (a for 1 - 2 cm ou quartz + pyrite	MRTZ BRECCIA ZONE 1 colour with 10 - 15% brecciated quartz fragments up to 0.5 cm in a 1 colour with 10 - 15% brecciated quartz fragments up to 0.5 cm in a 1 cd sericite + quartz + pyrite groundmass (50% quartz, 45% sericite, 1 leading contact marked by very tight ($\leq = 1 \text{ mm}$) chlorite + quartz 65° tca; very minor ($< 0.5\%$) disseminated pyrite occurs in wall rock tside of this slip plane; lower contact also marked by tight chlorite + 2 slip @ 60° tca.	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	6424	72.10	73.00	0.90		Scricitized Syenite ?	0.31	
			phenocrysts (0.5 - 1 mm) in a fine grained sericitic groundmass; upper contact is obscured by pervasive sericite alteration; unit is cut	6425	73.00	74.00	1.00		Sericitized Syenite with 5% quartz veins and < 0.5 % pyrite	0.31	
			by $(1 - 2^{r_0})$ narrow quartz + chlorite veinlets up to 0.5 cm wide @ 40° and 80° tea; unit contains 0.5% disseminated fine pyrite and	6426	74.00	74.60	0.60		Sericitic Syenite with < 0.5%	0.53	
			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 phenoerosis.	6427	74.60	75.10	0.50		Red weakly altered Syenite	0.10	
		75.80 - 76.60	Fault zone: sericite + quartz ± pyrite.	6428	75.10	75.80	0.70		Red massive Syenite	0.02	

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INTER	VAL	DESCRIPTION	1	,	•••••••••••••••••••••••••••••••••••••••		SAN	(PLE		274224	
FROM	TO		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au,Check Au*M	-
		 75.80 - 76.20 Sharp upper contact marked by sericite + chlorite + quartz vein (e-22*) tea (1 cm wide) within highly sericitic, sheared to brecciated host rock (?); lower contact is rubbly but also appears to be marked by 1 - 2 cm quartz breccia vein with 1 - 2% disseminated pyrite in wall rock. 	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 Yellow-green sericitic host rock (?) with 5% white-pink quartz veins and masses and 0.5 - 1% disseminated pyrite; lower contact is gradational with reddish-brown syenite. 77.35 - 77.50 Fault breecia: Fault breecia @ 44° tea: 6 - 7 cm wide quartz + sericite + chlorite fault with angular white to pink quartz clasts in a black, aphanitic groundmass of chlorite + sericite; marks lower boundary of syenite. 	6430 6431	76.60 77.35	77.35 77.85	0.75 0.50		Altered Lapilli Tuff with fault breecia	0.05 0.03		
77.50	89.00	BLFACHED LAPILLI TUFF Massive to weakly tohated, light grey to reddish-brown in colour where unit is hematized; framework constitutes 10 - 15% of the unit and consists of angular to sub-rounded clasts from 2 mm - 3 cm in size (avg. 1/2 - 1 cm) of buff-brown very fine grained trachyte and red-brown to green trachyte and mauve coloured hematized clasts; matrix is very fine grained, equigranular buff-brown to red in colour, quite hard and non-magnetic and maybe silicified; an average unit is cut by <1% late, narrow (1 - 3 mm) quartz veinlets.	6432 6433	77.85 78.50	78.50 79.50	0.65 1.00		Bleached, massive Lapilli Tuff	0.02 0.02		
		80.00 Fault @ 20° tca: chlorite + sericite + quartz; tight (1 mm) chlorite + sericite slip with 0.5 cm quartz vein on up hole side parallel to the slip and with 8 - 10 cm of quartz veinlets, pseudo-brecciating wall rock; moderate sericite alteration evident; unit grades to purplish (hematized) colour at approximately 83 m; lower contact marked by tight sericite + quartz slip @ 30° tca which displays 1 - 2 cm of symmetrical sericite alteration into wall rock adjacent to slip.	6434 6435 6436 6437 6438 6439 6440	79.50 80.10 81.00 82.00 83.00 84.00 85.00	80.10 81.00 82.00 83.00 84.00 85.00 86.00	0.60 0.90 1.00 1.00 1.00 1.00 1.00		Bleached Tuff with fault + quartz veins @ 80.0 m Massive Bleached Tuff	0.02 0.01 0.03 0.01 0.01 0.01 0.01	0.02	

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INTER	VAL		DESCRIPTION					SAM	IPLE		ASSAYS
FROM	то			No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/l	Au, Check Au*M
				6441 6442 6443 6444	86.00 87.00 88.00 88.50	87.00 88.00 88.50 89.10	1.00 1.00 0.50 0.60	<u></u>	Hematized Lapilli Tuff at contact with massive Ash Tuff	nil nil nil 0.03	
89.00	9 9.50	ASH TUFF Massive, non-be is weak to non-	edded fine grained to very fine grained, dark grey-green ash tuff; unit magnetic.								
		89.95 - 90.10	Mudstone; aphanitic, light green mudstone bed @ 25* tca cut by 5% barren quartz veinlets; unit is in part intercalated with narrow lapilli tuff beds up to 0.5 metres wide; bedding @ 40* tca; lower contact is faulted @ 25* tca.	6445 6446	89.10 89.90	89.90 90.50	0.80 0.60		Massive Ash Tuff Ash Tuff with 5% quartz veinlets	0.01 0.01	0.01
		90.00 - 92.50	unit is cut by 3 - 5% late white, multiphase, cross-cutting quartz veinlets (1 - 4 mm wide).	6447 6448 6449 6450	90.50 91.00 92.00 92.50	91.00 92.00 92.50 93.50	0.50 1.00 ().50 1.00		Ash Tuff with 3 - 5% quartz Massive Ash Tuff	nil nil 0.01 nil	
		99.35 - 99.50	Fault contact (1/25° tea: sericite + chlorite + quartz; 1 cm wide white to pink quartz vein centered on strong sericite slip.	6451 6452	98.00 99.00	99.00 99.60	1.00 0.60		Massive Ash Tuff Fault zone @ 99.35 - 99.50	0.01 0.01	
99.50	109.00	LAPILLI TUFF Unit is moderat matrix of fine rounded clasts t	• MONOLITHIC LAPILLI TUFF ely foliated @ 42° tea and consists of 85% dark grey-green chloritic grained ash supporting 15% light brown-green, angular to sub- up to 2 cm (avg. 1/2 - 1 cm); unit is moderately to strongly magnetic.	-							

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INTER	VAL	DESCRIPTION		-			SAM	IPLE		ASSAYS
FROM	то		No.	FROM	то	Longth	% Rec	DESCRIPTION	Au, g/1	Au,Check Au*M
		 99.50 - 100.15 Unit is foliated, sericitic and cut by 5 - 10% irregular, white-pink quartz masses and veinlets. 101.50 - 101.70 Fault Zone (i 18° tca: Sericite + Chlorite + Quartz; 4.5 cm buff to pink quartz vein with strong, ruddy sericitic walls from 101.05 to 101.50; 101.50 - 101.70 sericite schist; strongly foliated to schistose sericitic lamilit utff 	6453 6454 6455	99.60 100.20 101.00	100.20 101.00 101.80	0.60 0.80 0.80		Lapilli Tuff with 5 - 10% quartz masses and veinlets Massive Tuff Sericite + chlorite + quartz and sericite schist	0.01 0.01 nil	
		102.20 - 102.60 Fault zone (e 55° tca: sericite + chlorite + quartz.	6456	101.80	102.80	1.00		Fault zone - sericite + chlorite +	nil	
			6457	102.80	103.50	0.70		quartz	0.01	
		105.90 - 106.10 Fault breecta (ii) 22° tea: 1 cm wide quartz breecta with angular quartz fragments to 0.5 cm in a aphanitic, black chlorite + sericite groundmass.	6458	105.80	106.30	0.50		Quartz breccia zone	0.01	nil
109.00	109.60	FAULT ZONE Fault zone @ 25º tca: sericite + chlorite + quartz.								
		 109.00 - 109.25 2 - 3 cm buff-pink quartz and brecciated quartz with strong, muddy chloritic boundaries. 109.25 - 109.60 Strongly foliated and sericitized wall rock with 1 - 2% irregular quartz masses. 	6459	108.80	109.80	1.00		Fault zone with 2 cm brecciated quartz vein	nil	
109.60	129.50	BLEACHED LAPILLI TUFF Massive, red-brown to buff in colour with 2 - 5% angular, dark black chloritic clasts (avg. size 2 - 5 mm) and buff-grey aphanitic clasts in a fine grained sericitized matrix of altered feldspar & rock fragments; unit is non-magnetic.								
		120.85 - 122.00 Mudstone; aphanitic yellow-green to grey laminated mudstone bed with sharp, tight contacts @ 27° tca.								

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INTER	VAL	DESCRIPTION					SAM	IPLE	ASSAYS		
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/1	Au,Check Au*M	
	129.50	Е.О.Н.									
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HOLE: AK-90-04

PROPERTY Amalgamated Kirkland DATE LOGGED October 25 1990 EASTING 8370.00 DEPTH AZIMUTH DIP LOGGED BY Mark Masson NORTHING 10160.00 TOWNSHIP Heath & Sherwood Teck SIGNED BY ELEVATION 341 45 Collar L 491633 CLAIM No. DRILLED BY LENGTH 125.85 38.00 45 October 22, 1990 STARTED SURVEYED BY UNITS metres 76.00 42 COMPLETED October 23, 1990 CORE LOCATION K.L. Warehouse **CORE SIZE** NQ 114.00 39 PURPOSE To test 102-8250 Gold Zone COMMENTS Alteration Zone. 95.10 - 104.30 , 9.2 m

	SUMMA	RY LOG		ASSA	Y SUMMARY	r
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 4.87 4.87 16.85 16.85 39.55 39.55 81.25	CASING ASH TUFF LITHIC TUFF ASH TUFF 61.85 - 62.55 Sericitic Graywacke 1% pyrite 64.50 - 64.85 Fault @ 50° tca 67.95 - 69.30 Sericitic 79.60 - 80.10 Fault @ 55° tca	104.30 111.83 111.83 125.85 125.85	100.10 dislocated 2 cm quartz vein with 7% pyrite LITHIC TUFF / LAPILLI TUFF 108.65 - 108.68 Fault Breccia @ 47° tca LAPILLI TUFF E.O.H.	100.00 100.50	0.50	4.71
81.25 94.20 94.20 95.10 95.10 99.20 99.20 104.30	GRAYWACKE / CONGLOMERATE Sericitic 88.05 - 88.03 Fault @ 37° tca FAULT ZONE Sericitic 94.20 Mud Gouge @ 40° tca 94.40 - 95.10 Schistose, 1 - 2 mm hematitic veinlets 20% quartz veinlets SERICITIC TUFF 5 % quartz chlorite veins ALTERED LAPILLI TUFF Sericitic, "peppered texture"				-	

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INTER	VAL	DESCRIPTION					SAM	IPLE		ASSAYS
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au,Check Au*M
0.00	4.87	CASING				.				
4.87	16.85	ASII 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° tea, and displays pervasive wispy, sericite alteration throughout; contacts are tight chlorite + sericite + quartz ± ankerite slips @ $35 - 45^{\circ}$ tea.		1	191					
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 (a 10° tea in a massive fine grained ash-lithic tuff with spotty leucoxene alteration.	6460	29.90	30.40	0.50		Sericitized Tuff	nit	



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INTER	VAL	DESCRIPTION	Ι				C A L		400 41/0
FROM	ТО		No.	FROM	то	Length	SAN % Rec	DESCRIPTION	ASSAYS
		30.66 - 30.8015 cm buff-brown to white brecciated sericite + quartz vein.37.44 - 37.45Fault @ 14° tca; chlorite + quartz; tight (1 mm) chloritic slip with 0.5 cm, buff to pink quartz veinlet.	6461	30.40	31.00	0.60		Sericitized Tuff with quartz vein	nil
ï	•	 39.15 - 39.30 39.30 - 39.55 39.30 - 39.55 Bleached, light green sericitized tuff with 5% white quartz masses and veinlets. 	6462	39.00	39.60	0.60		Quartz breccia vein and sericitized tuffs	nil
39.55	61.85	ASH TUFF Massive to well bedded dark grey to green, very fine grained ash tuff; unit displays sporadic zones of cross-bedding with narrow $(1 - 3 \text{ mm})$ very fine magnetite beds @ $10 - 35^\circ$ 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.					·		
		 57.97 - 52.00 Fault @ 45° tca: tight (1 mm) chlorite + sericite slip with 1.5 cm buff-brown to pink quartz vcin. 57.20 - 57.50 Quartz Breccia Vcin; very irregular buff to white to pinkish coloured, brecciated quartz vein with fragments up to 2 cm in a fine grained sericite + chlorite matrix; contacts are sharp but irregular. 	6463	57.10	57.60	0.50		Quartz breccia vein with sericitized groundmass	0.01
61.85	62.55	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 @ $10 - 15^\circ$ tca.	6464	61.80	62.60	0.80		Graywacke bed with 0.5 - 1% disseminated pyrite	0.02
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INTER	VAL.		DESCRIPTION		- - -		' x	SAN			274224
FROM	то	L L		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au.Check Au*M
62.55	67.95	ASH TUFF Massive to well sporadic zones c 10 - 35° tca; uni beds which typic (up to 25 cm) w	bedded dark grey to green, very fine grained ash tuff; unit displays of cross-bedding with narrow (1 - 3 mm) very fine magnetite beds @ it is intercalated with narrow (up to 0.5 metres) lithic and lapilli tuff cally display gradational contacts, and minor conglomerate interbeds which also have arguational contacts.			· .	2				
		63.40 - 63.60 64.50 - 64.85	Fault (a_2 27° tca: sericite + chlorite ± quartz; strong, tight (1 - 2 mm) sericite slip (a_2 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. Eault (a_2 50° tca: sericite + chlorite + chlorite + calcite	6465 6466 6467	62.60 63.20 63.70	63.20 63.70 64.40	0.60 0.50 0.70		Patchy sericite, altered Ash Tuff Fault zone @ 63.40 m Massive, weakly scricitic Ash Tuff	nil 0.01 0.01	0.02
		64.50 - 64.53 64.53 - 64.70 64.70 - 64.85	Fault (f_{1} so that sericite + choine + quartz ± calcule. Tight chlorite + sericite slip with 3 cm wide pseudo-brecciated buff- white quartz vein with wispy sericite. Well foliated, scricitized tuff. 15 cm irregular quartz mass with cross-cutting ladder type quartz veinlets (<= 1 mm) in a fine grained sericitic tuff.	6468 6469 6470 6471	64.40 65.00 66.00 67.00	65.00 66.00 67.00 67.90	0.60 1.00 1.00 0.90		Fault zone with 25 - 30% quartz veining and masses Massive Ash Tuff - weak sericite Ash Tuff with 5% sericite + quartz Massive Ash Tuff	0.01 0.01 0.03 0.01	
67.95	70.01	LITHIC TUFF									
		67.95 - 69.30 69.30 - 70.10.	Bleached (sericitized) pale yellow-green coloured tuff with 1 - 2% dark green, altered lithic fragments; upper contact is abrupt, lower contact very gradational.	6472 6473	67.90 68.50	68.50 69.50	0.60		Bleached sericitized Lithic Tuff Massive Lithic Tuff	0.01 0.01	
		0200 - 10.10	20% angular, heterolithic clasts 1 - 4 mm in size weakly aligned (a) 10 - 15° tca in a very fine grained light green ash matrix; lower contact gradational with ash tuffs.	14	07.20	70.10	0.00			0.02	

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INTER	VAL	DESCRIPTION	· · · · ·			<u></u>	SAM	IPLE	· · · · · · · · · · · · · · · · · · ·	ASSAYS	
FROM	то		No.	FROM	то	Longth	% Rec	DESCRIPTION	Au, g/t	Au,Check	Au*M
70.01	79.60	ASII 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.	6475	79.00	79.50	0.50		Massive, weakly sericitic Tuff	0.01	0.02	
79.60	81.25	REMATIZED ASH TUFF									
		 79.60 - 80.10 Fault zone; sericite + chlorite + quartz + hematite; very sharp, tight (1 mm) chlorite slip @ 55 ° ica 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 breeciated masses up to 2 - 3 cm wide; lower contact is tight chlorite + quartz slip @ 40° tca. 	6476 6477 6478	79.50 80.10 80.90	80.10 80.90 81.40	0.60 0.80 0.50		Hematized Tuff with 3% quartz veining and tight chloritic slips Hematized Tuff with 1% quartz Hematized Tuff + Graywacke	0.02 0.02 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. 83.85 Fault @ 32° tca; tight chlorite + sericite slip with 0.5 cm quartz vein on south wall. 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. 	6479 6480 6481 6482 6483 6483 6484	81.40 82.10 83.00 84.00 85.00 85.50 86.00	82.10 83.00 84.00 85.00 85.50 86.00 87.00	0.70 0.90 1.00 1.00 0.50 0.50 1.00		Massive weakly sericitic Graywacke Hematized Tuff and Graywacke Hematized Tuff with vuggy quartz vein	0.02 0.02 0.02 0.02 0.01 0.01 0.02	0.01	

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INTER	RVAL	DESCRIPTION					SAN				
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au 07	AUCheck Aut	 M
		88.05 - 88.30 Fault @ 37° tca: sericite + chlorite + quartz; highly foliated t sheared sericite schist with 50% white-pink fractured, pseudo brecciated quartz veining; contacts are sharp sericite + chlorit slips.	6486 6487 - c 6488	87.00 88.00 88.50	88.00 88.50 89.00	1.00 0.50 0.50		Fault zone with 50% barren quartz Massive sericitized and hematitic Graywacke, interbedded Ash Tuff	0.03 0.03 0.01		<u> </u>
94.20	99.20	FAULT - MYLONITE ZONE	6489 6490 6491 6492 6493	89.00 90.00 91.00 92.00 93.00	90.00 91.00 92.00 93.00 94.00	1.00 1.00 1.00 1.00 1.00			0.01 0.01 0.01 0.01 0.01		
		 94.20 - 94.40 Mud break; strong, ruddy sericite + chlorite break with we developed mud gouge at 40° tca. 94.40 - 95.10 Sericite + chlorite + quartz schist with narrow (1 - 2 mm disrupted hematite bands and 20% massive to brecciated; white-pin quartz veins up to 1 cm wide. 95.10 - 99.20 Highly deformed, sericitized conglomerates with cataclastic textur and cut by 5% quartz + chlorite and quartz breccia veins up to cm wide. 	1 6494) 6495 k 6496 6497 e 6498 I 6499	94.00 94.50 95.10 96.10 97.10 98.10	94.50 95.10 96.10 97.10 98.10 99.20	0.50 1.00 1.00 1.00 1.00 1.10		Fault zone - strong mud break Sericite schist - 20% quartz Sheared, sericitic sediment Sheared cataclastic sediments	0.01 0.02 0.05 0.03 0.02 0.02		
99.20	104.30	ALTERED LAPILLI TUFF - MONOLITHIC LAPILLI TUFF Unit displays characteristic spotty pseudo-porphyritic texture comprised of 10 - 2 % angular, dark grey to black (porphyritic?) medium grained clasts from 1 - 2 mi to 2 - 3 cm (avg. 0.5 cm) in size in a fine grained yellow-brown altered (sericite? matrix; clast boundaries are often diffuse due to penetrative alteration of the matrix unit is fairly hard and non-magnetic.	D n) ;		•						

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INTER	VAL	DESCRIPTION		· · · · · · · · · · · · · · · · · · ·			SAN	IPLE		ASSAYS	
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/1	Au,Check	Au*M
		 100.10 Quartz + pyrite vein; 1 - 2 cm grey-white brecciated quartz vein with quartz fragments 1 - 3 mm in size and 5 - 7% finely disseminated pyrite; vein wall is marked by 1 mm wide semi-massive pyritic margin with 25% subhedral pyrite; vein is dislocated and cut off by two cross-cutting, tight (1 - 2 mm) sericite slips @ 65° and 30° tca; blue-grey hue on slips may be due to molybdenite. 	6500 6501 6502 6503 6504 6505	99.20 100.00 100.50 101.00 102.00 103.00	100.00 100.50 101.00 102.00 103.00 104.00	0.80 0.50 0.50 1.00 1.00 1.00		Bleached, sericitized Lapilli Tuff Dislocated pyritic quartz breccia vein, 1 - 2 cm wide Bleached Lapilli Tuff	0.09 5.04 0.04 0.04 0.02 0.02	4.37	
104.30	111.85	 LITHIC TUFF / LAPILLI TUFF Massive fine grained, dark grey-green to purple where hematitic; unit is predominantly fine grained lithic tuff with intercalated, heterolithic lapilli tuff beds which generally have gradational contacts and are less than 0.5 metres wide; units display patchy strong magnetics. 107.00 - 108.70 Unit is cut by 5% quartz + chlorite veinlets up to 4 mm wide @ 45 50° tca and spaced from 1 cm to 50 cm apart; moderate sericite alteration halos around veins. 108.65 - 108.68 Fault Breccia @ 47° tca : buff-brown to white to pink brecciated quartz in a fine grained chloritic matrix; tight, sharp chlorite + sericite margins. 	6506 6507 6508 6509 6510 6511	104.00 105.00 106.00 107.00 108.00 108.70	105.00 106.00 107.00 108.00 108.70 109.70	1.00 1.00 1.00 1.00 1.00		Lithic Tuff with 5% quartz vcinlets Lithic Tuff with 3% quartz veins Massive Tuff	0.03 0.01 0.02 0.03 0.02 0.02		
111.85	125.85	LAPILLI TUFF Coarse heterolithic; unit is massive dark green to red-brown matrix with 10 - 20%- angular to sub-rounded clasts up to 4 cm (avg. 1 - 1.5 cm); clasts vary from red- brown porphyritic trachyte, to red aphanitic lithics and dark green, fine grained lithics; matrix is fine grained, chloritic ash, lithic tuff; unit is moderately to strongly magnetic; unit is very recognizable due to its dark green to purple matrix and predominantly red-brown porphyritic clasts which comprise 75 % of total clast population.			• .						



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BATTLE MOUNTAIN (CANADA) INC. DIAMOND DRILL LOG

HOLE: AK-90-04

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INTER	VAL	DESCRIPTION					SAMPL	LE		ASSAYS	
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/1	Au,Check	Au*M
						_					
	125.85	E.O.H.									
	F										

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HOLE: AK-90-05

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		LOGGED BY	Mark Masson	NORTHING	10175.00	DEPTH	AZIMUTH	DIP
TOWNSHIP CLAIM No. STARTED COMPLETED	Teck L 491633 October 24, 1990 October 25, 1990	SIGNED BY DRILLED BY SURVEYED BY CORE LOCATION	Heath & Sherwood K.L. Warehouse	ELEVATION LENGTH UNITS CORE SIZE	121.55 metres NQ	Collar 38.00 84.00	341	45 44 42
PURPOSE COMMENTS	To test 102 - 8425 Zone Alteration Zone 57.50 - 79.95, 22.45m (Weak). Quartz Pyrite Zone 58.20 - 62.35, 4.15m					114.00		4]

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

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INTER	VAL		DESCRIPTION				· · · · · · · · · · · · · · · · · · ·	SAM	(PLE		27 4 22 4	
FROM	TO			No.	FROM	то	Length	% Rec	DESCRIPTION	An o/i	Au Check	Au*M
0.00	8.50	CASING								- N U, B/(Au, Click	AU'M
8.50	58.20	LAPILLI TUFI Coarse monoli is fine grained, constitutes 90 predominantly which range in sub-rounded; u	F thic lapilli tuff; unit is massive to weakly foliated @ 50° tca; matrix light gray-green to purple where hematitic (patchy throughout) and - 95% of unit; clasts comprise 5 - 10% of unit and consist of light buff-brown to grayish fine grained to porphyritic trachyte size from 2 - 3 mm to 5 cm (avg. 1 cm) and are generally angular to nit is strongly magnetic, unaltered, undeformed.			I						
		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.			i A N						
		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		
		56.00 - 56.05 57.50 - 58.20	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. 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.	6513 6514 6515 6516 6517	54.00 55.00 56.00 56.50 57.00	55.00 56.00 56.50 57.00 58.00	1.00 1.00 0.50 0.50 1.00		Massive Lapilli Tuff Fault zone @ 56.0 with 0.5m sericitic Tuffs Massive Lapilli Tuff - weak sericite	0.01 nii 0.01 0.01		
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INTER	VAL		DESCRIPTION					SAM	IPLE		ASSAYS
FROM	то			No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check Au*M
58.20	62.35	QUARTZ - PYI Altered + breck gradational con quartz veining a 10% pyrite and	RITE ZONE ciated lapilli tuff; zone is highly altered to brecciated lapilli tuff with tacts marked by notable increase in sericite alteration, pyrite content, and blue-gray (pyrite + molybdenite) diffuse alteration zones with 5 - d 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, bluc-gray sulphide mass (pyrite \pm 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 comented 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

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INTER	VAL		DESCRIPTION					SAM	IPLE		ASSAYS
FROM	то		· · · · · · · · · · · · · · · · · · ·	No.	FROM	то	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. 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. 		6523 6524 6525 6526	60.50 61.00 61.50 62.00	61.00 61.50 62.00 62.50	0.50 0.50 0.50 0.50			0.07 0.28 0.11 0.02	0.26
62.35	75.95	GRAYWACKE Massive to wea quartz, feldspar 5% pervasive s green mudstone also intercalate gradational con 63.55 - 63.95	 GRAYWACKE Massive to weakly foliated @ 50° tca; dark gray to green matrix comprised of uartz, feldspar and rock fragments in roughly equal proportions with approximately % pervasive sericite; unit contains 1 - 5% angular, very fine grained, light gray-reen mudstone clasts up to 3-4 cm in size, randomly distributed throughout; unit is lso intercalated with narrow (<= 0.5 metre) pebble-rich conglomerate beds with radational contacts; non-magnetic. 3.55 - 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. 		62.50 63.00	63.00 64.00	0.50 1.00		Massive Graywacke with mudstone clasts Massive Graywacke - weakly sericitic	0.02 0.07	

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INTER	VAL		DESCRIPTION					SAM	IPLE		ASSAYS	
FROM	то			No.	FROM	то	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 \pm 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		
				11039	09.00	/0.00	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		
				6530	75.00	75. 5 0	0.50		Graywacke	0.01		
		15.15 - 15.95	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?	6531	75.50	76.00	0.50		Contact zone - sericitized syenite?	0.01		

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INTER	VAL		DESCRIPTION					SAM	IPLE		ASSAYS	
FROM	то			No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au,Check	Au*M
75.95	7 9.90	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 6533 6534	76.00 77.00 78.00	77.00 78.00 79.00	1.00 1.00 1.00		Massive Syenite	0.01 0.01 0.01		
		79.00 - 79.90	Unit grades to yellow-green sericitized syenite with 10% black needle-like phenocrysts, $1 - 3 \text{ mm}$ in size, in a very fine grained light green matrix; lower contact is sharp and irregular, marked by $1 - 3 \text{ mm}$ wide sericite + chlorite \pm 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 g	rained, grey-green graywacke with minor intercalated conglomerate	6536	80.00	81.00	1.00		Sericitized Graywacke +	0.05		1
	1	mudstone clas	ts up to 5 cm in size, generally very angular, in a fine grained, raywacke matrix (quartz + rock fragments); unit also contains minor	6537	81.00	82.00	1.00		Graywacke with mudstone clasts and 0.5% disseminated pyrite	0.04		*
		angular fuchsit	lic (lime-green) clasts, generally less than 1 cm in size; matrix is	6538	82.00	83.00	1.00			0.15		
		pervasively series discerning ted r	icilized with up to 3 - 5% wispy sericite; unit also contains 0.5 - 1% write in matrix and also occasionally in mudstone clasts and a few	6539	83.00	84.00	1.00			0.03	0.15	
	1	cross-cutting q	uartz veinlets 1 - 5 mm in width @ 30 - 50° tca; unit is typically non-	6541	85.00	86.00	1.00			0.15	0.10	
		magnetic.		6543	87.00	88.00	1.00		Sericitic Graywacke with	0.06		
				6544	88.00	89.00	1.00		mudstone clasts + 0.5% pyrite	p.08	0.07	

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INTER	VAL	Į	DESCRIPTION					SAM	IPLE		ASSAYS
FROM	то			No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/1	Au, Check Au*M
		93.00 - 95.40	Laminated mudstone; very fine grained well laminated mudstone with slump textures and small scale microfaulting of bedding planes evident along with small scale "Z" folds; bedding is $<1 \cdot 2$ mm thick	6545 6546 6547 6548	89.00 93.00 94.00 95.00	90.00 94.00 95.00 96.00	1.00 1.00 1.00 1.00		Well laminated Mudstone	0.02 0.01 0.02 0.01	
			<i>u 5 -</i> 10 ⁻ 10a.	6550	96.00 106.00	97.00 107.00	1.00 1.00		Massive Graywacke Massive Graywacke with mudstone clasts + << 0.5% pyrite and cut by < 1% narrow	0.02 nil	
				6551 6552	107.00 108.00	108.00 109.00	1.00 1.00		quartz veiniets @ 50° ica	0.02 0.02	
				6553	115.00	116.00	1.00		Graywacke with < 0.5% quartz veinlets and very minor pyrite	0.02	0.03
				6554 6555 6556	116.00 117.00 117.50	117.00 117.50 118.00	1.00 0.50 0.50			0.03 0.03 0.02	~
	121.55	Е.О.Н.									
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HOLE: AK-90-06

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October 29 1990 EASTING 8340.00 PROPERTY Amalgamated Kirkland DATE LOGGED DEPTH AZIMUTH DIP ,Mark Masson NORTHING 10210.00 LOGGED BY TOWNSHIP Teck SIGNED BY ELEVATION Collar 341 45 Houth & Sherwood LENGTH CLAIM No. L 491663 DRILLED BY 71.80 44 42.00 UNITS metres STARTED October 26, 1990 SURVEYED BY K.L. Warehouse CORE SIZE NQ October 27, 1990 COMPLETED CORE LOCATION To test 102-8350 Gold Zone @ 25m PURPOSE depth, 10m west of AK-90-01 Alteration Zone 25.00 - 43.60, 18.6 m COMMENTS Quartz + Pyrite Zone 26.42-29.07, 2.65 m

	SUMMA	RY LOG				ASSA	Y SUMMARY	r
INTERVAL From To	DESCRIPTION	INTERV. From	AL To	DESCRIPTION	INTER From	VAL To	LENGTH in metres	AVERAGE Au g/t
0.00 3.00 3.00 10.10 10.10 25.00 25.00 26.4 26.42 29.0 29.07 30.0 30.00 32.9	CASING FAULT ZONE Foliation @ 45 - 50° tca 8.55 - 9.45 Sericite Schist @ 47° tca LAPILLI TUFF Altered, Hematitic 13.50 Fault @ 17° tca 17.00 - 17.90 Fault Breccia @ 30° tca, 10 % quartz chlorite veins 22.30 Fault gouge @ 35° tca ALTERED TUFF Sericitic, 0.5 % pyrite QUARTZ PYRITE ZONE Sericitic Tuffs with 3 - 5 % pyrite, 5% quartz breccia veins with 1 - 3 % pyrite ALTERED TUFF Sericitic, 0.5 - 1.0 % pyrite SYENITE	32.90	40.37 71.80 71.80	BLEACHED TUFF 5 - 10 % Sericitic 37.40 - 40.37 Quartz veining sub-parallel to core axis LAPILLI TUFF Coarse, monolithic 40.37 - 43.60 Weakly sericitic 43.60 Fault @ 60° tca 69.47 - 70.20 Fault Zone E.O.H.	26.00 26.40	30.00 which in 30.00	4.00 cludes the follov 3.60	7.64 ting 8.46 •

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INTER	VAL		DESCRIPTION					SAM	IPLE		ASSAYS	
FROM	то			No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/1	Au,Check	Au*M
0.00	3.00	CASING										
3.00	10.10	FAULT ZONE Strongly deform displaying varyi well developed foliation @ 45	med and altered conglomerates and intercalated ash tuff horizons ing degrees of deformation from pseudo-brecciated to brecciated with a cataclastic texture to sericite schist and mud gouge; prominent - 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 6558	3.00 4.00	4.00 5.00	1.00 1.00			nil 0.02		
		5.20 - 6.00	.20 - 6.00 Bleached, sericitized tuff (light green to white) with strong ankering shear @ 15 - 20° tca.				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 6561 6562	6.00 7.00 8.00	7.00 8.00 8.50	1.00 1.00 0.50			nil nil nil		٩.
		8.55 - 9.45	 8.55 - 9.45 Sericite schist; strongly deformed unit with semi-massive laminate sericite schist developed @ 47° tca; at 9.45 sharp mud break wit sericite + chlorite gouge. 				1.00			nil		
		9.45 - 10.10	Sericite + ankerite; rusty weathered, ankeritic zone with minor quartz veining ($< = 1\%$).	6564	9.5 0	10.50	1.00			0.03		
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INTER	VAL		DESCRIPTION					SAM	IPLE		ASSAYS
FROM	ТО			No.'	FROM	то	Length	% Rec	DESCRIPTION	Au, g/i	Au,Check Au [*] M
		22.30 Fault @ 35° tca; strong, tight (2 - 3 mm) mud break.		6578 6579 6580 6581	22.00 22.50 23.00 24.00	22.50 23.00 24.00 25.00	0.50 0.50 1.00 1.00	<u> </u>	Altered Lapilli Tuff with mud break @ 22.30 m Bleached Altered Tuff	nil nil níl 0.01	
25.00	30.00	QUARTZ - PY Light green to in matrix and c	QUARTZ - PYRITE ZONELight green to blue grey coloured sericitized tuffs with 3 - 5% disseminated pyritn matrix and containing 5% quartz breccia veins with 1 - 3% pyrite.25.00 - 26.42Light green to yellow altered tuff with pervasive sericite alteratio and up to 0.5% disseminated pyrite.		1	et i t	` `				
		25.00 - 26.42	Light green to yellow altered tuff with pervasive sericite alteration and up to 0.5% disseminated pyrite.	6582	25.00	26.00	1.00		Bleached Tuff with 0.5% disseminated pyrite	0.06	
		26.42	Contact marked by 3 mm wide sericite + ankerite + quartz slip @ 15° tca; up hole side of break is 3 - 4 cm of highly sericitized, altered tuff with 0.5 - 1% disseminated pyrite; down hole side of slip is quartz breccia vein system.	6583	26.00	26.40	0.40			0.23	~
		 26.42 - 26.85 Quartz breccia vein system. 26.42 - 26.85 Quartz breccia; fine grained, light green sericitized matrix with 1 - 3% disseminated pyrite transected by blue-grey to white quartz breccia and veinlets with 3 - 5% disseminated pyrite; at least three stages of quartz flooding are evident: 		6584	26.40	27.00	0.60	•	Quartz breccia zone with 3 - 5% pyrite and 1 speck of native gold	25.52	27.87
			 fine grained, blue-grey to white brecciated quartz + pyrite with angular quartz and wall rock clasts to 0.5 cm; two stages of later cross-cutting quartz veinlets 1 - 3 mm wide, one set @ 0 - 10° tca and one @ 70 - 90° tca; pyrite 								

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INTER	VAL		DESCRIPTION					SAN	IPLE		ASSAYS	
FROM	то			No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au,Check	Au*M
•		ł	also occurs along narrow (<=1 mm)irregular fracture planes which carry 5 - 10% finely disseminated pyrite.		· · ·	, . 4	<u>``</u>					
		26.60	0.01 by 1 mm smeared Native Gold grain along pyritic fracture plane.									
		26.85 - 27.60	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 (<		27.00	27.50	0.50		Sericitized Tuff with 3% pyrite and minor quartz	3.91	3.94	
			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?									
		27.60 - 28.75	Sericitized tuff with 2% quartz breccia veins and 1 - 3% disseminated pyrite in matrix.	658 6	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%	6587	28.00	28.50	0.50		Sericitized Tuff with 1% quartz, 1 - 3% pyrite	8.22	9.24	-
			pyrite; lower contact is sharp, blue-grey sericite + pyrite schist 2 - 3 mm wide, with brecciated quartz slip face @ 75° tca.	6588	28.50	29.10	0.60		Sericitized Tuff with 5% quartz, 2 - 3% pyrite	4.97	4.87	٩
		29.07 - 30.00	Light green massive sericitized tuff with $\leq =0.5 - 1\%$ disseminated pyrite in matrix and minor tight ($\leq =1$ 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	
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INTER	VAL	DESCRIPTION	<u> </u>	·····	· · ·		SAM	IPLE		274224
FROM	то		No.	FROM	ΤÒ	Length	% Rec	DESCRIPTION	Au, g/t	Au,Check Au [*] M
30.00	32.90	 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. 31.70 - 32.00 Unit contains 10% quartz stockwork veins in moderately sericitized syenite. 		30.00 31.00 31.50 32.00	31.00 31.50 32.00 33.00	1.00 0.50 0.50 1.00		Massive Syenite - minor quartz veinlets Quartz stockwork in sericitized syenite Massive Syenite + 10 cm sericitic altered wall rock	0.03 0.08 0.02 0.02	
32.90	40.37	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.	6594 6595 6596 6597	33.00 34.00 35.00 36.00	34.00 35.00 36.00 37.00	1.00 1.00 1.00 1.00		Bleached crystal Tuff at Syenite contact Bleached Lapilli Tuff	0.01 0.01 nil nil	

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INTER	VAL		DESCRIPTION					SAM	IPLE		ASSAYS
FROM	то			No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check Au*M
40.37	71.80	37.40 - 40.37 LAPILLI TUFF Coarse monolit	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) comented by black, chloritic groundmass; these veins are sub-parallel to core axis and contain minor, sporadic, subhedral pyrite.	6598 6599 6600 6601 6602	37.00 37.40 38.00 39.00 39.50	37.40 38.00 39.00 39.50 40.40	0.40 0.60 1.00 0.50 0.90		Bleached Tuff with multiphase quartz veins subparallel tca	0.02 nil nil 0.01 nil	
		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, $1 - 2 \text{ mm}$ quartz veinlets and irregular masses up to $1 - 2 \text{ cm}$; unit has distinct patchwork appearance.	6603 6604 6605	40.40 41.00 41.50	41.00 41.50 42.50	0.60 0.50 1.00		Coarse Lapilli Tuff with sericite alteration halos around quartz veinlets Sericitic altered Lapilli Tuff	níl nil 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 6608 6609	42.50 43.50 44.50 45.00	43.50 44.50 45.00 46.00	1.00 1.00 0.50 1.00		Massive Lapilli Tuff	nii nii 0.01 nii	nil
	71.80	69.47 - 70.20 E.O.H.	Fault @ 00 ⁻ (ca; strong tight 0.5 cm scrictle scrist with mud gouge. Fault Zone @ 60° tca: scricite + 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.	6 610	69.4 0	70.30	0.90		Fault breccia + mud gouge in strongly deformed Lapilli Tuff	nil	



- HOLE: AK-90-07

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PROPERTY	Amalgamated Kirkland	DATE LOGGED LOGGED BY	October 30 1990 Mark Masson	EASTING NORTHING	8250.00 10165.00	DEPTH	AZIMUTH	DIP
TOWNSHIP CLAIM No. STARTED COMPLETED PURPOSE	Teck L 491663 October 27, 1990 October 28, 1990 To test '102' structure between 8275 and 8170 zones	SIGNED BY DRILLED BY SURVEYED BY CORE LOCATION	Heath & Sherwood K.L. Warehouse	ELEVATION LENGTH UNITS CORE SIZE	108.20 metres NQ	Collar 38.00 80.00	341	45 43 42
COMMENTS	Quartz - chlorite vein zone: 80.50 - 85.15 m							

		SUMMA	RY LOG				ASSA	Y SUMMARY	7
INTE	RVAL	DESCRIPTION	INTER	VAL	DESCRIPTION	INTER	VAL	LENGTH	AVERAGE
From	То		From	То		From	То	in metres	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	70 55	00.60	78.15 • 78.55 Fault @ 37° tca	.	م المحلم الم	a tha following	
16 20	10.50	0.81 - 7.20 Fault @ 32° ICa	16.55	60.50	SO SO Fault gouge @ 528 tos	whic	n include	s the following	
19.50	25 50	CONGLOMERATE	80.50	85.15	OUARTZ CHLORITE BRECCIA ZONE	80.50	84.00	3.50	2.01
25.50	26.38	ASH TUFF			Sericitic Graywacke, 15% guartz, guartz + chlorite	00.00	0		-
26.38	29.70	LITHIC TUFF	ļ		and chlorite breccia veins, 0.5 - 1% pyrite	83.00	84.00	1.00	5.56
		29.25 Fault @ 43° tca	85.15	108.20	GRAYWACKE				
		29.60 - 29.70 Fault @ 30° tca			Weakly to moderately sericitic, 1% chlorite breccia				-
29.70	32.50	GRAYWACKE			veins				
32.50	34.85	FAULT ZONE @ 10 - 15° tca			101.60 - 101.62 Fault @ 40° tca				1. A.
34.85	71.9 0	ASH TUFF / LAPILLI TUFF			104.10 - 105.00 0.5% pyrite				
		Massive to well bedded @ 10° tca		100.20	FOU				1
		57.34 Fault @ 40° ICa		108.20	F.O.N.				
7100	72 70	$59.95 \qquad \text{Fault (0, 30° ICa}$			•				
/1.90	13.70	73 35 Fault gouge							
73.70	77.70	GRAYWACKE							1
		Weakly Sericitic						1	1

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INTER	VAL	DESCRIPTION				· · · · · · · · · ·	SAM			ASS A VS	
FROM	ТО		No.	FROM	то	Length	% Rec	DESCRIPTION	Au. 2/1	Au Check	Au*M
0.00	2.44	CASING									
2.44	16.30	CONGLOMERATE / GRAYWACKE Coarse polymictic pebble conglomerate with minor intercalated graywacke beds up to 0.5 metres wide; massive to well foliated with clast elongation @ 50° tca; matrix varies from dark green and chloritic to red-brown where hematized, 20% quartz + 30% feldspar + 50% rock fragments and pervasive 1-2% spotty sericite throughout; lower contact is sharp sericite + chlorite + ankerite slip @ 25° tca with 0.5 cm wide buff quartz vein adjacent to slip wall.									
		 5.30 - 6.81 Light green-brown with moderate sericitization of matrix (5 - 10%) and certain clasts; transected by 1-2% white to pink quartz veinlets (extensional) at right angles to the foliation. 6.81 - 7.20 Fault @ 32° tca: sericite + ankerite ± chlorite; rubbly core; strongly weathered, rusty ankeritic shear with fault gouge on lower contact. 11.50 - 12.75 Very irregular, anastomosing sericite + chlorite slips sub-parallel to core axis; tight (<= 1 mm) chlorite with sporadic quartz along slips; becomes highly sericitic between slip planes. 12.00 - 12.24 Rusty, ankerite + quartz vein in rubbly, broken core. 		·							
16.30	19.50	ASH-TUFF Massive to well bedded very fine to medium grained (lithic tuff) dark green to green- brown; bedding is defined by very thin (< 1 nm) dark laminae spaced at 3 -5 mm intervals in a dark green, very fine grained groundmass; in part intercalated with coarser, non-bedded lithic tuffs with 25% sub-rounded heterolithic clasts up to 0.5 cm in a fine grained, green-brown matrix; unit is typically non-magnetic; lower contact with conglomerates is sharp @ 10-15° tca (bedding).		ı							



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FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	A11 a/t	An Check	A.,.*14
19.50	25.50	 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. 20.00 - 21.40 Cemented with white quartz, interstitial to pebble framework and matrix. 									<u>Au M</u>
25.50	26.38	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. 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.									r.
26.38	29.70	 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. 28.10 - 29.70 Grades into heterolithic lapilli and ash tuff. 29.25 Fault @ 43° tca: sharp tight (1 - 2 mm) chlorite + sericite slip. 	6611	28.00	29.00	1.00			0.01	0.01	-

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INTER		DESCRIPTION					SAN	1PLE	ASSAYS
FROM	TO		No.	FROM	то	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 6614 6615 6616	29.80 30.50 31.00 32.00	30.50 31.00 32.00 32.50	0.70 0.50 1.00 0.50		Sericitic Graywacke	nii nil 0.01 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 6618 6619	32.50 33.00 34.00	33.00 34.00 34.90	0.50 1.00 0.90		Strongly deformed Fault Zone subparallel to core axis	nil nil 0.01
34.85	71.90	ASII-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



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	INTER	VAL	DESCRIPTION					SAM	IPLE		ASSAYS
	FROM	то		No.	FROM	ТО	Length	% Rec	DESCRIPTION	Au, g/t	Au,Check Au*M
			fine grained, multi-coloured trachyte, and which arc angular to sub-rounded to well rounded; unit is strongly magnetic; it is very difficult to distinguish some of these units from the sediments as a lapilli-tuff with moderately rounded clasts looks very similar to the conglomerates; clasts are variable from dark green fine grained igneous clasts, and a variety of fine ash tuff clasts.	,							
			57.34 Fault @ 40° tca; 1 cm wide white to pink quartz vein on tight chloritic slip; wall rock is well foliated, moderately sericitic and contains minor pyrite clots up to 1 mm.	6621	57.00	57.50	0.50		Foliated sericitic Tuffs at fault with minor pyritic clots	0.01	
			59.95 - 60.05 Fault @ 30° tca; open chlorite + quartz + calcite slip with vugs and cavities up to 0.5 cm infilled with drusy quartz and calcite \pm ankerite.	6622	59.85	60.25	0.40		Open vuggy fault in massive Tuffs	0.01	
- ;	:		63.00 - 66.50 Unit is cross-cut by a sub-parallel system of quartz veinlets 1-5 mm wide (avg. 2 mm) with spacing ranging from 0.5 cm to 0.5 metres; veins @ 25° tca arc milk-white to nink, barren quartz.	6623 6624	63.00 64.00	64.00	1.00		Massive Ash Tuff with 1% cross cutting quartz veinlets	0.02	
			66.50 - 66.70 Bleached, buff-brown, sericitized tuff with 10% - 15% white to buff	6625 6626	65.00 ¹	66.00 66.50	1.00 1.00			0.04	0.02
			quartz stockwork; bleaching is asymmetrical around quartz veins with 1-2 cm wall-rock penetration.	6627	66.5 0	67.00	0.50		Bleached Tuff with 15% quartz	0.01	r
				6628	67.00	68.00	1.00		, in the second s	0.01	
				6630 6631	69.00 70.00	70.00 71.00	1.00			0.01	-
				6632	71.00	71.90	0.90			0.02	
	71.90	73.70	FAULT ZONE Fault Zone @ 32° tca; strongly foliated to schistose, light brown to green, highly altered (sericitic) tuffs with 10% cross cutting quartz veins and brecciated quartz								

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INTER		DESCRIPTION					SAM	(PLE		ASSAYS	
FROM	ТО		No.	FROM	то	Length	% Rec	DESCRIPTION	Au. g/1	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	<u> </u>	Bleached Tuffs in strongly foliated to schistose fault zone with 10% quartz and quartz	0.02		
•		73.35 Mud gouge, 0.5 cm wide.	6634 6635	72.40 73.00	73.00 73.70	0.60 .0.70		orectas	0.03 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,	6636	73.70	74.50	0.80		Hematized Lapilli Tuff - 1% quartz veins	0.03		
		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.	6637	74.50	75.00	0.50		Bleached, hematite + sericite altered Tuffs with 1 - 2% quartz veinlets	0.02		
			6638 6639 6640	75.00 76.00 77.00	76.00 77.00 77.70	1.00 1.00 0.70		Sericitized Ash Tuff with minor	0.02 0.02 nil	0.02	
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.						graywacke			r 1
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		

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INTER	VAL	DESCRIPTION		1	· • •	<u>i</u> s			· · · · · · · · · · · · · · · · · · ·	ACCANC	
FROM	то	1	No.	FROM	то	Length	% Rec	DESCRIPTION	Au <i>al</i> t	ASSA 15	Au+M
78.55	80.50	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.	6643 6644 6645	78.55 79.20 79.70	79.20 79.70 80.50	0.65 0.50 0.80		Weakly sericitic Lapilli Tuff Bleached sericite halos with 2 - 3% quartz veinlets	0.01 nil 0.02	AU, CITAK	
80.50	85.15	 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: 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; 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; 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; 	6646 6647 6648 6649 6650	80.50 81.00 82.00 83.00 84.00	81.00 82.00 83.00 84.00	0.50 1.00 1.00 1.00		Brecciated Graywacke with 0.5% pyrite 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%	2.23 0.03 0.33 5.45 0.11	2.21 5.66	-
		4) Bluish-grey quartz veins up to 1 - 2 cm wide which carry 2 - 3% disseminated pyrite and pyrite along fracture planes.	6651	84.50	85.20	0.70		disseminated pyrite Pseudo brecciated Graywacke with 0.5% pyrite	0.18		

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INTER	VAL	DESCRIPTION					SAN			ACCANC	
FROM	то		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au ø/i	ASSA 15 Au Check	Au*M
85.15	108.20	GRAYWACKE Typically light green to yellow-green, massive fine to very fine grained and well sorted, 15% quartz, 25% feldspar and 60% rock fragments, all less than 1 mm in size; typically non-magnetic; contains less than 1% chlorite breccia veins and "crack and seal" textured areas within massive, fine grained weakly to moderately sericitic gravwackes with 1% angular light green anhanitic mudstone clasts up to 3.4 cm in	6652	85.20	86.00	0.80		Massive Graywacke - very minor chlorite breccias and quartz veinlets	0.03	7 No. Children	
		size.	6654 6655 6656	86.00 87.00 88.00 89.00	87.00 88.00 89.00 90.00	1.00 1.00 1.00 1.00		Little to no pyrite Gravwacke with 1% chlorite	nil 0.01 0.01 0.01		
		101.60 - 101.62 Fault @ 40° tca chlorite + quartz + sericite.	6657 6658	90.00 91.00	91.00 92.00	1.00 1.00		breccias	0.01 0.01		
		104.10 - 105.00 0.5% disseminated pyrite in weakly sericitic matrix. 104.75 - 105.00 1-2 mm pyritic band with interstitial wispy sericite.	6659 6660 6661	102.00 103.00 104.00	103.00 104.00 104.50	1.00 1.00 0.50		Massive Graywacke Graywacke with 0.5%	0.01 0.01 0.02	0.01	
			6662	104.50	105.00	0.50		disseminated pyrite 1 - 2 mm wide pyritic beds in Graywacke	0.02		-
	108.20	Е.О.Н.	6663	105.00	106.00	1.00		Massive Graywacke	0.01		-
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HOLE: AK-90-08

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PROPERTY Amalgamated Kirkland October 31 1990 DATE LOGGED EASTING 8190.00 DEPTH AZIMUTH DIP Mark Masson LOGGED BY NORTHING 10165.00 TOWNSHIP Teck SIGNED BY he **ELEVATION** Collar 341 45 CLAIM No. L 491663 DRILLED BY Heath & Sherwood LENGTH 123.45 40.00 43 STARTED October 28, 1990 UNITS SURVEYED BY metres 80.00 40 COMPLETED October 30, 1990 CORE LOCATION K.L. Warehouse **CORE SIZE** NQ 114.00 40 PURPOSE To test 102 - 8170 zone Quartz + Pyrite zone: 75.90 - 76.55, 2.55m COMMENTS in Mudstone/Siltstone

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

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INTER	VAL	DESCRIPTION SAN No. FROM TO Length % Rec		SAM	PLE		ASSAYS			
FROM	то		No.	FROM	то	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. 28.65 - 28.90 Fault @ 25° tca: sericite + chlorite + quartz; upper and lower 	6664 6665	26.80	27.40	0.60	-	Fault zone Fault zone	0.01	0.01 -
		 contacts are sharp, tight scricitic slips with minor gouge; interstitial material is scricitic graywacke with 15% brecciated and fractured, white to pink quartz. 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 + scricite 	6666	39.00	39.50	0.50		Massive Graywacke	nil	
		groundmass.								

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INTER	VAL	1	DESCRIPTION					SAM	IPLE		ASSAYS	
FROM	ТО			No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
		41.00 - 42.00	Conglomerate becomes well foliated to pseudo-brecciated and brecciated by thin black chlorite \pm hematite sutures and by an aphanitic, chlorite groundmass with angular wall rock clasts to 0.5	6667 6668 6669	39.50 40.00 41.00	40.00 41.00 42.00	0.50 1.00 1.00		Massive Ash Tuff with 1 cm barren white quartz vein, sub- parallel to core axis Massive Conglomerate Foliated and brecciated Conglomerate	0.01 0.01 ni1		
		42.20	cm; cut by 1% late, milk-white quartz veinlets up to 1 cm wide. Mud break @ 40° tca, 0.5 to 1 cm wide with 0.5 cm wide chlorite breccia.	6670 6671	42.00 43.00	43.00 43.60	1.00 0.60		Massive to pseudo-brecciated Conglomerate	0.01		
43.60	48.00	FAULT ZONE Strongly deform mylonitic to br	• MYLONITE • FAULT BRECCIA ned, altered fault zone with a wide range of textures from schistose to ecciated.	•							·	
		43.60 - 44.40	Strongly foliated graywacke transected by 10-15% black chlorite and chlorite + quartz veinlets 1-3 mm wide @ 40°-50° tca and by fractured and broken quartz veins 1-2 cm wide; matrix is pervasively sericitized.	6672	43.6 0	44.00	0.40		Sheared Conglomerate with 10% quartz	0.01		÷
		44.13 - 44.40	Pyritic zone, well foliated @ 40° - 45° tca with 10% very finely disseminated pyrite in an aphanitic grey-brown groundmass, cut by thin chloritic slips (<= 1 mm); borders are sharp chlorite sericite slips.	6673	44.00	44.50	0.50		Altered unit with pyrite + chlorite zone with 10% disseminated pyrite	1.14	1.23	-
		44.40 - 45.00	Well foliated sericitized zone @ 40°-45° tca; light green in colour with 2% irregular white quartz masses throughout.	6674	44.50	45.50	1.00			0.02		
		45.00 - 46.00	Red-brown to altered (silicified), quite hard, with wispy sericite (5- 10%) and transected by 5% chlorite slips and breccia veins up to 1 cm and by later white-buff cross cutting quartz veinlets 1-3 mm in width; primary textures are completely obliterated.	6675	45.50	46.00	0.50		Red brown silicified zone	0.02		

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INTER	VAL	DESCRIPTION					SAM	PLE		ASSAYS	
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check	Au*M
		 46.00 - 46.50 Dirty brown well foliated with pseudo-brecciated texture due to brecciation by black chloritic veinlets <= 1 mm wide. 46.50 - 47.00 Pseudo-brecciated to brecciated zone; dirty, red-brown altered matrix with chloritic suturing and breccia veinlets comprising 15. 	6676 6677	46.00 46.50	46.50 47.00	0.50 0.50		Foliated, buff brown altered unit	0.02 nil		
		 47.00 - 48.00 47.00 - 48.00 Fault breccia of 25% coarse angular, light green to pink breccia clasts up to 2 cm (avg. 1 cm), floating in a dark green-black, aphanitic chlorite groundmass; upper and lower contacts are marked by strong chlorite + sericite slips with mud gouge @ 50°-55° tca. 	6678	47.00	48.00	1.00		Coarse fault breccia, chloritic groundmass	0.03		
48.00	48.62	ALTERED LAPILLI-TUFF Dirty green-brown altered tuff with strong sericite at upper fault contact, grading to somewhat less deformed (faint primary clasts evident), sericitized tuff.	6679	48.00	48.62	0.62		Sericitic Tuff at fault contact	0.01		
48.62	61.30	 BLEACHED LAPILLI-TUFF Light green-brown to dark green to purple (hematized), bleached tuffs; original matrix appears to be dark green, fine grained and chloritic, which is being pervasively hematized to a purple colour which in turn is being bleached (sericitized) to a light green colour; these bleached zones are patchy and display diffuse alteration fronts; where unit is dark green to purple, primary 5-10% angular, subrounded, red-brown to mauve, from 2-7 mm clasts are evident; cut by 2-3% cross cutting quartz veinlets and minor chlorite slips and chlorite breecia veins to 1 cm; lower contact is sharp @ 50° tca. 57.15 - 57.35 Fault @ 30° tca: strong sericite schist with black, interstitial chlorite and breeciated quartz to 3 mm in size. 	6680 6681 6682 6683 6684 6685 6686	48.62 49.25 50.00 51.00 52.00 53.00 54.00	49.25 50.00 51.00 52.00 53.00 54.00 55.00	0.63 0.75 1.00 1.00 1.00 1.00 1.00		Hematized Lapilli Tuff Bleached sericitic Lapilli Tuff	0.01 ni1 0.01 0.02 0.01 0.01 0.02		-

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INTERVAL		DESCRIPTION				Γ					
TRICKVAL TO						ASSAYS					
FROM	<u> </u>		No.	FROM	то	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.				۱					
		63.20 - 63.75 Blocky, rubbly core due to chlorite slip sub-parallel to core axis.									ļ
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 11553	65.00 66.00	66.00 67.00	1.00 1.00	60	Fault zone parallel to core axis	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.	11554 11555 11556 11557	68.10 69.00 70.00	68.10 69.00 70.00 70.55	1.10 0.90 1.00 0.55	60		0.01 0.01 0.01 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 11559	70.55 71.00	71.00 72.00	0.45 1.00			0.01 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 11561 11562	72.00 73.00 73.55	73.00 73.55 74.00	1.00 0.55 0.45			0.01 0.01 0.01	0.01	

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INTERVAL		DESCRIPTION					2VA22A				
FROM	то			No.	FROM	то	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. 75.90 - 76.55 OUARTZ-PYRITE ZONE		6687 6688 6689	74.00 75.00 75.85	75.00 75.85 76.55	1.00 0.85 0.70		Well laminated Mudstone / Siltstone Mudstone with 1 - 3% disseminated to wispy pyrite ± quartz Intercalated Mudstone / Lapilli Tuff	2.06	2.09
		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.	6690 6691 6692	76.55 77.55 78.00	77.55 78.00 79.00	1.00 0.45 1.00		0.03 nii 0.02		10.12	
				11563 11564 11565 11566 11567 11568 11569 11570 11571	79.00 80.00 81.00 82.00 83.00 84.00 85.00 86.00 87.00	80.00 81.00 82.00 83.00 84.00 85.00 86.00 87.00 87.50	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00			0.02 0.01 nil 0.02 0.03 0.02 0.02 0.02 0.02	0.02
		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 6694 6695 6696 6697 6698 6699	87.50 88.00 89.00 90.00 91.00 92.00 93.00	88.00 89.00 90.00 91.00 92.00 93.00 94.00	0.50 1.00 1.00 1.00 1.00 1.00 1.00		Fault Zone Massive Mudstone/Siltstone	0.01 nil nil 0.01 0.02 0.01	
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INTER	VAL	DESCRIPTION					SAM	IPLE		ASSAYS
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	An ell	Au Check Au*M
95.75	106.15	 LAPIL1.1-TUFF / ASII-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. 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. 102.87 - 103.20 Chloritic slip sub-parallel to core axis with white to nink brecciated 							<u>, 70, 91</u>	AU,CIRCK AU M
106.15	107.80	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.			•					
107.80	112.15	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.			.*	1			1	
112.15	115.50	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.	6700 6701 6702	113.00 114.00 115.00	114.00 115.00 115.50	1.00 1.00 0.50		Graywacke with mudstone interbeds and <0.5% wispy pyrite	nil nil nil	

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INTER	VAL	DESCRIPTION	*******		• • • • • •		SAN			A 66 A V6	
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au. 2/1	Au.Check	Au*M
115.50	118.00	 LAPILLI-TUFF Light grey-green fine grained matrix with 1-2% spotty and wispy sericite, with 5% angular clasts, 80% of dark grey to black and white spotted trachyte from 0.1 to 2 cm. 116.25 - 116.50 Pyrite Zone; 5 cm wide white to grey brecciated quartz vein with angular quartz and wall rock fragments to 0.5 cm and wispy, anastomosing sericite + pyrite interstitial to quartz and rock fragments to 2.5 cm 	6703 6704	115.50 116.20	116.20 116.80	0.70 0.60		1 - 3% pyrite in quartz breccia vein and 1 - 2% in adjacent wall rock	0.01 0.07	0.07	
		foliated sericite schist for 1-3 cm around vein; wall rock carries 1- 2% fine disseminated pyrite.	6706	116.80	117.50	0.70 0.50			0.01 nil		
118.00	121.85	GRAYWACKE Light grey to green massive fine grained graywacke with 10% very irregular, mudstone clasts and interbeds with flame structures and very irregular contacts; lower contact is faulted @ 15° tca by a 0.5 cm white quartz vein with tight sericite + chlorite slip margins.									
121.85	123.45	ASH-TUFF Massive grey-green, strongly magnetic, ash tuff with a few minor lapilli clasts (<1%); matrix is very fine grained grey-white with 10% black subhedral magnetite grains up to 0.5 mm.									•
i	123.45	E.O.H .		I) 1983) 1993						

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PROPERTY Amalgamated Kirkland DATE LOGGED November 2 1990 EASTING 8150.00 DEPTH AZIMUTH Mark Masson DIP LOGGED BY NORTHING 10155.00 ELEVATION TOWNSHIP Teck SIGNED BY Health & Sherwood Collar 341 45 L 491663 CLAIM No. DRILLED BY LENGTH 124.00 38.00 44 STARTED October 30, 1990 SURVEYED BY UNITS metres 80.00 42 COMPLETED October 31, 1990 K.L. Warehouse CORE LOCATION **CORE SIZE** NQ 114.00 41 PURPOSE To test 102 - 8170 zone

COMMENTS

	SUMMA	RY LOG		ASSA	Y SUMMARY	1
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENOTH in metres	AVERAGE Au g/t
0.00 3.30 3.30 72.00 72.00 74.75 74.75 79.00	CASING LAPILLI TUFF 8.50 Fault @ 60° tca 29.00 - 36.38 Hematitic 36.38 - 37.55 Fault @ 55° tca 37.55 - 38.60 Sericitic 58.25 - 58.80 Mudstone MUDSTONE LAPILLI TUFF Trace pyrite 76.70 Fault @ 35° tca	86.00 91.80 91.80 93.70 93.70 94.20 94.20 110.25 110.25 124.00	85.65 Fault gouge @ 40° tca IAPILLI TUFF MUDSTONE / SILTSTONE Bedding @ 22° tca - 65° tca QUARTZ - PYRITE ZONE 3 - 5% pyrite, 5% quartz MUDSTONE / SILTSTONE 107.55 Fault @ 45° tca- 50° tca GRAYWACKE / MUDSTONE	93.65 94.25	0.60	11.25
79.00 80.50 80.50 83.10 83.10 85.00 85.00 85.65 85.65 86.00	ASH TUFF LAPILLI TUFF ALTERED LAPILLI TUFF 5 - 10% Sericite 83.80 - 83.95 Quartz vein 84.00 Fault gouge @ 40° tca GRAYWACKE MUDSTONE	124.00	Е.О.Н.			



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INTER	VAL	DESCRIPTION					SAN	IPLE		ASSAYS
FROM	то		No.	FROM	то	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 (a 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 subrounded, 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 hematilic) 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 (<i>b</i> 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) (<i>a</i> 40°-70° tca. 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 (<i>à</i> 36.38 m, and becomes increasingly stronger towards this fault. 	6707 6708 6709 6710 6711 6712 6713 6714	28.00 29.00 30.00 31.00 32.00 33.00 34.00 35.00	29.00 30.00 31.00 32.00 33.00 34.00 35.00 35.50	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00		Hematized Lapilli Tuff with 1% late quartz Strongly hematized, weak to moderately foliated Lapilli Tuff with 3 - 5% quartz stockwork venning	0.01 ail 0.01 0.02 0.01 ail ail	0.05

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INTER	VAL	DESCRIPTION		a	•		SAN	(PLE		ASSAYS	1
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/l	Au,Chock Au	.•м
			6715	35.50	36.35	0.85	· · · · · · · · · · · · · · · · · · ·		0.01		
36.38	37.55	FAULT ZONE Fault zone @ 55° tca: sericite + chlorite + quartz; highly deformed zone of sericite schist, breeciated quartz and fault gouge; upper contact is sharp chlorite + sericite slip with a 2 cm wide breeciated 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, breeciated quartz masses up to 1 cm wide; lower contact is strong mud break with white to pink quartz 1 cm wide.	6716 6717	36.35 37.00	37.00 37.60	0.65 0.60		Fault Zone	0.01 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 6719 6720	37.60 38.60 39.50	38.60 ³ 39.50 40.00	1.00 0.90 0.50		Well foliated Tuff with 1% quartz veinlets	nil nil nil		
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INTER	VAL	DESCRIPTION					SAN	IPLE		ASSAYS	
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/1	Au,Check	Au'M
46.20	72.00	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.	11662	70.70	71.70	1.00	<u></u>		0.01		
		 48.00 Fault @ 42° tca: tight sericite + chlorite slip boundaries with 0.5 cm wide, white to pink brecciated quartz. 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. 									
72.00	74.75	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).	11663 11664 11665	71.70 72.70 73.90	72.70 73.90 75.00	1.00 1.20 1.10			0.01 nil nil		
74.75	79.00	 LAPILLI-TUFF - HETEROLITHIC Massive, consisting of 10% angular to sub-rounded dark green to brown coloured trachytic elasts, 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° tea. 76.70 - 76.85 Fault @ 35° tea: 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 1(<<0.5%). 	6721 6722 6723 6724 11829	75.00 76.00 76.50 77.00 78.00	76.00 76.50 77.00 78.00 79.00	1.00 0.50 0.50 1.00 1.00		Sericitic Tuff with fault and 0.5% pyrite	0.01 0.01 0.01 0.01 0.02		

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INTER	VAL	DESCRIPTION					SAN	IPLE		ASSAVS
FROM	то		No.	FROM	то	Longth	% Rec	DESCRIPTION	Au, g/1	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 11831	79.00 80.00	80.00 81.00	1.00 1.00		< 0.5% quartz veinlets , 0.5% Imm chlorite + hematite veinlets	0.01 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% wisny and spotty sericite throughout 	11832	81.00	82.00	1.00		1% quariz + chlorite + hematite veinlets with trace pyrite in wall	0.01	
:		matrix and cut by numerous, tight, chloritic slips.	11833	82.00	83.00	1.00		< 0.5% chlorite + quartz +	0.01	
83.80	84.35	FAULT ZONE Fault zone @ 40° tca.	6725	83.00	83.80	0.80		hematite veinlets	0.01	
		 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. 	6726	83.80	84.40	0.60		Fault zone with 15 cm quartz vein and sericitized Tuffs	nil	•
84.35	85.00	SERICITIZED IAPILLI-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		Scricitized Lapilli Tuff	nit	

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INTER	VAL		DESCRIPTION		*			SAN			ASCANC	
FROM	то			No.	FROM	TO	Length	% Rec	DESCRIPTION	Au ah	AU Check	Auth
85.00	85.65	GRAYWACKE Massive, light g 0.5 mm)in a li mudstone clasts	green, very fine grained with 3-5% well rounded quartz grains (<= ght green feldspathic matrix; contains minor irregular light green s; 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 g and irregular w	green to blackish, aphanitic mudstone; lower contact is very sharp ith minor displacement evident on chlorite slip @ 35° tca.	6729	8 5.6 5	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	6730	86.00	86.50	0.50		Dirty brown "hleached" Lapilli Tuli	nil		
			and bull to pink coloured porphyritic trachyte; this dirty, bleached	6731	86.50	87.10	0.60		Mudstone interbed	nil -		
		86.70 - 87.10	Zone grades into non-bleached, dark green lapilli tuffs.	6732	87.10	88.00	0.90			nil		
		0110	irregular contacts.	6734	88.00	89.00	0.50		Dirty brown thisschool 1 aniti	nil		
				07.04	07.00	69,50	0.50		Tuff	กม		•
				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 / Massive to well	SILTSTONE laminated with light yellow-orcen anhanitic mudstone beds (1 mm -	6738	61 RA	97 5 0	0.70		Mussive laminated Mudstone /	0.01		
		1 cm wide) into	ercalated with dark green, very fine grained siltstone beds; unit has	07.41	23.00	90.3()	0.70		Silistone	0.01		
		very rhythmic l	ayering with mudstone beds displaying convoluted bedding, flame	6739	92.50	93.00	0.50			0.02		
		structures and r with minor ash sharp, but often	(i) up clasts; bedding varies from 22° to 65° tea; in part interbedded - and lapilli-tuff horizons up to 0.5 metres wide which display very a irregular contacts.	6740	93.00	93.65	0.65		Laminated Mudstone	0.01		

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INTER	VAL.		DESCRIPTION			·		C 4 1				
FROM	TO		DESCRIPTION		FRAN			SAN	IPLE		ASSAYS	
		}		NO.	FROM	10	Lengin	W 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	6741	93.65	94.25	U.60		Pyritic zone (3 - 5% pyrite) in	11.42	11.08	
			the surrounding mudstone; cut by 5% quartz veining which occurs as	6742	94.25	95.00	0.75		silicitied Mudstone Intercalated Mudstone / Lapilli Tuff	0.05		
				6743	95.00	96.00	1.00			0.02		
			1) Blue-grey to white quartz and breeciated quartz veinlets parallel	6744	96.00	97.00	1.00			0.02		
			to bedding cleavage up to 1 cm wide with a "crack and seal" texture,	11802	97.00	98.(K)	1.00			0.01	0.01	
			and which are infilled by 5-10% pyrite and with chlorite.	11803	98.00	99.00	1.00			0.01		
				11804	99.00	100.00	1.00			0.01		
			2) Late cross-cutting milk- white quartz veinlets up to 3 mm wide	11805	100.00	101.00	1.00		1	0.01		
			at conque angles.	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		i .	0.02		•
				11011	100.00	107.00	1.00			0.01		
		107.55 - 107.85	Fault (1, 45° , 50° tran particity + obtaine + outstart contacts are	4715	107.00	107.50	0.50			0.01		
			strong sharp slips with a moderate amount of mud goinger fault	11912	107.50	106.10	0.00			0.01		_
			zone itself is comprised of 65% white to buff irregular quartz veins and masses with interstitial sericite schist.	11813	109.00	109.00	1.00			0.02	0.01	·
110.25	124.00	GRAYWACKE										
		Massive, fine-m	edium grained, dark green gravwacke; unit is well sorted and	11815	110.00	111.00	1.00			0.01		
		comprised of 60	1% lithic clasts (up to 1 mm), 20% quartz and 20% feldsnar: lithic	11816	111.00	112.00	1.00]	0.01		
		clasts include vi	oleanies, quartz porphyry, mudstone and jasper; well sorted and	11817	112.00	113.00	1.00]	0.01		
		contains <1%	rounded, pebble-sized clasts, and is in part intercalated with	11818	113.00	114.00	1.00			0.01		
		mudstone beds i	up to 0.75 metres wide.	11819	114.00	115.00	1.00			0.01		
										0.01		

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INTER	RVAL	DESCRIPTION					SAN	IPLE		ASSAYS	
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/i	Au,Check	Au*M
	124.00	 118.00 - 118.65 0.5-1.0% finely disseminated pyrite in dark green mudstone grading into graywacke. 118.27 1-2 mm quartz-pyrite veintet at 90° tca. 120.00 - 121.00 Mudstone with 1-2%, 1-2 mm quartz carbonate veintets @ 30°-45° tca, trace pyrite. 121.00 - 122.35 Graywacke. 121.00 - 121.40 5%, 0.5-2.0 cm, bleached quartz vein at 45° tca, trace pyrite. 122.35 - 123.00 Mudstone. 123.00 - 124.00 Graywacke, trace pyrite. 	11820 11821 11822 11823 11824 11825 11826 11827 11828	115.00 116.00 117.00 118.00 119.00 120.00 121.00 122.00 123.00	116.00 117.00 118.00 119.00 120.00 121.00 122.00 123.00 124.00	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00		0.5 - 1% pyrite; Mudstone grading to Graywacke Mudstone, 1 - 2% quartz veinlets, trace pyrite Graywacke Graywacke grading to Mudstone Graywacke, trace pyrite	0.01 0.01 0.02 0.02 0.01 0.03 0.01 0.01	0.01	_
		1			а. — Э — Э — Э — Э — Э — Э — Э — Э — Э — Э				-		

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 5-6 1990	EASTING	8050.00	D	ЕРТН	AZIMUTH	DIP	
TOWNSHIP CLAIM No. STARTED COMPLETED PURPOSE COMMENTS	Teck L 491651 November 1, 1990 November 3, 1990 To test magnetic low 100 m west of 102-8170 zone Intersected '102' structure at 145.55 - 147.40m	LOGGED BY SIGNED BY DRILLED BY SURVEYED BY CORE LOCATION	Mark Masson Weath & Sherwood K.L. Warehouse	NORTHING ELEVATION LENGTH UNITS CORE SIZE	10100.00 173.70 metres NQ		Collar 38.00 76.00 14.00 52.00	341	45 44 44 43 41	

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

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INTER	RVAL	DESCRIPTION					SAN	IPLE		ASSAYS	
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au,Check	Au'M
0.00	2.44	CASING				1					
2.44	24.25	1APILLI-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	•	1	н 						
_ • · ·		 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 Diriy brown to green scricitized 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. 14.65 14.70 Emile (0) 	6746	14.20	14.80	0.60		Fault at 14.65m, sericitized Lapilli Tuff, 2-3% quartz veining	0.01	0.01	•
		 14.05 - 14.70 Fault (a) for ica; strong sericite + ankerite shear with 1-2% irregular quartz. 15.00 - 15.50 Fault (a) 10° tca; tight 1 mm wide, chlorite + sericite + ankerite slip. 									•
		23.00 - 23.10 Fault (a 42° tea: sericite + chlorite + quartz; upper and lower contacts are sharp sericitic slips; interstitial material is comprised	6747	22.90	23.40	0.50		Fault zone with 3-4 cm quartz vein	nil		
		of sericite + chlorite schist, a breeciated buff-white quartz veinlet 3 mm wide and a semi-massive 3-4 cm wide milk-white quartz vein with ankeritic staining.	6748	23.40	24.20	0.80			0.03		

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INTE	RVAL		DESCRIPTION			, .		SAN	IPLE		ASSAYS
FROM	то			No.	FROM	, ТО	bength	% Rec	DESCRIPTION	Au, g/t	Au, Check Au*M
24.25	27.40	CONGLOMER Coarse polymic coarse sub-ange grained light to aphanitic trachy contact of unit lower contact is	ATE tic pebble-boulder conglomerate, massive, multi-coloured with 25% dar to moderately founded clasts up to 8 cm (avg. 2 cm) in a fine o dark green matrix; clasts are multi-textured from light brown yle to spotted trachyte to green sericitized mafic (?) clasts; upper is marked by sharp sericitic slip with 1 cm white-buff quartz vein; s obscured by late quartz veining.	6749 6750	24.20 25.00	25.00 26.00	0.80 1.00			0.02 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 breecia 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	A1.TERED - B1 Moderately to s pseudo-brecciat mm) which crea to brown with lapilli clasts are 30.50 - 30.70	EACHED TUFF strongly deformed with a strong "crushed" appearance that is in part ed by 1-5% irregular chlorite and chlorite + quartz veinlets (1-2 ates a strong "crack and seal" texture; matrix varies from light green a variable amount of sericite alteration (0-10% of matrix); coarse e still evident, although quite deformed and brecciated in places. Fault (a 15° tea: tight sericite + chlorite slip with 0.5 cm wide of breeciated wallrock (breeciated by chlorite + quartz veinlets); minor coarse pyrite is evident along some of the chlorite + quartz slips.	6753 6755 6755 6756 6757 6758 6759 6760 6761 6762 6763	27.50 28.00 28.50 29.00 30.00 31.00 32.00 33.00 34.00 35.00 36.00	28.00 28.50 29.00 30.00 31.00 32.00 33.00 34.00 35.00 36.00 36.60	0.50 0.50 1.00 1.00 1.00 1.00 1.00 1.00		Altered sericitized Lapilli Tuff Altered Lapilli Tuff with 8 cm pink quartz vein	0.01 nil 0.01 0.01 nil nil 0.01 nil nil nil nil	

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INTE	RVAL	DESCRIPTION					SAM	IPLE		ASSAYS	5
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/1	Au,Choci	Au*M
		 36.50 - 36.60 Fault (a 30° tea: serience + chlorite + ankerite in well foliated serieitized tuff. 39.20 - 39.21 Fault (a 55° tea; strong muddy break with rubbly core (button core) and tight serieitic mud slips. 	6764 6765 6766	36.60 37.50 38.50	37.50 38.50 39.30	0.90 1.00 0.80			nil nil 0.01	0.01	
39.20	67.00	HEMATIZED LAPILLI TUFF Massive, undeformed, with a very distinctive dark red-purple, fine grained matrix and 15-20% angular to sub-rounded lapilli clasts which average 2-5 mm in size and are predominantly light grey-green fine grained and reddish-pink trachytic clasts; moderately well sorted, weakly to strongly magnetic.									
		 53.55 - 53.61 Fault (# 20° tca: chlorite + sericite + quartz; tight (1 mm) chlorite + sericite slip with 1.5 cm bull white-pink quartz vein; unit is cut by 1% late white-pink quartz veinlets up to 1 cm wide. 66.90 - 67.00 Lower contact marked by a fault (# 27° tca: chlorite + sericite + quartz; strong chloritic shear with 0.5 cm wide breeciated, white-pink quartz veinlet; weak mud gouge development on foliation planes. 			4						
67.00	72.00	CONGLOMERATE Massive, polymictic pebble-cobble conglomerate, consisting of 50% well rounded to sub-angular clasts up to 5-6 cm (avg. 2 cm) in a fine grained dark green graywacke matrix; locally is strongly magnetic; lower contact is faulted (a 32° tca; sericite + chlorite + quartz + calcite.									•
72.00	77.20	HEMATIZED LAPILLI-TUFF / ASH-TUFF Dark reddish-black to purple, massive lapilli-tuff with minor intercalated ash horizons up to 1 m wide and displaying gradational contacts; weakly to moderately magnetic; lower contact is faulted (α 25° tca; tight (1 mm) chloritic slip with 1-2 cm irregular quartz + calcite vein which is open and vuggy.			·						

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INTE	RVAL		DESCRIPTION	<u> </u>		~**		SAN				
FROM	то			No.	FROM	то	Length	% Rec	DESCRIPTION	Au. g/1	Au.Check Au	•м
77.20	89.65	CONGLOMERATE Coarse, polymictic pebble-coh to well rounded clasts up to l dark green mafic volcanic cl weakly magnetic, undeformed	ble conglomerate, consisting of 30-40% coarse angular 8 cm (avg. 2 cm) of salmon-pink coloured trachyte to asts; massive, framework supported, poorly sorted, and unaltered.				1					
89.65	91.00	FAULT ZONE Fault Zone @ 40° tea of folic veinlets and masses.	nted, sericitized tuffs, brecciated tuffs and 10% quartz									
		89.65 - 90.30 Sericitized tu vein; has a c sericite slips.	ff; leading contact is marked by 1 cm quartz + chlorite firty mottled appearance with 10% spotty sericite and	6767	89.50	90.50	1.00	70	Fault zone	0.01		
		90.30 - 91.00 Cut by 10% wide and by a	rregular buff-brown to white quartz veins up to 2 cm i later cross-cutting quartz vein system 1-3 mm wide.	6768	90.50	91.10	0.60			nii		
91.00	95.00	ASH-TUFF Massive to moderately well for massive fine grained matrix w white feldspathic (?) ground chloritized clasts with very dif	liated, fine grained grey-green ash-tuff consisting of a hich appears to be 70% trachyte fragments in a grey- mass; contains 1% very fine grained, dark green, luse boundaries due to alteration.									-
		91.00 - 91.50 Brown-purple cm, cut by 55	with a mottled texture and chloritized clasts up to 1 $\frac{1}{2}$ late quartz \pm chlorite veinlets 1-3 mm wide.	6769	91.10	91.60	0.50		Mottled, altered Tuff with 5% quartz	nil nil		
		+ chlorite sli	ica: serieite + chlorite + quartz; light 1 mm serieite n with 3 mm wide weakly laminated quartz vein	6770	91.60 92.50	92.50 93.00	0.90			nil		
	4	43.15 - 93.65 Fault @ 26° t deformed zor centred on se	ca: sericite + quartz + ankerite; strongly sericitized, ie with 10% white irregular quartz masses and veinlets ricitic slips.	6772 6773	93.00 94.00	94.00 95.00	1.00			0.01		

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INTER	VAL		DESCRIPTION		- <u>,, , , , , , , , , , , , , , , , , , ,</u>	••••••	· · ·			[
FROM	ŤΟ			No.	FROM	TO	Length	% Rec	DESCRIPTION	Au #/	ASSA YS	A.1.934
95.(X)	116.00	BLEACHED LA Upper contact of This is a unit aphanitic, sericit which display di clasts also show coloured to per- white irregular (distinctive dirty; horizons (<= 0, magnetic, but be which were prol gradational and i hematized tuffs; 102.70 - 102.90 106.90 - 107.10 108.45 - 108.70	APILLI-TUFF of this unit is a very sharp (< 0.5 mm) tight chloritic slip @ 45° tea. with a very distinctive light brown-green, very fine grained to tized (pervasive) matrix with some very large (5-10 cm) altered clasts fluse, altered boundaries and a certain degree of brecciation; these various degrees of sericite alteration from yellow-green fucshitic vasive matrix alteration; some clasts are quite coarse grained with feldspars (0.5 cm) in a sericitized groundmass; the rock has a very , mottled texture; in places remnant bedding of intercalated ash 5 metre wide) are evident with bedding @ 30°-40° tea; typically non- edding is defined by irregular fine hematile beds (<= 1 mm wide) bably primary magnetite beds; lower contact of unit is somewhat marked by a gradual colour change from light brown-green to purple Quartz breecia 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. Cut by two 1 cm quartz veins (a 106.90 and 107.10 which are milk- white to buff with sharp chlorite + sericite boundaries and very minor (<0.5%) patchy pyrite. Fault (a 15° tea: chlorite + sericite slip; rubbly core with 75% recovery.	6775 6774 6775 6776 6777 6778 6780 6781 6782 6783 6784 6785	95.00 102.60 103.10 104.00 105.00 106.80 107.30 108.30 108.30 108.80 109.50 110.50	96.00 96.00 103.10 104.00 105.00 106.80 107.30 108.30 108.30 108.80 109.50 110.50 111.00	0.50 0.90 1.00 1.00 0.80 0.50 0.50 0.70 1.00 0.50	75	Description Bleached scricitized Tuffs Quartz breecia vein Bleached Lapilli Tuff Bleached Tuff with 1 cm quartz vein and very minor blebby pyrite Quartz vein in sericitic Tuff Scricitized Tuff with 5% white- pink quartz veins with < 0.5% pyrite	nil nil nil nil nil nil nil nil nil nil	nil	<u>AU*M</u>

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INTE	RVAL	DESCRIPTION					SAM	IPLE		ASSAYS	
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/l	Au,Checi	Au*M
116.00	138.30	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 \rightarrow 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. 122:80 - 123:00 Fault @ 45° tca: sericite + quartz; 0.5 cm quartz vein in a tight sericite slip @ 122:85. 122:85 - 123:00 Light grey-green with 5-10% pervasive sericite alteration. 132:70 - 136:40 Evalt be parallel to gard argin.		·	· · · ·						
		running sub-parallel to core following a very irregular, light chloritic slip.									-
138.30	143.55	GRAYWACKE / CONGLOMERATE Massive to weakly bedded (0) 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 ((0) 75° tca and marked by a 0.5 cm quartz vein with angular wallrock inclusions 1-3 mm in size.	· · ·		,						•
143.55	145.55	ASH-TUFF									
		143.55 - 144.70 Very fine grained, brown-green, massive ash-tuff with 1-2% late white quartz veinlets (1-2 mm).	6780	143.55	144.55	1.00			nil		

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INTE	RVAL	DESCRIPTION				<u> </u>	SAN	(PLE		ASSAYS
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/1	Au,Check Au*M
		144.70 - 145.55 Becomes increasingly sericitized, cut by 2-3% quartz veinlets and quartz + chlorite breccia veinlets up to 1 cm; very mottled texture.	6787	144.55	145.55	1.00			0.01	
145.55	147.40	FAULT ZONE Fault zone @ 35°-45° tea: sericite + chlorite + quartz + gouge; strongly deformed sericitized unit cut by 5% late quartz and quartz + chlorite veinlets to give a pseudo-brecciated appearance in places; upper contact in sharp mud break @ 45° tea.	6788 6789	145,55 146.50	146.50 147.00	0.95 0.50		Fault zone	nil nil	
		 147.00 - 147.10 Sericite schist with strong mud gouge on parting planes. 147.10 - 147.40 Pseudo-brecciated by white-pink and black quartz chlorite veinlets 1-3 mm wide at all angles tea. 	6790	147.00	147.50	0.50			0.67	0.63
147.40	170.40	COARSE LAPILLI-TUFF Dark green, fine grained ash matrix with 10% coarse, angular lapilli clasts up to 3-4 cm (avg. 1 cm); these clasts consist of 80% buff-brown to pink, very fine grained trachyte and 20% fine grained, dark to light green trachytic; moderately to strongly magnetic; cut by 2-3% late, white-pink quartz veinlets (1-3 mm) @ 45° tca and by a later cross-cutting set (a 10° tca; lower contact of unit is sharp but somewhat deformed with 5-10% wispy sericite and 1-2% quartz veinlets @ contact.	6791	147.50	148.00	0.50			nil	-
		 159.35 Fault @ 40° tea: tight chloritic slip with 1-2 cm, irregular, vuggy pink quartz vein with breceiated wallrock clasts to 0.5 cm. 162.90 - 163.10 Yellow-green, aphanitic mudstone with sharp, irregular contacts. 			e - E e	•				
170.40	173.70	ASII-TUFF Massive, fine grained moderately magnetic ash tuff, consisting of 60% pale green, sericitized lithic fragments (up to 1 mm) in a grey-white, aphanitic, feldspathic groundmass; looks very much like a graywacke but it has no quartz or jasper.								
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INTE	RVAL	DESCRIPTION						SAN	1PLE	1	ASSAYS
FROM	то		No.	FROM	<u>1</u> T	°O	Length	% Rec	DESCRIPTION	Au, g/t	Au,Check Au'M
	173.70	E.O.H.									
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PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 6 1990	EASTING	7900.00	DE	arth	AZIMUTH	DIP	
TOWNSHIP CLAIM No. STARTED COMPLETED PURPOSE	Teck 1. 491651 November 3, 1990 November 5, 1990 To test 102-7912 Gold Zone	LOGGED BY SIGNED BY DRILLED BY SURVEYED BY CORE LOCATION	Mark Masson Heath & Sherwood K.L. Warehouse	NORTHING ELEVATION LENGTH UNITS CORE SIZE	10175.00 117.40 metres NQ	Ca 3. 71 11	ollar 8.00 6.00 4.00	341	45 44 42 39	
COMMENTS	No anomalous assays									

	SUMMA	RY LOG		ASSAY SUMMARY				
INTERVAL	DESCRIPTION	INTERVAL	DESCRIPTION	INTERVAL	LENGTH	AVEDAGE		
From To		From To		From To	in metres	AUEA		
0.00 3.40 3.40 44.70	t Casing Conglomerate / Lapilli Tuff	99.90 103.80	97.00 - 97.35 Fault gouge @ 35° tca BLEACHED TUFF					
44.70 65.15	37.35 - 37.45 Fault (# 50° tea LAPILLI TUFF 61 (0) - 65 15 5 - 10% Sariaha	103.80 117.40	10 - 15 % Sericite 5 - 10 % Quartz veinlets MUDSTONE (Chapter OVE					
65.15 66.55	SIIFAR ZONE 15 - 20% Sericite	103.60 117.40	116.50 - 117.40 3 - 5% Quartz veinlets 116.90 - 116.92 Fault @ 45° tca			•		
66.55 75.50	ASH TUFF Sericitic, hematitic							
75.50 76.50	FAULT ZONE Sericitic, hematitic, chloritic, < 0.5% pyrite	117.40	E.O.H.		н. - С			
76.50 94.45	LAPILLI TUFF 79.00 79.02 Fault gouge @ 40° ica 82.30 82.31 Fault @ 20° ica 82.30 86.40 5.10%							
01.15 00.00	82.30 - 80.60 - 5 - 10% Sericite 86.60 - 94.45 - 10 - 15% Sericite 94.00 - 94.45 - Fault breecia (0: 50° 4ca MIDSTONE / CBAWACKE							
77.70	94.90 - 95.00 Fault gouge (r 20° tca							

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INTE	RVAL		DESCRIPTION					SAN		r		
FROM	то			No.	FROM	то	Length	% Rec	DESCRIPTION	A.1. e/	ASSA YS	A
0.00	3.40	CASING			1 .))	<u></u>	<u></u>	DESCRIPTION		Au,Check	AU'M
3.40	44.70	COARSE HET Massive, dark g trom 0.2 to 5 c variable from p mainly compris clasts evident; quartz (possibl somewhat subje sedimentary un	EROLITHIC LAPILLI-TUFF / CONGLOMERATE green to black, with 5-30% angular to well rounded polymictic clasts m (avg. 1 cm) in a fine grained equigranular matrix; clasts are quite ink-red to grey to dark green, generally fine grained and appear to be ed of trachytic fragments, i.e. there are no quartz porphyry or jasper matrix is very fine grained grey-white and contains little to no visible y trachytic?); displays locally strong magnetics; lower contact is sective as it is very difficult to distinguish the volcanic units from the its.									
		18.80 18.80 - 19.40 31.40 - 33.55	Fault (a 20° tea: tight 1-2 mm wide sericite + chlorite slip with minor breccusted quartz within slip. Out by 5-10 ⁻⁴ irregular, white to pink quartz veins and masses. 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.	6792 6793 6794	18.50 19.50 33.00	19.50 20.00 33.50	1.00 0.50 0.50		Fault zone with 5 - 10% irregular quartz masses in wall rock 1 - 2% quartz veining	0.01 0.01 0.01		
		33.55 - 34.45 37.35 - 37.45	Rusty ankeritic, sericitized core interstitial to tight sericite + ankerite slips (r 10°-15° tca. Fault (r 50° tca: 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.	6795 6796 6797 6798 6799	33.50 34.50 35.00 36.00 37.00	34.50 35.00 36.00 37.00 37.50	1.00 0.50 1.00 1.00 0.50		Rusty ankeritic core Strong mud break + ankerite	0.02 nil 0.01 0.02 0.01	0.03	
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INTEI	RVAL	DESCRIPTION					SAM	IPI F		24 4 22 4	
FROM	TO		No.	FROM	то	Length	% Rec	DESCRIPTION	Au. 9/1	Au Check	Au*M
44.70	65.15	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.									
		 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. 	6800	64.00	65.00	1.00		Weakly sericitized Lapilli Tuff	0.02		
65.15	66.55	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.	6801	65.00	66.00	1.00	70	Rusty ankcritic shear zone	0.01		
66.55	75.50	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% fate white to buff quartz veinlets.	6802 6803 11642 11643 11644 11645 11646	66.00 67.00 68.00 69.00 70.00 71.00 72.00	67.00 68.00 69.00 70.00 71.00 72.00 73.00	1.00 1.00 1.00 1.00 1.00 1.00 1.00			0.02 0.01 0.01 0.01 0.01 0.01 0.01	0.01	

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INTE	RVAL	DESCRIPTION					SAN	1PLE		ASSAYS
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/1	Au,Check Au*M
			11647 6804 6805	73.00 74.00 75.00	74.00 75.00 75.50	1.00 1.00 0.50		Weakly sericitized Ash Tuff	0.01 0.01 nii	# 444
75.50	76.50	FAULT ZONE Fault zone @ 35° tca: scricite + chlorite + quartz + hematite + calcite; upper contact marked by 1 cm buff-white quartz vein with sharp, chlorite + sericite slip boundaries.			,					
		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 vernlets, 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 11648 11649	77.00 78.00 79.00	78.00 79.00 80.00	1.00 1.00 1.00			0.01 ní) 0.02	ι,
		 Pauli (a fur ica; mud sin; very strongly deformed scricite + chlorite schist 2 cm wide with mud gouge on slip planes. 82.30 Fault (a 20° ica: chlorite + sericite + quartz + calcite; 3-5 mm 	11650	80.00 81.00	81.00 82.25	1.00 1.25			nii 0.01	
		wide fault with a 1-2 mm quartz + calcite veinlet. 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 11653 11654	82.25 84.50 85.50	83.50 85.50 86.50	1.25 1.00 1.00			0.01 U.02 nji	



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INTE	RVAL	DESCRIPTION					SAN			ACCANC	
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au	ADDA 15	A * 14
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 breecia veins with wallrock inclusions up to 1.5 cm. 94.00 - 94.45 Fault breecia (6, 50° tea: white to pink breeciated quartz tragments	68()9 6810 6811 6812 6813 6814 6815 6816 6817	86.50 87.00 88.00 90.00 91.00 92.00 93.00 94.03	87.00 88.00 90.00 91.00 92.00 93.00 94.00	0.50 1.00 1.00 1.00 1.00 1.00 1.00 1.00	<u> </u>	Sericitized Lapilli Tuff with 3 - 5% tate quartz veining	0.05 nil 0.02 nil 0.01 0.01 nil 0.02	0.07	AU'M
94.45	ક ર,ક્વ	MUDSTONE / GRAYWACKE Massive, aphanitic, dark to light green mudstone with very minor intercalated graywacke interbeds which display sharp but irregular contacts.	0817	94.00	94.50	0.50		Chloritic fault breccia	0.04	0.05	
		 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. 	6818 6819 6820 6821 6822 6823 6823 6824	94.50 95.00 96.00 97.00 97.50 98.00 99.00	95.00 96.00 97.00 97.50 98.00 99.00 99.90	0.50 1.00 1.00 0.50 0.50 1.00 0.90		Strong mud break in Mudstone	0.02 0.03 0.02 0.09 nil 0.01 0.02	0.10	•
99.90	103.80	BLEACHED ASII-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 6826 6827	99,90 100,50 101,00	100.50 101.00 102.00	0.60 0.50 1.00		Bleached sericitized Tuff	0.01 0.01 0.02		



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BATTLE MOUNTAIN (CANADA) INC.

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INTER	RVAL	DESCRIPTION					SAM	PLE		ASSAYS
FROM	TO		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au,Check Au*M
		brecciated texture in places; lower contact is very sharp chlorite slip @ 40° tca.	6828 6829	102.00 103.00	103.00 103.80	1.00 0.80			0.02 0.01	0.03
103.80	117.40	MUDSTONE / GRAYWACKE Massive to weakly bedded, dark green to yellow-green aphanitic mudstone with intercalated graywacke (conglomerate) beds from 1 cm to 0.5 metres wide with sharp but very irregular contacts.	6830 6831 6832	114.00 115.00 116.00	115.00 116.00 116.50	1.00 1.00 0.50			0.03 0.01 0.01	
		 116.50 - 117.40 Cut by 3-5% quartz veinlets, weakly sericitic. 116.90 - 116.92 Fault @ 45° tca; 1-2 cm wide laminated quartz + chlorite in foliated, sericitic graywacke. 	6833	116.50	117.40	0.90			0.03	
	117.40	Е.О.Н.								
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PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 7-8 1990	EASTING	8000.00	DEPTH	AZIMUTH	DIP
TOWNSHIP CLAIM No. STARTED COMPLETED PURPOSE COMMENTS	Teck L 477299 / 491651 November 5, 1990 November 7, 1990 To test '99' structure, IP anomaly and 99-8030 Gold Zone No anomalous assays	LOGGED BY SIGNED BY DRILLED BY SURVEYED BY CORE LOCATION	Mark Masson W Ben Heath & Sherwood K.L. Warehouse	NORTHING - ELFVATION LENGTH UNITS CORE SIZE	9840.00 99.55 metres NQ	Collar 38.00 76.00 96.00	341	45 45 42 40

		SUMMA	RY LOG		ASSA	r	
INTER	VAL	DESCRIPTION	INTERVAL	DESCRIPTION	INTERVAL	1 ENOTH	AVERAGE
From	То		From To		From To	in metres	Au en
	1.00					· · · · · · · · · · · · · · · · · · ·	
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					, i
22.25	23.33	ASH TUFF					
23.33	28.35	CONGLOMERATE					
28.35	43.50	ASH TUFF					••
43.50	44.60	LAPILLI TUFF					
11 (1)	47.20	AT TERED ASH THEE / MUDSTONE					-
11.00	11.20	Sariakia AS 10					
47.30		Schulle, 0.5 · 1% pyrile					
47.20	24.02	ALTERED ASH • / LAPILLI TUFF		N			
		Hemainie					
54.65	56.85	ALTERED ASH TUFF					
		Sericitic, trace pyrite					
56.85	63.25	CONGLOMERATE			<i></i>		
63.25	99.55	COARSE LAPILIJ - / BLOCK TUFF				1	
,		Strongly magnetic				1	
		69.00 · 77.40 5 · 10% quartz veining				,	
		The second second second		$\mathbf{u}_{1}^{(1)} = \mathbf{u}_{1}^{(1)} = \sum_{i=1}^{N} \mathbf{u}_{i}^{(1)}$			

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INTE	RVAL	DESCRIPTION					SAN	1PLE		ASSAYS	
FROM	то		No.	FROM	то	Length	57 Rec	DESCRIPTION	Au, g/t	Au,Check	Au*M
0.00	1.80	CASING									
1.80	11.95	GRAYWACKE Massive, light to dark green, with a few minor coarse pebbles in places; 60% rock fragments (polymictic), including jasper and minor fuchsitic clasts, 20% quartz and 20% feldspar; cut by 1-2% white-pink quartz veinlets; top 2 metres is moderately to strongly ankeritic.									
		4.70 - 4.80 Chlorite breccia: angular wall rock clasts up to 2 cm in a black, aphanitic, chlorite groundmass; lower contact is a sharp sericitic slip with < 1 cm wide chlorite breccia vein @ 50° tca.									
11.95	14.20	MUDSTONE Massive to weakly bedded, dark grey to green, aphanitic mudstone; bedding is evident as irregular, wispy, dislocated, light grey beds from 1-3 mm wide at 15°-45° tea; lower contact of unit is very sharp but irregular @ 15° tea.									
14.20	15.50	LAPILLI-TUFF Moderately well foliated (45° tca) light green lapilli-tuff; matrix is quite soft (sericitized) and very fine grained and comprises 85% of the unit; clasts are quite clongated (elliptical) parallel to foliation and are comprised of dark green to buff, fine grained trachyte and very fine grained red-pink trachyte; locally strongly magnetic due to the presence of (<= 0.5 mm) anhedral magnetite crystals; lower contact is sharp, rusty chlorite + ankerite slip @ 50° tca.	6834 6835	14.00 14.70	14.70 15.50	0.70 0.80		Mudstone / Lapilli Tuff at contact zone Sericitic Lapilli Tuff	ail 0.01		-
15.50	22.25	CONGLOMERATE Massive, undeformed polymictic pebble/cobble conglomerate; matrix is fine grained dark green to black of $60-70\%$ very fine (< = 0.5 mm) rock fragments in an aphanitic groundmass; clasts are well rounded, poorly sorted and range from 2-3 mm to 5 cm and are quite variable in lathology types and textures; lower contact is very sharp (g									

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INTE	RVAL	DESCRIPTION					SAN	1PLE		ASSAYS	
FROM	то	,	No.	FROM	то	Length	% Rec	DESCRIPTION	Au, gh	Au,Chock	Au*M
		60° tea and marked by a 3 mm wide sericitic slip.						• • • • • • • • • • • • • • • • • • •			
22.25	23.33	ASII-TUFF Massive, fine to very fine grained, dark brown and quite hard; contains $< 0.5\%$ lapilli sized clasts up to 1/2 cm which are very fine grained light brown trachyte; lower contact is very sharp @ 50° tea; unit is strongly magnetic.		•	, ,			2 -			
23.33	28.35	CONGLOMERATE Massive, dark green to black, polymictic pebble conglomerate; matrix of 60-70% rock fragments in a very fine grained greytsh white groundmass; clasts are moderately well rounded, poorly sorted and range from 2-3 mm to > 5 cm, and although quite variable in composition the most prominent clasts a quite large, reddish-brown porphyritic trachyte which are quite often fractured and broken; lower contact of unit is gradational and somewhat subjective.				-					
28.35	43.50	ASH-TUFF ¹ Massive, fine to very fine grained, and quite variable in colour, from dark green to dirty brown and in texture from very fine grained ash, to a fine grained crystal-tuff to a clast poor lapilli-tuff, all displaying very gradational contacts.									
		 34.00 - 34.20 Fault @ 52° tca. 34.00 - 34.10 Rusty weathered ankeritic zone with numerous chloritic sutures and slip planes; visible magnetite crystals (<<0.5 mm) are evident within carbonatized zone and within adjacent wall rock. 34.10 - 34.20 1 cm wide pink-white quartz + calcite vein within well foliated, chlorite ash tuff. 36.40 - 37.45 Crystal-tuff (?) of 15-20% pale green altered, broken to cuhedral crystals (altered augite or feldspars ?) in a dark green, aphanitic groundmass; all variations of this unit are strongly magnetic. 	6836 6837	33.00 34.00	34.00 34.50	1.00 0.50		Ankeritic, weathered shear	0.01 0.01		

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INTE	RVAL	DESCRIPTION					SAN	IPLE		ASSAYS
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, gh	Au,Check Au*M
		 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. 	6844 6838	40.80 43.00	41.20 43.50	0.40		Fault zonc	0.01 0.01	nil
43.50	44.80	 LAPII.LI-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. 44.60 - 44.80 Fault zone; well foliated purple-green (hematite + sericite) ash-tuff with sharp, tight sericite slip boundaries. 	6839 6840	43.50 44.50	44.50 45.00	1.00 0.50		Hematite + sericite shear zone	0.01 0.02	0.01
44.80	47.20	ASII-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 $0.5\% \cdot 1\%$ disseminated pyrte throughout; very nondescript, massive unit, weakly sericitic with minor pyrte; lower contact of unit is faulted (ϕ 70° tea by a 1.5 cm breeciated quartz ± calcite vein cemented by an aphanitic chlorite + sericite groundmass.	6841 6842 6843	45.00 46.00 46.50	46.00 46.50 47.20	1.00 0.50 0.70		Ash Tuff / Mudsione with 0.5% pyrite	0.03 0.03 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-tuft, but finer grained and in places well bedded @ 60° tea; unit is moderately to strongly magnetic.	6845 6846 6847 6848	47.20 48.00 53.00 54.00	48.00 49.00 54.00 54.60	0.80 1.00 1.00 0.60			0.01 0.01 0.01 0.02	

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INTE	RVAL	DESCRIPTION					SAN	IPLE		ASSAYS
FROM	то		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au.Check Au*M
		52.60 - 52.65 Fault (<i>a</i> 55° tea; chlorite + sericite + quartz; fault boundaries are sharp, tight chlorite slips; interstitial material is well foliated with wispy sericite and 3-4 mm wide white quartz veinlets.								
54.65	56,85	SERICITIZED ASH-TUFF Massive to moderately well foliated, yellow-green and contains $\leq = 1\%$ coarse lapilli sized clasts; matrix of 25% pale green, altered clasts up to 1 mm, in an aphanitic, grey-white sericitized groundmass; matrix also contains 2-3% grey-white specks ($\leq = 0.5$ mm) of sericite, which also occurs in selective clasts; unit is non-magnetic, with trace pyrile; upper contact in a sharp sericite + quartz slip @ 60° tca; lower contact is somewhat gradational with well rounded pebble clasts in sericitic tuff @ 56.80 to 56.85 m.	6849 6850 6851	54.60 55.20 56.00	55.20 56.00 56.90	0.60 0.80 0.90	•	Scricitized Tuff	0.01 nil nil	
56.85	63.25	CONGLOMERATE Massive, undeformed polymictic pebble conglomerate; clasts form 40-50% of unit and are angular to well rounded, poorly sorted, and up to > 10 cm in size; clast types include jasper, feldspar porphyry, mafic volcanics, etc.; lower contact of unit is a sharp, tight, sericite slip.								r
63.25	¥9.55	 COARSE MONOLITHIC LAPILLI-TUFF / BLOCK-TUFF This unit is very distinctive and is comprised of bright red-pink, fine grained to porphyritic trachyte clasts, which range in size from 1 mm to 50 cm, in a fine grained dark green matrix which is comprised of the same trachytic clasts but much finer grained; unit is quite hard, massive (crudely bedded on surface) and appears to have undergone some brittle failure as it is stockworked by 5-15% buff-white to pinkish quartz vens 1-2 mm to 2 cm wide at all angles tca; unit is also strongly magnetic. 69.60 - 69.75 Quartz vein: irregular buff white to pink anastomosing quartz vein with semi-massive wall rock within vein; vein boundaries are sharp, tight chloritic slips (a 50° tca. 		69.00 69.50 70.00 71.00	69.50 70.00 71.00 72.00	0.50 0.50 1.00 1.00		Coarse Lapilli - / Block Tuff with 5 - 10% quartz stockwork	0.02 0.01 0.01 0.01	0.01

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INTE	RVAL		DESCRIPTION					C A L	(D) D		- 00 + 1/6		-
FROM	то	1	DESCRIPTION	No	FROM		Length	SAN # Pac	DESCRIPTION		ASSAYS	<u> </u>	_
FROM	то 99.55	74.35 - 77.40 76.60 - 77.40 77.30 E.O.H.	Becomes weakly bleached and is cut by numerous chlorite + sericite slips up to 0.5 cm wide; Cut by 15-20% massive and fractured (chlorite sutures) buff white to pink quartz veins up to 10 cm wide. 1 cm vuggy, pink quartz + carbonate vein @ 30° tca with a 1 cm, pseudo-brecciated chalcopyrite clot with malachite staining.	No. 6856 6857 6858 6859 6860 6861 6862 6863 6864	FROM 72.00 73.00 74.00 75.00 76.00 76.50 77.40 78.00 79.00	TO 73.00 74.00 75.00 76.50 77.40 78.00 79.00 80.00	Length 1.00 1.00 1.00 0.50 0.90 0.60 1.00 1.00	% Rec	DESCRIPTION 15 - 20% quartz veins with minor chalcopyrite	Au, g/t nil 0.03 0.01 0.01 nil 0.01 0.02 0.03 0.01	Au,Check	Au*M	
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PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 10 1990	EASTING	8050.00	DEPTH	AZIMUTH	DIP
TOWNSHIP CLAIM No. STARTED COMPLETED PURPOSE	Teck L 500058 / 491651 November 7, 1990 November 8, 1990 To test '99' structure and 99-8030 Gold Zone	LOGGED BY SIGNED BY DRILLED BY SURVEYED BY CORE LOCATION	Mark Masson W. B Heath & Sherwood K.L. Warehouse	NORTHING ELEVATION LENGTH UNITS CORE SIZE	9845.00 90.17 metres NQ	Collar 38.00 76.00	341	45 43 43
COMMENTS	No anomalous assays							

	SUMM	ARY LOG		ASSAY SUMMARY			
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/1	
0.00 4.50 4.50 5.30 5.30 14.44 14.40 16.5;	CASING CONGLOMERATE ASII TUFF CONGLOMERATE 16.35 - 16.55 Fault @ 52º ICa						
16.55 37.00 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 47.00 49.20 49.20 54.4: 54.45 90.1	ALTERED ASH TUFF Sericitic CONGLOMERATE ASH TUFF COARSE LAPHLLI + / BLOCK TUFF 5% white to pink quartz veinlets						
90.11	E.O.H.				ļ		

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BATTLE MOUNTAIN (CANADA) INC. DIAMOND DRILL LOG

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INTERVAL		DESCRIPTION		SAMPLE					ASSAYS			
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/1	Au,Check	Au*M	
0.00	4.50	CASING					<u> </u>					
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° tca 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 (a 30° tea.										
		 7.65 - 8.35 Fault (a '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). 8.10 - 8.35 Rubbly, ground core (30-40% recovery). 	6865	7.60	8.50	0.90	65	Ankeritic shear with minor quartz	0.01	0.02	•	
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 (g. 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			

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INTERVAL						ASSAYS					
FROM	то			No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/1	Au, Check Au*M
16.55	37.00	ASII-TUFF Massive, very fi pale green, trac unit is very stro mm) are eviden throughout; loo	ne grained, dark green to brown and appears to consist of 60-70%, hytic rock fragments ($\leq = 0.5$ mm) in a dirty aphanitic groundmass; ongly magnetic and in places 1-2% visible magnetite grains ($\leq = 0.5$ nt; also contains the odd lapilli sized clast, randomly distributed wer contact is faulted (a 40° tca.				•				
		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.	6867 6868	27.00 27.50 34.00	27.50 28.40 34.90	0.50 0.90			0.01 0.01	
		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.	6870 6871 6872 6873	34.90 35.40 35.90 36.50	35.40 35.90 36.50 37.00	0.50 0.50 0.60 0.50		Hematitic Fault	0.01 0.03 0.01 0.01	0.03
37.00	45.50	HEMATIZED I Massive, media sericite bleachir pinkish-red trac	APILLI-TUFF im grained with characteristic reddish-purple colour and patchy ng proximal to quartz veinlets and sericite slips; comprised of 25% thyte clasts (1-3 mm) in a very fine grained, hematized groundmass.			I					• • •
		37.00 - 37.25	Fault @ 55° tca; well foliated to schistose hematitic tuff with strong sericite and sericite + quartz slip planes.	6874 6875 6876	37.00 37.50 38.50	37.50 38.50 39.00	0.50 1.00 0.50		Scricitic Fault Zonc Hematized Lapilli Tuff	0.01 0.02 0.03	0.01
-		39.00 - 40.40	Selective pyrite replacement (coarse, clots) in sericitized lapilli clasts.	6877 6878	39.00 39.50	39.50 40.40	0.50		Hematized Tuff with minor clotty pyrite	0.01 0.02	

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INTE	RVAL		DESCRIPTION					SAN	IPLE ·		ASSAYS	
FROM	то			No.	FROM	то	Length	4 Rec	DESCRIPTION	Au, g/t	Au,Check	Au'M
		40.40 - 40.85	Sericitized tuff, zone is light yellow-green with dark green, angular lapilli clasts with spotty sericite; matrix is pervasively sericitized and contains $< 0.5\%$ finely disseminated pyrite; upper contact is sharp sericite + quartz slip (a 40° tea while lower contact is gradational; zone also contains a 2 cm wide chlorite breecia vein with angular	6879 6880	40.40 41.00	41.00 41.50	0.60 0.50		Sericitized Tuff with < 0.5% pyrite Hematized Tuff	0.04 0.03		
		41.50 - 42.50	wall rock clasts in a dark green, aphanitic chlorite groundmass. Sericitized tuff, of patchy to pervasive sericite ± quartz bleaching cut by secondary quartz veinlets (1-3 mm) and quartz + chlorite suture planes with small scale movements evident.	6881 6882 6883 6884 6885	41.50 42.50 43.00 44.00 45.00	42.50 43.00 44.00 45.00 45.50	1.00 0.50 1.00 1.00 0.50		Bleached Tuff with 2 - 3% quartz	0.02 0.02 0.02 0.02 0.02 0.02		
45.50	47.00	SERICITIZED Massive to we interbedded sil soft, aphanitic and pervasively lower contact i	ASH-TUFF ell bedded (60° tea) (me grained, light green ash with narrow istone layers up to 0.5 cm; these silistone / mudstone layers are very and display convoluted and disrupted bedding; unit is non-magnetic sericitized; upper contact is sharp sericite + quartz slip @ 40° tea; s also sharp but appears to be more of an alteration front.	6886 6887	45.50 46.50	46.50 47.00	1.00 0.50		Sericitized Ash Tuff	0.01 0.01		`
47.(X)	49.20	POLYMICTIC Coarse grained in a very fine g matrix; unit is (<= 1 mm) m	PEBBLE CONGLOMERATE , polymictic pebble conglomerate with well rounded clasts up to 6 cm rained graywacke matrix and also as pebble clasts within trachytic ash also intercalated with fine grained well bedded graywacke with thin agnetite beds.	6888	47.00	48.00	1.00		Intercalated Conglomerate + Wacke	0.01		•
49.20	54.45	ASH-TUFF Massive, fine to clasts scattered comprised of 5 matrix; lower c	o very fine grained, dark green to brown, with 1% angular lapilli sized I throughout; moderate to strongly magnetic and appears to be 0-60% very fine trachytic rock fragments in a dirty brown, aphanitic ontact is 0.5 cm wide chlorite + sericite slip @ 55° tca.									

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INTE	RVAL	DESCRIPTION			ASSAYS					
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/1	Au, Check Au*M
54.45	90.17	COARSE MONOLITHIC LAPILLI-TUFF / BLOCK TUFF Very distinctive unit, with 10-20% red-pink, angular trachytic clasts (fine grained to porphyritic) in a dark green, fine grained matrix comprised of fine, red trachytic fragments in a green-white aphanitic groundmass; clasts range in size from 2-3 mm to 10 cm with little to no preferred orientation; moderately to strongly magnetic; it is cut by 5% late, white-pink quartz veinlets (1 mm - 1 cm) with one set @ 45° tca which is cut by a later set at almost right angles to the previous vein set; very massive, undeformed, unaltered.								
	90.17	E.O.H.								
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HOLE: AK-90-14

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 12 1990	EASTING	8100.00	DEPTH	AZIMUTH	DIP
TOWNSHIP CLAIM No. STARTED COMPLETED PURPOSE	Teck L 500058 / 491651 November 8, 1990 November 10, 1990 To test '99' structure 70 metres	LOGGED BY SIGNED BY DRILLED BY SURVEYED BY CORE LOCATION	Heath & Sherwood K.L. Warehouse	NORTHING ELEVATION LENGTH UNITS CORE SIZE	9835.00 99.45 metres NQ	Collar 38.00 76.00	341	45 44 44
COMMENTS	east of 99-8030 Gold Zonc No anomalous assays			1	' `			

	SUMMAN	RY LOG		ASSAY SUMMARY			
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENOTH in metres	AVERAGE Au g/1	
0.00 2.13 2.13 6.55 6.55 18.40 18.40 25.90 25.90 28.55 28.55 31.00 31.00 35.50	CASING GRAYWACKE / MUDSTONE ASH TUFF CONGLOMERATE ALTERED ASH TUFF Hematitic ASH TUFF LAPILLI TUFF	99.45	Е.О.Н.				
35.50 44.75 44.75 46.85	ALTERED ASH TUFF Hematitic to sericitic COARSE LAPILLI TUFF						
46.85 60.00 60.00 61.60	ALTERED TUFF Bodding @ 60° tca , sericitic ALTERED TUFF Hematitic						
61.60 71.75 71.75 99.45	ALTERED LAPILLI TUFF Scricitic, 0.5% pyrite COARSE LAPILLI - / BLOCK TUFF				: I		

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INTE	RVAL	ŀ	DESCRIPTION		1	•)		SAN	IPLE		ASSAYS
FROM	то		· · · · · · · · · · · · · · · · · · ·	No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/l	Au,Check Au*M
0.00	2.13	CASING									
2.13	6.55	GRAYWACKE Massive to well - 0.5 cm) mud moderate anke rubbly; lower o slip plane @ 5	/ MUDSTONE I foliated, light grey to green fine grained graywacke with thin (2 mm is latone beds and rip-up clasts; bedding / foliation @ 60° -70° tea; rite staining, especially at top of hole which is quite fractured and ontact of unit is rubbly core but appears to be faulted along a sericite 5° tea.								
		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 (i) 60° tea: 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, light scricite slips and bounded by tight (1 mm) scricite	6891	5.50	6.00	0.50		10 cm laminated quartz vein in foliated Graywacke	0.01	
6.55	18.40	ASH-TUFF Massive, very fi defined by very with narrow (+ chlorite + ankerite slip planes. ine grained, dark brown to green, in part weakly bedded @ 40° ica as / narrow (<1 mm) irregular magnetite beds, and in part intercalated up to 0.5 mJ, clast rich handlibutf horizon with very gradational	6892	6.00	6.50	0.50		Well foliated sericitic Graywacke	0.01	
		contacts; lowe	r contact of unit is very gradational.			ı					
		6.55 - 10.00	Stockwork of 5% white-pink-purple quartz veinlets (1 mm - 4 mm wide) which occastonally display a light brown alteration halo 1-2 mm wide; focally very minor, coarse clotty pyrite.	6893 6894 6895 6896	6.50 7.00 8.00 9.00	7.00 8.00 9.00 10.00	0.50 1.00 1.00 1.00		Ash Tuff with 2% quartz veinlets	nii 0.06 0.03 0.01	
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BATTLE MOUNTAIN (CANADA) INC. DIAMOND DRILL LOG

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INTE	RVAL	DESCRIPTION			'		SAM	1PLE		ASSAYS	
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/1	Au,Check	Au*M
18.40	25.90	CONGLOMERATE Massive, polymictic conglomerate of 10-15% moderately well rounded clasts up to 5 cm (very poorly sorted) of volcanic rocks, quartz-porphyry, jasper etc.; matrix is some what variable from graywacke (50% lithics, 25% feldspar, 25% quartz) to a		•							
		fine grained hematitic ash tuff comprised of fine trachytic rock fragments; locally strongly magnetic; lower contact is a sharp tight sericite + ankerite stip 60.25° (co	6807	22.00	12 O ()	0.00					
			0077	22.00	66.70	0.70		Tuff	0.01		
		23.00 + 23.22 Chlorite ± quartz breccia; angular wall rock fragments up to 2 cm in a black, aphanitic chlorite groundmass; in part cemented by late pink quartz ± calcite interstitial to wall rock fragments.	6898	22.90	23.40	0.50		Chlorite Breccia + quartz + calcite cement	0.01	0 .01	
25.90	28.55	HEMATIZED ASH-TUFF Massive to well bedded at 50° tca, very fine grained with minor coarse lapilli-tuff horizons; dark purple (hematized) and cut by 2% white-grey quartz veinlets, 1-3 mm wide, with light brown diffuse alteration (scricite) halos, with up to 1 cm wall rock penetration which gives unit a blotchy colouration; in places non-sericitized,			· .						
		contains 2% primary (?) magnetite as disseminated grain and as narrow beds (1-2 mm); lower contact is marked by a sharp sericite slip @ 50° tea.									
28.55	31.00	ASII-TUFF Light to dark green, massive, very fine grained with 2% fine magnetite crystals disseminated throughout; the same horizon as at 25.90 - 28.55 but not hematized; lower contact is gradational.	68,99	30.00	31.00	1.00		Massive Ash Tuff	níl		
31.00	35.50	LAPILLI-TUFF Massive to weakly foliated @ 45° tca, 5-10% angular trachytic clasts up to 2 cm (avg. 1 cm), dark green to buff in a fine grained, dark green trachytic-ash matrix; intercalated with minor pebble conglomerate interbeds up to 25 cm wide with very gradational contacts; lower contact of unit is very sharp @ $45^{\circ}-50^{\circ}$ tca.		•							

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INTE	RVAL	DESCRIPTION			.	· · · · · · · · · · · ·				
FROM	TO	DESCRIPTION	- <u></u>				SAN	IPLE		ASSAYS
TROM			No.	FROM	то	Longth	% Rec	DESCRIPTION	Au, g/l	Au, Check Au'M
<i></i>		31.45 Fault (a 40° tca: sericite + chlorite; sharp, 1 cm wide sericite + chlorite slip and a prominent foliation developed for 0.5 metres on	6900	31.00	32.00	1.00		Altered Lapilli Tuff with fault zone	0.02	
		either side of slip; 5-10% wispy sericite + hematite alteration for up to 25 cm in wall rock.	6901 6902 6903	32.00 33.00 34.00	33.00 34.00 35.00	1.00 1.00		Massive Lapilli Tulí	nil .0.01	
			6904	35.00	35.50	0.50			nil	
35.50	44.55	HEMATIZED ASII-TUFF								
		Massive, very line 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	6905 6906 6907	35.50 36.00 37.00	36.00 37.00 38.00	0.50 1.00 1.00			0.02 0.01 0.01	0.01
		display irregular alteration (scricite) halos which produces dirty, motifed texture; in places white feldspar clois 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 scricitized and hematized, this unit is still strongly magnetic; lower contact is a fault.	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 6910	39.00 39.50	39.50 40.10	0.50 0.60		Pseudo-brecciated Tuff Pseudo-brecciated Tuff + fault zone	nil 0.01	0.01
		39.85 - 40.00 Fault (a 50° tca; 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 \pm quartz; strongly deformed, laminated to schistose with 20-30% wispy sericite + chlorite and 2 stages of quartz veinlets:	6912	44.55	45.05	0.50		Fault zone	nil	
		 Parallel to schistosity; Later cross-cutting quartz ± chlorite veinlets (1-2 mm). 							I B	

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INTE	RVAL	DESCRIPTION			<u> </u>		SAM	IPLE		ASSAYS
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, gh	Au,Check Au*M
		Contains 4 cm wide aphanitic pink feldspar (?) vein which is cut by sericite slips and late, cross-cutting quartz veinlets.								
44.75	46.85	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 6914	45.05 46.00	46.00 46.90	0.95 0.90		Massive bleached Lapilli Tuff	nil 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 $@.60^{\circ}$ tea; matrix is very fine grained altered, sericitized rock fragments in a bleached aphanitic scricitized 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, scricitic 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 6916 6917 6918 6919	46.90 48.00 49.00 50.00 51.00	48.00 49.00 50.00 51.00 52.00	1.10 1.00 1.00 1.00 1.00		Bleached sericitized Tuff	0.02 0.02 0.01 0.02 0.01	
		 52.55 Fault (a' 30° tca: chlorite + quartz; 1 cm fractured to brecciated quartz voin with sharp chlorite slip and chlorite cementing voin fragments. 53.45 - 53.50 Fault breccia (d' 40° tca: brecciated, white-pink 1 cm quartz vein, with dark green, aphanutic chlorite groundmass. 	6920 6921	52.00 53.00	53.00 54.00	1.00 1.00			nil 0.01	
		54.15 - 55.00 70% core recovery; blocky, rubbly core due to 0.5 cm chlorite + sericite + quartz + calcite slip sub-parallel tea.	6922 6923 6924	54.00 55.00 56.00	55.00 56.00 57.00	1.00 1.00 1.00	70	Blocky core - subparallel fault	0.01 0.01 nil nil	0.01

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INTE	RVAL		DESCRIPTION					SAM	IPLE		ASSAYS
FROM	10			No.	FROM	то	Longth	% Rec	DESCRIPTION	Au, g/l	Au, Check Au*M
				6926 6927	58.00 59.00	59.00 60.00	1.00 1.00			nii nil	
60.00	60.20	FAULT ZONE Fault zone @ 5 with strong mut	60-60° (ca; strongly deformed sericite + chlorite + hematite schist d-gouge on slip planes.	6928	60.00	61.00	1.00			0.02	
60.20	61.60	HEMATIZED T Dark red-purple a very fine grain	FUFF e, hematized tuff with 10-15% white feldspar masses up to 3 mm in ned matrix; lower contact is sharp and abrupt.	6929	61.00	61.60	0.60			nil	
61.60	71.75	SERICITIZED Light green to b and lapilli-tuffs matrix and as se green (luchsitic increase in coar magnetic, with 0.25 to 3 cm wi	IAPILLI TUFF prown to mauve, generally fine grained and massive intercalated ash- , with variable sericite alteration as pervasive and spotty sericite in ricite alteration of clasts within lapilli-tuff horizons, which are bright) in colour; lower contact is gradational and noted by sporadic (se, bright red lapilli or blocks within weakly sericitic ash-tuff; non- minor pyritic alteration replacement in some clasts. Sericite bands, de $@ 55^{\circ}$ tea with traces of pyrite at 67.10, 67.15 and 67.25			· ·					
		62.35 62.38 - 62.45 63.40 - 63.55 64.50 - 65.15	 0.5 X 3.5 cm lens of line grained massive pyrite. Grey quartz; carbonate altered section with 0.5% pyrite. Sericitic section foliated (a 55° tea; 2-3% finely disseminated pyrite in 10% grey quartz matrix. Four, 0.5 cm sub-rounded clasts of grey tuff with 2-3% disseminated pyrite. 	6930 6931 6932 6933 6934 6935 6936 6935 6936 6937 6938	61.60 62.10 62.60 63.10 63.70 64.50 65.00 66.00 66.60	62.10 62.60 63.10 63.70 64.50 65.00 65.00 66.60 66.60 67.30	0.50 0.50 0.60 0.80 0.50 1.00 0.60 0.70		Hematized Tuff with < 0.5% pyrite	0.02 0.06 0.02 0.01 0.01 0.01 0.02 nil	0.01

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INTE	RVAL	DESCRIPTION					SAN	IPLE		ASSAYS
FROM	10		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au,Check Au*M
			6939 6940 6941 6942 6943	67.30 68.00 69.00 70.00 71.00	68.00 69.00 70.00 71.00 71.75	0.70 1.00 1.00 1.00 1.00 0.75			0.01 0.01 0.01 0.01 0.01	
71.75	99.45	 COARSE MONOLITHIC LAPILLI-TUFF / BLOCK TUFF Very distinctive unit, with bright red-pink coarse trachytic clasts up to > 10 cm, angular to sub-rounded, in a dark green, fine grained, trachytic ash matrix; massive to crudely bedded and cut by 2-3% white-grey quartz veinlets (1-5 mm); this unit also becomes quite fine grained in places where it consists of 50-60% red lithic clasts (<= 1 mm) in an aphanitic, dark green matrix. 77.60 - 77.80 Fault; rubbly core; breeciated red, trachytic rock fragments up to 0.5 cm in an aphanitic, dark green chlorite + sericite groundmass. 	6944 6945	71.75 72.50	72.50 73.50	0.75 1.00			0.01 0.03	
	99.45	F.O.H.								
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PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 13 1990	EASTING	8200.00	DEPTH	AZIMUTH	DIP
TOWNSHIP CLAIM No. STARTED COMPLETED PURPOSE COMMENTS	Teck 1. 491663 November 10, 1990 November 11, 1990 To test '100' structure and low magnetic and IP anomalies No anomalous assays	LOGGED BY SIGNED BY DRILLED BY SURVEYED BY CORE LOCATION	Mark Masson Heath & Sherwood K.L. Warchouse	NORTHING ELEVATION LENGTH UNITS CORE SIZE	9970.00 102.75 metres NQ	Collar 38.00 76.00	341	45 45 43

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

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INTE	RVAL		DESCRIPTION					SAN	(D) E		A 66 A V6
FROM	TO	1		No.	FROM	то	Length	% Rec	DESCRIPTION	Au. e/1	Au.Check Au*M
0.00	0.60	CASING			٠	1					·····
0.60	33.15	COARSE MON Very distinctive, to sub-rounded, grained dark gro (<= 1 mm) in t	OLITINC LAPILLI-TUFF / BLOCK TUFF , massive, strongly magnetic, consisting of 15-20% coarse, angular very poorly sorted, dark red-pink, 0.1-10 cm trachyte clasts, in a fine een matrix of 15-20% fine grained, dark red trachyte rock fragments an aphanitic, chloritized groundmass.								
		3.70 - 4.20 1	Rubbly core due to diriy, open vuggy fault @ 15° tca; fault slips are open chloritic ± scricite with late white-pink quartz + calcite veining and cavity infilling	6946	. 3.00	4.00	∫ 1.00		Foliated Tuff with fault zones	nii	
		4.50 - 4.55	Fault $(6, 30^\circ)$ tea; chlorite + sericite + quartz + calcite; 4-5 cm wide chlorite + sericite schist with a 0.5-1 cm wide white-pink, quartz + calcite veinlet in centre of schist.	6947	4.00	5.00	1.00			nil	
		5.10 - 5.30 6.00 - 7.00	Rubbly core due to chlorite + ankerite slip at 5° tea. Strongly foliated (4.5° tea; clasts are notably fractured and broken while matrix has a dirty appearance due to an abundance of irregular chloritic sutures which gives matrix a micro-breceiated appearance	6948 6949 6950	5.00 6.00 6.85	6.00 6.85 7.30	1.00 0.85 0.45		Strong, tight mud break	nil nil nil	
		7.00 - 7.05 9.80 - 9.85 18.10	Fault (a 35° tca; strong, tight chloritic slip with fault gouge. Fault (a 45° tca; tight chlorite + scricite slips with 1-2 mm wide, white-pink quartz + calcite veinlets. Fault (a 40° tca; strong, tight break with abundant calcite and								
		23.70 - 33.15	minor boudinaged 1 mm quartz veinlets. Increasing deformation in the form of brittle fracturing of both matrix and framework which are cut by two or three stages of 0.1- 0.5 cm, white-pink quartz veins at 0°, 15° and 60° tca; matrix also contains abundant chloritic sutures which give rise to a weak, breeciated appearance.	6951 6952 6953 6954 6955 6956	22.00 23.00 23.50 24.50 25.50 26.00	23.00 23.50 24.50 25.50 26.00 27.00	1.00 0.50 1.00 1.00 0.50 1.00			0.01 nil 0.01 0.01 0.01	0.03

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INTE	RVAL	DESCRIPTION					SAM	PLE	· · · · · · · · · · · · · · · · · · ·	ASSAYS
FROM	TO		No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/1	Au,Check Au*M
		j	6957 6958 6959 6960 6961 6962 6963	27.00 28.00 29.00 30.00 31.00 32.00 32.50	28.00 29.00 30.00 31.00 32.00 32.50 33.10	1.00 1.00 1.00 1.00 1.00 1.00 0.50 0.60			nil nil nil 0.02 0.01 nil	
33.15	36.30	FAULT ZONE - MYLONITE Fault zone-mylonite @ 40° tca; very strongly deformed schistose to mylonitic fault consisting of sericite + chlorite + quartz \pm calcite \pm tale, as 10-15% irregular quartz masses and boudinaged veinlets within highly altered, dark to light green, chlorite + sericite + calcite \pm tale, 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 6965 6966 6967	33,10 34.00 35.00 36.00	34.00 35.00 36.00 36.50	0.90 1.00 1.00 0.50		Mylonite - fault zone	0.01 0.01 0.01 0.02	0.02
36.30	72.70	LAPILLI-TUFF Massive to moderately well foliated (0.50°) 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 hematite 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 (a) 23° tea.			,					
		 36.30 - 48.00 Hematized section, with some sporadic sericitic sections, and more quartz veining (2%) than the non-hematitic sections. 48.00 Light to dark green, chloritic. 	6968 6969 6970	36.50 37.00 37.50	37.00 37.50 38.50	0.50 0.50 1.00		Hematitic Lapilli Tuff 20 cm irregular white quartz mass in Tuff	nii 0.01 0.02	

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INTE	RVAL		DESCRIPTION					SAN	1PLE		ASSAYS
FROM	TO			No.	FROM	то	Longth	% Rec	DESCRIPTION	Au, g/t	Au,Check Au*M
				6971	38.50	39.00	0.50		Hematitic Lapilli Tuff with 2% quartz veins	0.01	· • • • • • • • • • • • • • • • • • • •
				6972	39.00	40.00	1.00		1 4	0.01	
1				6973	40.00	41.00	1.00			nil	
	1			6974	41.00	42.00	1.00			0.01	
				6975	42.00	43.00	1.00]	0.02	
		l		6976	43.00	44.00	1.00		1	0.01	
				1,169	44.00	45.00	1.00			0.01	
		61.55 - 63.00	Minor white albite veinlets up to 1 cm with coarse specularite and minor pyrite.	6978	61.50	62.00	0.50		Lapilli Tuff with minor albite veins with specularite and $< 0.5\%$ ovrite	nil	
				6979	62.00	62.50	0.50			0.01	0.01
				6980	62.50	63.20	0.70			0.01	0.01
		63.45 - 63.52	Fault (a) 35° tca; 2 to 3 cm, well foliated to schistose, sericite + quartz shear; $\leq 0.5\%$ pyrite in a 1 mm wide dark grey-green (quartz + chlorite) veinlet.	6981 6982	63.20 63.70	63.70 64.45 i	0.50 0.75		Fault with quartz + 0.5% pyrite	0.01 0.02	
		69.10 - 69.20	Fault (a) 30° tear massive white nink quarty voin with intercticiat								
	-	68.50 - 72.70	sericite + specularite slips; fault walls are sharp sericite slips. 2-3% wispy and spotty sericite in matrix.								
72.70	102.75	ASH-TUFF / L Massive to po intercalated lag and locally stre	APILLI-TUFF worly bedded, very fine grained, dark grey to green ash-tuff with billi-tuff beds up to 1 metre wide with gradational contacts, @ 30° tea ongly magnetic.	į							
		72.70 - 81.50 87.80	Up to 2-3% sericite alteration as wisps and spots throughout. Fault (a. 20° tea; strong light sericite slip with minor mud gouge.								

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INTE	RVAL		DESCRIPTION					SAN	IPLE		ASSAYS
FROM	то			No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/l	Au,Check Au [*] M
	102.75	92.00 - 98.80 94.50 - 95.10 98.00 E.O.H.	Weak to moderate light brown bleaching (scricite) halos around narrow (1-2 mm) white quartz veinlets; these alteration halos locally contain erratic, disseminated < 0.5% pyrite ; pervasive alteration (scricite \pm quartz). Fault breecia (hanging wall breecia?); very dirty dark green ash-tuff cut by 5% very irregular white-pink quartz veinlets which in turn have been breeciated by later quartz + chlorite veinlets and suures which locally gives unit a "crack and seal" texture; contains $0.5-1\%$ disseminated pyrite; lower contact is a sharp, tight mud (chloritic) break (a 20° tea; upper contact is gradational; therefore this appears to be hanging wall breecia (assuming fault dips southerly). Fault (a 25° tea; sharp, tight chlorite + scricite slip with wispy sericite penetrating wall rock up to 15 cm.	6983 6984 6985 6986 6987 6988 6989 6989	91.20 92.20 93.20 94.20 95.20 96.20 97.00 97.50 98.50	92.20 93.20 94.20 95.20 96.20 97.00 97.50 98.50 99.50	1.00 1.00 1.00 1.00 1.00 0.80 0.50 1.00 1.00		Massive Ash / Lapilli Tuff with patchy brown bleaching (sericite) and < 0.5% disseminated pyrite Fault breecia with 0.5 - 1% pyrite Buff brown to green Ash Tuff	0.01 0.01 0.02 0.02 0.02 0.01 0.01 0.01	0.03

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 14 1990	EASTING	8500.00	DEPT	H	AZIMUTH	DIP	
TOWNSHIP CLAIM No. STARTED COMPLETED PURPOSE	Teck L 477419 November 11, 1990 November 13, 1990 To test '100' structure, low magnetic and IP anomalies	LOGGED BY SIGNED BY DRILLED BY SURVEYED BY CORE LOCATION	W. Benham Heath & Sherwood K.L. Warehouse	NORTHING ELEVATION LENGTH UNITS CORE SIZE	10015.00 119.62 metres NQ	Colla 38.00 76.00 114.0	r))	341	45 44 42 40	
COMMENTS	No anomalous assays									

	SUMMA	RY LOG		ASSA	Y SUMMARY	SUMMARY	
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENOTH in metres	AVERAGE Au gh	
0.00 2.13 2.13 12.77 12.77 18.55 18.55 27.25 29.05 35.95 35.95 46.05 47.42 60.22 60.22 61.30 61.30 61.88 61.88 62.20 62.20 81.72	CASING COARSE LAPILLI TUFF CONGLOMERATE LAPILLI TUFF LAPILLI TUFF / CONGLOMERATE CONGLOMERATE Chloritic, carbonated, ± quartz, trace pyrite Well foliated (@ 55° tca LAPILLI to ASII TUFF HEMATITIC TUFF ALTERED CONGLOMERATE Sericitic, silicified ASII TUFF LAPILLI TUFF ALTERED LAPILLI TUFF Silicified, sericitic, 1% pyrite ALTERED CONGLOMERATE 62.20 - 64.70 10 - 15% sericite, 3 - 5% pyrite, 10 - 15% grey quartz	81.72 93.90 93.90 97.00 97.00 106.40 106.40 119.62 119.62	64.70 - 68.20 1 - 2% pyrite 68.20 - 72.80 < 1% pyrite 72.80 - 78.93 1 - 2% pyrite 78.93 - 81.72 2 - 3% pyrite, 3 - 5% quartz ASH TUFF 81.72 - 86.90 sericitic, 1% pyrite 86.90 - 93.90 weakly chloritic, hematitic CONGLOMERATE ASH TUFF ASH TUFF ASH TUFF to TUFF E.O.H.				



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INTEI	RVAL	DESCRIPTION			<u> </u>		SAM	IPLE		ASSAYS
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, gh	Au,Check Au*M
0.00	2.13	CASING								
2.13	12.77	 COARSE MONOLITHIC LAPILLI-TUFF / BLOCK-TUFF Coarse, lapilli- to block-tuff, 60% 2-10 cm sub-rounded, dark red and 10% 0.5-3 cm, sub-rounded, grey to dark green, trachytic clasts in (30%) dark green ash matrix; 1-2%, discontinuous quartz carbonate veinlets and gash fillings; strongly magnetic. 6.60 - 12.77 Decrease in the number of dark red large clasts with 70% medium grained ash- to lapilli-tuff matrix, 20% lapilli size clasts, 10% dark 								
		red clasts greater than 5 cm. 12.15 - 12.43 Fault zone, chloritic, broken core, fault gouge, moderately foliated @ 50° tca.								
12.77	18.55	CONGLOMERATE Rounded, 1.0-10.0 cm, closely packed, unsorted syenite, porphyritie-syenite, trachyte and jasper pebbles in a medium grained matrix (10%), strongly magnetic; intermixing of ash- tuff and pebble conglomerate 0.6 m from upper contact; lower contact broken.		·	·					
18.55	27.25	LAPILLI-TUFF 0.5 to 3 cm sub-rounded to sub-angular dark red trachytic clasts (25%) in a finer grained dark green tuffaceous matrix (75%); strongly magnetic.								
		 18.55 - 19.00 Brown-green, brecciated, chloritic matrix. 24.05 White, pink, grey, banded, 1.0 cm, quartz calcite vein @ 30° tca. 26.30 1.5 cm, white pink, grey, quartz calcite vein @ 40° tca; brecciated with 15% chloritic matrix. 27.23 2.0 cm, fractured, pink-white quartz chlorite ± carbonate vein @ 35° tca at lower contact of tuff unit. 								

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INTE	RVAL	DESCRIPTION					5A14			ACCAVE	
FROM	то		No.	FROM	то	Length	% Rcc	DESCRIPTION	Au. 2/1	Au.Check	Au*M
27.25	29.05	LAPILLI-TUFF / CONGLOMERATE 0.25 to 5 cm red trachyte and feldspar-porphyry clasts in a green tuffaceous matrix.	, .			<u> </u>					
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.									
		30.45Banded, 30 cm quartz-carbonate-chlorite vein @ 70° tca.32.552 cm quartz-calcite-chlorite veins @ 60° tca.33.500.5-2.0 cm grey quartz-carbonate vein @ 60° tca with trace pyrite.34.80 - 35.30Chloritic fault zone @ 50° tca with 25% white, salmon pink, 0.5-15cm quartz carbonate veining @ 40°-50° tca, trace pyrite.34.84 - 34.97	11572 11573 11574 11575 11576 11577 11578	29.00 30.00 31.00 32.00 33.00 34.00 34.70	30.00 31.00 32.00 33.00 34.00 34.70 35.40	1.00 1.00 1.00 1.00 1.00 0.70 0.70			nil 0.02 nil nil 0.01 0.01 nil		
35.95	46.05	 IAPILLI-TUFF / ASII-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, breeclated with dark green-black chloritic matrix. 37.37 - 32.55 Dark provide the provided for the provided for the provided for the provided based on the provided for the provid	11579	35.40	36.80	0.60			nil 0.01	nil	·
46.05	47.42	 51.51 - 51.55 Dark green-brown, fine grained, breeciated with dark green-black chloritic matrix. HEMATIFIC TUFF Red to dark red, hematitic, strongly magnetic tuff; trace pyrite, 1% 0.1 mm quartz veinlets; upper contact sharp alteration front (a 55° tea; lower contact gradational. 	11581 11582 11583	36.80 46.00 47.00	37.60 47.00 47.50	0.80 1.00 0.50			nil 0.01 nit		

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INTE	RVAL	DESCRIPTION					SAM	IPLE		ASSAYS	
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, gh	Au,Check	Au'M
47.42	60.22	ALTERED CONGLOMERATE									
			11584	47.50	48.50	£.00			nil	0.01	
		48.42 - 52.25 Green-brown-mauve, altered conglomerate; rounded to angular	11585	48.50	49.50	1.00			nil	0.01	
		pebbles in an altered, hard "silicified" graywacke matrix; 3-5%	11586	49.50	50.50	1.00			0.01		
		pervasive sericite; 1-2%, 0.1-0.5 cm, quartz veinlets; trace fine to	11587	\$0.50	51.30	0.80			nil		
	Į	S2 25 - 55 80 Blowbul satisfication conton soften and brown states to be	11588	51.30	52.25	0.95			nil		
		bard and silicrous: rounded to angular quarta arains in an altered	11589	52.25	53.00	0.75			nil		
]	sericilic matrix, with 10.15% sericite: <1% (11.) cm quartz	11590	53.00	54.00 55.00	1.00			nil		
		veinlets; trace disseminated pyrite; upper and lower contacts	11592	55.00	55.80	0.80					
	1	gradational.			00110	0.00	-		0.01		
		55.80 - 60.22 Brown to green to purple, hard "silicified" sericitic to hematitic	11593	55.80	\$6.50	0.70			nil		
		conglomerate with rounded to fractured angular pebbles in a quartz	11594	56.50	57,50	1.00			nil		
		+ scricite matrix; trace pyrite in matrix; pebbles consist of altered	11595	57.50	58.50	1.00			nil		
		matrix, perphythic-sychine and quariz; 3-5% sericite in tractured	11596	58.50	59,50	1.00			nil		
			11597	39.30	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		
				1.1	1						
61.30	61.88	LAPILLI-TUFF		1		`					
		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	LTERED LAPILLI-TUFF									
		lard, quartz-rich rock, weakly foliated (6.60° tca, fractured, cracked, 0.2 x 1.0 cm		61.70	62.20	0.50			nii		1
		quartz fragments; 5-10% sericitic matrix; 1% disseminated pyrite.	1			3.00					1
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INTE	RVAL		DESCRIPTION					SAN				
FROM	ТО			No.	FROM	то	Length	% Rec	DESCRIPTION	Au on	ASSAYS	
62.20	81.72	ALTERED CO Sheared, serici jasper, fuchsite a hard, quartz r 0.5 cm wide an	NGLOMERATE lic, pyritic conglomerate with sub-rounded to sub-angular, quartz, , trachyte, syenite and mudstone pebbles, 0.25-20 cm in diameter in rich, sericitic graywacke matrix; 5-15% sericite as wispy bands up to d in fractures throughout the matrix, foliated @ 50°-60° tca.			1.						
		62.30 62.20 - 64.70 64.70 - 68.20 68.20 - 72.80 71.84 - 71.95 72.80 - 78.93 74.35 78.12 - 78.93	 2-3 cm broken fault gouge @ 50° tca. 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 quarty-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. Altered conglomerate; hard; 1-2% finely disseminated pyrite; 3-5% sericite. <1% disseminated pyrite; trace medium grained pyrite; softer, 3-5% sericite. <1% disseminated pyrite; trace medium grained pyrite; softer, 3-5% sericite in matrix. White quartz-ankerite vein @ 45° tca with chlorite filled fractures; trace molybdenite (?) along fractures and vein contacts. 2-3% white trregular quartz-albite clots in matrix; hard, 1-2% disseminated pyrite, <0.5% medium grained pyrite. 0.5 cm fault gouge @ 55° tca. 	11601 11602 11603 11604 11605 11606 11607 11608 11609 11610 11611 11613 11614 11615 11616 11617 11618 11619 11620 11621 11622	62.20 63.20 63.70 64.20 64.20 65.20 65.20 65.20 65.20 65.20 65.20 65.20 67.20 68.20 70.20 71.20 72.20 72.80 73.80 74.80 75.80 76.80 75.80 76.80 75.80	62:70 63.20 63.70 64.20 64.70 65.20 65.20 65.20 67.20 68.20 67.20 70.20 71.20 72.80 73.80 75.80 74.80 75.80 74.80 75.80 74.80 74.80 74.80 74.80	0.50 0.50 0.50 0.50 0.50 1.00 1.00 1.00			0.02 0.02 0.02 0.01 0.01 0.01 0.01 0.01	0.01	

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INTE	RVAL	DESCRIPTION			· .		SAN	1PLE		ASSAYS
FROM	то		No.	FROM	то	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 11624 11625	79.40 80.10 81.00	80.10 81.00 81.75	10.70 0.90 0.75			0.03 0.03 0.02	
		 1.72 - 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. 6.90 - 89.35 Light brown to pink-brown; softer than above section; 1-2%, < 1 mm green chlorite input is trace purite. 		81.75 82.60 83.40 84.40 85.40	82.60 83.40 84.40 85.40 85.40	0.85 0.80 1.00 1.00			0.02 nii 0.01 0.02	
		 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 hematule, sericitic, 1-2% chlorite porphyroblasts. 	11631	86.40	86.90	0.50			0.01	0.01
93.90	97.00	CONGLOMERATE Rounded to sub-rounded, 0.25 to 5.0 cm, syenite, mudstone, trachyte, quartz, mafic volcanic and fuchsitic 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	ASII-TUFF Fine-medium grained, pink to light brown tuff with some 5-10 cm wide lapilli-tuff beds, sericitic, hematitic.							•	
		 97.00 - 99.55 3%, 0.1 to 15 cm, barren, white quartz + albite + ankerite veins and breecia zones. 98.62 - 98.60 2.10 cm, quartz + carbonate breecia veins with 0.2 to 3 cm, angular, altered, sericitic tuff fragments in 45% quartz-ankerite matrix. 		97.60 98.60	98.60 99.60	1.00 1.00			0.01	
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INTE	RVAL	DESCRIPTION			۱.		SAM	IPLE	[ASSAYS
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check Au*M
		 99.55 - 105.27 Breccia zone, 5% blue-green, 0.1 to 0.5 cm chlorite filled fractures in a breeciated, seriettic, hematitic, pink to light brown tuff; 1-2% barren, 0.2 to 2 cm quartz + ankerite veinlets; trace pyrite along chloritic fractures. 98.60 - 106.40 2-3%, 0.1 to 7.0 cm quartz + albite veins. 106.13 - 106.20 Barren quartz + albite + serieite vein at 70° tca. 	11634 11635 11636 11637 11638 11639 11640	99.60 100.60 101.60 102.60 103.60 104.60 105.30	100.60 101.60 102.60 103.60 104.60 105.30 106.40	1.00 1.00 1.00 1.00 1.00 1.00 0.70 1.10			0.01 0.02 0.01 0.01 0.01 ni1 0.01	0.01
106.40	119.62	 ASH-TUFF TO TUFF Massive, pink-green-brown ash-tuff to tuff; local, narrow 10 cm wide, hematitic lapilli-tuff beds; fining down hole over widths of 40-50 cm; 1-2%, 0.1 to 13.0 cm barren quartz + ankerite veins. 116.80 - 119.62 Bedding (a 70° tca defined by 0.1 cm dark magnetic beds. 117.73 - 117.86 Weakly foliated, quartz-ankerite vein (a 55° tca, with 15% brown, sericitic tuff fragments; trace pyrite in the tuff fragments; wall rock is weakly bleached over 10 cm at upper contact. 	11641	117.55	117.95	0.40			0.01	
	119.62	Е.О.Н.				·				

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***HOLE: AK-90-17

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 14 1990	EASTING	8370.00	DEPTH	AZIMUTH	DIP
TOWNSHIP	Teck	LOGGED BY SIGNED BY	M. Masson	NORTHING ELEVATION	10210.00	Collar	341	45
CLAIM No.	L 491663	DRILLED BY	Heath & Sherwood	LENGTH	56.55	38.00		43
COMPLETED	November 13, 1990 November 14, 1990	SURVEYED BY	K.L. Warehouse	UNITS CORE SIZE	metres NO			
PURPOSE	To test 102-8350 zone above							
COMMENTS	AK-90-04 102-8350 Mineralized zone intersected at 24.25 - 32.58m							

		SUMMA	RY LOG		ASS	Y SUMMARY	r .
INTER	RVAL	DESCRIPTION	INTERVAL	DESCRIPTION	INTERVAL	LENGTH	AVERAGE
From	10		From To		From To	in metres	Au g/i
0.00	2.50	CASING		34.95 - 36.00 sericitic	24.20 32.58	8.38	0.80
2.50	3.25	LAPILLE TUFF					
		Foliation @ 45° Ica			including		
3.25	13.65	ASH TUFF - / LAPILLI TUFF	56.55	E.O.H.			
13.05	19.30	ALTERED LAPILLI TUFF			24.20 24.90	0.70	1.55
10 20	21.25				24.90 28.00	3.10	0.21
17.50	24.23	Weakly altered			28.00 32.58	4.58	1.08
24.25	32.58	OUARTZ - PYRITE ZONE					
		$24.25 \cdot 24.70$ 1% finely disseminated pyrite					
		24.70 · 24.90 Ouartz preccia vein, 1 · 2% nyrite					
		24.90 - 26.50 1% pyrite					1 1
		26.50 - 26.92 3 - 5 ¹ % 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					1
32.58	34.95	SYENITE / ALTERED TUFF				1	
		Hematitic, gradational contacts	1				
34,95	56.55	LAPILLI TUFF					
L			1		1		1

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INTE	RVAL	DESCRIPTION				1	SAM	PLE		ASSAYS	 }
FROM	TO		No.	FROM	то	Longih	% Rec	DESCRIPTION	Au, g/1	Au,Check	Au*M
0.00	2.50	CASING									
2.50	3.25	LAPILLI-TUFF (DEFORMED & ALTERED) Moderately deformed and foliated (a 45° tea; sub-rounded, red-pink, 0.1-1 cm trachyte clasts in a highly altered, sericite + chlorite, matrix which is quite schistose and moderately ankeritic; trachyte clasts appear to have undergone some rotation and strain as displayed by clast fracturing and pressure shadows which give the rock a pseudo-augen texture.									
		2.80 - 3.00 Rubbly core (50% recovery); ground-up, rusty weathered, ankeritic tuff; leading edge of ground section is a 0.5 cm buff-brown quartz vein with minor ($<0.5\%$), coarse euhedral pyrite; lower contact is a sharp chlorite + sericite slip @ 40° tca.									
3.25	19.30	ASII-TUFF / LAPILLI-TUFF Light brown to buff to green, fine grained to aphanitic and quite strongly deformed and altered by varying degrees of sericitization; intercalated ash- and lapilli-tuff where recognizable; cut by numerous quartz + chlorite veinlets and micro-fractures which in turn are crosscut by later quartz + hematite veinlets all of which are $< =$ 0.5 mm to 2 mm wide; local patchwork appearance from relict, primary dark green, chloritic matrix in areas of sericite alteration (light brown) with diffuse alteration fronts; these areas of diffuse sericite alteration merge into a more intense, pervasive sericite alteration where primary textures are completely obliterated and the rock is light yellow green, very fine grained to aphanitic and quite soft.									
		 4.20 - 4.30 Fault @ 40° tca: chlorite + sericite + ankerite; 1 cm tight chloritic shear within well foliated, ankeritic tuffs. 5.55 - 5.70 Fault @ 35° tca: chlorite + sericite + ankerite; very strong mud gouge (chloritic) within highly foliated sericite + ankerite schist. 5.70 - 6.90 Parallel, chlorite breccia verns up to 1 cm @ 30°-35° tca; angular 		:	ı	•					

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INTE	RVAL	DESCRIPTION					SAN	(PI F		A 22 A 22 A	
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au,Check	Au*M
		 wall rock and occasional angular quartz fragments within a dark green, aphanitic chlorite groundmass. 6.90 - 7.40 5%, multiple quartz veins and quartz + hematite veins up to 3 mm wide. 7.75 Fault @ 25° tea; tight chlorite + sericite + ankerite slip plane 0.5 mm wide. 11.20 - 11.90 Fault @ 10° tea: chlorite + sericite + ankerite + quartz; strong, tight mud break sub-parallel to core axis with 0.5-1 cm, irregular quartz + ankerite vein on slip wall; entire zone is strongly sericitized with wispy and spotty sericite. 11.90 - 13.65 Fine grained, massive light brown, with 1% finely disseminated (<=0.5 mm) magnetite crystals in a strongly sericitized matrix. 13.65 - 19.30 Ahered lapilli-tuff of 5% coarse trachytic clasts up to 5 cm, with sharp to diffuse boundaries due to penetrative sericite alteration in a fine grained pale green to brown sericitized matrix (5-10% sericite). 			•						
19.30 - - 24.25	24.25 32.58	sericite). 19.30 Fault @ 35° tca; strong, tight chloritic mud break. IIETEROLITHIC LAPILLI-TUFF Massive to moderately well foliated (45° tca), light brown-green, with 10% angular, bulf-brown to pink to light green, 0.1-2 cm, fine grained to porphyritic trachyte clasts; matrix is fine grained, light brown to buff, 25% trachytic clasts (<= 1 mm) in an aphanitic, sericitized groundmass, with patches of magnetite grains up to 1%; although the unit is somewhat bleached and altered it is not very strongly deformed, unlike the previous units; pyritic zone is hosted within this lapilli-tuff unit. QUARTZ - PYRITE ZONE Variable from selective pyrite replacement of lapilli clasts, to wormy pyritic sutures, to disseminated pyrite and quartz + pyrite breecia veins; lower contact of sulphides is somewhat gradational with a few, narrow (1 mm) pyritic sutures in host rock.		22.00 23.00 23.50	23.00 23.50 24.20	1.00 0.50 0.70		Massive, bleached Lapilli Tuff	0.01 0.02 0.01		

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INTER	RVAL		DESCRIPTION					<u> </u>				
FROM	то		DESCRIPTION	No	FROM	TO	Length	SAN 62 Dag	DESCRIPTION	A.,	ASSAYS	
		24.25 - 24.70	Upper contact of zone is very vague and appears to coincide with sharp, tight ($\leq \pm 0.5$ mm) chlorite + quartz ship ($\geq 40^{\circ}$ tea; no pyrite is notable up hole; $0.5 \cdot 1\%$ very finely disseminated pyrite within sericitized tapilli tuff matrix and $\leq \pm 0.5\%$, $\leq \pm 0.5$ mm, pyrite within setuctive to 2000 methods in 0.25% .	6995	24.20	24.70	0.50	<u> </u>	Altered Lapilli Tuff with 1% disseminated and wormy pyritic sutures	1.13	AU, CRECK A	U'M
		24.70 - 24.90	green sericite schist with 2-3% disseminated and blebby pyrite. Multiphase quartz breccia vein of fractured and breeciated 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	6996	24.70	24.90	0.20		Quartz breccia vein, 1 - 2% disseminated and fracture filling pyrite	2.54	2.64	
		24.90 - 26.50	disseminated pyrite in matrix and as coarse pyritic clots ($\leq = 1 \text{ mm}$) with dark chloritic rims; overall pyrite content 1-2%. 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:	6997 6998	24.90 25.50	25.50 26.40	0.60 0.90		Pyritized Lapilli Tuff with 1% pyrite as replacement and fine disseminations	0.38 0.25		
		26.50 - 26.92	 Very fine grained pyrite within selective lapilli clasts with up to 10-15% of clast being replaced. Finely disseminated pyrite within matrix, but preferentially located within patchy, strongly sericitic zones within matrix; 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		Pyrite zone with 2 - 3% pyrite	0.24		

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IN 19915 I						-,			··· · ·····	······································
INTE	RVAL	DESCRIPTION					SAM	IPLE		ASSAYS
FROM	TO		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/1	Au,Check Au'M
		26.92 - 31.35 Pyrite mineralization as very discrete but patchy zones where wispy to semi-massive sericite is developed within altered tuff; these zones	7000	27.00	28.00	1.00		< 11% patchy pyrite in sericitized Tuff	0.04	
		are very irregular and contain 3.5% finely disseminated pyrite; very minor (<0.5%) pyrite as fine disseminations within the matrix of the unit.	7001	28.00	28.50	0.50			1.96	1.89
		28.70 - 28.85 Fault @ 15° tca: chlorite + quartz; laminated shear with 1-2 mm white-pink guartz ventets with interstitial anhanitic chlorite	7002	28.50	29.00	0.50		Sericitic Tuff with fault, << 0.5%	0.47	
		29.95 - 30.05 Fault @ 25° tca: chlorite + quartz; sharp tight chloritic shear with	7003	29.00	29.50	0.50		Sericitic Tuff	0.55	
		mariew (1-2 mill) white pairs quarks vermet.	7004	29.50	.40,10	0.60		Sericitic Tuff with 5% quartz and 0.5% disseminated pyrite and chlorite	1.21	
			7005	30.10	31.10	1.00		0.5 - 1% patchy pyrite in sericitic	1.30	1.30
		31.35 + 31.45 1-2 cm wide, blue-grey, breceiated quartz vein with wispy irregular, sericite and - 3-5% pyrite in breceia and along vein wall; wall rock is	7006	31.10	31.68	0.58		1 - 3% pyrite with blue gray	1.04	
		for 25 cm symmetrically around vein is cut by numerous sericite + pyrile sutures with 3-5% pyrite; overall pyrite content 1-3%.	7007	31.68	32.58	0.90		Sericitized Tuff with < 0.5% pyrite in sericite sutures	0.96	
32.58	,34.95	 SYENITE (RED ALTERED UNIT?) (ALTERATION FRONT) Massive, fine grained with distinct red-brown colouration; upper contact is gradational with increasing degree of reddening of the unit, which may in fact be an altered tuff; micro-fractured textured with wispy sericitic sutures (<<0.5 mm) surrounding red aphanitic matrix which includes 1-2% black lath shaped to irregular chloritized/masses; lower contact is faulted (a 35° tea by sharp chloritic slip with penetrating chlorite fractures (pseudo-breeciated) in wall rock (2-3 cm wide). 34.50 - 34.95 Lower contact of unit may also be gradational (red to green) with the first clear indication of lapilli tuff at 34.95 m. 	7008 7009 7010	32.58 33.50 34.50	33.50 34.50 35.00	0.92 1.00 0.50		Red altered unit (Syenite ?) Lower contact, gradational	0.07 0.02 0.01	
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INTEI	RVAL	DESCRIPTION					SAM	IPLE	ASSAYS
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/1 Au, Check Au*M
34.95	56.55	IAPILLI-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.			-				
		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.	7011 7012 7013	35.00 36.00 37.00	36.00 37.00 38.00	1.00 1.00 1.00		Sericitized Lapilli Tuff Massive Lapilli Tuff	nil 0.02 nil
		53.35 - 54.45 7 cm wide fault breecta (a 40° tea of angular, moderately sericitized wall rock tragments in a dark green chloritic groundmass.			• .				
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÷	56.55	Е.О.Н.							
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-HOLE: AK-90-18

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PROPERTY DEPTH Amalgamated Kirkland AZIMUTH DIP DATE LOGGED Nov. 15-16 1990 EASTING 8370.00 LOGGED BY M. Masson NORTHING 10185.00 Collar-341 45 TOWNSHIP Teck Heath & Sherwood SIGNED BY ELEVATION 38.00 45 CLAIM No. L 491663 DRILLED BY LENGTH 77.90 STARTED November 14, 1990 76.00 44 SURVEYED BY UNITS metres COMPLETED November 15, 1990 CORE LOCATION K.L. Warehouse **CORE SIZE** NQ PURPOSE To test 102-8350 Gold Zone above AK-90-04 and below AK-90-17 102-8350 zone intersected at COMMENTS 61.00 - 67.70m

	SUMMA	RY LOG		5	ASSA	Y SUMMAR	Y
INTERV From	AL DESCRIPTION	INTERVAL From To		DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g- /t
0.00 1 3.50 1 14.50 1 17.75 1 19.15 20 20.40 49 49.10 50 50.20 60 60.50 63	 CASING ASH TUFF - / LAPILLI TUFF CONGLOMERATE ASH TUFF - / LAPILLI TUFF CONGLOMERATE CONGLOMERATE ASH TUFF - / LAPILLI TUFF ASH TUFF - / LAPILLI TUFF FAULT ZONE @ 30° tca SERICITIC LAPILLI TUFF O PYRITE - QUARTZ ZONE O 50 SERICITIC LAPILLI TUFF 	77.90	E.O.II.		61.00 67.70 including 62.00 63.00 64.90 67.70 including	6.70 1.00 2.80	1.67 2.09 3.14
63.60 64 64.80 66 66.15 76 76.65 77	$ \begin{array}{c} 60.30 - 61.00 \ \ 0.5 - 1\% \ \ pyrite \\ 61.00 - 63.00 \ \ 3 - 4\% \ \ pyrite \\ 63.00 - 63.60 \ \ 0.5\% \ \ pyrite \\ 63.00 - 63.60 \ \ 0.5\% \ \ pyrite \\ \hline \\ 63.00 - 63.60 \ \ 0.5\% \ \ pyrite \\ \hline \\ 80 \ \ SERICITIC \ TUFF / LAPILLI \ \ TUFF \\ \hline \\ 81.5 \ \ SYENITE \\ \hline \\ 0.5 - 2\% \ \ coarse \ \ pyrite \\ \hline \\ 85 \ \ SERICITIC \ \ LAPILLI \ \ TUFF \\ \hline \\ 67.40 - 67.55 \ \ Sericite, \ \ quartz, \ \ pyrite \ \ zone \ \ (a \ 50^{\circ} \ \ tca, \ \ 1 - 2\% \ \ pyrite \\ \hline \\ 1.80 \ \ \ 1.4PILLI \ \ \ TUFF \\ \hline \end{array} $				67.20 67.70	0.50	16.40

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INTE	RVAL	DESCRIPTION					SAM	IPLE		ASSAYS	;]
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/1	Au,Check	Au*M
0.00	3.50	CASING									
3.50	49.70	ASH-TUFF / LAPILLI-TUFF Massive, grey-green, fine grained ash with minor, intercalated lapilli horizons and polymictic pebble conglomerate interbeds; 20%, <= 1 mm, bright red-pink to grey- green trachytic clasts in a very fine grained grey-white groundmass; locally interbedded with 0.5 metre wide, coarse lapilli-tuff beds of the same composition, with gradational contacts; weakly magnetic; cut by very minor (<0.5%) late white, irregular quartz veinlets up to 1 cm wide. Ash-tuff is locally moderately well bedded @ 15° tea with weak cross-bedding: bedding is defined by intermixed ash-tuff and lithic									
		 14.50 - 17.75 Polymictic pebble conglomerate with 25% well rounded, poorly sorted clasts up to 4 cm in a fine grained grey-green graywacke / ash-tuff matrix; upper contact very gradational, lower contact sharp 6/ 15° tea and is marked by a <=0.5 mm bed of magnetite. 15.55 - 15.60 Fault @ 40° tea: chlorite + sericite + ankerite; strong chlorite + sericite shear with moderate degree of mud on slip planes; wall rock is rusty and ankeritic for 2-3 cm symmetrically around fault. 19.15 - 20.40 Polymictic conglomerate with well rounded pebbles up to 3 cm, in a mixed graywacke/ ash-tuff matrix; very gradational contacts. 22.95 Fault @ 40° tea; tight strong chlorite slip with gouge and moderate wall rock staining (ankerite) for 1-2 cm. 30.80 Fault @ 40° tea; chlorite + sericite + quartz; tight chlorite + sericite slip with 1 cm wide buff-pink quartz veinlet on down hole side of slip. 		. 1	· · · · ·						
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INTE	RVAL	DESCRIPTION					SAM	1PLE		ASSAYS
FROM	10		No.	FROM	то	Longth	% Rec	DESCRIPTION	Au, g/t	Au,Check Au*M
		 38.30 - 38.85 38.30 - 38.85 38.30 - 38.60 38.60 - 38.60 38.60 - 38.60 Fault zone: chlorite + sericite + quartz. Moderately well foliated and cut by 10%, 1-3 mm wide quartz, quartz + chlorite and chlorite breccia veinlets @ 32° tca; <<0.5%, sporadic pyrite. 	7014	.38.25	38,90	0.65		Fault zone with 15 - 20% late irregular quartz and very minor pyrite	0.02	
		 36.85 Massive to faminated, bull to white to pink, multiphase quartz vein with very irregular contacts. 40.55 - 40.57 Fault @ 40° tca; 2 cm wide white-pink, open, vuggy quartz + calcite veinlet on sharp chloritic slips. 								
			7015	48.00	49.00	1.00			0.01	
49.70	50.20	FAULT - MYLONITE ZONE Rubbly core with 60% recovery; very strongly deformed sericite + chlorite schist @ 30° tea and fault breecia with strong mud gouge developed on slip planes; where core is intact it is comprised of white-pink quartz \pm K-feldspar (?) veins up to 4-5 cm wide which have been strongly breeciated by chlorite + sericite suturing and mud breaks.	7016	49.00	50.20	1.20	60	Mylonite - cross fault	0.02	0.02
;50.20	60.50	BLEACHED LAPILLI-TUFF Very strongly altered tuff, fine grained to aphanitic, light brown-yellow, strongly foliated to brecciated by chlorite \pm quartz breccia veinlets.		н., с., с., Ч	en de ser de la companya de la companya de la companya de la companya de la companya de la companya de la compa					
		 50.20 - 52.50 Yellow-brown to green, very fine grained to aphanitic, primarily sericite (? - very soft, while streak); pseudo-brecciated (crack and seal) to brecciated by numerous 1-3 mm wide, chlorite and chlorite + quartz stringers. 52.50 Fault (<i>a</i>: 30° tea; 1 cm wide white-pink quartz vein on sharp, tight chloritic slip. 	7017 7018	50.20 51,00	51.00 52.00	0.80		Altered, sericitic Tuff Sericitized Tuff, brecciated Tuff	0.01 0.01	
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INTE	RVAL	DESCRIPTION					SAM	IPLE		ASSAYS
FROM	ТО		No.	FROM	то	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 7020 7021 7022 7023 7024 7024	52.00 53.00 54.00 55.00 56.00 56.00 57.00 58.00	53.00 54.00 55.00 56.00 57.00 58.00 58.00	1.00 1.00 1.00 1.00 1.00 1.00 1.00			0.03 0.02 0.02 0.02 0.02 0.02 0.02	
		60.10 - 60.45 Fault zone @ 25° tca: sericite + chlorite; cut by numerous, light 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	59.90 60.40	0,90		Fault zone, sericite + chlorite	0.03 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:			ı					
		 Pyrite replacement of certain lapilli clasts; Disseminated pyrite; Stringer pyrite 		i.						
		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 breecia and 3 cm wide chlorite breecia 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	
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	·		DECONDITION				1. 	SAM	PLE		ASSAYS
INTE	RVAL		DESCRIPTION	No	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check Au*M
FROM	то	,		NO.	FROM		- congen			0.18	
		61.00 - 63.00	Light yellow-green, quite strongly sericitized and cut by 5% late white-buff irregular quartz veinlets and masses up to 1 cm; multiple generations of veins which are typically barren but occasionally contain pyritic inclusions of wall rock, and pyrite stringers on vein	7029 7030	61.00 62.00	62.00 63.00	1.00 1.00		3 - 4% pyrite, 5% quartz veiniets in sericitized Tuff	2.26	1.92
		63.00 - 63.60	walls; section contains 3-4% pyrite as 0.5-1% very fine disseminations in matrix, and as irregular stringers. Sericitized lapilli-tuff with 10% dark green to grey to buff, angular lapilli clasts up to 2 cm, in a very fine grained sericitized ash matrix; <0.5% pyrite as coarse clots up to 0.5 cm (pyrite replacement of clast?) and very minor disseminated pyrite.	7031	63.00	63.60	0.60		Scricitized Lapilli Tuff with 0.5% pyrite	0.10	
63.60	64.80	SERICITIC TUP	FF / LAPILLI-TUFF								
		63.60 - 64.40	Dirty red-brown to green, massive and fine grained with 1% irregular white quartz clots up to 0.5 cm, with dark chloritic boundaries (aftered tuff?); contains little to no pyrite and cut by	7032	63,60	64.40	0.80		Altered Tuff - no pyrite	0.05	
		64.40 - 64.80	<1% white-pink quartz veinlets. Lapilli-tuff, moderately well foliated $@45^{\circ}$ tea, sericitized with 5% angular trachytic clasts to 1 cm, in a fine grained sericite altered matrix: no visible pyrite.	7033	64.40	64.90	0.50		Sericitic Lapilli Tuff - no pyrite	0.07	
		64.80	Fault (@ 40° tca; sharp, tight chlorite slip with a 0.5 cm quartz + chlorite + sericite veining and alteration in adjacent wall rock.				ł				
64.80	66.15	RED ALTERED Massive, fine gr. very fine wispy s very irregular, « with black chlor sericitic slips (sl	D ROCK? (SYENITE ?) rained, red-brown with micro-fractured, aphanitic red-brown matrix; sericite on fracture planes and interstitial to white-black clots?; 5% < = 0.5 mm, dark black crystals (?) and irregular white quartz clots ritic rims; sporadic coarse, subhedral pyrite, locally up to 0.5% and hear zones) which contain 1-2% pyrite.								



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INTE	RVAL	DESCRIPTION					SAM	IPLE		ASSAYS
FROM	то		No.	FROM	то	Longth	% Rec	DESCRIPTION	Au, g/t	Au,Check Au*M
		 65.05 65.05 1.5 cm wide sericite schist (# 50° tca; augen textured and contains 1% disseminated, coarse subhedral pyrite. 65.25 65.45 65.45 66.00 - 66.15 66.00 - 66.15 7 ellow-green, with 10% black spots (alteration mineral?) and 0.5% coarse euhedral pyrite grains up to 0.5 mm; lower contact sharp @ 45° tca. 	7034 7035	64.90 65.50	65.50 66.20	0.60 0.70		Red altered rock with narrow sericite schist zones with 0.5 - 1% pyrite	0.49 0.27	
66.15	76.65	 BLEACHED LAPILLI-TUFF Massive, light grey to dark grey-green with patchy, buff brown alteration halos up to 1-2 cm wide around 1-3 mm white quartz veintets and as diffuse patchy alteration throughout; local remnant magnetite beds; lower contact is faulted @ 18° tea as chlorite + sericite + quartz slip. 67.40 - 67.55 PYRITE ZONE: grey-brown, foliated to sheared, with 1-2% finely disseminated pyrite; contacts are sharp sericite + pyrite ± quartz slips (i 50° tea; wall rock up to 10 cm symmetrically around zone contains <0.5% disseminated pyrite. 	7036 7037 7038 7039 7040	66.20 67.20 67.70 68.60 69.50	67.20 67.70 68.60 69.50 70.50	1.00 0.50 0.90 0.90 1.00		Pyrite zone with 1 - 2% pyrite and 0.5% disseminated pyrite in wall rock Bleached Lapilli Tuff	0.12 16.27 0.03 0.02 0.04	16.53
76.65	77.90	LAPILLI-TUFF Massive, light grey-green, with 10-15 ⁷ % angular, 0.1-2 cm (avg. 1 cm) lapilli clasts, consisting primarily of buff brown and less grey and dark green trachyte in a fine grained ash matrix; moderately to strongly magnetic.				,				-
	77.90	E.O.H.								

HOLE: AK-90-19

DEPTH AZIMUTH DIP PROPERTY Amalgamated Kirkland DATE LOGGED November 17 1990 EASTING 8425.00 M. Masson NORTHING 10205.00 341 45 LOGGED BY Collar ELEVATION TOWNSHIP Teck SIGNED BY Be 38.00 46 - 1 71.20 Heath & Sherwood LENGTH CLAIM No. L 491663 DRILLED BY STARTED November 15, 1990 SURVEYED BY UNITS metres K.L. Warehouse CORE SIZE NQ . COMPLETED November 16, 1990 CORE LOCATION To test 102-8425 Gold Zone PURPOSE ı. COMMENTS 102-8425 zone intersected at

34.00 - 40.10m

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		SUMMAI	RY LOG		ASS	Y SUMMARY	Y .
INTER From	VAL To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/l
0.00	1.22	CASING			34.00 40.10	6.10	0.12
1.22 34.00	.14.00 34.90	LAPILLI TUFF FAULT ZONE			42.00 42.50	0.50	0.10
34.90	44.62	BU% recovery PYRITE - QUARTZ ZONE			48.50 49.50	1.00	0.20
		34.90 - 33.20 1 - 2% pyrite, 10% quartz 35.20 - 35.85 0.5 - 1% pyrite 35.85 - 36.60 3 - 4% pyrite, 10 - 15% quartz breccia		·	\$4.20 54.60	0.40	6.30
		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	48.45 71.20	SYENITE SERICITIC LAPILLI TUFF / TUFF 54.20 - 54.55 quartz + pyrite zone (# 55° tea					
		sericite, chlorite, carbonate gangue					
	71.20	E.O.H.					

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INTERVAL		DESCRIPTION								
FROM	то		No	FROM	TO	Logath	SAN	IPLE	ASSAYS	
0.00	1.22	OVERBURDEN	NU.	FROM	10	Lengin	% Rec	DESCRIPTION	Au, g/ t	Au,Check Au [*] M
1.22	3.80	CASING-NX CORE-BOX 1 DISCARDED AFTER LOGGING								
1.22	.34.90	IAPILLI-TUFF Massive, dark grey to green, with 10% angular to sub-rounded, 0.5 to 4 cm (avg. 1 cm), fine grained, light grey buff brown trachytic clasts; matrix is very fine grained, dark grey to green, with 25% , <= 1 mm, lithic clasts in an aphanitic groundmass; moderately to strongly magnetic.								
		 4.50 - 4.60 Fault (g/12° tca: chlorite + quartz + calcite ± ankerite; open, dry chloritic shear with late, drusy pink quartz + calcite infilling. 12.60 - 13.00 Fault (g/14° tca: sericite + chlorite + ankerite; tight (< 1 mm) sericite + chlorite slip with 2-3 cm ankeritic stained wall rock, symmetrically about slip plane. 21.95 - 22.00 Fault (g/40° tca: sericite + chlorite + ankerite; strong, tight slip with weak mud gouge and strong ankeritic stain. 								
		34.00 - 34.90 Fault: rubbly core; 50.6014 recovery; strongly weathered, ankerite + sericite schist.	7041	33.00	34.00	1.00		Massive Lapilli Tuff	0. 06	
		34.30 - 34.90 Lost core; contact of fault visible @ 34.92 m and is a sharp, tight chlorite + sericite stip (a 25° tea; down hole side of fault slip contains a 2 mm wide pyritic shear @ 55° tea.	7042	34.00	34.90	0.90	40	Ankeritic shear - rubbly core (lost core 34.30 - 34.90)	0.10	0.10
34.90	44.62	PYRITE QUARTZ ZONE Upper contact of zone is marked by a 2 mm wide pyritic shear at 55° tca which is truncated by previous fault @ 25° tca.		· · · ·					1	

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INTERVAL		DESCRIPTION					ASSAYS				
FROM	ТО			No.	FROM	то	Longth	% Rec	DESCRIPTION	Au, g/l	Au, Check Au*M
		34.90 - 35.20	Highly scricitic and deformed (no primary textures preserved), with 1-2% very finely disseminated pyrite throughout; cut by 10% irregular white-grey quartz \pm 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 ($\hat{\alpha}$ 60% real.	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 breecia zones up to 10 cm wide; fractured, breeciated 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, scricitized, with primary trachytic clasts; altered but not strongly deformed; 0.5%	7046	36.60	37.00	0.40		Pseudo-brecciated Tuff with 2 - 3 % pyrite	0.11	
			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.	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	
		1000 W W 06		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	7050	39.00	39.60	0.60		2 - 3% disseminated pyrite and 10% quartz veining	0.33	0.27
			mm wide, sericite + pyrite shear proximal to a series of small (1-3 mm) <i>en echelon</i> quartz veinlets.	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 $\leq =0.5\%$ 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	
									51% quarty veining	ll.	

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INTERVAL		DESCRIPTION				ASSAYS				
FROM	то			FROM	то	Length	% Rec	DESCRIPTION	Au, g/l	Au,Check Au*M
			7055 7056 7057 7058	42.00 42.50 43.45 44.20	42.50 43.45 44.20 44.65	0.50 0.95 0.75 0.45		0.5% pyrite along tight slips and vein boundaries 0.5 - 1% pyrite + 2 - 3% quartz veining < 0.5% disseminated pyrite in sericitized Tuff 1% pyrite in < 1 cm wide, tight	0.10 0.04 0.01 0.04	
1 4.62	48.45	 44.20 - 44.60 Series of tight chlorite + sericite + quartz + pyrite (10%) shears up to 1 cm wide (at 44.25 m and 44.60 m); interstitial host rock contains <= 0.5% disseminated pyrite. 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 Massive, fine to medium grained (altered tuff ?) and displays a very gradational change from yellow-green and sericitic @ 44.60 m to red-pink (@ 45.90 m. 45.90 Tight sericite + chlorite slip (@ 65° tca with 2 cm wide, irregular methy averate up in a computer wally around cline. 	7059 7060	44.65 45.30	45.30 45.90	U.65 0.60		chlorite + sericite + quariz shears Bleached sericitized syenite? possibly Tuff	0.0 3 0.01	
		45.90 - 48.45 Massive, fine grained, red-purple, cut by a <i>en echelon</i> system of small wispy quartz veinlets (tensional) @ 45° tea; contains irregular white quartz (albite?) blebs and masses, up to 2 cm, with black chloritic rims.	7061 7062 7063 7064	45,90 46.80 47.50 48.00	46.80 47.50 48.00 48.50	0.90 0.70 0.50 0.50		Massive red Syenite Syenite Sericitized Syenite at contact	0.01 0.01 0.01 0.01	
48.45	71.20	BLEACHED LAPILLI-TUFF / TUFF Massive, light brown (bleached) to green, with 10-15% coarse trachytic clasts up to 3-4 cm, which quite (requently have altered, diffuse boundaries which fade into a light brown very fine to aphantic bleached groundmass; a majority of the clasts are 0.1-5 cm, medium grained, black-white salt and pepper textured trachytes which gives	7065 7066 7067 7067 7068	48.50 49.50 50.50 51.50	49.50 50.50 51,50 52.50	1.00 1.00 1.00 1.00		Bleached Lapilli Tuff	0.18 0.04 0.02 0.01	0.21

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INTERVAL		DESCRIPTION					ASSAVS						
FROM	то				FROM	то	Length	% Rec	DESC	CRIPTION	Au, gh	Au,Check Au*N	1
		the unit an ove quite often has throughout.	erall spotted, salt and pepper texture; typically non-magnetic and is a dirty mottled texture due to diffuse irregular brown bleaching	7069 7070	52.50 53.50	53.50 54.20	1.00 0,70				0.02 0.06		
		54.20 - 54.55	QUARTZ + PYRITE ZONE @ 55° tca; well foliated to schistose with quartz flooding (silicified) in matrix and irregular brecciated grey-white, 3-4 cm wide quartz voin with very fine grained pyritic veinlets (1-3 mm) on voin boundary and on fracture planes; entire section contains 3-4% pyrite; upper contact is a sharp, 2 mm wide chlorite + sericite + quartz slip with smeared pyrite on slip face; lower contact is somewhat more gradational with 0.5% disseminated pyrite for 10 - 15 cm in lower wall rock.	7071 7072 7073 7074	54.20 54.60 55.30 56.00	54.60 55.30 56.00 57.00	0.40 0.70 0.70 1.00		Quartz brecc pyrite	ia vein with 3%	6.21 0.03 0.01 0.02	6.38	
	71.20	E.O.H.			ч								
HOLE: AK-90-20

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 19 1990	EASTING	8425.00		DEPTH	AZIMUTH	DIP
FOWNSHIP CLAIM No. STARTED COMPLETED	Teck L 491663 November 16, 1990 November 17, 1990	LOGGED BY SIGNED BY DRILLED BY SURVEYED BY CORE LOCATION	M. Masson Heath & Sherwood K.L. Warehouse	NORTHING ELEVATION LENGTH UNITS CORE SIZE	10170.00 99.60 metres NQ		Collar 38.00 76.00	341	45 44 42
PURPOSE COMMENTS	To undercut hole AK-90-20 and test the 102-8425 gold zone The 102-8425 zone was intersected at 78.50 - 81.60 m					·			
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INTER From	VAL To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 1.50 32.30 33.50 68.85	1.50 32.30 33.50 68.85 73.25	CASING LAPILLI TUFF FAULT ZONE @ 25 ° tca LAPILLI TUFF LAPILLI TUFF			78.50 81.60 including	3.10	1.59
73.25 78.50	78.50 81.60	Sericitic, hematitic SERICITIC TUFF PYRITE - QUARTZ ZONE 2 - 3% pyrite, 2 - 5% quartz veining, sericitic			70.30 01.00	2.30	1.94
85.30	90.00	2 - 5% white quartz veining LAPILLI TUFF Weakly sericitic 89.85 - 90.00 Chloritic breecia, 1% quartz vaining					
90.0 0	99.60	trace pyrite LAPILLI TUFF Moderately sericitic				, J	
•	99.60	E.O.H.					

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INTE	RVAL	DESCRIPTION				,	SAN			ACCANC
FROM	то	DESCRIPTION	No.	FROM	ТО	Length	% Rec	DESCRIPTION	An et	ASSAIS Au Check Au*M
0.00	1.50	CASING		n.	1.11				, gr	
1.50	32.30	LAPILLI-TUFF / HETEROLITHIC LAPILLI-TUFF Massive to moderately well foliated with prominent clast elongation @ $45^{\circ}-50^{\circ}$ 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 @ $40^{\circ}-50^{\circ}$ tca; weakly magnetic except proximal to magnetite beds.				•				
		 3.85 Fault @ 35° tca: sericite + ankerite; tight sericite slip with 1-2 cm wide ankerite stain in wall rock. 5.15 - 5.25 Fault @ 40° tca: sericite + ankerite; well foliated to schistose zone with strong ankerite staining. 9.00 - 9.15 Fault @ 45 deg. tca: sericite + chlorite + ankerite; ankeritic, rusty stained sericite + chlorite schist with minor vuggy calcite infilling. 9.15 - 15.00 Ash-tuff, fine grained, massive to well bedded @ 50° tca; contacts with lapilli- tuff are quite gradational. 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 ashtuff which also become moderately to strongly sericitized with 5-10% wispy spotty sericite. 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. 	7075 7076	23.00 23.70	23.70 24.50	0.70 0.80		Hematized Ash Tuff Sericitized Tuff with 15 cm quartz + ankerite vein	nil 0.01	

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INTE	RVAL	DESCRIPTION					SAM	PLE		ASSAYS
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check Au*M
		 24.50 - 25.00 Pseudo-brecciated to brecciated tuff with angular sericitized wall rock fragments in a sericite + hematite groundmass. 25.00 - 32.30 Becomes increasingly bleached to a light green-white, with local remnant patches of purple, hematized rock; in part intercalated with pebble conglomerate interbeds (well rounded, polymictic, framework conglomerate), although matrix appears to be trachytic (no quartz) and contacts are gradational. 	7077	24.50	25.00	0.50			nil	
32.30	33.50	FAULT ZONEFault breccia, mud gouge @ 25° tca (70% recovery); very highly deformed zone(cross-fault), highly schistose, sericitized at beginning of fault, with numerouschlorite + sericite mud slips; becomes a strong fault breccia and mud gouge whereoriginal host rock is pulverized and held together by mud.32.70 - 33.20Fault gouge .33.20Strongly foliated to schistose with numerous sericitic slips and late								
		irregular white to pink quartz veinlets and masses (1-2%).								
33.50	78.50	 LAPILLI-TUFF - HETEROLITHIC Massive to moderately well foliated @ 45°-50° tca. 33.50 - 37.55 Light green, moderately sericitic with 5% wispy + spotty sericite, and cut by 5% late white-pink quartz veinlets and minor specularite veinlets. 37.55 - 40.10 Dark green, chloritic with light grey to pink angular trachyte clasts up to 3 cm in a very fine grained matrix; cut by 1-2% white quartz veinlets, up to 0.5 cm wide. 40.10 - 40.20 Fault @ 20° tca: sericite + chlorite + quartz; sharp chlorite + scricite slip boundaries with interstitial, white to pink, irregular quartz veining and masses. 								



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INTE	RVAL		DESCRIPTION					SAM	PIF		A 55 A V6
FROM	то			No.	FROM	то	Length	% Rec	DESCRIPTION	Au, 2/1	Au.Check Au [•] M
		40.20 - 44.55 44.15 - 44.25 44.55 - 45.85 45.85 - 45.90 45.90 - 68.85	Light to dark green, weakly sericitized and stockworked by 5% late, barren, 0.1-0.5 cm wide, white quartz veinlets. Fault @ 50° tca: sericite + chlorite; sharp, tight, sericitic slips with rock flour and minor, $<= 1$ mm, white quartz veinlets. Pervasively hematized lapilli-tuff, dirty brown-purple, moderately well foliated @ 50° tca. Fault @ 40° tca: sericite + chlorite + quartz; strong, tight mud break with a 1-2 cm wide white-pink quartz vein with sharp chloritic boundaries. 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								
		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% scricitized 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 (<	7079 7080 7081	61.50 62.00 62.45	62.00 62.45 63.00	0.50 0.45 0.55		Moderately sericitic Lapilli Tuff 10 cm buff, brown-pink, quartz vein Lapilli Tuff	0.01 0.01 0.01	0.01
		68.85 68.85 - 73.25	0.5% total pyrite) 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. 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 7083	72.00 73.00	73.00 73.50	1.00 0.50		Weakly hematized Lapilli Tuff Weakly sericitic Lapilli Tuff	0.01 0.05	

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INTER			DESCRIPTION		·						
FROM	ТО		DESCRIPTION	N-				SAM	PLE		ASSAYS
				NO.	FROM	10	Length	% Rec	DESCRIPTION	Au, g/1	Au, Check Au [•] M
		73.25 - 75.00	Sericitized tuff; upper contact is quite gradational with a lighter colour (dirty brown \rightarrow light green) from 73.25 - 74.00 m until the matrix becomes completely altered to a green-white colour at 74.50	7084 7085	73.50 74.00	74.00 74.50	0.50 0.50		Moderately - strongly sericitic tuff Sericitized Tuff with 1% quartz veins	0.01 0.03	
			strongly bleached to a light buff; cut by 1-2%, white, 1-3 mm quartz veinlets.	7086	74.50	75.00	0.50			0.01	
		75.00 - 78.50	Altered tuff (?); massive, light grey-green, with a patchy mottled	7087	75.00	76.00	1.00			0.02	
			matrix contains 5-7% subhedral to lath shaped, dark green	7088	76.00	77.00	1.00		Sericite + chlorite altered unit with 5% augite	0.01	
	· · ·		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	7089	77.00	78.00	1.00			0.01	
			display diffuse altered boundaries.								
		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	
78.50	81.60	PYRITE ZONE									
		Lower contact i	s a sharp, tight chlorite + sericite slip @ 60° tca.			۰.					
		78.50 - 79.60	Strongly foliated to weakly schistose @ 50°-55° tea; 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	79.0 0	0.50		Sericitic Tuff with 5% quartz veining and 2 - 3% pyrite	1.11	1.00
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FROMTONo.FROMTOLength $\%$ RecDESCRIPTIONAu, ghAu, Chock Au79.6081.60Less strongly deformed, massive to weakly foliated, with 5% angular matrix, prite as: 1)10105.0%79.600.60Sericitic Tuff with 2% quartz veining and 2 - 3% disseminated prite Sericitic Lapilli2.852.5081.6085.301 cm blue grey quartz vein with 1% pyrite on vein walls. Cut by 1-2% black, <= 1.2 mm wide, chlorite z quartz veinles and fractures @ 15" tea.709480.1081.000.90Sericitic Lapilli1012.773.1181.6085.301 cm blue grey quartz vein with 1% pyrite on vein walls. Gut by 1-2% black, <= 1.2 mm wide, chlorite z quartz veinles and fractures @ 15" tea.709581.0081.600.60Sericitic LapilliTuff 0.5% pyrite of 0.5%0.1281.6085.30SYENITEStrongly sericitized, yellow-green, with 5% fine black subhedral crystals up to 0.5 mm (augite ?) in an aphanitic, sericitized sericitic sub-pralel to core axis.709782.4083.000.60Massive Syenite, 2 - 3% quartz veins0.0681.6085.2085.20Massive, red-brown, very fine grained synite, micro-fractured and infiled with wispy sericitic (C 0.5 mm wide). Cut by 2.3% barren white quartz veinies, and is moderately sericitic.709782.4083.000.60Massive Syenite, 2 - 3% quartz veins0.0285.2085.2085.30Weakly sericitized, light brown, with wispy sericit; lower contart is very sharp, irregular, appears intrusive, and is moderately sericitic	INTE	RVAL		DESCRIPTION	Γ				SAN				
81.60 85.30 SYENITE 81.60 85.30 Strongly sericitized, yellow-green, with 5% fine black subhedral crystals up to 0.5 mm (augite ?) in an aphanitic, sericitized subhedrat crystals up to 0.5 mm (augite ?) in an aphanitic, sericitized subhedrat crystals (up to 0.5 mm (augite ?) in an aphanitic, sericitized subhedrat crystals, cup to 0.5 mm (augite ?) in an aphanitic, sericitized subhedrat crystals, cup to 0.5 mm (augite ?) in an aphanitic, sericitized subhedrat crystals, cup to 0.5 mm (augite ?) in an aphanitic, sericitized subhedrat crystals, cup to 0.5 mm (augite ?) in an aphanitic, sericitized subhedrat crystals, cup to 0.5 mm (augite ?) in an aphanitic, sericitized subhedrat crystals, cup to 0.5 mm (augite ?) in an aphanitic, sericitized subhedrat crystals, cup to 0.5 mm (augite ?) in an aphanitic, sericitized subhedrat crystals, cup to 0.5 mm (augite ?) in an aphanitic, sericitized subhedrat crystals, cup to 0.5 mm (augite ?) in an aphanitic, sericitized subhedrat crystals, cup to 0.5 mm (augite ?) in an aphanitic, sericitized subhedrat crystals, cup to 0.5 mm (augite ?) in an aphanitic, sericitized and infiled score axis. 7097 82.40 83.00 0.60 Sericitized Syenite with 5% quartz cup to 0.50 mm (augite ?) in an aphanitic, sericitized and infiled with witys sericitic (< 0.5 mm wide). Cut by 2-3% bareen white quartz veinites and infiled with witys sericitic (< 0.5 mm wide). Cut by 2-3% bareen white quartz veinites. 7097 82.40 83.00 0.60 Massive Syenite, 2 - 3% quartz cup 0.06 mites with 3-5% black subhedrat crystals, cup to y 5% irregular quartz weinites and infiled with witys sericitic (< 0.5 mm wide). Cut by 2-3% bareen white quartz veinites. 7097 82.40 83.00 0.60 Massive Syenite, 2 - 3	FROM	то			No.	FROM	то	Length	% Rec	DESCRIPTION	Au. p/t	ASSA YS	Au*M
81.6085.30SYENITE709681.6082.400.80Sericitized Syenite with 5% quartz, quartz + chlorite veining quartz, quartz + chlorite veining quartz, quartz + chlorite veining0.0881.6085.30Strongly sericitized, yellow-green, with 5% fine black subhedral crystals up to 0.5 mm (augite ?) in an aphanitic, sericitized groundmass. 81.90 - 82.30709681.6082.400.80Sericitized Syenite with 5% quartz, quartz + chlorite veining quartz, quartz + chlorite veining0.0881.90 - 82.30Grades 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.709782.4083.000.60Massive Syenite, 2 - 3% quartz0.06709883.0084.001.00709883.0084.001.000.020.06709984.0084.900.90710084.9085.300.40Weakly sericitic Syenite0.02			79.60 - 81.60 80.65 80.75 - 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: 1) Up to 5-10% pyrite as replacement within clasts. 2) 0.5-1%., fine disseminated pyrite in matrix. 3) Pyritic stringers, <= 1 mm wide, along wispy, sericitic sutures. 1 cm blue-grey quartz vein with 1% pyrite on vein walls. Cut by 1-2% black, <= 1-2 mm wide, chlorite ± quartz veinlets and fractures @ 15° tra 	7092 7093 7094 7095	79.00 79.60 80.10 81.00	79.60 80.10 81.00 81.60	0.60 0.50 0.90 0.60		Sericitic Tuff with 2% quartz veining and 2 - 3% disseminated pyrite Sericitic Lapilli Tuff with 1% pyrite Sericitic Tuff with 2% quartz veining and 1 - 2% pyrite Sericitic Lapilli Tuff 0.5% pyrite	2.85 2.77 1.37 0.12	2.50 3.11 1.41	AU'M
	31.60	85.30	SYENITE 81.60 - 81.90 81.90 - 82.30 82.30 - 85.20 85.20 - 85.30	Strongly sericitized, yellow-green, with 5% fine black subhedral crystals up to 0.5 mm (augite ?) in an aphanitic, sericitized groundmass. 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. 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. Weakly sericitized, light brown, with wispy sericite; lower contact is very sharp, irregular, appears intrusive, and is moderately sericitic.	7096 7097 7098 7099 7100	81.60 82.40 83.00 84.00 84.90	82.40 83.00 84.00 84.90 85.30	0.80 0.60 1.00 0.90 0.40		Sericitized Syenite with 5% quartz, quartz + chlorite veining Massive Syenite, 2 - 3% quartz veins Weakly sericitic Syenite	0.08 0.06 0.02 0.02 0.02	0.06	

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INTE	RVAL	DESCRIPTION					SAN				٦
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION		ASSAYS	_
85.30	99.60	 LAPILLI-TUFF Angular wall rock fragments up to 1 cm in a dark green, aphanitic, chlorite groundmass; contacts are sharp chlorite slips @ 50° tca; < 1% grey quartz veining trace pyrite. 90.00 - 99.60 Massive light grey-green to dirty brown, with 5% trachyte clasts (dark green to buff to black and white spotted), often with diffuse boundaries; matrix of 3.5% subhedral to lath shaped black crystals (augite ?) in an aphanitic, moderately sericitized groundmass. 	7101 7102 7103 7104 7105 7106 7107	85.30 86.00 87.00 88.00 89.00 89.50 90.10	86.00 87.00 88.00 89.00 89.50 90.10 91.00	0.70 1.00 1.00 1.00 0.50 0.60 0.90		Chloritic fault breccia	Au, gr 0.01 0.01 0.01 0.01 0.01 0.06 0.06	Au, Check Au * M	
	99.60	E.O.H.	•								

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PROPERTY TOWNSHIP CLAIM No. STARTED COMPLETED PURPOSE COMMENTS	Amalgamated Kirkland Teck L 477419 November 17, 1990 November 19, 1990 To test '102' structure, low magnetic and IP anomalies Mineralized '102' structure intersected at 69.00 - 98.95m	DATE LOGGED LOGGED BY SIGNED BY DRILLED BY SURVEYED BY CORE LOCATION	Nov. 20-21 1990 M. Masson Heath & Sherwood K.L. Warehouse	EASTING NORTHING ELEVATION LENGTH UNITS CORE SIZE	8600.00 10174.00 117.70 metres NQ	DEPTH Collar 38.00 76.00 114.00	AZIMUTH 341	DIP 45 44 42 41
		SUMMAR	Y LOG			ASSA	Y SUMMARY	!
INTERVAL	DESCRIPTIO	N	INTERVAL	DESC	RIPTION	INTERVAL	LENGTH	AVERAGE

INTER	VAL	DESCRIPTION	INTERVAL	.	DESCRIPTION	INTER	VAL	LENGTH	AVERAGE
From	То		From To			From	To	in metres	Au e/t
0.00	3.40	CASING	93.50 96.5	50	SYENITE	69.00	98.95	29.95	0.88
3.40	25.00	ASH TUFF			93.50 - 94.30 Sericitic, 2 - 5% pyrite	in	cluding		
25.00	28.50	LAPILLI TUFF	96.50 98.9	.90	LAPILLI TUFF	69.00	74.00	5.00	0.75
28.50	44.70	COARSE LAPILLI TUFF			Weakly to moderately sericitic	in in	cluding		
44.70	58.35	LAPILLI TUFF	98.90 102.7	75	ASH TUFF - / LAPILLI TUFF	69.60	70.60	1.00	1.49
58.35	69.10	LAPHLLI TUFF	102.75 117.7	70	GRAYWACKE	72.90	73.50	0.60	2.28
	.	Hematitic			1 - 2% sericite, $< 0.5%$ pyrite			0.00	2.20
E 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		Ì	veinlets, trace ovrite	in	cluding		0.07
		1 - 2% pyrite, 1% quartz veining				83.00	83 20	0.20	7.05
74.00	82.55	LAPILLI TUFF				85.00	86.00	1.00	1.05
		Weakly sericitic	117.7	70	EOIL	90.50	09.00	8.45	2.00
82.55	92.80	COARSE LAPILLE THEF	•••••			20.50	cluding	0.4.2	2.23
		Weakly to moderately servicite				00.50	02 00	1.60	1.74
		83.10 0.5 cm blue quarta vain (o. 600 too with				90.50	92.00	1.50	1.24
		203 north		1		92.00	90.00	4.00	5.94
		$\frac{277}{100} \text{ pyrtic}$		I I		92.00	92.70	0.70	12.87
02.80	02.50	SEDICITIES AND LEADED				95.50	96.00	0.50	9.84
92.00	9.5.50	DERICITIC LAPILLI TUFF				96.00	98.95	2.95	0.46
		0.5% pyrite				98.55	98.95	0.40	2.25

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INTE	RVAL	DESCRIPTION					SAM	PLE		ASSAY	s
FROM	то		No.	FROM	то	Longth	% Rec	DESCRIPTION	Au, g/	Au,Chec	k Au*M
0.00	3.40	CASING									
3.40	25.00	ASH TUFF Massive to well bedded ($@$ 50°-60° tca) dark green to purple where hematitic; typically very fine grained ash-tuff with minor intercalated lapilli-tuff horizons up to 0.5 metres wide, with gradational contacts; weakly magnetic; bedding is defined by 0.1-1 cm, alternating ash horizons and locally by what appear to be <= 0.5 mm, hematized magnetite beds; lower contact of unit is gradational.				· .					
	•	 9.05 - 9.15 Fault @ 50° tca: chlorite + sericite + ankerite + hematite; rusty, ankeritic stained shear zone with a 0.5 cm wide white-pink quartz + calcite veinlet with minor specularite. 12.50 - 12.70 Fault @ 50° tca: sericite + ankerite; strongly rust-limonite stained shear zone with no primary textures visible; contacts are sharp but some what irregular. 		1	ا ہے۔ رونیہ	· · · · ·					
25.00	28.50	LAPILLI-TUFF Massive to moderately foliated ($\ddot{\alpha}$ 50° tca, with 5-7% angular, light brown to buff to green, up to 1 cm (avg. 0.5 cm) trachyte clasts; matrix is a light grey-green, 20-30%, $\leq = 0.5$ mm, lithic clasts in an aphanitic groundmass; some minor jasper clasts within matrix, possibly due to intermixing with sediments.				1					
28.50	44.70	COARSE LAPILLI TUFF - HETEROLITHIC Massive, light to dark green to brown lapilli-tuff, with 15-20% angular to sub- rounded, dark red to pink to brown and green, fine grained or porphyritic trachyte clasts up to 5 cm (avg. 2 cm), in a fine grained, ash matrix; moderately to strongly magnetic; areas of moderate to strong hematization.		• .							
		35.30 Fault (a 45° tea: chlorite + sericite + quartz; tight, chlorite + sericite slip with 0.5 cm buff pink quartz vein on slip wall.									

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INTE	RVAL	DESCRIPTION					SAN		<u> </u>	4 6 6 4 V 6
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au. #/t	AU.Check Au [®] M
;		 44.70 Fault @ 50° tca: scricite + 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. 					<u> </u>			vente (na se o se o se o se o se o se o se o se
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 $@60^{\circ}$ 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.				1				
58.35	69.10	IAPILLI-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 [°] 7109 7110 7111	65.00 66.00 67.00 68.00	66.00 67.00 68.00 69.00	1.00 1.00 1.00 1.00		Massive Lapilli Tuff	0.01 nil nil 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 $(@ 25^{\circ})$ 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 aphantic, serieitized mass, which is locally	7112 7113	69.00 69.60	69.60 70.10	0.60 0.50		Bleached Lapilli Tuff with 0.5% pyrite 1% disseminated pyrite	0.18 1.54	1.44

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BATTLE MOUNTAIN (CANADA) INC. DIAMOND DRILL LOG

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INTE	RVAL		DESCRIPTION					SAM	PLE		ASSAYS
FROM	то			No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, st	Au,Check Au*M
		70.35 - 70.50	very soft or quite hard and possibly silicified. Grey-brown, very fine grained silicified zone with 1-2% disseminated and wispy pyrite; contacts are diffuse and seem to be quite irregular.	7114	70.10	70.60	0.50		Silicified Tuff with 2% pyrite Sericitic Tuff with 0.5 - 1% pyrite	1.49	
		70.50 - 71.60	Massive, moderately sericitized (10% spotty and wispy sericite) tuff with $0.5 - 1\%$ disseminated pyrite; cut by 1%, < 0.1 cm wide chlorite + quartz + bematite sutures	7115 7116	70.60 71.10	71.10 71.60	0.50 0.50			0.01	
		71.60 - 72.00	Quartz breccia vein; very irregular buff-white to grey quartz vein with angular wall rock clasts up to 1.5 cm; this vein has in turn been fractured and brecciated by later quartz + pyrite \pm chlorite which forms brecciated quartz fragments in a fine quartz + pyrite groundmass; 2-3% total pyrite.	7117	71.60	72.00	0.40		Quariz breccia vein, 2 - 3% pyrite	0.08	
		72.00 - 72.45	Massive, weakly to moderately sericitized tull with $\leq = 0.5\%$ disseminated pyrite.	7118	72.00	72.45	0.45		Massive Lapilli Tuff, < 0.5% pyrite	0.04	
		72.45 - 72.90	Cut by 3% white, irregular quartz veins and quartz + chlorite sutures, with $1-2\%$ disseminated pyrite.	7119	72.45	72.90	0.45		Silicified Tuff with 1 - 2% pyrite	0.88	
		72.90 - 73.40	Quartz breecia vein; massive white to grey quartz vein which is fractured and breeciated by numerous < 0.5 mm sericite + pyrite sutures; 2% total pyrite content.	7120	72.90	73.50	0.60		Quartz vein, 2% pyrite	2.19	2.37
		73.40 - 74.00	Light yellow-green, massive, sericitized lapilli-tuff, with $\leq = 0.5\%$ pyrite; sericite alteration is notably less by 74.0 m.	7121	73.50	74.00	0.50		Sericitized Lapilli Tuff with 0.5 % pyrite	0. 58	
74.00	82.55	LAPILLI-TUFF	• HETEROLITHIC								
		74.00 - 75.50	Weakly sericitized with patchy, diffuse sericite alteration fronts -	7122	74.00	75.00	1.00		Moderately sericitized Lapilli Tuff	0.02	
		75.50 - 82.55	Massive, dark green to red-brown lapilli- tuff with 10-15% angular trachyle clasts up to 2 cm (avg. 1 cm), in a fine grained ash matrix of 25% , $<=1$ mm lithles in an aphanitic groundmass; locally weakly magnetic.	7124 7125 7126 7127	75.60 75.60 76.00 77.00 78.00	75.00 76.00 77.00 78.00 78.00	0.40 1.00 1.00 1.00		Massive Lapilli Tuff	0.13 0.01 0.04 0.02 0.04	

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INTE	RVAL		DESCRIPTION					SAM	PLE		ASSAYS	
FROM	то			No	FROM	 TO	Length	% Rec	DESCRIPTION	Au #/	Au Check	Au*M
				140.	PROM	10	LEngu	70 NCC	DESCRIPTION	7.0, 51	Au,Clicka	<u></u>
				7128	79.00	80.00	1.00			0.41		
				7129	80.00	81.00	1.00			0.05		
				7130	81.00	82.00	1.00			0.02		I
				7131	82.00	82.50	0.50			0.25		
47.66	03.00											
n2.33	92.80	CUARSE LAP	ILLI-TUFF (HETEROLITHIC)									
		rounded very r	secon to green-brown, coarse tapini-tun, with 10-15% angular to sub-									i
		up to 5 cm (av	e. 2 cm): weakly to moderately sericitic with 3-5% wisny and spotty									
		sericite.	be a could a weaking to measure of actions a with a boot with and about				I					i
				7132	82.50	83.00	0.50			0.02		
		83.10	0.5 cm wide white-blue quartz vein @ 60° tca with smeared 1-2%	7133	83.00	83.20	0.20		0.5 cm quartz vein with 1 - 2%	7.06	7.03	
			pyrite + chlorite ± molybdenite along hairline fracture planes on						pyrite			
			vein walls and within the vein.	7134	83.20	84.00	0.80			0.05		
				11656	84.00	85.00	1.00			0.02	1.00	
				11657	82.00	86.00	1.00			1.15	1.00	
				11650	80.00	87.00	1.00			0.02		
				11660	97.00	NO (V)	1.00			0.02		
				11661	89.00	90.00	1.00			0.01		
				7135	90.00	90.50	0.50		Massive Lapilli Tuff	0.04		
		90.55 - 90.60	Light green, chlorite + pyrite slip face @ 25° tca with 5% smeared	7136	90.50	90.75	0.25		1 cm quartz vein with 1 - 2%	7.10	7.13	
			pyrite; down hole side of slip is a 1 cm irregular white-grey quartz						pyrite			
			vein with 1% disseminated pyrite in sericitized wall rock; 0.3 mm	7137	90.75	91.50	0.75			0.07		
			smeared flake of NATIVE GOLD on face of 2 mm pyrite bleb.	7138	91.50	92.00	0.50			0.04		
		92.05 - 92.60	Patchy, diffuse silicitied zones (q: 92.05 - 92.15 and (a: 92.5 - 92.60)	7139	92.00	92.70	0.70		Patchy quartz + pyrite zones in	12.89	12.84	
			m, with 2.3% disseminated pyrite and pyrite + sericite veinlets						Lapilli Tuff, 1% pyrite			
			which are later cut by barren 1-2 mm white quartz veinlets.									
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INTE	RVAL		DESCRIPTION					SAN	IPLE		ASSAYS
FROM	то			No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check Au*M
92.80	93.50	SERICITIZED Moderately wel green trachyte is very fine gra upper contact of	LAPILLI-TUFF Il foliated, light green sericitized matrix with 5% angular, dark grey to clasts with selective pyrite replacement (< 0.5% total pyrite); matrix sined, highly sericitic and contains 1% subhedral augite (?) crystals; of unit is gradational; lower contact sharp @ 50° tca.	7140	92.70	93.50	0.80		Pyrite replacement of clast in scricitized Tuff	1.02	
93.50	96.50	SYENITE									
		93.50 - 94.30 93.50 - 93.62	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. Well foliated @ 40°-50° tca, sericitized and contains 2-3%	7141	93.50	94.00	0.50		Sericitic Syenite with 1 - 2% pyrite and silicified zone @ 93.55 with 3 - 5% pyrite	0.89	·
		02.55	disseminated pyrite.								
		93.55 94.40	I cm dark grey strictled zone with 5% very line pyrite. Sericite alteration becomes very weak and gradation into massive light red-brown symite, 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 venters up to 0.5 cm wide with bleached velow-	7143	94.50	95.50	1.00		Massive Sycnite with four 0.1 to 1.0 cm quartz veins, one with pyrite and a green sericitic halo	0.13	
			green 0.2: 0.5 cm wide alteration halos; << 0.5% pyrite along dark chloritic vein contacts.	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 seriestic with strong sericite at very sharp lower contact (g. 32° tea.	7145	96.00	96.50	0.50		Lower sericitic contact of Syenite	0.36	
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INTE	RVAL	DESCRIPTION					SAM	IPLE		ASSAYS
FROM	то		No.	FROM	то	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° to a and contains $1\% < = 1$ mm, subhedral pyrite with black, chloritic rims in sericite schist.	7146 7147 7148 7149	96.50 97.00 98.00 98.55	97,00 98.00 98.55 98.95	0.50 1.00 0.55 0.40		Massive Lapilli Tuff, weakly sericitic Sheared contact with < 0.5% coarse pyrite	0.05 0.25 0.02 2.47	2.03
48.40	102.75	 ASH-TUFF / LAPILLI-TUFF WITH MUDSTONE Massive to well foliated (50° tca), grey-green to light green intercalated ash- and lapilh-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° tca; lower contact has smeared pyrite dollars and minor disseminated pyrite in a 2 mm white quartz veinlet. 	7150 7501 7502 7503 7504	98.95 99.50 100.00 101.00 101.70	99.50 100.00 101.00 101.70 101.90	0.55 0.50 1.00 0.70 0.20		Intercalated Ash / Lapilli Tuff 15 cm wide quartz vein with very minor pyrite	0.02 0.03 0.02 nii 0.17	
102.75	117.70	 101.90 - 102.75 Lapilli tuff with dark grey trachyte clasts with selective clast replacement by pyrite; contacts are sharp; lower contact sericitie (a 55° tca. 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. 	7505	101.90	102.80	0.90		Pyrite replaced clasts in Lapilli Tuff, < 0.5% pyrite	0.04	
		102.85 - 103.40 Dark to light green aphanitic mudstone with sharp contacts.	7506 7507 7508	102.80 103.10 104.00	103.10 104.00 105.00	0.30 0.90 1.00		Mudstone interbed in Graywacke Massive Graywacke	0.01 0.03 0.04	0.07



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INTER	RVAL		DESCRIPTION					SAM	IPLE		ASSAYS
FROM	то			No.	FROM	то	Longth	% Rec	DESCRIPTION	Au, g/t	Au,Check Au [•] M
	117.70	115.10 - 115.20 E.O.H.	Fault @ 40° tea: quartz breecia; milk-white to grey breeciated quartz vein material, recemented by a later aphanitic, dark grey, siliceous groundmass; fault boundaries are sharp, strong mud breaks with sericite altered wall rock for 5-10 cm around fault; vein carries < 0.51% pyrite.	75(19) 7510 7511 7512 7513 7514 7515 7516 7517 7518 7519 7520 7521 7522 7523	105.00 106.00 107.00 108.00 110.00 111.00 112.00 113.00 113.70 114.50 115.30 116.00 117.00	106.00 107.00 108.00 110.00 110.00 112.00 113.00 113.70 114.50 115.00 115.00 115.70 117.70	1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.70 0.50 0.30 0.70 1.00 0.70		Graywacke with 2% quartz veinlets Quartz breccia vein with < 0.5% pyrite	0.02 0.01 0.04 0.01 0.02 0.02 0.02 0.03 0.01 0.02 0.01 0.02 0.01	0.03

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PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 22 1990	EASTING	8825.00		DEPTH	AZIMUTH	DIP
TOWNSHIP CLAIM No.	Teck L 500057 / 477419	LOGGED BY SIGNED BY DRILLED BY	M. Masson Heath & Sherwood	NORTHING ELEVATION LENGTH	10380.00		Collar 38.00	161	45 44
STARTED	November 19, 1990	SURVEYED BY		UNITS	metres	5.	76.00		42
COMPLETED	November 21, 1990	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ		114.00		38
FURFUSE	anomalies						152.00		38
COMMENTS	Source at the geophysical anomalies was intersected at 114.00 - 147.90 m					Ľ			

	SUMMA	RY LOG	:	ASS	AY SUMMARY	ł
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 1.52 1.52 45.30 45.30 58.80	CASING LAPILLI TUFF COARSE LAPILLI TUFF Moderately sericitic			81.50 82.50 93.60 94.00	1.00 0.40	0.42 0.36
58.80 59.40 59.40 71.65	FAULT ZONE 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.		•			
147.90 155.30 155.30	LAPILLI TUFF / GRAYWACKE Weakly sericitic E.O.H.					

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INTE	RVAL		DESCRIPTION					SAM	PIF		274224
FROM	то			No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/1	Au,Check Au*M
0.00	1.52	CASING									
1.52	45.30	LAPILLI TUFF Dark grey to g angular trachyte although hetere spotted trachyte	green, massive to moderately well foliated (40° tca) with 10-15% e clasts up to 2 cm (avg. 1 cm) is a fine grained grey-green matrix; olithic, approximately 70% of clasts are light grey, fine grained to e; weakly to moderately magnetic, with local zones of hematization.								
4		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.		°1 ;	,' ,4.					
		15.00	Fault @ 45° tca: chlorite + sericite + quartz \pm calcite; 1 cm wide, sharp, tight schist with irregular white-pink quartz \pm calcite veinlet.								
		18.10 - 18.60 31.80 - 32.10	1 mm wide specularite vein @ 10° tca. Series of buff-white quartz veinlets up to 3 mm wide @ 37° tca with light brown, alteration balos up to 0.5 cm wide			ı					
		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 \pm 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° ica; 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	

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INTE	RVAL		DESCRIPTION			·····		SAM	PLF.		25272
FROM	то			No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au.Check Au [•] M
ì	• •	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, HET Upper contact i brown, with 159 to 5 cm (avg. 1-2 non-magnetic;	EROLITHIC LAPILLI-TUFF s marked by a 0.5 cm quartz + chlorite vein @ 15° tca; light pale & coarse, angular to sub-rounded, multi-coloured trachyte clasts up 2 cm), in a very fine grained, pale brown, moderately sericitic matrix; lower contact is strongly faulted, rubbly core.		· .						
		56.50 - 58.80 57.35	Becomes increasingly deformed and sericitized and cut by 1% barren white irregular quartz veinlets and masses. Fault @ 40° tca; 1 cm, white, barren quartz vein on sharp chloritic slips.	7524	58.00	58.80	0.80		Seriticized Lapilli Tuff	0.01	
58.80	59.40	FAULT ZONE Fault zone @ ! plancs through approximately 6	50° tca; strongly deformed sericite schist with strong, talcose slip out, and 1-2% irregular white quartz veinlets; quite rubbly with 5% recovery.	7525	58.80	59.40	0.60	65	Sericite / Talc Schist, fault zone	nil	
59.40	71.65	ASH-TUFF Massive to well patchy sericite a lithic clasts in a sericite alteration 61.00	foliated dark grey-green; mottled brown where unit displays diffuse, alteration fronts; tuff is fine grained, with 10%, ≤ 1 mm, black pale to dark green aphanitic groundmass; contains 5% wispy, spotty on; minor, intercalated lapilli-tuff horizons up to 0.5 metres wide. 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 7527 7528 7529 7530 7531 7532	59.40 60.90 61.30 62.00 63.00 64.00	60.00 60.90 61.30 62.00 63.00 64.00 65.00	0.60 0.90 0.40 1.00 1.00 1.00		Ash Tuff Fault	0.01 nil 0.01 nil 0.04 nil nil	0.09



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INTEI	237.61				·				····			
TRIE	TO TO		DESCRIPTION					SAM	IPLE		ASSAYS	
FROM	10			No.	FROM	TO	Length	% Rec	DESCRIPTION	Au, g/t	Au,Check	Au*M
		65.30 - 65.50	Fault zone @ 35° tca; highly foliated to schistose zone with strong sericite mud break and minor narrow (1-2 mm) brecciated quartz stringers.	7533 7534	65.00 66.00	66.00 67.00	1.00 1.00	95	Numerous strong mud breaks	0.02 0.01		
		65.80 - 65.90	Fault @ 40° tca; very strong mud break with 1-2 cm white-pink quartz vein with numerous chloritic sutures.									
		67.00 - 67.30	Fault zone, moderately deformed, sericitized, with 2% white brecciated quartz masses with dark green, chloritic interstitial material; contacts are tight sericitic slips @ 45° tca.	7535 7536 7537 7538	67.00 67.50 68.00	67.50 68.00 69.00 70.00	0.50 0.50 1.00			0.01 0.02 nil		
		70.40 - 70.50	Fault @ 35° tca; strong sericite + talc slip planes and schists with 1 cm wide white-pink quartz vein.	7539 7540	70.00 71.00	71.00 71.65	1.00 1.00 0.65	70	Rubbly core near contact with Lapilli Tuff	nil nil 0.01	nil	
71.65	114.00	LAPILLI-TUFI Massive to stro clasts up to 2 numerous late,	Fongly foliated, buff-brown to dark green, with 10% angular trachyte cm (avg. 0.5 cm); moderately to strongly sericitized and cut by cross-faults.									
		72.00	Fault @ 25° tca; sharp, tight chlorite slip with 1-2 mm white-pink i quartz veinlet.	7541 7542 7543	71.65 72.75 73.00	72.75 73.00 73.50	1.10 .0.25 0.50		Foliated Lapilli Tuff	nil nil		
		73.50 - 74.30	Rubbly, broken core; strongly foliated tuff with numerous strong chlorite + sericite \pm talc slip planes throughout.	7544 7545 7546	73.50 74.50 75.50	74.50 75.50 76.50	1.00 1.00 1.00	60	Rubbly, broken, shear zone	0.01		
		76.00	Fault @ 40° tca; strong sericite + chlorite + talc shear with 1 cm white-pink quartz vein.	7547	76.50	77.50	1.00			0.01		
		77.00 - 86.50	Massive, less deformed with only patchy zones of sericite alteration proximal to tight cross-faults.	7548 7549 7550	77.50 78.50 70.50	78.50 79.50	1.00 1.00			0.01 0.02		
				7550 7551	79.50 80.50	80.50 81.50	1.00			0.05 0.03		
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INTER	RVAL		DESCRIPTION					SAM	PLE		ASSAYS
FROM	то			No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/l	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 7553 7554 7555 7556	81.50 82.50 83.00 84.00 85.00	82.50 83.00 84.00 85.00 86.00	1.00 0.50 1.00 1.00 1.00			0.35 0.02 0.01 0.01 pit	0.48
		86.50 - 88.80	Dirty grey-brown, quite soft (sericitic); micro-fractured by numerous chlorite ± quartz stringers up to 1 mm wide.	7557 7558 7559 7560 7561 7562 7563	86.00 86.50 87.50 88.00 89.00 90.00 91.00	86.50 87.50 88.00 89.00 90.00 91.00 92.00	0.50 1.00 0.50 . 1.00 1.00 1.00 1.00			0.01 0.01 nil nil nil 0.01 nil	0.01
		. 92.40 - 92.70 93.70 - 93.85	Series of broken, fragmented white-buff to pink quartz breccia veins up to 2 cm, cemented by dark green chloritic groundmass. Well laminated to schistose, with 1 cm wide pseudo-brecciated quartz vein, rehealed by sericite + pyrite stringers; 1% disseminated pyrite.	7564 7565 7566 7567 7568	92.00 92.40 92.90 93.60 94.00	92.40 92.90 93.60 94.00 94.95	0.40 0.50 0.70 0.40		Quartz breccia veins Laminated to schistose zone with 1% pyrite Foliated Lapilli Tuff - minor	nil 0.01 0.01 0.37 0.09	0.35
		95.00 - 95.15 96.50 - 114.00 114.00	Fault @ 15° tca; 3 mm wide chlorite breccia slip sub-parallel to core axis. Massive, undeformed heterolithic lapilli- tuff with 1% late, barren irregular white quartz veinlets; local zones of hematization. Fault @ 70° tca; strong, tight (0.5 cm) mud break with gravelly fault gouge.	7569 7570 7571 7572 7573	94.95 95.50 96.00 112.00 113.00	95.50 96.00 96.50 113.00 114.00	0.55 0.50 0.50 1.00 1.00		pyrite Foliated Tuff, moderately sericitic	0.01 0.01 0.01 0.01 0.01	

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INTE	RVAL	DESCRIPTION					SAM	IPLE		ASSAYS
FROM	то	· · · · · · · · · · · · · · · · · · ·	No.	FROM	то	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 \pm 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 7576 7577 7578	114.85 115.30 116.00 116.50	115.30 116.00 116.50 117.00	0.45 0.70 0.50 0.50		Silicified zone with 1 - 2% pyrite	0.02 0.01 0.01 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. 117.80 - 118.50 Moderately deformed, strongly sericitic, with 0.5% finely disseminated purite. 	7579 7580	117.00 118.00	118.00 118.50	1.00 0.50		Sericitized Tuff with 2 - 3% pyrite	0.01 0.01	
		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		broak and 0.5 - 276 pyrite	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	7583	119.50	120.00	0.50	85	3 - 5% pyrite with strong mud break	0.01	
		± molybdenite; 0.5 cm grey-white quartz vein parallel to slip, fractured by narrow sericite + pyrite sutures; 3-5% pyrite.	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	7585	120.90	121.20	0.30		5% pyrite in strongly deformed Tuff	0.01	
		with 2-3% wormy, dendritic pyrite.	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	100	

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INTER	RVAL	DESCRIPTION	Ι				SAN			ACCAVC
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	An et	Au Check Au*M
		122.90 - 123.50 Blue-grey irregular silicified zones with brecciated wall rock fragments to 0.5 cm, with 2-3% very finely disseminated pyrite. 123.40 2 mm wide sericite + pyrite + tale schist @ 30° tca.	7588	122.90	123.50	0.60	95	2 - 3% pyrite in blue gray silicified zones in strongly deformed Tuff	0.06	0.04
		123.50 - 124.30 Strongly foliated to schistose to laminated (sericite + chlorite + quartz) zone with numerous blue-grey slips and irregular white	7589	123.50	124.30	0.80	95	Foliated to schistose zone with 2% pyrite	0.01	
		quartz veins; 2% total pyrite as disseminations and pyritic veinlets (sutures).	7590	124.30	124.75	0.45			0.01	
		124.75 - 127.50 Strongly deformed and rubbly with 70-80% total recovery due to very high abundance of strong sericite ± talc ± fuchsite ± quartz	7591	124.75	126.00	1.25	70	Rubbly core, sericite schist, 2%	0.01	
		schists throughout this section; sericite schist contains 5-10% white to blue-grey quartz veinlets and 3-5% disseminated pyrite.	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 Less strongly deformed, primary textures still evident, but contains some tightly confined pyritic, silicified zones. 127.70 2-3 cm wide dark arey silicified zone with 3-5% disseminated pyrite.	7594	127.50	128.00	0.50		Sericitized Lapilli Tuff with pyritic silicified zones, 3 - 5%	0.01	
		128.15 - 128.30 Fractured, grey-white silicified zone with 2-3% disseminated pyrite. 128.30 - 129.30 Massive to moderately foliated, moderately sericitized lapilli-tuff	7595 7596	128.00 128.30	128.30 129.30	0.30 1.00		pyric	0.01 0.01	
		 With approximately 0.5% stringer pyrite. 129.30 - 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 	7597 7598 7599	129.30 130.00 130.85	130.00 130.85 131.80	0.70 0.85 0.95		Silicified Tuff with 2% pyrite Moderately silicified with 1 - 2%	0.01 0.01 0.01	0.01
		sharp hairline pyrite + sericite suture; 2-3% irregular white quartz masses and blebs throughout.	7600	131.80	132.50	0.70		pyrite Silicified zone with 2 - 3% pyrite	0.01	
			7601 7602 7603	132.50 133.00	133.00 134.00	0.50 1.00 0.80			0.01 0.01	
			7604	134.80	135.50	0.70			0.01	
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INTER	RVAL		DESCRIPTION					SAM	IPLE		ASSAYS
FROM	то]		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au, Check Au [•] M
		135.80 - 138.15 H	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	7605 7606	135.50 136.00	136.00 136.50	0.50 0.50		Sericitized Tuff with 1% disseminated pyrite and pyrite +	0.01 0.01	
			pyrite + quartz zones up to 3 cm wide centred on a sharp sericite + pyrite slip.	7607 7608	136.50 137.35	137.35 138.15	0.85 0.80		quartz veins Sericitized Tuff with 0.5% pyrite Sericitic Tuff with quartz + pyrite zones @ 137.80 m (3 cm wide)	níl 0.01	
		138.15 - 138.45 S	Silicified zone of dark grey to white siliceous matrix which is fractured and pseudo-brecciated by numerous $\leq = 0.5$ mm pyrite + sericite sutures; contacts are sharp, strong, dark grey, sericite + polybelenite slips @ 35° total are ited.	7609	138.15	138.45	0.30		Silicified zone with 3 - 5% pyrite	0.02	0.02
		138.45 - 140.07	Dark grey-blue, moderately silicified, quite hard, with local sericitic, light green sections up to 10 cm wide; silicified sections carry 1-2% disseminated pyrite and 3-5% barren, white quartz veinlets.	7610 7611 7612	138.45 139.00 140.00	139.00 140.00 140.70	0.55 1.00 0.70			0.01 0.01 0.01	
		140.70 140.70 - 142.10	Sharp chlorite + quartz slip @ 60° tca. 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	7613	140.70	141.40	0.70		Ash Tuff with banded pyrite beds? and 0.5% disseminated pyrite	0.02	
		1 1	tight (1 mm) sericite slip @ 70° tca.	7614	141.40	142.10	0.70		1.	0.01	
		142.10 - 143.40	Massive, dark grey, fine grained tuff with weak, spotty sericite	7615	142.10	142.60	0.50			0.01	
		143.40	alleration and $<< 0.5\%$ pyrite; weakly sincified. Sharp, dark grey sericite + pyrite slip @ 40° tca	/010	142.60	14.5.40	0.80			0.02	
		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,	7617	143.40	144.00	0.60		Highly silicified zone with 3 - 4% pyrite	0.01	0.02
		i	massive to brecciated quartz veins up to 5-6 cm; relict lapilli tuff is still evident locally.	7618 7619 7620	144.00 144.50 145.00	144.50 145.00 145.45	0.50 0.50 0.45		Silicified zone, 2 - 3% pyrite	0.02 0.02 0.01	
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INTER	RVAL	DESCRIPTION		<u> </u>			SAN				
FROM	то		No.	FROM	ТО	Length	% Rec	DESCRIPTION	Au, g/t	Au,Check	Au*M
		 145.45 - 146.60 Quartz breccia-fault zone; very strongly deformed section comprised of 25% sharp strong sericite + pyrite ± talc slip planes @ 20°-60° tca; matrix is grey-white, silicified, and carries 3-5% disseminated pyrite; 25% late white-buff quartz veins up to 4 cm, fractured to brecciated and intruded by irregular sericite + pyrite sutures; prominent choosing et 60% etc. 	7621 7622	145.45 146.00	146.00 146.60	0.55		Quartz breccia zone, 3 - 5% pyrite	0.01		
		146.60 - 147.90 Moderately silicified, light to dark grey matrix with 1-2% disseminated and wispy pyrite along sericitic sutures; some primary	7623	146.60	147.40	0.8 0		Moderately silicified Tuff with 1 - 2% disseminated pyrite	0.02		
		 lapilli clasts are evident, some of which are fuchsitic. 147.70 - 147.90 Series of strong, sharp sericite + chlorite + talc slip planes @ 40° tca with some smeared pyrite; interstitial, very irregular, fractured white-buff quartz veins. 	7624	147.40	148.00	0.60		277	0.01		
147.90	155.30 155.30	MIXED LAPILLI-TUFF / GRAYWACKE Massive to well foliated, light to dark green, with 5-15% trachyte clasts, up to 1 cm, in a fine grained ash/graywacke matrix, which locally contains up to 3-5% quartz; within this lapilli-tuff is the occasional (1-2%) well rounded pebble and jasper clast, which are typically considered to be sedimentary; matrix has patchy, mottled, sericite alteration and spotty sericite throughout. E.O.H.	7625 7626 7627 7628 7629 7630 7631 7632	148.00 149.00 150.00 151.00 152.00 153.00 154.00 154.50	149.00 150.00 151.00 152.00 153.00 154.00 154.50 155.30	1.00 1.00 1.00 1.00 1.00 1.00 0.50 0.80		Massive, moderately sericitized Lapilli Tuff / Graywacke	0.01 nil nil nil nil nil nil		
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PROPERTY	Amalgamated Kirkland	DATE LOGGED	November 26 1990	EASTING	8250.00	DEPTH	AZIMUTH	DIP	
TOWNSHIP CLAIM No. STARTED COMPLETED PURPOSE COMMENTS	Teck L 491663 November 21, 1990 November 25, 1990 To undercut hole AK-90-07 The '102' structure was intersected at 129.70 - 168.00m	LOGGED BY SIGNED BY DRILLED BY SURVEYED BY CORE LOCATION	M. Masson Hearn & Sherwood K.L. Warehouse	NORTHING ELEVATION LENGTH UNITS CORE SIZE	10145.00 191.70 metres NQ	Collar 38.00 76.00 114.00 152.00 190.00	341	55 55 55 54 54 54 50	

	SUMMA	RY LOG		ASSA	Y SUMMARY	SUMMARY	
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t	
0.00 1.20 1.20 22.50 22.50 23.15 23.15 37.00 37.00 75.70 90.70 104.50 104.50 114.40 114.40 118.70 122.60 129.70 129.70 131.10 131.10 191.70	CASING LAPILLI TUFF FAULT ZONE @ 30° tca LAPILLI / ASH TUFF Hematitic, sericitic LAPILLI TUFF COARSE LAPILLI TUFF LAPILLI TUFF COARSE LAPILLI TUFF LAPILLI TUFF ASH TUFF FAULT ZONE @ 50° tca GRAYWACKE 131.10 - 168.00 Sericitic, 2 - 3% chlorite + quartz veinlets, 0.5% pyrite 141.85 - 142.10 Fault @ 30° tca, 3 cm quartz vein, trace chalcopyrite	191.70	 157.45 - 157.52 3 cm quartz - pyrite vein @ 60° tca, 2 - 3% pyrite 168.00 - 185.65 Weakly's sericitic, 0.5% white quartz veining with trace pyrite 185.65 - 191.70 Very weakly sericitic E.O.H. 	141.85 142.35	0.50	0.19	

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INTE	RVAL	DESCRIPTION					SAM	IPLE		ASSAYS	5
FROM	то		No.	FRO	OT N	Length	% Rec	DESCRIPTION	Au, g/t	Au,Check	c Au*M
0.00	1.20	OVERBURDEN /CASING DRIVEN TO 4.0 M			·						
1.20	22.50	LAPILLI-TUFF Massive, dark grey-green, with 5-20% angular, heterolithic, buff-brown to grey to pink, fine grained to spotted trachyte clasts, up to 2 cm (avg. 1 cm), in a dark green, fine grained ash matrix of 30% lithic clasts (including some very minor jasper) up to 0.5 mm in an aphanitic groundmass; moderately magnetic; cut by 1-2% white-pink quartz \pm calcite veinlets up to 0.5 cm.			1	' ×					
		7.15 Fault @ 50° tca; highly foliated zone with moderate ankerite staining, and tight chlorite slips.									
22.50	23.15	FAULT ZONE Fault zone @ 30° tca; upper contact is a sharp chlorite + sericite slip with 0.5 cm white-pink quartz + calcite veinlet.									
		 22.70 Strong fault breccia and mud gouge within highly sericitized and foliated tuff. 22.70 - 23.15 Strongly foliated and sericitized with weak ankerite staining and late pink quartz veining; lower contact is a sharp, tight sericite slip. 									
23.15	37.00	LAPILLI-TUFF / ASH TUFF Intercalated, massive ash- and lapilli-tuff beds up to 1.5 metres wide, with gradational contacts; distinctive section, predominantly hematitic (red-brown to purple) with irregular, patchy zones of sericitized matrix (light brown to yellow- green), generally proximal to tight faults and late quartz \pm calcite \pm chlorite veinlets.									
		25.20 Fault @ 30° tca: sericite + chlorite + quartz; 0.5 cm laminated, quartz + sericite + chlorite vein on sharp chlorite + sericite slip.	,								

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INTE	RVAL	DESCRIPTION	T	1 1 . 19	*1		SAM	PLE	ASSAYS
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t Au, Check Au [•] M
		 27.27 - 27.70 Fault @ 10° tca; 103 cm, barren, white-buff to pink quartz vein or sharp chlorite + sericite slip running sub-parallel tca. 33.00 - 34.00 Moderate sericite alteration of framework while matrix is predominantly hematitic; lower contact of alteration is ver gradational. 	5						
37.00	75.70	IAPILLI-TUFF Massive, dark, grey-green to red-brown where hematitic, with 5-15% angular predominantly light grey to pink, fine grained to spotted trachytic clasts, up to 2 cr (avg. 1 cm), in a fine grained, dark grey-green to purple ash matrix of 20%, $<+$ 0. mm lithic clasts in an aphanitic groundmass; moderately magnetic; cut by 1-2% late white-pink quartz ± calcite veinlets up to 1 cm.	,		. '	Ţ			
		 40.80 - 41.20 Fault @ 10° tca; 2 cm laminated quartz + sericite + chlorit veinlet on a sharp, irregular chlorite + sericite slip sub-parallel t core axis; wall rock weakly to moderately sericitized. 56.20 - 56.30 Fault @ 25° tca: sericite + chlorite + quartz; contacts are shar tight chlorite + sericitic ± mud gouge slips; interstitial to sli planes are sericitized lapilli-tuffs with 25% irregular white-pin quartz veinlets and masses. 61.00 Intercalated, minor ash-tuff beds up to 1.5 metres wide, wit occasional good bedding @ 30°-35° tca. 75.70 Fault @ 40° tca; sharp (1 mm) chlorite + sericite slip with a 0. mm white-pink, quartz + chlorite veinlet. 		н н 		1			
75.70	90.70	COARSE HETEROLITHIC LAPILLI-TUFF Massive, dark grey-green, with 25% coarse angular to sub-rounded, red-brown to pink to grey to black, fine grained to porphyritic trachyte clasts, up to 10 cm (av 3-5 cm); matrix is dark grey-green, fine grained of $15-20%$, $<=1$ mm heterolith clasts in an aphanitic groundmass; locally strongly magnetic; lower contact	D J. S						



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INTE	RVAL	DESCRIPTION			. 1	1	SAM	PLE		ASSAYS	
FROM	то		No.	FROM	то	Length	% Rec	DESCRIPTION	Au, g/t	Au,Check	Au*M
		gradational.									
		89.35Fault @ 55° tca; sharp chloritic slip with 0.5 mm quartz veinlet.87.35 - 89.85Moderately 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	 IAPILLI-TUFF / ASII-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 7638 7639 7640 7641 7642	114.50 115.00 116.00 117.00 118.00	115.00 116.00 117.00 118.00 118.70	0.50 1.00 1.00 1.00 0.70		Lapilli Tuff Ash Tuff with weak sericite bleaching	0.03 0.04 0.03 0.01 0.03	0.03	
			7642	118.70	119.40	0.70		·	U. US	0.03	



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INTE	RVAL	DESCRIPTION					SAM	IPLE		ASSAYS	
FROM	то		No.	FROM	то	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 7644	119.40 120.35	120.35 121.00	0.95 0.65		Sericitic fault zone Foliated Lapilli Tuff	0.02 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	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 7647	121.60 122.00	122.00 122.60	0.40 0.60		Massive Lapilli Tuff Foliated Tuff	0.01 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 7649 7650 7651 7652 7653 7654 7655	122.60 123.20 124.00 125.00 126.00 127.00 128.00 129.00	123.20 124.00 125.00 126.00 127.00 128.00 129.00 129.70	0.60 0.80 1.00 1.00 1.00 1.00 1.00 0.70		Ash Tuff with 5% magnetite	0.01 0.02 0.01 0.01 0.04 0.01 0.01	0.02	

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| DECODIDITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| FAULT ZONE<br>Fault zone @ 50° tca: sericite + chlorite + quartz $\pm$ gouge; leading contact of zone<br>is a strong sharp mud break approximately 1 mm wide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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  | Sericitized fault zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| <ul> <li>130.15 - 130.70 Light pink-brown, possible silicified (very hard) ash-tuff?</li> <li>130.70 - 131.10 Moderately to strongly foliated, with 15-20% wispy and spotty sericite throughout, and 3% boudinaged quartz veinlets.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7657<br>7658                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                                                                                        | 0.55<br>0.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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  | silicified ? zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| <ul> <li>GRAYWACKE</li> <li>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. (&lt;0.5% of total unit); the numerous 1-3 mm chlorite ± quartz veinlets throughout locally produce a pseudo-brecciated, "crack and seal" texture.</li> <li>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.</li> </ul> | 7659<br>7660<br>7661<br>7663<br>7664<br>7665<br>7665<br>7665<br>7666<br>7667<br>7668<br>7669<br>7670<br>7671<br>7672<br>7673<br>7674<br>7675<br>7676                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 131.20<br>132.00<br>133.00<br>133.50<br>134.50<br>136.50<br>136.50<br>136.50<br>137.50<br>138.00<br>140.00<br>141.00<br>141.85<br>142.35<br>143.00<br>144.00<br>145.00<br>146.00<br>147.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 132.00<br>133.00<br>133.50<br>134.50<br>135.50<br>136.50<br>137.50<br>138.00<br>139.00<br>140.00<br>141.00<br>141.85<br>142.35<br>143.00<br>144.00<br>144.00<br>145.00<br>146.00<br>147.00<br>148.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.80<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>0.50<br>1.00<br>1.00<br>0.85<br>0.50<br>0.65<br>1.00<br>1.00<br>1.00<br>1.00<br>0.45<br>0.50<br>1.00<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Massive Graywacke<br>Fault zone with 3 cm quartz vein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.01<br>0.02<br>0.01<br>0.02<br>0.01<br>0.02<br>0.01<br>0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <ul> <li>DESCRIPTION</li> <li>FAULT ZONE         Fault zone @ 50° tca: sericite + chlorite + quartz ± gouge; leading contact of zone is a strong sharp mud break approximately 1 mm wide.     </li> <li>129.70 - 130.15 Strongly foliated to schistose zone of predominantly sericite + chlorite with 5% boudinaged quartz veinlets up to 0.5 cm wide.     </li> <li>130.15 - 130.70 Light pink-brown, possible silicified (very hard) ash-tuff?</li> <li>130.70 - 131.10 Moderately to strongly foliated, with 15-20% wispy and spotty sericite throughout, and 3% boudinaged quartz veinlets.</li> <li>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. (&lt;0.5% of total unit); the numerous 1-3 mm chlorite ± quartz veinlets throughout locally produce a pseudo-brecciated, "crack and seal" texture. </li> <li>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.     </li> </ul> | DESCRIPTION         No.           FAULT ZONE<br>Fault zone @ 50° tca: sericite + chlorite + quartz ± gouge; leading contact of zone<br>is a strong sharp mud break approximately 1 mm wide.         7656           129.70 - 130.15 Strongly foliated to schistose zone of predominantly sericite +<br>chlorite with 5% boudinaged quartz veinlets up to 0.5 cm wide.         7656           130.15 - 130.70 Light pink-brown, possible silicified (very hard) ash-tuff?         7657           130.70 - 131.10 Moderately to strongly foliated, with 15-20% wispy and spotty<br>sericite throughout, and 3% boudinaged quartz veinlets.         7658           GRAYWACKE         7659         7659           Massive, moderately well sorted, light grey-green, with 30% fine lithics, including<br>jasper, in a grey-white groundmass of quartz + feldspar in roughly equal proportion<br>and 3-5% pervasive, spotty sericite; as a whole this unit contains 1-2% light green,<br>aphanitic mudstone clasts up to 5 cm randomly scattered throughout;<br>characteristically weak to non-magnetic; contains 0.5% pervasively disseminated<br>pyrite, and 2-3% quartz ± chlorite veinlets, up to 2-3 cm. Pyrite mineralization in<br>this unit is very limited and scattered, as 0.5 - 2 mm wide pyritic veinlets with no<br>visible preferred orientation. (<0.5% of total unit); the numerous 1-3 mm chlorite<br>± quartz veinlets throughout locally produce a pseudo-brecciated, "crack and seal"<br>texture.         7667           141.85 - 142.10 Fault @ 30° tca; leading contact is a sharp chlorite slip, weakly<br>chalcopyrite.         7672           141.85 - 142.10 Fault @ 30° tca; leading contact is a sharp chlorite slip, weakly<br>chalcopyrite.         7674 | DESCRIPTION         No.         FROM           FAULT ZONE<br>Fault zone @ 50° tca: sericite + chlorite + quartz ± gouge; leading contact of zone<br>is a strong sharp mud break approximately 1 mm wide.         7656         129.70           129.70 - 130.15         Strongly foliated to schistose zone of predominantly sericite +<br>chlorite with 5% boudinaged quartz veinlets up to 0.5 cm wide.         7656         129.70           130.15         130.70 Light pink-brown, possible silicified (very hard) ash-tuff?         7657         130.15           130.70 - 131.10         Moderately to strongly foliated, with 15-20% wispy and spotty<br>sericite throughout, and 3% boudinaged quartz veinlets.         7659         131.20           GRAYWACKE         Massive, moderately well sorted, light grey-green, with 30% fine lithics, including<br>jasper, in a grey-white groundmass of quartz + feldspar in roughly equal proportion<br>and 3-5% pervasive, spotty sericite; as a whole this unit contains 1-2% light green,<br>aphanitic mudstone clasts up to 5 cm randomly scattered throughout;<br>characteristically weak to non-magnetic; contains 0.5% pervasively disseminated<br>pyrite, and 2-3% quartz ± chlorite veinlets, up to 2-3 cm. Pyrite mineralization in<br>this unit is very limited and scattered, as 0.5 - 2 mm wide pyritic veinlets with no<br>visible preferred orientation. (<0.5% of total unit); the numerous 1-3 mm chlorite<br>± quartz veinlets throughout locally produce a pseudo-brecciated, "crack and seal"<br>talcose; 3 cm wide white quartz vein with chloritic walls and minor<br>sericitized wall rock clasts, as well as very minor, blebby<br>chalcopyrite.         7631         134.50           141.85         142.10         Fault @ 30° tca; le | DESCRIPTION         No.         FROM         TO           FAULT ZONE<br>Fault zone @ 50° tca: sericite + chlorite + quartz ± gouge; leading contact of zone<br>is a strong sharp mud break approximately 1 mm wide.         7656         129.70         130.15         Strongly foliated to schistose zone of predominantly sericite +<br>chlorite with 5% boudinaged quartz veinlets up to 0.5 cm wide.         7656         129.70         130.15         Strongly foliated to schistose zone of predominantly sericite +<br>chlorite with 5% boudinaged quartz veinlets up to 0.5 cm wide.         7657         130.15         130.70           130.70         131.10         Moderately to strongly foliated, with 15-20% wispy and spotty<br>sericite throughout, and 3% boudinaged quartz veinlets.         7659         131.20         132.00           GRAYWACKE         Massive, moderately well sorted, light grey-green, with 30% fine lithics, including<br>jasper, in a grey-white groundmass of quartz + feldspar in roughly equal proportion<br>aphanitic mudstone clasts up to 5 cm randomly scattered throughout;<br>characteristically weak to non-magnetic; contains 0.5% pervasively disseminated<br>pyrite, and 2-3% quartz ± chlorite veinlets, up to 2-3 cm. Pyrite mineralization in<br>this unit is very limited and scattered, as 0.5 - 2 mm wide pyritic veinlets with no<br>visible preferred orientation. (<0.5% of total unit); the numerous 1-3 mm chlorite<br>texture.         7661         133.00         7661         136.00         7661         130.00         7661         130.00         7661         130.01         7661         130.50         7661         135.50         7661 | DESCRIPTION         No.         FROM         TO         Length           FAULT ZONE<br>Fault zone @ 50° tca: sericite + chlorite + quartz ± gouge; leading contact of zone<br>is a strong sharp mud break approximately 1 mm wide.         7656         129.70         130.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.15         0.1 | DESCRIPTION         SAM           FAULT ZONE:<br>Fault zone @ 50° tca: sericite + chlorite + quartz ± gouge; leading contact of zone<br>is a strong sharp mud break approximately 1 mm wide.         7656         129.70         130.15         0.45           129.70 - 130.15         Strongly foliated to schistose zone of predominantly sericite +<br>chlorite with 5% boudinaged quartz veinlets up to 0.5 cm wide.         7656         129.70         130.15         0.45           130.15 - 130.70         Light pink-brown, possible silicified (very hard) ash-tuff?         7657         130.15         130.70         0.55           130.70 - 131.10         Moderately to strongly foliated, with 15-20% wispy and spotty<br>sericite throughout, and 3% boudinaged quartz veinlets.         7659         131.20         132.00         0.80           GRAYWACKE         Massive, moderately well sorted, light grey-green, with 30% fine lithics, including<br>jasper, in a grey-while groundmass of quartz + feldspar in roughly equal proportion<br>aphanitic mudstone clasts up to 5 cm randomly scattered throughout;<br>characteristically weak to non-magnetic; contains 0.5% pervasively disseminated<br>pyrite, and 2-3% quartz ± chlorite veinlets, up to 2-3 cm. Pyrite mineralization in<br>this unit is very limited and scattered, as 0.5 - 2 mm wide pyritic veinlets with no<br>visible preferred orientation. (<0.5% of total unit); the numerous 1-3 mm chlorite<br>± quartz veinlets throughout locally produce a pseudo-brecciated, "crack and sea"<br>talcose; 3 cm wide white quartz vein with chloritic walls and minor<br>sericitized wall rock clasts, as well as very minor, blebby<br>chalcopyrite.         141.85         142.00         140.0 | DESCRIPTION         SAMPLE           No.         FROM         TO         Length         % Rec         DESCRIPTION           FAULT ZONE         Fault zone @ 50° tea: sericite + chlorite + quariz ± gouge; leading contact of zone is a strong sharp mud break approximately 1 mm wide.         7656         129.70         130.15         0.45         Sericitized fault zone chlorite strong 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 quarz veinlets up to 0.5 cm wide.         7656         129.70         130.15         0.45         Sericitized fault zone silicified (very hard) sah-tuff?           130.70         131.01         Moderately to strongly foliated, with 15-20% wityp and sporty sericite: sa whole this unit contains 1-2% light green, appanitic mudstone clasts up to 5 cm randomly scattered throughout, characteristically weak to non-magnetic; contains 0.5% pervasively disseminated 7664         7651         131.00         133.00         133.00         133.00         135.00         135.50         100           rist quartz veinder denientation. (<0.5% of total unit); the numerous 1-3 mm chlorite reinders units on 30.50 | DESCRIPTION         SAMPLE           No.         FROM         TO         Length         % Rec         DESCRIPTION         Au, gri           FAULT ZONE         Fault zone @ 50° tcs: scricite + chlorite + quartz ± gouge; leading contact of zone is a strong sharp mud break approximately 1 mm wide.         7656         129.70         130.15         0.45         Scricitized fault zone         0.02           129.70         130.15         Strong by foliated to schistose zone of predominantly sericite + chlorite with 5% boudinaged quartz veinlets up to 0.5 cm wide.         7657         130.15         0.45         Scricitized fault zone         0.02           130.70         131.10         Moderately vell sorted, light grey-green, with 30% fine lihics, including isper, in a grey-white groundmass of quartz + feldspar in roughly equal proportion and 35% pervasive, spotty sericit; as a whole this unit contains 12% light green.         7659         131.20         132.00         133.00         1.00           7654         132.02         133.00         1.00         7663         133.00         1.00         0.02           8         Istrong sharp mud sorty scattered throughout; natistation in roughly equal proportion and 3-5% pervasive, spotty sericit; as a whole this unit contains 12% light gree.         7659         131.20         132.00         133.00         1.00         0.02           141.85         142.30         GRAYWACKE |

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

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

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| INTERVAL |        | DESCRIPTION | SAMPLE |      |                 |        |       |             |         | ASSAYS  |        |  |  |
|----------|--------|-------------|--------|------|-----------------|--------|-------|-------------|---------|---------|--------|--|--|
| FROM     | ТО     |             | No.    | FROM | то              | Length | % Rec | DESCRIPTION | Au, g/1 | Au,Chec | k Au*M |  |  |
|          | 191.70 | Е.О.Н.      |        |      | I               |        |       |             |         |         |        |  |  |
|          |        |             |        |      | 1               |        |       |             |         |         |        |  |  |
|          |        |             |        |      |                 |        | ·     |             |         |         |        |  |  |
|          |        | 1<br>1      |        | M 20 | 1997 - 19<br>19 |        |       |             |         |         |        |  |  |
|          |        |             |        |      |                 |        |       |             |         |         |        |  |  |
|          |        |             |        |      | . 1             |        |       |             |         |         |        |  |  |
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| PROPERTY                                                             | Amalgamated Kirkland                                                                                                                                       | DATE LOGGED                                                          | Nov. 27-28 1990                                 | EASTING                                               | 8190.00                            | DEPTH                                        | AZIMUTH | DIP                        |  |
|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------|------------------------------------|----------------------------------------------|---------|----------------------------|--|
| FOWNSHIP<br>CLAIM No.<br>STARTED<br>COMPLETED<br>PURPOSE<br>COMMENTS | Teck<br>L 491663<br>November 25, 1990<br>November 27, 1990<br>To undercut hole AK-90-08<br>The 102 - 8170 gold zone was<br>intersected at 136.25 - 140.00m | LOGGED BY<br>SIGNED BY<br>DRILLED BY<br>SURVEYED BY<br>CORE LOCATION | M. Masson<br>Heath & Sherwood<br>K.L. Warehouse | NORTHING<br>ELEVATION<br>LENGTH<br>UNITS<br>CORE SIZE | 10140.00<br>151.00<br>metres<br>NQ | Collar<br>38.00<br>76.00<br>114.00<br>151.00 | 341     | 55<br>55<br>54<br>53<br>52 |  |

|                                                 | SUMMA                                                                                                                                                                                          | RY LOG              |             | ASSAY SUMMARY              |                     |                   |  |  |  |  |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------|----------------------------|---------------------|-------------------|--|--|--|--|
| INTERVAL<br>From To                             | DESCRIPTION                                                                                                                                                                                    | INTERVAL<br>From To | DESCRIPTION | INTERVAL<br>From To        | LENGTH<br>in metres | AVERAGE<br>Au g/t |  |  |  |  |
| 0.00 1.20<br>1.20 36.10<br>36.10 64.15          | CASING<br>COARSE LAPILLI TUFF<br>LAPILLI TUFF<br>47.80 - 49.60 Fault @ 0 - 10° tca<br>53.70 - 56.70 Fault @ 0 - 108 tca                                                                        |                     |             | 136.25 140.00<br>including | 3.75                | 2.74              |  |  |  |  |
| 64.15 126.75                                    | COARSE LAPILLI TUFF<br>92.20 - 92.35 Silicified zone<br>96.50 - 96.70 2 - 3% pyrite in brecciated quartz<br>calcite zone                                                                       |                     |             | and 138.50 140.00          | 1.50                | 6.35              |  |  |  |  |
| 126.75 136.25<br>136.25 136.50<br>136.50 151.00 | SERICITIC LAPILLI TUFF<br>FAULT ZONE @ 40° tca<br>GRAYWACKE<br>136.50 - 143.00 Moderately to weakly sericitic,<br>1 - 2% 0.1 to 4 cm white quartz<br>veins, 0.5% pyrite along vein<br>contacts |                     |             |                            |                     |                   |  |  |  |  |
| 151.00                                          | 143.00 - 151.00 Weakly sericitic<br>E.O.H.                                                                                                                                                     |                     |             |                            |                     |                   |  |  |  |  |

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#### HOLE: AK-90-24

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| INTERVAL      |                | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                      |                                           |                                           | ASSAYS                               |         |             |                                  |          |        |
|---------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------|-------------------------------------------|--------------------------------------|---------|-------------|----------------------------------|----------|--------|
| FROM          | то             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No.                                  | FROM                                      | то                                        | Length                               | % Rec   | DESCRIPTION | Au, g/t                          | Au,Checi | ∠ Au*M |
| 0.00          | 1.20           | OVERBURDEN - CASING DRIVEN TO 4.0 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      |                                           |                                           |                                      | <u></u> |             |                                  |          | -      |
| 1.20<br>36.10 | 36.10<br>64.15 | COARSE, MONOLITHIC LAPILLI-TUFF<br>Very recognizable unit which is massive, dark green to dark purple (hematitic) and<br>comprised of 5-25% coarse, angular to sub-rounded red-pink trachyte clasts up to 7<br>cm (avg. 1-3 cm), in a fine grained lithic / ash tuff matrix; matrix of 15-25% lithic<br>clasts (predominantly pink-red), up to 1 mm, in an aphanitic groundmass; the pink-<br>red clasts are fine grained to porphyritic and form 75% of the clasts in the<br>framework and matrix; moderately to strongly magnetic; cut by 1-2% late, barren,<br>pink quartz $\pm$ calcite veins up to 3-4 cm wide; lower contact of unit is quite<br>gradational from 31.50 - 36.10 m.<br>11.60 - 12.10 Rubbly core due to open chlorite + hematite slips @ 15° tca.<br>HETEROLITHIC LAPILLI-TUFF<br>Massive dark arevergent with 5.15% angular heterolithic trachutic clasts up to 3      |                                      |                                           | · · · · ·                                 |                                      |         |             |                                  |          |        |
| :             |                | <ul> <li>cm (avg. 1 cm), variable in colour and texture, in a very fine grained dark green-grey matrix; intercalated very fine ash-tuff horizons, &lt;= 0.5 metres wide, well bedded @ 20° tca, but with irregular convoluted contacts with lapilli-tuff horizons; moderately magnetic.</li> <li>47.80 - 49.60 Fault @ 10°-15° tca; sericite + chlorite + quartz + calcite; very highly deformed, schistose zone comprised of 75% wispy and spotty sericite and tight chloritic slips with 25% irregular white-pink quartz + calcite ± chlorite veinlets throughout; contacts are strong, sharp sericite slips with minor mud gouge and talc.</li> <li>53.70 - 56.70 Fault @ 0°-10° tca; as above.</li> <li>56.70 - 63.00 Hematized dark red-purple.</li> <li>63.00 - 64.15 Series of low angle (10°-15° tca), tight chloritic slips with narrow, pink quartz + calcite veinlets.</li> </ul> | 7729<br>7730<br>7731<br>7732<br>7733 | 46.00<br>47.00<br>47.80<br>48.80<br>49.70 | 47.00<br>47.80<br>48.80<br>49.70<br>50.50 | 1.00<br>0.80<br>1.00<br>0.90<br>0.80 |         | Cross fault | 0.01<br>nit<br>nit<br>nil<br>nil |          |        |

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| INTE  | INTERVAL |                                                                                                               | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                          |                                                                                                                                                                                            | ASSAYS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                          |                                                             |         |     |      |
|-------|----------|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------|-----|------|
| FROM  | то       | ]                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No.                                                                                                                                                                                                                                                                                                                                                         | FROM                                                                                                                                                                     | то                                                                                                                                                                                         | Length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | % Rec | DESCRIPTION                                                                                                                                                                              | Au, g/t                                                     | Au,Chec | k A | .u*M |
| 64.15 | 126.75   | COARSE, HET<br>Dark grey-greet<br>clasts up to 10 d<br>very variable fro<br>looks very muc<br>framework is tr | <b>EROLITHIC LAPILLI-TUFF</b><br>n, massive, with 10-20% coarse, angular to sub-rounded, trachy<br>cm (avg. 2-3 cm) in a fine grained, dark grey-green matrix; clasts a<br>om dark grey- green to pink to brown, but all appear to be trachyt<br>ch like a conglomerate, but matrix contains no visible quartz, an<br>'achyte; locally moderately magnetic.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | e<br>;<br>;                                                                                                                                                                                                                                                                                                                                                 | -                                                                                                                                                                        |                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                          |                                                             | an      |     |      |
|       |          | 85.90 - 86.95<br>86.95 - 110.00<br>92.20 - 92.35<br>96.50 - 96.70                                             | <ul> <li>Fault zone @ 35°-40° tca: chlorite + sericite + fault gouge; stronmud break centred @ 86.50 - 86.60 m with strong fault goug surrounding unit is strongly foliated to schistose (sericite chlorite) with minor boudinaged quartz veinlets.</li> <li>1-2% multiple quartz ± calcite veinlets up to 1 cm wide (2 generation), generally barren, but may contain minor chalcopyrin places.</li> <li>Light grey-brown, very fine grained silicified zone with very gradudiffuse contacts; little to no visible sulphides.</li> <li>Pyritic zone, 2-3 cm wide, bleached (grey-white) with 2-3 disseminated pyrite in a grey-white quartz + calcite groundmass of the up hole side of a 1 cm quartz breccia vein with included war rock fragments which have 1-2% pyrite; down hole side of quart very is a bleached (grey-white) tuff with pyritic stringers and blet very little disseminated pyrite; this zone appears to be coincident with a contact between coarse lapilli-tuff and a finer ash-flapilli-tu horizon; lower contact of zone is very sharp, tight chloritic slip 55° tca.</li> </ul> | 7734           g         7735           7736         7737           7737         7738           3         7739           7740         7741           1         7742           7743         7744           7745         7746           7746         7747           1         7749           2         7750           3         7752           7         7753 | 85.00<br>85.90<br>86.90<br>87.90<br>88.50<br>90.00<br>91.00<br>92.00<br>92.50<br>93.00<br>94.00<br>94.50<br>95.50<br>96.40<br>96.80<br>97.50<br>98.00<br>99.00<br>100.00 | 85.90<br>86.90<br>87.90<br>88.50<br>90.00<br>91.00<br>92.00<br>92.50<br>93.00<br>94.00<br>94.50<br>95.50<br>96.40<br>96.80<br>97.50<br>98.00<br>98.00<br>91.00<br>91.00<br>90.00<br>100.00 | 0.90<br>1.00<br>1.00<br>0.60<br>0.50<br>1.00<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00<br>0.00<br>0.50<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00 |       | Massive coarse Tuff<br>Fault zone<br>Massive Tuff<br>Massive Lapilli Tuff with 1 - 2%<br>quartz veinlets<br>Silicified zone<br>Sulphide zone with 2 - 3% pyrite<br>+ quartz breccia vein | 0.01<br>nii<br>nii<br>nii<br>nii<br>nii<br>nii<br>nii<br>ni | 0.01    |     |      |


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|--------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------|----------------------------------|-------------------------------------------------------------------------|----------------|
| INTE   | RVAL   | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                      |                                                                                                  |                                                                                                            |                                                                             | SAM   | IPLE                             |                                                                         | ASSAYS         |
| FROM   | ТО     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | No.                                                                                                  | FROM                                                                                             | ТО                                                                                                         | Length                                                                      | % Rec | DESCRIPTION                      | Au, g/t                                                                 | Au, Check Au*M |
| 4      |        | <ul> <li>101.25 - 101.40 Fault @ 20° tca; tight sericite + chlorite slip with 1 -2 nm quartz + calcite veinlet; moderate sericitization of wall rock for 1 cm proximal to slip.</li> <li>118.00 - 126.75 Predominantly hematitic, but with some patchy zones of diffuse sericitization proximal to veinlets.</li> </ul>                                                                                                                                                                                                   | 7754<br>7755<br>7756                                                                                 | 101.00<br>124.00<br>125.00                                                                       | 102.00<br>125.00<br>126.00                                                                                 | 1.00<br>1.00<br>1.00                                                        |       | Massive, coarse Lapilli Tuff     | 0.01<br>nit<br>nit                                                      |                |
| 126.75 | 136.25 | <ul> <li>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.</li> <li>126.75 - 128.50 Dark green, with very irregular anastomosing, buff-brown sericitized bleaching which gives a strong mottled appearance.</li> <li>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.</li> </ul> | 7757<br>7758<br>7759<br>7760<br>7761<br>7762<br>7763<br>7764<br>7765<br>7766<br>7766<br>7767<br>7768 | 126.00<br>126.70<br>127.50<br>129.00<br>130.00<br>131.00<br>132.00<br>133.00<br>134.00<br>135.00 | 126.70<br>127.50<br>128.00<br>130.00<br>131.00<br>133.00<br>133.00<br>134.00<br>135.00<br>135.50<br>136.25 | 0.70<br>0.80<br>0.50<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.0 |       | Sericitic Tuffs at fault contact | nil<br>nil<br>nil<br>nil<br>0.01<br>nil<br>0.01<br>0.05<br>0.02<br>0.01 | nil .          |
| 136.25 | 136.50 | FAULT ZONE<br>Fault zone @ $40^{\circ}$ tca; very strong mud break with brecciated quartz + chlorite<br>veinlets up to 0.5 cm wide.                                                                                                                                                                                                                                                                                                                                                                                       | 7769                                                                                                 | 136.25                                                                                           | 136.50                                                                                                     | 0.25                                                                        |       | Mud break                        | 0.59                                                                    | 0.41           |

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| INTERVAL     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                      |                                                                                        |                                                                                        |                                                              | SAM   | (PLE                                                                                                                                                                            |                                                                     | ASSAYS       |     |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------|-----|
| FROM TO      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No.                                                                  | FROM                                                                                   | то                                                                                     | Length                                                       | % Rec | DESCRIPTION                                                                                                                                                                     | Au, g/i                                                             | Au, Check Au | u*M |
| 136.50 151.0 | <b>GRAYWACKE</b><br>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, discreet veinlets up to 2 mm wide, pyritic boundaries on quartz veins and a $\leq 0.5\%$ disseminated pyrite.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                      |                                                                                        | · · · · · · · · · · · · · · · · · · ·                                                  |                                                              |       |                                                                                                                                                                                 | •                                                                   |              |     |
|              | <ul> <li>136.50 - 143.00 Moderately to weakly sericitic, hard silicified, brecciated; 3-5%, 0.1-<br/>1.5 cm wide white to grey quartz ± chlorite ± pyrite veinlets at 0°<br/>to 55° tca (avg. 20°); 0.5-1.0% pyrite along vein contacts and<br/>disseminated in graywacke adjacent to the veins.</li> <li>136.50 - 137.00 3% chlorite ± quartz veinlets with no pyrite.</li> <li>137.10 - 137.25 0.3-1.0 cm grey quartz + chlorite + pyrite vein @ 15° to 0° to 55°<br/>tca; 5% quartz, 35% pyrite, 10% chlorite.</li> <li>137.25 - 137.85 0.2-1.5 cm quartz + chlorite vein @ 5°-10° tca; 20% chlorite, 80%<br/>quartz, &lt; 0.5% pyrite in chlorite along vein contacts.</li> <li>137.90 - 138.20 Chlorite + grey quartz + calcite breccia zone @ 15°-20° tca with<br/>1% disseminated pyrite.</li> <li>138.20 - 138.85 Fractured with 3% 1-2 mm quartz veinlets.</li> <li>138.47 1.5 mm pyrite veinlet @ 70° tca.</li> <li>138.82 - 139.00 0.2-1.0 cm blue grey quartz + ankerite vein @ 15°-20° tca; 3-5%<br/>disseminated pyrite in vein and 1% disseminated pyrite in wall rock<br/>over widths of 1-2 cm.</li> <li>139.00 - 139.50 0.1 to 0.5 cm quartz + carbonate vein @ 55°-65° tca with 0.5%<br/>pyrite; 1% finely disseminated pyrite in graywacke.</li> <li>139.50 - 143.30 1-2% white quartz + carbonate veinlets, 0.01 - 1.5 cm wide, with<br/>trace of pyrite.</li> <li>141.35 - 141.40 1 cm white-buff quartz vein with pyritic margins up to 2 mm wide.</li> </ul> | 7770<br>7771<br>7772<br>7773<br>7774<br>7774<br>7776<br>7776<br>7777 | 136.50<br>137.00<br>137.50<br>138.50<br>139.00<br>140.00<br>141.00<br>141.50<br>142.00 | 137.00<br>137.50<br>138.50<br>139.00<br>140.00<br>141.00<br>141.50<br>142.00<br>143.00 | 0.50<br>0.50<br>1.00<br>0.50<br>1.00<br>1.00<br>0.50<br>0.50 |       | Graywacke with 0.5% pyrite<br>Graywacke with narrow quartz +<br>pyrite veins<br>Quartz + chlorite breccia +<br>pyritic veinlet<br>Graywacke with < 0.5% pyrite +<br>quartz vein | 0.20<br>0.61<br>0.24<br>7.44<br>6.31<br>0.05<br>0.03<br>0.02<br>nil | 5.63<br>6.19 |     |

#### HOLE: AK-90-24

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| INTE | RVAL   | DESCRIPTION                       | SAMPLE<br>No. FROM TO Length % Rec DESCRIPTION                       |                                                                              |                                                                              |                                                              |       |             |                                                             | ASSAYS   | 5    |
|------|--------|-----------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------|-------|-------------|-------------------------------------------------------------|----------|------|
| FROM | то     |                                   | No.                                                                  | FROM                                                                         | то                                                                           | Length                                                       | % Rec | DESCRIPTION | Au, g/l                                                     | Au,Check | Au*M |
|      |        | 143.30 - 151.00 Weakly sericitic. | 7779<br>7780<br>7781<br>7782<br>7783<br>7784<br>7784<br>7785<br>7786 | 143.00<br>144.00<br>145.00<br>146.00<br>147.00<br>148.00<br>149.00<br>150.00 | 144.00<br>145.00<br>146.00<br>147.00<br>148.00<br>149.00<br>150.00<br>151.00 | 1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00 |       |             | ni1<br>0.01<br>0.02<br>0.02<br>0.01<br>0.02<br>0.01<br>0.05 | 0.04     |      |
|      | 151.00 | Е.О.Н.                            |                                                                      |                                                                              | ,                                                                            |                                                              |       |             |                                                             |          |      |
|      |        |                                   |                                                                      |                                                                              |                                                                              |                                                              |       |             |                                                             |          |      |
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### HOLE; AK-90-25

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| PROPERTY                                                             | Amalgamated Kirkland                                                                                                                     | DATE LOGGED                                                          | Nov.29 - Dec.3 1990                             | EASTING                                               | 8125.00                            | DEP                       | тн                   | AZIMUTH | DIP                  | J |
|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------|------------------------------------|---------------------------|----------------------|---------|----------------------|---|
| TOWNSHIP<br>CLAIM No.<br>STARTED<br>COMPLETED<br>PURPOSE<br>COMMENTS | Teck<br>L 491663<br>November 27, 1990<br>November 30, 1990<br>To test 102 - 8170 zone<br>The zone was intersected at<br>102.65 - 104.50m | LOGGED BY<br>SIGNED BY<br>DRILLED BY<br>SURVEYED BY<br>CORE LOCATION | M. Masson<br>Heath & Sherwood<br>K.L. Warehouse | NORTHING<br>ELEVATION<br>LENGTH<br>UNITS<br>CORE SIZE | 10150.00<br>142.90<br>metres<br>NQ | Col<br>38.<br>76.<br>114. | ar<br>00<br>00<br>00 | 341     | 55<br>54<br>53<br>50 |   |

|                                                                                                                                                                                                                                                                                       | SUMMA                                                                                                                                                                                                                                                                                                                                                                                     | RY LOG                                   |                                                                                                                                                                                                                                  | ASSA                                        | Y SUMMARY           | ŕ                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------|-------------------|
| INTERVAL<br>From To                                                                                                                                                                                                                                                                   | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                               | INTERVAL<br>From To                      | DESCRIPTION                                                                                                                                                                                                                      | INTERVAL<br>From To                         | LENGTH<br>in metres | AVERAGE<br>Au e/t |
| 0.00       3.80         3.80       22.40         22.40       22.60         22.60       23.10         23.10       23.95         27.50       32.85         32.85       68.60         68.60       86.30         86.30       94.10         94.10       102.65         102.65       104.50 | CASING<br>ASH TUFF<br>SILTSTONE<br>COARSE LAPILLI TUFF<br>SILTSTONE<br>COARSE LAPILLI TUFF<br>ASH TUFF<br>LAPILLI TUFF<br>LAPILLI TUFF<br>Sericitic<br>LAPILLI TUFF<br>Weakly sericitic<br>ASH TUFF<br>Hematitic<br>QUARTZ - PYRITE BRECCIA ZONE<br>102.65 - 103.40 Fault zone, trace pyrite<br>104.10 - 104.25 Brecciated quartz vein, 3 - 5%<br>pyrite<br>104.40 - 104.50 Fault breccia | 104.50 132.35<br>132.35 142.90<br>142.90 | SILTSTONE / MUDSTONE<br>114.80 - 115.85 Sericitic graywacke, 0.5% pyrite<br>LAPILLI TUFF<br>135.50 - 135.60 Silicified, 2 - 3% pyrite<br>136.10 - 136.70 Siltstone with 30% quartz +<br>sericite veinlets, 0.5% pyrite<br>E.O.H. | 102.65 106.00<br>including<br>103.90 104.40 | 3.35                | 8.01              |

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| INTE  | RVAL  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |                                       |    |        | SAM   | (PLE        |         | ASSAYS   |      |
|-------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------|----|--------|-------|-------------|---------|----------|------|
| FROM  | то    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No. | FROM                                  | то | Length | % Rec | DESCRIPTION | Au, g/1 | Au,Check | Au*M |
| 0.00  | 3.80  | CASING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |                                       |    |        |       |             |         |          |      |
| 3.80  | 22.40 | <ul> <li>ASH-TUFF</li> <li>Massive, fine grained, dark grey-green to brown, with 40% heterolithic, trachyte clasts, up to 1 mm, in a dark grey, aphanitic groundmass; minor intercalated lapillituff beds up to 0.5 metres wide; moderately to strongly magnetic.</li> <li>12.35 - 12.50 Fault @ 27° tca: chlorite + sericite ± quartz; strong, tight chloritic slip with a 3-4 cm wide buff-pink quartz veinlet.</li> <li>18.50 - 20.20 Moderately well bedded @ 50° tca, with alternating hematitic and non hematitic beds.</li> <li>20.40 - 22.30 Weakly sericitized, a poly-suturing type texture due to abundant chloritic fractures; cut by 1-2% quartz + chlorite veinlets and slips up to 0.5 cm.</li> <li>22.30 - 22.40 Fault @ 50° tca; very strong sharp sericite + chlorite mud break</li> </ul> |     | · · · · · · · · · · · · · · · · · · · |    |        |       |             |         |          |      |
| 22.40 | 22.60 | with evidence of brecciation in immediate wall rock.<br>SILTSTONE<br>Fine grained to aphanitic, dark green siltstone with 2%, < 0.5 mm quartz<br>veinlets with pale green alteration halos; strong tight contacts with chloritic slips.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                       |    |        |       |             |         |          |      |
| 22.60 | 23.10 | <b>COARSE, HETEROLITHIC LAPILLI-TUFF</b><br>Massive, dark green-brown with 25% coarse, angular to sub-rounded, heterolithic, red-pink to green to grey and very fine grained to porphyritic trachyte clasts, up to 5 cm (avg. 2 cm) in a fine grained, chloritic ash matrix; very similar to conglomerate but contains all trachytic clasts and no quartz within matrix.                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                       |    |        |       |             |         |          |      |
| 23.10 | 23.95 | SILTSTONE<br>Fine grained to aphanitic, dark green siltstone with 2-3% irregular, $\leq = 0.5$ mm<br>wide, quartz veinlets with light green alteration halos; contacts of unit are sharp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                       |    |        |       |             |         |          |      |



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#### HOLE: AK-90-25

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| INTE  | RVAL  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                       |     |      |                               |        | SAM   | IPLE        |         | ASSAYS                      |
|-------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------------------------|--------|-------|-------------|---------|-----------------------------|
| FROM  | то    |                                                                                                                                                                                                                                                                                                                                                                                                   | No. | FROM | то                            | Length | % Rec | DESCRIPTION | Au, g/t | Au, Check Au <sup>+</sup> M |
|       |       | chloritic slips @ 30° tca.                                                                                                                                                                                                                                                                                                                                                                        |     |      |                               |        |       |             |         |                             |
| 23.95 | 27.50 | COARSE, HETEROLITHIC LAPILLI-TUFF<br>As at 22.60 metres; massive, coarse heterolithic tuff with 25% angular to sub-<br>rounded trachyte clasts up to 5 cm (avg. 2 cm), which are extremely variable in<br>colour and texture, in a weakly hematized, aphanitic matrix; weakly magnetic; lower<br>contact of unit is gradational.                                                                  |     |      | •<br>•<br>•                   |        |       |             |         |                             |
| 27.50 | 32.85 | ASH-TUFF<br>Massive, fine grained, dark green to purple where hematitic, weakly magnetic and<br>cut by 2% barren buff-white quartz veinlets up to 0.5 cm wide; lower contact of<br>unit is a sharp sericite + talc slip; rubbly core.                                                                                                                                                             |     | r.   |                               |        |       |             |         |                             |
| 32.85 | 68.60 | LAPILLI-TUFF<br>Massive, dark green to grey-brown, with 5-10% angular, predominantly buff-brown<br>and grey-green, fine grained to spotted trachytic clasts, up to 2 cm (avg. 1 cm) in a<br>very fine ash matrix; intercalated ash-tuff horizons up to 75 cm wide which are<br>massive, non-bedded and display gradational contacts; locally strongly magnetic.                                   |     |      | •                             |        |       |             |         |                             |
|       |       | <ul> <li>38.35 - 39.50 Fault @ 05° tca; sharp chlorite slips running sub-parallel tca with a 0.5-1 cm white-pink quartz + ankerite vein on slip plane, with local angular wall rock fragments within the vein.</li> <li>41.50 - 42.30 White-pink quartz + ankerite vein @ 5°-10° tca, with angular wall rock inclusions up to 3-4 cm long which display very weak sericite alteration.</li> </ul> |     |      |                               |        |       |             |         |                             |
|       |       | <ul> <li>44.10 - 44.60 Fault @ 05° tca; sharp, open, vuggy slip plane with pink-white quartz + ankerite vein.</li> <li>59.80 Fault @ 30° tca; chlorite + sericite + quartz; 1 cm wide laminated shear zone of alternating chlorite, sericite and quartz.</li> </ul>                                                                                                                               |     |      | ан <sub>а</sub><br>Части<br>П |        |       |             |         |                             |

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| INTE  | RVAL  |                                                                                                                                                                | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                              |                                                                                                                                                                                  |                                                                                                                                                                |                                                                                                                                      | SAM   | IPLE                                                                                                             |                                                              | ASSAYS   |      |
|-------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------|------|
| FROM  | то    |                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No.                                                                                                                                                          | FROM                                                                                                                                                                             | то                                                                                                                                                             | Length                                                                                                                               | % Rec | DESCRIPTION                                                                                                      | Au, g/t                                                      | Au,Check | Au*M |
| 68.60 | 86.30 | SERICITIZED<br>Pale green, wit<br>display very dif<br>of unit is perva<br>1-2% late, whi<br>not deformed of<br>72.90 - 73.00<br>73.30 - 73.40<br>80.90 - 81.40 | LAPILLI-TUFF<br>h 2-3% black and white, salt and pepper textured clasts which often<br>fuse, altered boundaries; possibly matrix rather than clasts?; matrix<br>isively sericitized, very fine grained to aphanitic mush, and is cut by<br>the quartz veinlets 1-3 mm wide. Contacts of unit are sharp but are<br>faulted and surrounding units are only weakly sericitized.<br>Fault @ 20° tca: sericite + quartz; sharp, tight sericite slip @<br>72.90 m with 2 cm buff-white quartz vein on down hole side of slip.<br>Fault @ 25° tca: sericite + quartz ± ankerite; 1-2 cm quartz +<br>ankerite vein on sharp sericite slip.<br>Quartz + chlorite vein with angular wall rock inclusions and very<br>minor chalcopyrite. | 7787<br>7788<br>7789<br>7790<br>7791<br>7792<br>7793<br>7794<br>7795<br>7794<br>7795<br>7796<br>7797<br>7798<br>7799<br>7800<br>7801<br>7802<br>7803<br>7803 | 68.60<br>69.10<br>70.00<br>71.00<br>72.00<br>72.80<br>73.60<br>74.30<br>75.00<br>74.30<br>75.00<br>76.00<br>77.00<br>78.00<br>79.00<br>80.00<br>80.50<br>81.50<br>82.00<br>83.00 | 69.10<br>70.00<br>71.00<br>72.80<br>73.60<br>74.30<br>75.00<br>75.00<br>76.00<br>77.00<br>78.00<br>79.00<br>80.00<br>80.50<br>81.50<br>82.00<br>83.00<br>83.00 | 0.50<br>0.90<br>1.00<br>1.00<br>0.80<br>0.80<br>0.70<br>0.70<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>0.50<br>1.00<br>0.50<br>1.00 |       | Sericitized Lapilli Tuff<br>Sericitized Tuff with faulting and<br>quartz veins<br>Quartz + chlorite breccia vein | 0.01<br>0.02<br>0.01<br>0.02<br>0.02<br>0.01<br>0.01<br>0.01 | 0.01     |      |
|       |       |                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 7805<br>7806<br>7807<br>7808                                                                                                                                 | 84.00<br>84.60<br>85.10<br>86.00                                                                                                                                                 | 84.60<br>85.10<br>86.00<br>86.50                                                                                                                               | 0.60<br>0.50<br>0.90<br>0.50                                                                                                         |       |                                                                                                                  | 0.01<br>0.04<br>nil<br>0.01                                  |          |      |

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| INTE            | RVAL   | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                         | [                                    |                                           | 1                                         |                                      |       |                                                                |                                   |                |
|-----------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------|-------------------------------------------|--------------------------------------|-------|----------------------------------------------------------------|-----------------------------------|----------------|
| FROM            | то     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                         |                                      |                                           |                                           |                                      | SAN   | IPLE                                                           |                                   | ASSAYS         |
|                 |        |                                                                                                                                                                                                                                                                                                                                                                                                     | No.                                  | FROM                                      | TO                                        | Length                               | % Rec | DESCRIPTION                                                    | Au, g/t                           | Au, Check Au*M |
| 86.30           | 94.10  | HETEROLITHIC LAPILLI-TUFF<br>Massive to weakly foliated, light grey-green, with 10-20% angular, light brown to<br>grey-green spotty, trachyte clasts, up to 3 cm (avg. 0.5 cm), with sericite alteration;<br>matrix is dark grey-green, very fine grained ash-tuff with minor spotty sericite;<br>typically weakly magnetic; lower contact is very sharp @ 40° tca.                                 | 7809<br>7810<br>7811<br>7812<br>7813 | 86.50<br>87.50<br>88.50<br>89.50<br>90.00 | 87.50<br>88.50<br>89.50<br>90.00<br>91.00 | 1.00<br>1.00<br>1.00<br>0.50<br>1.00 |       | Massive Lapilli Tuff                                           | 0.01<br>nil<br>0.02<br>nil<br>nil |                |
| 94.10<br>102.65 | 102.65 | ASH-TUFF<br>Massive to weakly bedded @ 50° tca; dark grey-green to purple where hematitic;<br>very fine grained, strongly magnetic and cut by 1% late white irregular quartz<br>veinlets; lower contact is sharp and irregular.<br>PYRITE QUARTZ BRECCIA ZONE                                                                                                                                       | 7814<br>7815<br>7816                 | 100.00<br>101.00<br>102.00                | 101.00<br>102.00<br>102.65                | 1.00<br>1.00<br>0.65                 |       | Massive Ash Tuff                                               | nit<br>0.01<br>nil                | nii            |
|                 |        | <ul> <li>102.65 - 103.40 Fault zone @ 20° tca: sericite + chlorite + quartz; strongly foliated to schistose sericite + chlorite + quartz veinlets + laminated mudstone with some very minor, dark grey pyritic bands.</li> <li>103.40 - 104.40 Well bedded, yellow-green mudstone with abundant micro-faulting</li> </ul>                                                                           | 7817<br>7818                         | 102.65                                    | 103.40                                    | 0.75                                 |       | Fault zone with quartz + minor<br>pyrite                       | 0.25                              |                |
|                 |        | <ul> <li>which disrupts bedding @ 15° tca.</li> <li>104.10 - 104.15 Brecciated, buff-white quartz vein, fragments up to 1 cm with 3-5% very fine grained pyrite within sericitized, interstitial groundmass of altered mudstone.</li> <li>104.15 - 104.25 Very fine (&lt;&lt; 0.5 mm) pyritic veinlets and stringers and 2% disseminated pyrite in aphanitic, yellow-green mudstone bed.</li> </ul> | 7819                                 | 103.90                                    | 104.40                                    | 0.50                                 |       | Pyrite Zone, 3 - 5% pyrite in quartz breccia vein and Mudstone | 7.70                              | 8.32           |
|                 |        | 104.40 - 104.50 Fault @ 40° tca: strong mud gouge and fault breccia rubble with<br>weak ankeritic stain.                                                                                                                                                                                                                                                                                            | 7820                                 | 104.40                                    | 104.90                                    | 0.50                                 |       | Fault gouge + Siltstone                                        | 0.12                              |                |

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| INTEI  |        |                                                                                     |       |        |        |        |       |                                   |         |                                        |
|--------|--------|-------------------------------------------------------------------------------------|-------|--------|--------|--------|-------|-----------------------------------|---------|----------------------------------------|
| INTE   | (VAL   | DESCRIPTION                                                                         |       |        |        |        | SAM   | IPLE                              |         | ASSAYS                                 |
| FROM   | то     |                                                                                     | No.   | FROM   | ТО     | Length | % Rec | DESCRIPTION                       | Au, g/t | Au, Check Au*M                         |
| 104.50 | 132.35 | SILTSTONE / MUDSTONE                                                                |       |        |        |        |       |                                   |         | ······································ |
|        |        | Very fine-grained, dark green siltstone with minor, vellow-green mudstone beds @    | 7821  | 104.90 | 105 50 | 0.60   |       | Marcine Silterone                 | 000     |                                        |
|        |        | 20°-30° tca which are frequently disrupted and display convoluted bedding and flame | 7822  | 105.50 | 106.00 | 0.50   |       | 1% quartz carbonate veins trace   | 0.02    |                                        |
|        |        | structures; intercalated lapilli-tuff horizons up to 1 metre wide which display     |       |        | 100.00 | 0.00   |       | nvrite at 105.85 m                | 0.15    |                                        |
|        |        | gradational contacts and frequently include siltstone clasts; these lapilli-tuff    | 7823  | 106.00 | 107.00 | 1.00   |       |                                   | 002     |                                        |
|        |        | horizons are grey-green and contain 5% light grey to dark green, angular trachyte   | 7824  | 107.00 | 108.00 | 1.00   |       |                                   | 0.01    | :                                      |
|        |        | clasts up to 2-3 cm (avg. 0.5 cm).                                                  | 7825  | 108.00 | 109.00 | 1.00   |       |                                   | 0.02    |                                        |
|        |        |                                                                                     | 7826  | 109.00 | 110.00 | 1.00   |       |                                   | 0.02    |                                        |
|        |        | 106.00 - 114.80 0.5 to 1% 0.1 - 1 cm grey white irregular quartz carbonate veinlets | 7827  | 110.00 | 111.00 | 1.00   |       |                                   | 0.01    |                                        |
|        |        | and tracture fillings                                                               | 7828  | 111.00 | 112.00 | 1.00   |       |                                   | nil     |                                        |
|        |        |                                                                                     | 7829  | 112.00 | 113.00 | 1.00   |       |                                   | nil     |                                        |
|        |        |                                                                                     | 7830  | 113.00 | 114.00 | 1.00   |       |                                   | 0.01    | 0.01                                   |
|        |        | 114.80 - 115.85 Massive fine grained grauvacke interhedded with 2% enorth cariota   | 7831  | 114.00 | 114.80 | 0.80   |       |                                   | 0.02    |                                        |
|        |        | and <0.5% disseminated pyrite                                                       | 1032  | 114.80 | 115.50 | 0.50   |       | Graywacke with 0.5% pyrite and    | nil     |                                        |
|        |        |                                                                                     | 7933  | 115 20 | 116.00 | 0 70   |       | minor quartz + chiorite veiniets  |         |                                        |
|        |        |                                                                                     | 7834  | 115.50 | 117.00 | 1.00   |       | Marcine to Iominated Mudetana (   | 0.01    |                                        |
|        |        |                                                                                     | 70.74 | 110.00 | 117.00 | 1.00   |       | Silistone with minor intercolored | ពរេ     |                                        |
|        |        |                                                                                     |       |        |        |        |       | I spilli Tuff horizons            |         |                                        |
|        |        |                                                                                     | 7835  | 117.00 | 118.00 | 1.00   |       |                                   | 0.01    |                                        |
|        |        |                                                                                     | 7836  | 118.00 | 119.00 | 1.00   |       |                                   | 0.01    |                                        |
|        |        |                                                                                     | 7837  | 119.00 | 120.00 | 1.00   |       |                                   | 0.01    |                                        |
|        |        |                                                                                     | 7838  | 131.00 | 132.00 | 1.00   |       |                                   | 0.01    |                                        |
|        |        | 132.20 - 132.35 Fault @ 30° tca: sericite + quartz; 3 cm wide, barren white-buff    | 7839  | 132.00 | 132.50 | 0.50   |       | Siltstone at fault contact        | nil     |                                        |
|        |        | quartz vein on a sharp sericitic slip.                                              |       |        |        |        |       |                                   |         |                                        |
|        |        |                                                                                     |       |        |        |        |       |                                   |         |                                        |
|        |        |                                                                                     |       |        |        |        |       |                                   |         |                                        |
|        |        |                                                                                     |       |        |        |        |       |                                   |         |                                        |
|        |        |                                                                                     |       |        |        |        |       |                                   | 1       |                                        |
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|--------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------|-------|-------------|---------------------------------------------------------|----------|-----|
| INTE   | RVAL   | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                      | ,                                                                            | 1                                                                            |                                                              | SAM   | IPLE        |                                                         | ASSAYS   | 1   |
| FROM   | то     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | No.                                                                  | FROM                                                                         | то                                                                           | Length                                                       | % Rec | DESCRIPTION | Au oh                                                   | Au Check | A   |
| 132.35 | 142.90 | <ul> <li>LAPILLI-TUFF</li> <li>Massive grey-green, poorly sorted, with 5-10% angular, buff-brown to grey to dark green trachyte clasts, up to 4 cm (avg. 1 cm), in a fine grained ash matrix; contains fragments and interbeds of siltstone up to 7 cm wide; weakly magnetic.</li> <li>135.50 - 135.60 2-3% very finely disseminated pyrite in moderately silicified tuff.</li> <li>135.60 1 cm quartz ± albite (?) vein at contact of 7 cm wide mudstone horizon.</li> <li>136.10 Fault @ 22° tca: sericite + quartz + gouge; strong, tight mud break with fragmented quartz veinlet 0.5 cm wide.</li> <li>136.10 - 136.70 Siltstone with 30% quartz + sericite veins up to 4 cm wide with some very minor (&lt;0.5%) pyrite.</li> </ul> | 7840<br>7841<br>7842<br>7843<br>7844<br>7845<br>7845<br>7846<br>7847 | 132.50<br>133.20<br>134.20<br>134.70<br>135.20<br>136.00<br>136.70<br>137.50 | 133.20<br>134.20<br>134.70<br>135.20<br>136.00<br>136.70<br>137.50<br>138.50 | 0.70<br>1.00<br>0.50<br>0.50<br>0.80<br>0.70<br>0.80<br>1.00 |       |             | nil<br>nil<br>0.01<br>0.01<br>nil<br>0.01<br>nil<br>nil | 0.01     | AUM |
|        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                      | ·                                                                            |                                                                              |                                                              |       |             |                                                         |          |     |

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| PROPERTY                                                             | Amalgamated Kirkland                                                                                                                                 | DATE LOGGED                                                          | December 4 1990                                 | EASTING                                               | 8600.00                            | - | DEPTH                                        | AZIMUTH | DIP                        |
|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------|------------------------------------|---|----------------------------------------------|---------|----------------------------|
| TOWNSHIP<br>CLAIM No.<br>STARTED<br>COMPLETED<br>PURPOSE<br>COMMENTS | Teck<br>L 477419<br>November 30, 1990<br>December 2, 1990<br>To undercut hole AK-90-21<br>The '102' structure was<br>intersected at 120.60 - 149.80m | LOGGED BY<br>SIGNED BY<br>DRILLED BY<br>SURVEYED BY<br>CORE LOCATION | M. Masson<br>Heath & Sherwood<br>K.L. Warehouse | NORTHING<br>ELEVATION<br>LENGTH<br>UNITS<br>CORE SIZE | 10155.00<br>160.68<br>metres<br>NQ |   | Collar<br>38.00<br>76.00<br>114.00<br>152.00 | 341     | 55<br>54<br>52<br>52<br>50 |

|                            | SUMMAI                                                                                                                                                                                                                                           | RY LOG              |                                                                                                             | ASSA                       | Y SUMMARY           | 7                 |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------|----------------------------|---------------------|-------------------|
| INTERVAL<br>From To        | DESCRIPTION                                                                                                                                                                                                                                      | INTERVAL<br>From To | DESCRIPTION                                                                                                 | INTERVAL<br>From To        | LENGTH<br>in metres | AVERAGE<br>Au g/t |
| 0.00 6.00<br>6.00 18.00    | CASING<br>LAPILLI TUFF / ASH TUFF<br>Hematitic                                                                                                                                                                                                   |                     | 136.00 - 136.60 Sericitic, 2% blue gray quartz<br>veinlets, trace pyrite<br>142.65 - 143.35 0.5 - 1% pyrite | 120.00 123.00<br>including | 3.00                | 1.84              |
| 18.00 42.30<br>42.30 77.00 | ASH TUFF<br>LAPILLI TUFF<br>42.30 - 48.00 Sericitic                                                                                                                                                                                              | 148.70 149.80       | 144.15 - 144.80 Quartz + calcite + pyrite veinlets<br>144.80 - 145.50 1% pyrite<br>CONGLOMERATE             | 120.45 122.35              | 1.90                | 3.89              |
| 77.00 103.60               | 40.00 - 77.00 Hematitic<br>LAPILLI TUFF<br>Chloritic to hematitic                                                                                                                                                                                | 149.80 160.68       | 1 - 2% pyrile, 10% quartz veinlets<br>LAPILLI TUFF<br>Sericitic                                             | and<br>120.45 121.20       | 0.75                | 7.12              |
| 120.60 122.85              | Hematitic, sericitic<br>QUARTZ PYRITE ZONE                                                                                                                                                                                                       |                     | 136.35 Fault, quartz vein, 0.5% pyrite                                                                      | 139.50 142.00              | 2.50                | 0.10              |
| 122.85 148.70              | <ul> <li>120.60 - 121.00 Quartz-pyrite vein with 3% pyrite,<br/>trace chalcopyrite</li> <li>121.00 - 121.80 Sericitic, 0.5% pyrite</li> <li>121.80 - 122.30 Contact zone, silicified, 1 - 2%<br/>pyrite</li> <li>MUDSTONE / GRAYWACKE</li> </ul> | 160.68              | Е.О.Н.                                                                                                      | 148.00 149.80              | 1.80                | 0.28              |
|                            | 122.30 - 122.85 1% pyrite, 2 - 3% quartz veinlets                                                                                                                                                                                                |                     |                                                                                                             |                            |                     |                   |

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| INTER | RVAL  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |      |    |        | SAM   | PLE         |         | ASSAYS   |      |
|-------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|----|--------|-------|-------------|---------|----------|------|
| FROM  | то    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No. | FROM | то | Length | % Rec | DESCRIPTION | Au, g/t | Au,Check | Au*M |
| 0.00  | 6.00  | CASING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |      |    |        |       |             |         |          |      |
| 6.00  | 18.00 | <ul> <li>LAPILLI-TUFF (HEMATIZED) / ASH-TUFF</li> <li>Massive to well bedded @ 60° tca, grey-green to purple-red, with 5-15% angular to sub-rounded, poorly sorted heterolithic in colour and texture, trachyte clasts up to 6 cm (avg. 1 cm) in a fine to very fine grained ash matrix; intercalated with fine, well bedded ash-tuff beds from a few centimetres to 1.5 metres wide, which are of a similar composition to the coarser lapilli-tuffs; bedding is often displayed as &lt;= 1 mm magnetite beds, but overall the tuffs are weakly magnetic. Gradational lower contact into ash-tuff with minor, intercalated lapilli- tuff horizons.</li> <li>12.85 Fault @ 50° tca: sericite + ankerite; strong, sharp sericitic shear with moderate ankeritic staining.</li> </ul> |     | ·    |    |        |       |             |         |          |      |
| 18.00 | 42.30 | <ul> <li>ASH-TUFF</li> <li>Fine to very fine grained, massive to well bedded ash-tuffs, grey-green to purple, consisting of 20-30%, &lt;= 0.5 mm lithics in an aphanitic groundmass; magnetite layers up to 1 mm wide define bedding; sharp lower contact @ 12° tca.</li> <li>26.50 - 26.70 Fault @ 30° tca: sericite + chlorite + hematite + quartz; strongly deformed, hematized fault zone with 10% irregular, white quartz in a well foliated, sericitized groundmass.</li> <li>33.20 - 34.00 Strongly hematized and well foliated @ 25° tca around a strong, tight chlorite + hematite slip @ 33.70 m.</li> <li>38.00 Fault @ 40° tca; sharp tight sericitic slip with 1 cm, white quartz vein.</li> </ul>                                                                     |     |      | •  |        |       |             |         |          |      |
| 42.30 | 77.00 | LAPILLI-TUFF<br>Very gradational lower contact.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      |    |        |       |             | Í       |          |      |



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|-------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|----|--------|-------|-------------|----------|----------|------|
| INTE  |        | 4                                                                                                                                             | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |      |    |        | SAM   | IPLE        |          | ASSAYS   |      |
| FROM  | то     |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No. | FROM | то | Length | % Rec | DESCRIPTION | Au. g/t  | Au.Check | Au*M |
|       |        | 42.30 - 45.00<br>45.00 - 48.00<br>48.00<br>56.15 - 57.20<br>59.75 - 60.00<br>60.00 - 65.50<br>72.30                                           | Moderately to strongly foliated @ $15^{\circ}-20^{\circ}$ tca, with 10-15% wispy<br>sericite developed around lapilli clasts and as spots within matrix.<br>Moderately to weakly sericitic, light grey-green, with 10-15%<br>angular, predominantly dark grey to black and white, porphyritic<br>trachyte clasts, up to 3 cm (avg. 1 cm), in a weakly spotted,<br>sericitized matrix.<br>Increasingly hematitic with purple-brown matrix and light purple<br>clasts.<br>Fault @ 10° tca; sharp, tight sericite + chlorite + ankerite slip<br>running sub-parallel to core axis.<br>Fault @ 25° tca: chlorite + sericite + ankerite + quartz; open,<br>vuggy shear zone with 10% white-buff quartz veins in a strongly<br>rusty, sericitized groundmass.<br>2-3% barren white, irregular quartz $\pm$ chlorite veinlets at all angles<br>tca and up to 1 cm wide.<br>Fault @ 45° tca; very tight sericite slip with 0.5 cm white-pink<br>quartz veinlet. |     |      |    | -<br>- |       |             |          |          |      |
| 77.00 | 103.60 | LAPILLI-TUFF<br>Dark green with<br>in a fine grain<br>discernable from<br>sericitic slip @<br>80.40 - 94.50<br>94.50 - 94.80<br>97.30 - 98.20 | h buff-brown to grey, angular trachyte clasts up to 4 cm (avg. 1 cm)<br>ned, dark green chloritic matrix; moderately magnetic; easily<br>m the previous, heterolithic lapilli tuff; lower contact is a sharp,<br>$60^{\circ}$ tca.<br>Moderately hematized with purple clasts and matrix.<br>Bleached, sericitized zone with a 3-4 cm barren white quartz vein<br>adjacent to a strong, sharp sericitic slip.<br>Fault ( $\omega$ 15° tca: chlorite + sericite + quartz; strong, tight chlorite<br>+ sericite slip plane with 10% irregular white-pink quartz ± calcite<br>veins sub-parallel tca.                                                                                                                                                                                                                                                                                                                                                      |     | ·    |    |        |       |             |          |          |      |



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| INTEI  |        | DECODIDEION                                                                                                                                                                                                                                                                                                                     |                              |                                      |                                      |                              | ~     | · · ·                                                                   |                              |          |      |
|--------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|--------------------------------------|------------------------------|-------|-------------------------------------------------------------------------|------------------------------|----------|------|
| INTER  |        | DESCRIPTION                                                                                                                                                                                                                                                                                                                     |                              |                                      |                                      |                              | SAN   | IPLE                                                                    |                              | ASSAYS   | j    |
| FROM   | то     |                                                                                                                                                                                                                                                                                                                                 | 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<br>sub-rounded, heterolithic, trachyte clasts up to 5 cm (avg. 2 cm);<br>35% of clasts are fine grained, red-pink syenitic rock.                                                                                                               | 7848                         | 111.00                               | 112.00                               | 1.00                         |       | Sample losi; not assayed                                                |                              |          |      |
|        |        | 112.40 - 115.30 Moderately sericitic, light green with 5% wispy sericite.                                                                                                                                                                                                                                                       | 7849<br>7850<br>7851         | 112.00<br>113.00                     | 113.00<br>114.00                     | 1.00                         |       | Weakly sericitic Tuff                                                   | 0.01                         |          |      |
|        |        | 115.30 - 118.35 Weakly hematitic, dirty red-brown and virtually undeformed.                                                                                                                                                                                                                                                     | 7852<br>7853<br>7854         | 115.00<br>116.00<br>117.00           | 116.00<br>117.00<br>118.00           | 1.00<br>1.00<br>1.00         |       |                                                                         | 0.03<br>0.01<br>0.01<br>0.02 |          |      |
|        |        | 118.35 - 120.60 Light grey, moderately sericitized and weakly foliated @ 35° tca.                                                                                                                                                                                                                                               | 7855<br>7856<br>7857<br>7858 | 118.00<br>118.50<br>119.50<br>120.00 | 118.50<br>119.50<br>120.00<br>120.45 | 0.50<br>1.00<br>0.50<br>0.45 |       |                                                                         | 0.02<br>0.02<br>0.01<br>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 $\leq = 1 \text{ mm}$ pyritic veinlets and fracture fillings within matrix and quartz veins. | 7859                         | 120.45                               | 121.20                               | 0.75                         |       | Quartz + pyrite vein with 2 - 3%<br>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                         |          |      |

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| INTE   | RVAL   | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                              |                                                                                                                                                    |                                                                                                                                |                                                                                                                            | C A L |                                                                                     |                                                                                             |          |         |
|--------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------|---------|
| FROM   | ТО     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No.                                                                                                                          | FROM                                                                                                                                               | TO                                                                                                                             | Length                                                                                                                     | % Rec | DESCRIPTION                                                                         | Av. 6/1                                                                                     | AN Check | A.,     |
|        |        | 121.80 - 122.30 Contact zone between lapilli-tuff and silicified and pyritic mudstone;<br>buff- white to grey fractured and brecciated quartz veins and<br>silicified mudstone with 1-2% disseminated and stringer pyrite on<br>fracture planes and on sericitic vein boundaries; prominent<br>foliation @ 50° tca.                                                                                                                                                                                                                                                                                                                                                                                                                    | 7861                                                                                                                         | 121.65                                                                                                                                             | 122.35                                                                                                                         | 0.70                                                                                                                       |       | Silicified contact zone with 1 - 2% pyrite                                          | 2.40                                                                                        | 2.19     | <u></u> |
|        |        | 122.30 - 122.85 Well laminated mudstone with minor (<0.5%) disseminated pyrite<br>and 0.5-1% pyritic stringers on quartz vein boundaries and on tight<br>sericitic slips; lower contact is a sharp sericite slip with 1 cm white<br>quartz vein @ 55° tca.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 7862                                                                                                                         | 122.35                                                                                                                                             | 123.00                                                                                                                         | 0.65                                                                                                                       |       | Laminated Mudstone with 0.5 -<br>1% pyrite and 2 - 3% quartz<br>veinlets            | 0.42                                                                                        |          |         |
| 122.85 | 148.70 | MUDSTONE / GRAYWACKE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                              |                                                                                                                                                    |                                                                                                                                |                                                                                                                            |       |                                                                                     |                                                                                             |          |         |
|        |        | <ul> <li>122.85 - 124.60 Yellow-green mudstone, laminae 1-3 mm thick, very irregular convoluted with bedding @ 55° tca; up to 15 cm thick graywacke/tuff interbeds.</li> <li>124.60 - 126.30 Intercalated mudstones, graywacke and lapilli-tuff with very irregular flame structures and convoluted bedding; moderately sericitic.</li> <li>126.30 - 139.00 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 &lt;= 1% angular mudstone chips up to 1-2 cm; locally, &lt; 0.5% disseminated pyrite.</li> <li>136.00 Fault @ 40° tca; strong, 1 cm mud break with blue-grey gouge (smeared pyrite?) on slip planes.</li> </ul> | 7863<br>7864<br>7865<br>7866<br>7867<br>7868<br>7869<br>7870<br>7871<br>7872<br>7873<br>7873<br>7874<br>7875<br>7876<br>7877 | 123.00<br>123.50<br>124.00<br>124.65<br>125.40<br>126.40<br>127.00<br>127.50<br>128.00<br>129.00<br>130.00<br>131.00<br>132.00<br>133.00<br>134.00 | 123.50<br>124.00<br>124.65<br>125.40<br>126.40<br>127.50<br>128.00<br>129.00<br>130.00<br>131.00<br>133.00<br>134.00<br>135.00 | 0.50<br>0.50<br>0.65<br>0.75<br>1.00<br>0.60<br>0.50<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>0.1.00<br>0.1.00<br>0.1.00 |       | Intercalated zone of mixing<br>Massive Graywacke with < 0.5%<br>disseminated pyrite | 0.02<br>0.02<br>0.01<br>nil<br>0.02<br>0.01<br>0.02<br>0.01<br>0.02<br>0.01<br>0.02<br>0.02 | 0.02     |         |

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| INTE | RVAL |                  | DESCRIPTION                                                                                                                                                                                                                           |                                      |                                      |                                                |                                      | SAN   | IPLE                                                                 |                                      | ASSAYS         |   |
|------|------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------|------------------------------------------------|--------------------------------------|-------|----------------------------------------------------------------------|--------------------------------------|----------------|---|
| FROM | то   |                  |                                                                                                                                                                                                                                       | No.                                  | FROM                                 | то                                             | Length                               | % Rec | DESCRIPTION                                                          | Au, g/t                              | Au, Check Au*? | м |
|      |      | 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.                                                                                                | 7878<br>7879<br>7880<br>7881<br>7881 | 135.00<br>135.50<br>136.50<br>137.00 | 135.50<br>136.50<br>137.00<br>138.00           | 0.50<br>1.00<br>0.50<br>1.00         |       | Foliated Graywacke with 2% silicified veinlets and very minor pyrite | 0.02<br>0.02<br>0.02<br>0.02<br>0.02 | - · ·          |   |
|      |      | 139.00 - 142.55  | Intercalated with yellow-green, sericitic mudstone interbeds up to 20 cm wide, frequently sheared due to tight sericite $\pm$ talc slips; moderately deformed; 2-3% milk-white quartz veinlets up to 1 cm and minor fuchsitic clasts. | 7883<br>7884<br>7885<br>7886<br>7886 | 138.90<br>139.50<br>140.40<br>141.00 | 139.50<br>139.50<br>140.40<br>141.00<br>142.00 | 0.90<br>0.60<br>0.90<br>0.60<br>1.00 |       |                                                                      | 0.02<br>0.12<br>0.03<br>0.09         | 0.22           |   |
|      |      | 142.55 - 148.70  | white quartz veinlets up to 1 cm.<br>Massive grey-green, fine grained graywacke with 1-2% angular<br>mudstone clasts up to 5 cm.                                                                                                      | 7888                                 | 142.00                               | 142.05                                         | 0.65                                 |       | Graywacke with 0.5 - 1% disseminated pyrite                          | 0.02<br>nil                          |                |   |
|      |      | 144.30<br>144.70 | 1-2 cm white-grey quartz + calcite + pyrite vein, @ 32° tca, with 1-<br>2% pyrite.<br>2 cm wide, open vuggy quartz + calcite vein with 1-2% euhedral<br>pyrite on vein wall and as cavity fillings                                    | 7890                                 | 144.15                               | 144.80                                         | 0.65                                 |       | Graywacke with 2 quartz + calcite + pyrite veinlets                  | 0.01                                 |                |   |
|      |      |                  |                                                                                                                                                                                                                                       | 7891                                 | 144.80                               | 145.50                                         | 0.70                                 |       | Massive Graywacke with 1% disseminated pyrite                        | 0.02                                 |                |   |
|      |      |                  |                                                                                                                                                                                                                                       | 7893<br>7893<br>7894<br>7895         | 145.50<br>146,00<br>147.00<br>148.00 | 148.00<br>147.00<br>148.00<br>148.70           | 1.00<br>1.00<br>0.70                 |       |                                                                      | 0.02<br>0.02<br>0.20                 |                |   |
|      |      |                  |                                                                                                                                                                                                                                       |                                      |                                      |                                                |                                      |       |                                                                      |                                      |                |   |

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印刷 資源 原始 化油 计算法

# HOLE: AK-90-26

**PAGE:** 7 of 7

REA TEX ATA CAR

| INTEF  | RVAL   | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                      |                                                                                                                                |                                                                                                                      |                                                                                                                                                                                                                                    | SAM   | PLE                                                                      |                                                                                    | ASSAYS         |
|--------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------|
| FROM   | то     |                                                                                                                                                                                                                                                                                                                                                                                                          | No.                                                                                                                  | FROM                                                                                                                           | то                                                                                                                   | Length                                                                                                                                                                                                                             | % Rec | DESCRIPTION                                                              | Au, g/t                                                                            | Au, Check Au*M |
| 148.70 | 149.80 | <b>PYRITIC PEBBLE CONGLOMERATE</b><br>Upper contact is gradational into a pebble rich bed of 35% well rounded, poorly sorted, mudstone, quartzite, and trachyte pebbles, up to 5 cm, in a fine grained sericitized matrix with 1-2% disseminated pyrite.                                                                                                                                                 | 7896                                                                                                                 | 148.70                                                                                                                         | 149.50                                                                                                               | 0.80                                                                                                                                                                                                                               |       | Conglomerate with 1 - 2% pyrite                                          | 0.28                                                                               |                |
|        |        | 149.50 - 149.80 Strongly foliated to schistose, with 10-15% buff-white quartz veinlets and masses, as well as 0.5% pyrite.                                                                                                                                                                                                                                                                               | 7897                                                                                                                 | 149.50                                                                                                                         | 149.80                                                                                                               | 0.30                                                                                                                                                                                                                               |       | Sheared Conglomerate with 10% quartz veins                               | 0.44                                                                               | 0.43           |
| 149.80 | 160.68 | <ul> <li>SERICITIZED LAPILLI-TUFF</li> <li>10% angular, dark grey to buff, frequently sericitized to yellow-green trachyte clasts, up to 6 cm, in a light yellow-green altered and very fine grained to aphanitic matrix, predominantly sericitic.</li> <li>156.35 - 156.40 Fault @ 55° tca; 1.5 cm quartz vein on tight sericite slips and &lt;0.5% pyrite on adjacent wall rock for 2-3 cm.</li> </ul> | 7898<br>7899<br>7900<br>7901<br>7902<br>7903<br>7904<br>7905<br>7906<br>7905<br>7906<br>7907<br>7908<br>7909<br>7910 | 149.80<br>150.30<br>151.00<br>152.00<br>153.00<br>154.00<br>156.00<br>156.00<br>156.50<br>157.00<br>158.00<br>159.00<br>160.00 | 150.30<br>151.00<br>152.00<br>153.00<br>154.00<br>156.00<br>156.50<br>157.00<br>158.00<br>159.00<br>160.00<br>160.63 | 0.50         0.70         1.00         1.00         1.00         1.00         1.00         0.50         0.50         1.00         1.00         1.00         1.00         1.00         1.00         0.50         1.00         3.068 |       | Sericitized Lapilli Tuff<br>Sericitic Tuff with fault and 0.5%<br>pyrite | 0.06<br>nii<br>0.02<br>0.01<br>0.01<br>nii<br>0.01<br>0.04<br>0.01<br>0.02<br>0.01 | 0.01           |
|        | 160.68 | E.O.H.                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                      |                                                                                                                                |                                                                                                                      |                                                                                                                                                                                                                                    |       |                                                                          |                                                                                    |                |

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HOLE: AK-90-27

| PROPERTY   | Amalgamated Kirkland            | DATE LOGGED   | December 5 1990  | EASTING   | 7900.00 | DEPTH  | AZIMUTH | DIP |  |
|------------|---------------------------------|---------------|------------------|-----------|---------|--------|---------|-----|--|
| I KOI LATI |                                 | LOGGED BY     | M. Masson        | NORTHING  | 9890.00 | Collar | 341     | 45  |  |
| TOWNSHIP   | Teck                            | SIGNED BY     | Withe            | ELEVATION |         | 38.00  |         | 45  |  |
| CLAIM No.  | L 491651                        | DRILLED BY    | Heath & Sherwood | LENGTH    | 130.10  | 76.00  |         | 44  |  |
| STARTED    | December 2, 1990                | SURVEYED BY   |                  | UNITS     | metres  | 114.00 |         | 42  |  |
| COMPLETED  | December 4, 1990                | CORE LOCATION | K.L. Warehouse   | CORE SIZE | NQ      | 114.00 |         | 43  |  |
| PURPOSE    | To test IP anomaly at 9950N and |               |                  |           |         |        |         | 1   |  |
|            | Magnetic low at 10000N          |               |                  |           |         |        |         |     |  |
| COMMENTS   | No anomalous assays             |               |                  |           |         |        |         | L   |  |
|            |                                 |               |                  |           |         |        |         |     |  |

|                                        | SUMMA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     | ASSA                                                                                                                    | Y SUMMARY           | r                   |                   |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|-------------------|
| INTERVAL<br>From To                    | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | INTERVAL<br>From To | DESCRIPTION                                                                                                             | INTERVAL<br>From To | LENGTH<br>in metres | AVERAGE<br>Au g/t |
| 0.00 1.55<br>1.55 10.90<br>10.90 17.20 | CASING<br>LAPILLI TUFF<br>Hematific<br>LAPILLI TUFF<br>Chloritic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 123.70 130.10       | ASH TUFF<br>123.70 - 124.80 Sheared at 65° tca, 5 - 10<br>quartz veinlets and masses, 0.5<br>finely disseminated pyrite | 9%<br>%             |                     |                   |
| 17.20 35.80                            | ASH TUFF<br>23.70 - 25.10 10% quartz - calcite veins,<br>< 0.5% pyrite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 130.10              | E.O.H.                                                                                                                  |                     |                     |                   |
| 35.80 40.00<br>40.00 49.50             | LAPILLI TUFF<br>Hematitic<br>ASH TUFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                                                                                                                         |                     |                     |                   |
| 49.50 123.70                           | Sericitic<br>44.00 - 49.50 5% quartz - calcite veinlets,<br><0.5% pyrite<br>COARSE LAPILLI TUFF / BLOCK TUFF<br>100 TO 100 |                     |                                                                                                                         |                     |                     |                   |
|                                        | 113.70 - 123.70 Moderately sericitic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |                                                                                                                         |                     |                     |                   |

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| INTEF | RVAL  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                  | 1.<br>}               |        | SAM   | IPLE                                                                        | A         | SSAYS                     |
|-------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------|-----------------------|--------|-------|-----------------------------------------------------------------------------|-----------|---------------------------|
| FROM  | то    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | No.    | FROM             | TO                    | Length | % Rec | DESCRIPTION                                                                 | Au, g/t A | u,Check Au <sup>•</sup> M |
| 0.00  | 1.55  | CASING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                  |                       |        |       |                                                                             |           |                           |
| 1.55  | 10.90 | HETEROLITHIC LAPILLI-TUFF<br>Massive, dark green to purple where hematitic, with 5-10% angular to sub-rounded<br>predominantly fine grained to porphyritic red trachyte, and dark green to grey<br>aphanitic trachyte clasts up to 3 cm (avg. 1 cm), in a very fine grained ash matrix;<br>jasper is evident within the matrix; narrow ash horizons, up to 15 cm, with distinct<br>magnetite beds @ 60° tca; strongly magnetic; lower contact marked by sharp<br>chlorite slip @ 35° tca. | ·<br>· | -61 <sub>1</sub> | 1 2 3<br>- <b>'</b> X |        |       |                                                                             |           |                           |
|       |       | 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<br>Dark green massive, with dark green, black spotted, angular trachyte clasts up to 4<br>cm (avg. 1 cm) in a light green, aphanitic matrix; strongly magnetic and moderately<br>chloritic.                                                                                                                                                                                                                                                                       |        |                  |                       |        |       |                                                                             |           |                           |
|       |       | 17.00 - 17.20 Fault @ 45° tca; chlorite + sericite + quartz + calcite; dirty,<br>irregular white-pink quartz / calcite veinlets on sharp chlorite +<br>sericite slips.                                                                                                                                                                                                                                                                                                                    |        |                  |                       |        |       |                                                                             |           |                           |
| 17.20 | 35.80 | ASH-TUFF<br>Massive, dark green very fine grained and strongly magnetic; very nondescript, but<br>in places contains minor scattered lapilli clasts; lower contact very sharp and<br>irregular.                                                                                                                                                                                                                                                                                           | 7911   | 23.00            | <b>23</b> .50         | 0.50   |       | Ash Tuff                                                                    | 0.01      |                           |
|       |       | 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.                                                                                                                                                                                                                                                                                                                                                 | 7912   | 23.50            | 24.00                 | 0.50   |       | Sericitized Ash Tuff with quartz<br>+ calcite veinlets and < 0.5%<br>pyrite | nil       |                           |

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| HOLE: | AK-90-27 | 1                                                                                                          |                                                                                                                                                                                                                                                                                                                                                             |                                      |                                           | 1 1                                       |                              |       |                                                                    | PAG                               | E: 3 of 5 |      |
|-------|----------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------|-------------------------------------------|------------------------------|-------|--------------------------------------------------------------------|-----------------------------------|-----------|------|
|       |          |                                                                                                            |                                                                                                                                                                                                                                                                                                                                                             |                                      |                                           | '>                                        |                              |       |                                                                    |                                   |           |      |
| INTE  | RVAL     | i                                                                                                          | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                 | I                                    |                                           |                                           |                              | SAM   | PLE                                                                |                                   | ASSAYS    |      |
| FROM  | то       |                                                                                                            |                                                                                                                                                                                                                                                                                                                                                             | No.                                  | FROM                                      | то                                        | Length                       | % Rec | DESCRIPTION                                                        | Au, g/t                           | Au,Check  | Au*M |
|       |          | 26.30 - 26.80<br>28.00                                                                                     | Pink quartz + calcite breccia vein with angular wall rock fragments<br>up to 2 cm, sub-parallel to core axis.<br>Fault @ 50° tca; 0.5 cm pink quartz + calcite vein with strong<br>chlorite slip boundaries.                                                                                                                                                | 7913<br>7914<br>7915<br>7916<br>7917 | 24.00<br>24.50<br>25.10<br>26.00<br>35.00 | 24.50<br>25.10<br>26.00<br>27.00<br>35.50 | 0.50<br>0.60<br>0.90<br>1.00 |       | Ash Tuff                                                           | 0.01<br>níl<br>nil<br>0.01<br>nil | 0.01      |      |
| 35.80 | 40.00    | LAPILLI-TUFF<br>Massive, purple<br>grained to porp<br>in size, in a ve<br>fragments; loca<br>36.10 - 36.30 | e-red (hematitic), with 5-20% angular, 75% bright red (syenite ?), fine<br>obyritic and 25% buff-brown to dark green trachytic clasts, 0.1-5 cm<br>byry fine grained hematized matrix, with predominantly red trachyte<br>ally crudely bedded @ 60° tca with minor ash tuff horizons.<br>Fault @ 45° tca; strong, rubbly sericite schist with 2 cm quartz + | 7918<br>7919                         | 35.50<br>36.00                            | 36.00<br>36.50                            | 0.50<br>0.50                 | 95    | Hematized Tuff with fault                                          | 0.01                              |           |      |
|       |          | 37.30                                                                                                      | ankerite vein.<br>Patch of coarse blebby pyrite proximal to a tight chloritic fracture.                                                                                                                                                                                                                                                                     | 7920<br>7921<br>7922<br>7923         | 36.50<br>37.00<br>38.00<br>39.00          | 37.00<br>38.00<br>39.00<br>40.00          | 1.00<br>1.00<br>1.00<br>1.00 |       | Minor blebby pyrite in hematitic<br>Tuff<br>Massive hematized Tuff | 0.01<br>0.04<br>0.01              | 0.02      |      |
| 40.00 | 49.50    | ASH-TUFF<br>40.00 - 44.00<br>44.00 - 49.50                                                                 | Moderately sericitized, light green massive to weakly bedded, with up to 5%, $\leq = 3$ mm dark grey to green to red lapilli clasts; quite soft and pervasively sericitized but is virtually undeformed. Dark green, chloritic ash-tuff.                                                                                                                    | 7924<br>7925<br>7926<br>7927         | 40.00<br>41.00<br>42.00<br>43.00          | 41.00<br>42.00<br>43.00<br>44.00          | 1.00<br>1.00<br>1.00<br>1.00 |       | Sericitized Tuff                                                   | 0.01<br>0.01<br>0.01<br>0.01      |           |      |



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| INTE  | RVAL   | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                      |                                                                               |                                                                               |                                                                                                                            | SAM   | IPLE                                                        |                                                             | ASSAYS    |      |
|-------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------|-------------------------------------------------------------|-----------|------|
| FROM  | то     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No.                                                                  | FROM                                                                          | то                                                                            | Length                                                                                                                     | % Rec | DESCRIPTION                                                 | Au, g/1                                                     | Au, Check | Au*M |
|       |        | <ul> <li>45.85 - 47.75 5% white-pink quartz + calcite veins up to 3 cm wide, with weak sericite alteration halos and &lt;= 0.5% pyrite in wall rock.</li> <li>46.90 - 49.50 Gradational zone from ash-tuff to coarse lapilli-tuff.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7928<br>7929<br>7930<br>7931<br>7932<br>7933<br>7934<br>7935<br>7936 | 44.00<br>45.00<br>45.80<br>46.30<br>46.90<br>47.50<br>48.00<br>49.00<br>50.00 | 45.00<br>45.80<br>46.30<br>46.90<br>47.50<br>48.00<br>49.00<br>50.00<br>51.00 | 1.00<br>0.80<br>0.50<br>0.60<br>0.60<br>0.50<br>1.00<br>1.00<br>1.00                                                       |       | Ash Tuff with quartz + calcite<br>veinlets and minor pyrite | 0.01<br>nii<br>0.02<br>0.04<br>0.03<br>0.02<br>0.04<br>0.01 | 0.03      |      |
| 49.50 | 123.70 | <ul> <li>COARSE MONOLITHIC LAPILLI-TUFF / BLOCK-TUFF</li> <li>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.</li> <li>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.</li> <li>91.00 - 91.70 Fault @ 10° tca; tight chlorite + sericite slip with irregular, white-pink quartz + calcite + sericite.</li> <li>105.50 Fault @ 45° tca; sharp, strong chlorite + sericite slip with minor, how the sub-paralle is the sub-parallel is the sub-paralle is the sub-paralle is the sub-paralle is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-parallel is the sub-</li></ul> | 7937                                                                 | 111.00                                                                        | 112.00                                                                        | ) 1.00                                                                                                                     |       | Massive Coarse Tuff                                         | nil                                                         |           |      |
|       |        | <ul> <li>1-2 mm quartz veinlets on adjoining wall rock.</li> <li>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.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7938<br>7939<br>7940<br>7941<br>7942<br>7943<br>7943                 | 112.00<br>113.00<br>113.50<br>114.00<br>115.00<br>116.00<br>117.00            | 113.00<br>113.50<br>114.00<br>115.00<br>116.00<br>117.00<br>118.00            | <ul> <li>1.00</li> <li>0.50</li> <li>0.50</li> <li>1.00</li> <li>1.00</li> <li>1.00</li> <li>1.00</li> <li>1.00</li> </ul> |       | Sericitized foliated Tuff                                   | 0.01<br>0.02<br>0.01<br>0.01<br>0.01<br>0.08<br>0.01        | 0.03      |      |

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#### HOLE: AK-90-27

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| INTER  | RVAL   | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                              |                                                                                                  |                                                                                                  |                                                                      | SAM   | IPLE                                          |                                                              | ASSAYS        |
|--------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------|-----------------------------------------------|--------------------------------------------------------------|---------------|
| FROM   | то     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | No.                                                                          | FROM                                                                                             | TO                                                                                               | Length                                                               | % Rec | DESCRIPTION                                   | Au, g/t                                                      | Au,Check Au*M |
| 123.70 | 130.10 | ACU THEE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7945<br>7946<br>7947<br>7948<br>7949<br>7950                                 | 118.00<br>119.00<br>120.00<br>121.00<br>122.00<br>123.00                                         | 119.00<br>120.00<br>121.00<br>122.00<br>123.00<br>123.70                                         | 1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>0.70                         |       | Sericitized Lapilli Tuff                      | 0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01                 |               |
| 123.10 | 130.10 | <ul> <li>123.70 - 124.80 Shear zone @ 65° tca; moderately to strongly deformed zone with 15-20% wispy sericite and 5-10% irregular white quartz veinlets and masses; &lt; 0.5% finely disseminated pyrite; upper and lower contacts are sharp, sericite slips.</li> <li>124.80 - 130.10 Massive, very fine grained ash-tuff with patchy, diffuse zones of sericite alteration within hematized portions, which locally produces a dirty mottled texture.</li> <li>125.90 - 126.05 Fault @ 60° tca; strong chlorite + sericite slips with brecciated quartz ± ankcrite veining.</li> <li>E.O.H.</li> </ul> | 7951<br>7952<br>7953<br>7954<br>7955<br>7956<br>7957<br>7958<br>7959<br>7960 | 123.70<br>124.20<br>124.80<br>125.30<br>125.80<br>126.30<br>127.00<br>128.00<br>129.00<br>129.50 | 124.20<br>124.80<br>125.30<br>125.80<br>126.30<br>127.00<br>129.00<br>129.00<br>129.50<br>130.10 | 0.50<br>0.60<br>0.50<br>0.50<br>0.70<br>1.00<br>1.00<br>0.50<br>0.60 |       | Sericite + quartz shear<br>Hematitic Ash Tuff | 0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01 | 0.04          |
|        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                              |                                                                                                  |                                                                                                  | ·                                                                    |       |                                               |                                                              |               |

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| PROPERTY                                                 | Amalgamated Kirkland                                                                         | DATE LOGGED                                                          | December 6 1990                                        | EASTING                                               | 7350.00                            | DEPTH                              | AZIMUTH | DIP                  |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|------------------------------------|------------------------------------|---------|----------------------|
| TOWNSHIP<br>CLAIM No.<br>STARTED<br>COMPLETED<br>PURPOSE | Teck<br>L 491183<br>December 4, 1990<br>December 6, 1990<br>To test 101-7290 gold zone (West | LOGGED BY<br>SIGNED BY<br>DRILLED BY<br>SURVEYED BY<br>CORE LOCATION | M. Masson<br>W B<br>HEath & Sherwood<br>K.L. Warehouse | NORTHING<br>ELEVATION<br>LENGTH<br>UNITS<br>CORE SIZE | 10170.00<br>122.40<br>metres<br>NQ | Collar<br>38.00<br>76.00<br>114.00 | 341     | 45<br>45<br>44<br>43 |
| COMMENTS                                                 | The 102 - 7290 zone was<br>intersected at 44.00 - 46.00m                                     |                                                                      |                                                        |                                                       |                                    |                                    |         |                      |

|                                                                                                                                                                                                                                                                                                                               | SUMMAI                                                                                                                                                                                                                                                                                                                                                                       | RY LOG                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | AS                                   | SAY SUMMARY             | ł                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------|-------------------|
| INTERVAL<br>From To                                                                                                                                                                                                                                                                                                           | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                  | INTERVAL<br>From To                                                       | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | INTERVAL<br>From To                  | LENGTH<br>in metres     | AVERAGE<br>Au g/t |
| 0.00         5.50           10.60         10.60           10.60         13.45           13.45         21.60           21.60         24.40           24.40         26.15           28.30         24.75           44.75         45.20           45.20         50.70           50.70         55.80           55.80         64.70 | CASING<br>BLEACHED LAPILLI TUFF<br>Sericitic<br>CONGLOMERATE / GRAYWACKE<br>BLEACHED LAPILLI TUFF<br>Sericitic<br>CONGLOMERATE<br>Sericitic<br>ASH TUFF<br>CONGLOMERATE / GRAYWACKE<br>ASH / LAPILLI TUFF<br>Hematitic<br>PYRITIC LAPILLI TUFF<br>1% pyrite, sericitic<br>ASH / LAPILLI TUFF<br>Weakly hematitic<br>LAPILLI TUFF<br>Weakly chloritic<br>MUDSTONE / SILTSTONE | 64.70 115.00<br>115.00 118.60<br>118.60 120.00<br>120.00 122.40<br>122.40 | GRAYWACKE<br>Trace to 2% pyrite<br>69.10 - 69.60 1 - 2% white to blue gray quartz<br>veins, 1% pyrite<br>71.80 - 72.90 1 - 2% blue gray quartz veins<br>73.40 - 74.30 2 - 3% blue gray quartz veins, 1%<br>pyrite<br>93.80 - 93.90 Shear zone, 3% blue gray quartz<br>veins, < 0.5% pyrite<br>101.80 - 102.15 Shear zone, 25 - 30% gray quartz<br>veining, 1% pyrite, sericitic<br>CONGLOMERATE<br>GRAYWACKE<br>2 - 3% blue gray quartz veinlets, 1 - 2% pyrite<br>LAPILLI TUFF<br>E.O.H. | 44.00 46.0<br>includii<br>44.70 45.2 | 0 2.00<br>8 0<br>0 0.50 | 1.89<br>4.03      |

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# BATTLE MOUNTAIN (CANADA) INC. DIAMOND DRILL LOG

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#### HOLE: AK-90-28

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| INTE  | RVAL  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                      |                                                                      |                                                                      |                                                      | SAN   | IPLE                                                                                                                       |                                                      | ASSAYS         |
|-------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------|
| FROM  | то    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | No.                                                                  | FROM                                                                 | то                                                                   | Length                                               | % Rec | DESCRIPTION                                                                                                                | Au, g/l                                              | Au, Check Au*M |
| 0.00  | 5.50  | CASING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                      |                                                                      |                                                                      |                                                      |       |                                                                                                                            |                                                      |                |
| 5.50  | 10.60 | <b>BLEACHED IAPILLI-TUFF</b><br>Massive, light buff-brown with 5% black subhedral, chloritic lath shaped crystals up<br>to 2 mm and irregular, anhedral crystal aggregates up to 5 cm as spots and irregular<br>masses, with irregular diffuse boundaries and may represent bleached lapilli clasts;<br>highly altered and bleached matrix with 5-10% wispy sericite within a very fine<br>grained buff-brown groundmass; local relict lapilli clasts up to 1 cm; usually non-<br>magnetic; trace pyrite. | 7961<br>7962<br>7963<br>7964<br>7965<br>7966                         | 5.50<br>6.00<br>7.00<br>8.00<br>9.00<br>10.00                        | 6.00<br>7.00<br>8.00<br>9.00<br>10.00<br>10.60                       | 0.50<br>1.00<br>1.00<br>1.00<br>1.00<br>0.60         | ·     | Bleached Lapilli Tuff                                                                                                      | 0.01<br>0.01<br>0.01<br>0.02<br>0.02                 |                |
| 10.60 | 13.45 | <ul> <li>PEBBLE CONGLOMERATE / GRAYWACKE</li> <li>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.</li> <li>12.90 - 13.05 Shear zone @ 70° tca; strongly foliated to schistose sericite + chlorite + ankerite + quartz.</li> </ul>                                                | 7967<br>7968<br>7969<br>7970                                         | 10.60<br>11.40<br>12.40<br>13.10                                     | 11.40<br>12.40<br>13.10<br>14.00                                     | 0.80<br>1.00<br>0.70<br>0.90                         |       | Sericitic Pebble Conglomerate<br>Foliated to sheared Conglomerate<br>with fault at 12.90 m<br>Sericitized Graywacke + Tuff | 0.02<br>0.02<br>0.01<br>0.02                         | 0.01           |
| 13.45 | 21.60 | <b>BLEACHED LAPILLI-TUFF</b><br>Massive, light buff-brown with 5% black subhedral, chloritic lath shaped crystals up<br>to 2 mm and irregular, anhedral crystal aggregates up to 5 cm as spots and irregular<br>masses, with irregular diffuse boundaries and may represent bleached lapilli clasts;<br>highly altered and bleached matrix with 5-10% wispy sericite within a very fine<br>grained buff-brown groundmass; local relict lapilli clasts up to 1 cm; usually non-<br>magnetic; trace pyrite. | 7971<br>7972<br>7973<br>7974<br>7975<br>7976<br>7976<br>7977<br>7978 | 14.00<br>15.00<br>16.00<br>17.00<br>18.00<br>19.00<br>20.00<br>21.00 | 15.00<br>16.00<br>17.00<br>18.00<br>19.00<br>20.00<br>21.00<br>21.60 | 1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>0.60 |       | Bleached Lapilli Tuff                                                                                                      | 0.01<br>0.01<br>0.02<br>0.01<br>0.01<br>0.02<br>0.02 |                |

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

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| INTE  | RVAL  | DESCRIPTION                                                                                                                                                                                                                                                                |                                                                                                    |                                                                                                          |                                                                                                                   | ·····                                                               | SAN   | (PI F                                                       |                                                                     | ASSAVS   |      |
|-------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------|-------------------------------------------------------------|---------------------------------------------------------------------|----------|------|
| FROM  | то    |                                                                                                                                                                                                                                                                            | No.                                                                                                | FROM                                                                                                     | то                                                                                                                | Length                                                              | % Rec | DESCRIPTION                                                 | Au, g/t                                                             | Au,Check | Au*M |
|       |       | 41.00 - 41.25 Shear zone @ 70° tca; strongly foliated, sericitized tuffs with sharp,<br>tight sericite slip boundaries and minor white quartz adjacent to slip<br>planes.                                                                                                  | 7995<br>7996<br>7997<br>7998<br>7999<br>8000<br>11701<br>11702<br>11703<br>11704<br>11705<br>11706 | 34.00<br>35.00<br>36.00<br>37.00<br>39.00<br>40.00<br>41.00<br>41.00<br>41.50<br>42.00<br>43.00<br>44.00 | 35.00<br>36.00<br>37.00<br>38.00<br>39.00<br>40.00<br>41.00<br>41.00<br>41.50<br>42.00<br>43.00<br>44.00<br>44.70 | 1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>0.50<br>0.5 |       | Ash Tuff with shear zone at<br>41.00m<br>Hematitic Ash Tuff | nil<br>0.01<br>0.02<br>0.02<br>0.01<br>0.01<br>0.02<br>0.02<br>0.02 | 0.01     |      |
| 44.75 | 45.20 | <b>PYRITIC LAPILLI TUFF</b><br>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<br>Weakly hematitic, intercalated ash- and lapilli-tuff beds up to 0.5 metres wide,<br>usually with gradational contacts; light grey-brown to purple (hematitic); very<br>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                                                                                                                   | 11708                                                                                              | 45.20                                                                                                    | 46.00                                                                                                             | 0.80                                                                |       | Sericitized Tuff with 2 - 3% quartz yeins                   | 1.54                                                                |          |      |
|       |       | veins.                                                                                                                                                                                                                                                                     | 11709                                                                                              | <b>46.0</b> 0                                                                                            | 47.00                                                                                                             | 1.00                                                                |       | Weakly hematitic Ash Tuff                                   | 0.03                                                                |          |      |

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| INTE  | RVAL  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                          |                                                                                                          |                                                                                                          |                                                                                      | SAM   | IPLE                                                                                                                                                                                                                                        |                                                              | ASSAYS         |
|-------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
| FROM  | то    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No.                                                                                                      | FROM                                                                                                     | то                                                                                                       | Length                                                                               | % Rec | DESCRIPTION                                                                                                                                                                                                                                 | Au, g/t                                                      | Au, Check Au*M |
|       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 11710<br>11711<br>11712<br>11713                                                                         | 47.00<br>48.00<br>49.00<br>50.00                                                                         | 48.00<br>49.00<br>50.00<br>50.70                                                                         | 1.00<br>1.00<br>1.00<br>0.70                                                         |       |                                                                                                                                                                                                                                             | 0.02<br>0.01<br>0.03<br>0.01                                 |                |
| 50.70 | 55.80 | <ul> <li>LAPILLI-TUFF</li> <li>Massive to weakly foliated, grey-green, with 5-10% angular, buff-brown to dark green, trachytic clasts in equal proportions, in a fine grained ash matrix; moderately to strongly magnetic and weakly chloritic; lower contact is somewhat gradational.</li> <li>54.50 - 55.80 Moderately well foliated and sericitized with patchy diffuse alteration fronts.</li> <li>54.50 - 55.20 10% white quartz ± chlorite veinlets with some very minor, coarse subhedral pyrite.</li> </ul>                                                                                                                                                                                                                                                                                | 11714<br>11715<br>11716<br>11717<br>11718<br>11719                                                       | 50.70<br>51.50<br>52.00<br>53.00<br>54.00<br>55.00                                                       | 51.50<br>52.00<br>53.00<br>54.00<br>55.00<br>55.80                                                       | 0.80<br>0.50<br>1.00<br>1.00<br>1.00<br>0.80                                         |       | Massive Lapilli Tuff                                                                                                                                                                                                                        | 0.01<br>0.01<br>0.02<br>0.01<br>0.01                         | 0.02           |
| 55.80 | 64.70 | <ul> <li>MUDSTONE / SILTSTONE</li> <li>Intercalated aphanitic, yellow-green mudstone with fine grained, dark green siltstone giving pronounced laminated or striped appearance; mudstone laminations from a few millimetres to 20 cm and typically disrupted, convoluted beds often cut by distinct micro-faults.</li> <li>58.40 - 59.30 Numerous, tight sericitic slips @ 70° tca; barren, white quartz ± chlorite veinlets up to 1 cm wide.</li> <li>62.36 - 62.55 Fault zone @ 70° tca: sericite + chlorite + quartz; semi-massive white quartz vein with sericitic fractures and sharp sericite + chlorite slip planes on vein boundaries; lower contact gradational.</li> <li>64.00 - 64.70 Moderately sericitized, with 1% dark grey quartz + chlorite stringers up to 3 mm wide.</li> </ul> | 11720<br>11721<br>11722<br>11723<br>11724<br>11725<br>11726<br>11727<br>11728<br>11729<br>11730<br>11731 | 55.80<br>56.50<br>57.00<br>58.00<br>58.40<br>59.40<br>60.00<br>61.00<br>62.00<br>62.60<br>63.10<br>64.00 | 56.50<br>57.00<br>58.00<br>58.40<br>59.40<br>60.00<br>61.00<br>62.00<br>62.60<br>63.10<br>64.00<br>64.70 | 0.70<br>0.50<br>1.00<br>0.40<br>1.00<br>1.00<br>1.00<br>0.60<br>0.50<br>0.90<br>0.70 | •     | Laminated Mudstone / Siltstone<br>Mudstone with numerous sericite<br>slips with quartz veinlets<br>Quartz + sericite shear zone<br>Mudstone with 1% quartz veinlets<br>Sericitized Mudstone / Graywacke<br>, 1% quartz + chlorite stringers | 0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01 | 0.02           |

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|-------|--------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|-------|---------------|--------|-------|-----------------------------------------------------|---------|---------------------------------------|
| INTE  | RVAL   |                                                   | DESCRIPTION                                                                                                                             |       |       |               |        | SAM   | IPLE                                                |         | ASSAYS                                |
| FROM  | то     |                                                   |                                                                                                                                         | No.   | FROM  | то            | Length | % Rec | DESCRIPTION                                         | Au, g/t | Au, Check Au <sup>•</sup> M           |
| 64.70 | 115.00 | GRAYWACKE<br>Massive, fine g<br>quartz grains, al | rained, light green graywacke of 40% lithics, 35% feldspar, 25%<br>ll <= 1 mm in size; minor, angular mudstone clasts, fuchsitic clasts | 11732 | 64.70 | .65.50        | 0.80   |       | Graywacke with 1 - 2% quartz stringers              | nil     |                                       |
|       |        | and minor pervi                                   | asive disseminated pyrite.                                                                                                              | 11733 | 65.50 | 66.00         | 0.50   |       |                                                     | 0.01    |                                       |
|       |        | •                                                 | 1. ·                                                                                                                                    | 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    |                                       |
|       |        | 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.                         | 11737 | 69.00 | 69.60         | 0.60   |       | Graywacke with 2% quartz veinlets and 1 - 2% pyrite | 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    |                                       |
|       |        | 71.80 - 72.90                                     | 1-2%, blue-grey, $< = 1$ mm, quartz veinlets and very minor disseminated pyrite.                                                        | 11741 | 71.80 | 72.50         | 0.70   |       | 1 - 2% narrow blue-gray quartz = veinlets           | 0.01    |                                       |
|       |        |                                                   |                                                                                                                                         | 11742 | 72.50 | 73.00         | 0.50   |       |                                                     | 0.02    |                                       |
|       |        |                                                   |                                                                                                                                         | 11743 | 73.00 | 73.40         | 0.40   |       |                                                     | 0.02    |                                       |
|       |        | 73.40 - 74.30                                     | Stockwork of 2-3%, of blue-grey, 1-2 mm quartz veinlets, with 1%                                                                        | 11744 | 73.40 | 74.40         | 1.00   |       | 2 - 3% quartz stockworking                          | 0.01    | 0.01                                  |
|       |        |                                                   | disseminated pyrite; upper contact sharp chlorite slip @ 70° tca;                                                                       | 11745 | 74.40 | 75.00         | 0.60   |       |                                                     | 0.01    |                                       |
|       | 1      |                                                   | lower contact is a 1 cm chlorite + quartz slip @ 50° tca.                                                                               | 11746 | 75.00 | 76.00         | 1.00   |       |                                                     | 0.01    |                                       |
|       |        | 1                                                 |                                                                                                                                         | 11747 | 76.00 | 77.00         | 1.00   |       |                                                     | 0.01    |                                       |
| •     |        | 77.25 - 77.57                                     | Shear zone; weakly foliated, sericitized graywacke with 1-2% white                                                                      | 11748 | 77.00 | 77.60         | 0.60   |       | Foliated Graywacke with 2%                          | 0.02    |                                       |
|       |        |                                                   | quartz veinlets; contacts are strong sharp sericite + quartz slips @                                                                    |       |       |               |        |       | white quartz                                        |         |                                       |
|       |        |                                                   | 60° tca.                                                                                                                                | 11749 | 77.60 | 78.30         | 0.70   |       |                                                     | 0.01    |                                       |
|       |        | 1                                                 |                                                                                                                                         | 11750 | 78.30 | <b>79.0</b> 0 | 0.70   |       |                                                     | 0.03    |                                       |
|       |        |                                                   |                                                                                                                                         | 11751 | 79.00 | 80.00         | 1.00   |       | Massive Graywacke                                   | 0.02    |                                       |
|       | ļ      |                                                   |                                                                                                                                         | 11752 | 80.00 | 81.00         | 1.00   |       |                                                     | 0.01    |                                       |
|       | ]      | ļ                                                 |                                                                                                                                         | 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   |       | 1                                                   | 0.01    |                                       |
|       | I      |                                                   |                                                                                                                                         | 1     |       |               |        |       | 1                                                   | 1.      |                                       |

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#### HOLE: AK-90-28

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PAGE: 7 of 8

| INTE | RVAL |                                                   | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                  |                                                                                                                                                                           |                    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| FROM | то   |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No.                                                                                                                                                                                              | FROM                                                                                                                                                                      | то                                                                                                                                                                       | Length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Au,Check     | Au*M |
| FROM | ТО   | 90.60 - 90.80<br>93.80 - 93.90<br>101.80 - 102.15 | <ul> <li>7 cm wide quartz + chlorite breccia vein with strong sericite alteration of wall rock and 0.5% disseminated pyrite on vein margin.</li> <li>Shear zone @ 60° tca; well foliated, sericitic graywacke with 3%, &lt; 1 mm, blue quartz veinlets and &lt; 0.5% pyrite; contacts are sharp, tight sericite + chlorite slips.</li> <li>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; 25-20%</li> </ul> | No.<br>11757<br>11758<br>11759<br>11760<br>11761<br>11762<br>11763<br>11764<br>11763<br>11764<br>11765<br>11766<br>11767<br>11768<br>11769<br>11770<br>11771<br>11772<br>11775<br>11776<br>11777 | FROM<br>85.00<br>86.00<br>87.00<br>89.00<br>90.00<br>90.50<br>91.00<br>92.00<br>93.60<br>94.00<br>95.00<br>96.00<br>97.00<br>98.00<br>99.00<br>100.00<br>101.50<br>102.15 | TO<br>86.00<br>87.00<br>89.00<br>90.00<br>90.00<br>91.00<br>92.00<br>93.00<br>94.00<br>95.00<br>96.00<br>97.00<br>98.00<br>99.00<br>100.00<br>101.50<br>102.15<br>103.00 | Length<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55 | % Rec | DESCRIPTION<br>Sericitized Graywacke with 5 - 7<br>cm quartz + chlorite breccia vein<br>and 0.5% pyrite<br>Quartz + sericite shear zone<br>Sericite + quartz + pyritic shear<br>zone | Au, g/t<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.02<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.02<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.02<br>0.01<br>0.01<br>0.02<br>0.01<br>0.01<br>0.02<br>0.01<br>0.01<br>0.01<br>0.02<br>0.01<br>0.01<br>0.02<br>0.01<br>0.01<br>0.02<br>0.01<br>0.01<br>0.02<br>0.01<br>0.01<br>0.02<br>0.11<br>0.01<br>0.02<br>0.11<br>0.11<br>0.11<br>0.02<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.1 | 0.01<br>0.02 | Au*M |
|      |      |                                                   | 30% white-grey quartz, with interstitial, sericitic graywacke containing 0.5-1% disseminated pyrite.                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 11778<br>11779<br>11780<br>11781<br>11782<br>11783                                                                                                                                               | 103.00<br>104.00<br>104.60<br>105.60<br>106.00<br>107.00                                                                                                                  | 104.00<br>104.60<br>105.60<br>106.00<br>107.00<br>107.50                                                                                                                 | 1.00         0.60         1.00         0.40         1.00         0.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                                                                                                                                                                                      | nil<br>0.01<br>nil<br>nil<br>nil<br>nil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|--------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------|------------------------------------|--------------------------------------|-------|-----------------------------------------------|----------------------------|------------|------|
| INTE   | RVAL   | DESCRIPTION                                                                                                                                                                                                                                         | No                               | FROM                                 | то                                 | Length                               | % Rec | DESCRIPTION                                   | Au, g/t                    | Au,Check A | Au*M |
| FROM   | то     | 107 00 for wide chlorite + quartz vein with angular white quartz breccia                                                                                                                                                                            | 11784                            | 107.50                               | 108.00                             | 0.50                                 |       | Quartz + chlorite breccia vein                | 0.01<br>níl                |            |      |
|        |        | 107.65 - 107.80 5 cm while childrife 2 quarks fragments up to 0.5 cm; < 0.5% fragments and sericitized wall rock fragments up to 0.5 cm; < 0.5%                                                                                                     | 11785<br>11786                   | 108.00<br>109.00                     | 109.00                             | 1.00                                 | •     |                                               | 0.01<br>0.01               |            |      |
|        |        | рупко.                                                                                                                                                                                                                                              | 11787<br>11788                   | 110.00                               | 112.00                             | 1.00                                 |       |                                               | 0.02                       |            |      |
| l.     |        |                                                                                                                                                                                                                                                     | 11789<br>11790                   | 112.00<br>113.00                     | 113.00<br>114.00                   | 1.00                                 |       |                                               | nil<br>nil                 |            |      |
|        |        |                                                                                                                                                                                                                                                     | 11791<br>11792                   | 114.00<br>114.60                     | 114.60<br>115.00                   | 0.60                                 |       | Aphanitic Mudstone at<br>Conglomerate contact | nil                        |            |      |
| 115.00 | 118.60 | <b>PEBBLE CONGLOMERATE</b><br>Upper contact is sharp, irregular and moderately sericitic; massive, undeformed,<br>unaltered, framework supported, polymictic, jasperoidal conglomerate; lower contact<br>marked by a 1 cm barren white quartz vein. | 11793<br>11794<br>11795<br>11796 | 115.00<br>116.00<br>117.00<br>118.00 | 116.00<br>117.00<br>118.0<br>118.6 | ) 1.00<br>) 1.00<br>) 1.00<br>) 0.60 |       | Conglomerate                                  | 0.01<br>nil<br>nil<br>0.01 | 0.02       |      |
| 118.60 | 120.00 | <b>GRAYWACKE</b><br>Massive, fine grained, light grey-green graywacke with 2-3% blue-grey quartz veinlets<br>up to 1 mm wide and up to 1-2% disseminated pyrite; lower contact is sericitized<br>with a 1-2 cm quartz veinlet.                      | 1179<br>1179                     | 7 118.60<br>8 119.00                 | ) 119.0<br>) 120.0                 | 0 0.40<br>0 1.00                     |       | Graywacke with 1% pyrite silicified           | 0.02                       |            |      |
| 120.00 | 122.40 | LAPILLI-TUFF<br>Massive, grey-green, moderately magnetic with 5-10% buff brown to green, trachyte<br>clasts up to 5 cm (avg. 1-2 cm), in an aphanitic grey-green matrix.                                                                            | 1179<br>1180<br>1180             | 9 120.0<br>0 121.0<br>01 122.0       | 0 121.0<br>0 122.0<br>0 122.4      | 00 1.00<br>00 1.00<br>40 0.40        |       | Massive Lapilli Tuff                          | 0.01<br>0.01<br>nil        |            |      |
|        | 122.40 | E.O.H.                                                                                                                                                                                                                                              |                                  |                                      | ł                                  |                                      |       |                                               | 1                          |            |      |

**PAGE:** 8 of 8

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work and the reverse side of this form for table of information.

| Mining Act                                                                                                                  |                                                                  | Report                                                                         | of Work                                                                                          |                                                                       |                                                                                  |                         |                                            |                        |             |  |  |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------|--------------------------------------------|------------------------|-------------|--|--|
| Name and Address of Recorded Holder     Prospector's Licence No.       BATTLE MOUNTAIN (CANADA) INC.     75179       200. D |                                                                  |                                                                                |                                                                                                  |                                                                       |                                                                                  |                         |                                            |                        |             |  |  |
| 390 Bay Street, S                                                                                                           | uite 2                                                           | 910, Tor                                                                       | conto,                                                                                           | Ontari                                                                | о м5н 2                                                                          | 2¥2                     | Telephone No.<br>(416)                     | 867-981                | 5           |  |  |
| Summary of Distribution of Credits                                                                                          | and Work                                                         | Performance                                                                    | •                                                                                                |                                                                       |                                                                                  |                         | L                                          |                        |             |  |  |
| Mining Division                                                                                                             | Mi<br>Profix                                                     | ning Claim                                                                     | Work                                                                                             | Brofix                                                                | lining Claim                                                                     | Wo                      | xrk N                                      | lining Claim           | Work        |  |  |
| Township or Area                                                                                                            | FIGHX                                                            |                                                                                | Cabadu                                                                                           |                                                                       | NUMber                                                                           | Uaya                    | Prenx                                      | Number                 | Days Cr.    |  |  |
| Teck Township Total Assessment Credits Claimed                                                                              | bee A                                                            | LLacheu                                                                        | Schedu                                                                                           | te 1                                                                  |                                                                                  |                         |                                            |                        |             |  |  |
| 7120                                                                                                                        | +                                                                |                                                                                |                                                                                                  |                                                                       |                                                                                  |                         |                                            |                        |             |  |  |
| Type of Work Performed<br>(Check one only)                                                                                  |                                                                  |                                                                                |                                                                                                  |                                                                       | . <u></u>                                                                        |                         |                                            |                        |             |  |  |
| Manual Work<br>Shaft Sinking Drifting or other                                                                              |                                                                  | . <del>.</del>                                                                 |                                                                                                  |                                                                       |                                                                                  |                         |                                            |                        |             |  |  |
| Mechanical equipment                                                                                                        |                                                                  |                                                                                |                                                                                                  | · · · · · · · · · · · · · · · · · · ·                                 |                                                                                  |                         |                                            |                        |             |  |  |
| Power Stripping other than Manual<br>(maximum credit allowed - 100 days                                                     |                                                                  |                                                                                |                                                                                                  |                                                                       |                                                                                  |                         |                                            | -                      |             |  |  |
| per claim)                                                                                                                  |                                                                  |                                                                                |                                                                                                  |                                                                       |                                                                                  |                         |                                            |                        |             |  |  |
|                                                                                                                             |                                                                  |                                                                                | · · · · · · · · · · · · · · · · · · ·                                                            |                                                                       | ······································                                           |                         |                                            |                        |             |  |  |
|                                                                                                                             |                                                                  |                                                                                |                                                                                                  | 1                                                                     |                                                                                  |                         |                                            | ] ·                    | 1           |  |  |
| Dates when work was performed                                                                                               |                                                                  |                                                                                | otal No. of Da                                                                                   | ys Performed                                                          | Total No.                                                                        | of Days Claim           | med   Total No.<br>Future Da               | of Days to be Cla      | imed at a   |  |  |
| From: OCE. 15/90 To:                                                                                                        | Dec. 1                                                           | 0/90                                                                           | /120                                                                                             |                                                                       | /120                                                                             | J<br>                   |                                            | U                      |             |  |  |
| All the work was performed on Mining<br>Indicate no. of days performed on ea                                                | y Claim(s):<br>ch claim.                                         | Mining Claim<br>477299                                                         | No. of Days                                                                                      | Mining Claim<br>477419                                                | No. of Days                                                                      | Mining Ciaim<br>5 49118 | No. of Days                                | Mining Claim<br>491651 | No. of Days |  |  |
| Mining Claim No. of Days Mining Claim                                                                                       | No. of Days                                                      | Mining Claim                                                                   | No. of Days                                                                                      | Vining Claim                                                          | No. of Days                                                                      | Mining Claim            | No. of Days                                | Mining Claim           | No. of Days |  |  |
| 491663 2572.92                                                                                                              |                                                                  | 500057                                                                         | 456.04                                                                                           | 500058                                                                | 45.94                                                                            | See At                  | ttached S                                  | chedule 11             |             |  |  |
| Drilling performed<br>Core stored at Batt<br>953<br>Kir<br>Core Diameter: N                                                 | 34 Dun<br>Kirkla<br>Oct. 1<br>le Mou<br>Gover<br>kland<br>Q 17/8 | can Ave.<br>nd Lake,<br>5, 1990<br>ntain (C<br>nment Ro<br>Lake, Or<br>inches, | , Nort<br>Ontar<br>to Dec<br>Canada)<br>oad Wes<br>ntario<br>, Drill                             | h<br>io P2N<br>:. 6, 1<br>Inc.<br>st<br>: Hole                        | 3L3<br>.990<br>Wareho<br>Locatio                                                 | on :                    | NOC OF OF OF OF OF OF OF OF OF OF OF OF OF | wing No.               | 1           |  |  |
| I hereby certify that, at the time the work to                                                                              | vas performed                                                    | e NO. 2 ON re                                                                  | ered in this re                                                                                  | port Date                                                             |                                                                                  | p                       | Recerded Holde                             | r or Agent (Signa      | iture)      |  |  |
| by the current recorded holder.                                                                                             |                                                                  |                                                                                |                                                                                                  | Fe Fe                                                                 | 6 19,19                                                                          | 91                      | Cival                                      | Engline                | 7           |  |  |
| I hereby certify that I have a persona<br>or witnessed same during and/or afte<br>Name and Address of Person Certifying     | and intimati<br>r its comple                                     | te knowledge o<br>tion and the ar                                              | of the facts a<br>nnexed repo                                                                    | et forth in ti<br>rt is true.                                         | he Report of                                                                     | Work anne               | xed hereto, ha                             | aving performed        | the work    |  |  |
| T. J. Bottrill, Ba                                                                                                          | <u>ttle M</u>                                                    | ountain                                                                        | (Canad                                                                                           | la) Inc                                                               | 2., 390                                                                          | Bay S                   | St. Ste.                                   | 2910                   |             |  |  |
| Toronto, Ont., M5H                                                                                                          | 2¥2                                                              | (416                                                                           | 5) 867-                                                                                          | 9815                                                                  | Feb 19.                                                                          | 1991                    |                                            | (Bottril               | albul]      |  |  |
| For Office Use Only                                                                                                         |                                                                  |                                                                                |                                                                                                  |                                                                       |                                                                                  |                         | U.                                         |                        | <u></u>     |  |  |
| Work Assignments<br>L 4772 99 Premier<br>477419<br>491183<br>491651<br>491663<br>500057<br>500058<br>(X20) Diamond Drilling |                                                                  | tion: Jr<br>299 70                                                             | 1359.<br>1359.<br>401.<br>2214.1<br>2572.5<br>456.0<br>45.94<br>45.94<br>45.94<br>45.94<br>45.94 | 54 39<br>25 26<br>57 35<br>4 178<br>2 142<br>4 350<br>395<br>4 , port | Red<br>40.15<br>40.15<br>7.48<br>7.48<br>7.48<br>43.96<br>7.48<br>43.96<br>43.96 | MI                      | ADER LA<br>NING DIVIS                      | ED<br>BION<br>791      |             |  |  |
| 788 (89(103)                                                                                                                | 44<br>44                                                         | 1183 1                                                                         | 101.57                                                                                           | 14                                                                    | 49166                                                                            | 3                       | 2572.52                                    | durp pe                | frome       |  |  |

# SCHEDULE I

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# SUMMARY OF DISTRIBUTION OF CREDITS

| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u>Prefix</u>      | Mining Claim<br>Number | Work<br>Days<br><u>Credit</u> | <u>Prefix</u> | Mining Claim | Work<br>Days<br><u>Credit</u> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------|-------------------------------|---------------|--------------|-------------------------------|
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Ŧ                  | 1045667                |                               | +             | Barrison     | 10                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Li<br>T            | 1045667                | 40                            | بل<br>۲       | 1046588807   | 40                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ц<br>т             | 1045669                | 40                            | ب<br>ب        | 104658907    | 40                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ىل<br>•            | 1045670                | 40                            | ц<br>Т        | 1046590      | 40                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ц<br>Т             | 1045671                | 40                            | <u>ц</u>      | 1046520      | 20                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Г<br>Г             | 1045672                | 40                            | ц<br>т        | 1046521      | 60                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ľ                  | 1045673                | 40                            | L             | 1046522      | 60                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | L                  | 1046424                | 20                            | Г             | 1046524      | 60                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | L                  | 1046425                | 20                            | L             | 1046525      | 60                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | L                  | 1046426                | 20                            | L             | 1046526      | 40                            |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | L                  | 1046427                | 20                            | L             | 1046559      | 40                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | L                  | 1046428                | 20                            | L             | 1046560      | 40                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | L                  | 1046429                | 20                            | L             | 1046561      | 40                            |
| L       1046431       20       L       1046563       40         L       1046432       20       L       1046565       40         L       1046433       20       L       1046565       40         L       1046435       20       L       1046566       40         L       1046435       20       L       1046566       40         L       1046437       20       L       1046568       40         L       1046437       20       L       10465568       40         L       1046438       60       L       1046570       40         L       1046439       60       L       1046571       40         L       1046439       60       L       1046572       40         L       1046467       40       L       1046573       40         L       1046466       40       L       1046575       40         L       1046467       40       L       1046576       40         L       1046467       40       L       1046576       40         L       1046470       40       L       1046579       40 <tr< td=""><td>L</td><td>1046430</td><td>20</td><td>L</td><td>1046562</td><td>40</td></tr<> | L                  | 1046430                | 20                            | L             | 1046562      | 40                            |
| L104643220L104656440L104633320L104656540L104643520L104656640L104643630L104656840L104643720L104656940L104643860L104657040L104643960L104657140L104644030L104657140L104644120L104657340L104646640L104657540L104646740L104657540L104646740L104657540L104646940L104657540L104647140L104657840L104647340L104657840L104647340L104657840L104647140L104657840L104647340L104658140L104647540L104658140L104647640L104658140L104647640L104658540L104648140L104658540L104648140L104658540L104648340L104658840L104648540                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | $\mathbf{L}$       | 1046431                | 20                            | L             | 1046563      | 40                            |
| L       1046433       20       L       1046565       40         L       1046435       20       L       1046566       40         L       1046435       20       L       1046566       40         L       1046436       30       L       1046567       40         L       1046437       20       L       1046568       40         L       1046438       60       L       1046570       40         L       1046439       60       L       1046571       40         L       1046440       30       L       1046573       40         L       1046466       40       L       1046574       40         L       1046467       40       L       1046575       40         L       1046467       40       L       1046576       40         L       1046468       40       L       1046577       40         L       1046470       40       L       1046578       40         L       1046471       40       L       1046578       40         L       1046473       40       L       1046581       40                                                                                              | $\mathbf{L}_{\pm}$ | 1046432                | 20                            | L             | 1046564      | 40                            |
| L104643420L104656640L104643520L104656740L104643630L104656840L104643720L104656940L104643860L104657040L104644030L104657140L104644120L104657340L104646640L104657440L104646640L104657540L104646640L104657640L104646940L104657640L104647040L104657740L104647140L104657840L104647240L104658040L104647340L104658140L104647540L104658140L104647640L104658340L104647640L104658540L104648040L104658540L104648140L104658840L104648340L104658840L104648340L104658840L104648540L104658840L104648540L104658840L104648340                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | L                  | 1046433                | 20                            | $\mathbf{L}$  | 1046565      | 40                            |
| L104643520L104656740L104643630L104656840L104643720L104656940L104643860L104657040L104643960L104657140L104644030L104657240L104646640L104657340L104646640L104657540L104646740L104657640L104646840L104657640L104646940L104657640L104647140L104657840L104647340L104658040L104647340L104658140L104647540L104658140L104647640L104658340L104647640L104658540L104647640L104658540L104648040L104658640L104648140L104658640L104648240L104658840L104648340L104650840L104648540L104660740L104648540L104660840L104648540                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | $\mathbf{L}$       | 1046434                | 20                            | $\mathbf{L}$  | 1046566      | 40                            |
| L104643630L104656840L104643720L104656940L104643860L104657040L104643960L104657140L104644030L104657240L104646640L104657340L104646640L104657540L104646740L104657640L104646840L104657640L104646940L104657740L104647040L104657840L104647140L104657840L104647240L104658040L104647340L104658140L104647640L104658140L104647640L104658340L104647640L104658540L104648040L104658640L104648140L104658640L104648340L104658840L104648340L104658940L104648340L104660740L104648540L104660840L104648540L104660840L104648540                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | L                  | 1046435                | 20                            | $\mathbf{L}$  | 1046567      | 40                            |
| L $1046437$ 20L $1046569$ 40L $1046438$ 60L $1046570$ 40L $1046439$ 60L $1046570$ 40L $1046440$ 30L $1046571$ 40L $1046441$ 20L $1046572$ 40L $1046466$ 40L $1046573$ 40L $1046466$ 40L $1046574$ 40L $1046467$ 40L $1046575$ 40L $1046467$ 40L $1046575$ 40L $1046467$ 40L $1046576$ 40L $1046470$ 40L $1046577$ 40L $1046470$ 40L $1046578$ 40L $1046471$ 40L $1046578$ 40L $1046472$ 40L $1046580$ 40L $1046473$ 40L $1046582$ 40L $1046475$ 40L $1046582$ 40L $1046476$ 40L $1046583$ 40L $1046476$ 40L $1046585$ 40L $1046481$ 40L $1046587$ 40L $1046481$ 40L $1046688$ 40L $1046483$ 40L $1046607$ 40L $1046485$ 40L $1046607$ 40L $1046485$ 40L $1046607$ 40L $1046485$                                                                                                                                                                                                                                                                                                                                                                                                      | ${f L}$            | 1046436                | 30                            | L             | 1046568      | 40                            |
| L $1046438$ $60$ L $1046570$ $40$ L $1046439$ $60$ L $1046571$ $40$ L $1046440$ $30$ L $1046571$ $40$ L $1046441$ $20$ L $1046573$ $40$ L $1046466$ $40$ L $1046573$ $40$ L $1046466$ $40$ L $1046573$ $40$ L $1046467$ $40$ L $1046574$ $40$ L $1046467$ $40$ L $1046576$ $40$ L $1046470$ $40$ L $1046576$ $40$ L $1046470$ $40$ L $1046578$ $40$ L $1046471$ $40$ L $1046578$ $40$ L $1046471$ $40$ L $1046578$ $40$ L $1046472$ $40$ L $1046581$ $40$ L $1046473$ $40$ L $1046581$ $40$ L $1046475$ $40$ L $1046583$ $40$ L $1046476$ $40$ L $1046585$ $40$ L $1046480$ $40$ L $1046586$ $40$ L $1046481$ $40$ L $1046588$ $40$ L $1046483$ $40$ L $1046607$ $40$ L $1046483$ $40$ L $1046607$ $40$ L $1046483$ $40$ L $1046607$ $40$ L $1046483$ $40$ L $1046608$ $40$ L $1046486$ <th< td=""><td><math>\mathbf{L}</math></td><td>1046437</td><td>20</td><td><math>\mathbf{L}</math></td><td>1046569</td><td>40</td></th<>                                                                                                                                                      | $\mathbf{L}$       | 1046437                | 20                            | $\mathbf{L}$  | 1046569      | 40                            |
| L104643960L104657140L104644030L104657240L104644120L104657340L104646640L104657440L104646740L104657540L104646840L104657640L104646940L104657640L104647040L104657840L104647140L104657940L104647140L104658040L104647340L104658140L104647340L104658140L104647440L104658140L104647640L104658340L104647640L104658540L104648040L104658540L104648040L104658640L104648140L104658840L104648140L104658840L104648340L104658840L104648340L104660740L104648540L104660840L104648540L104660840L104648640L104660840L104648540                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | $\mathbf{L}$       | 1046438                | 60                            | $\mathbf{L}$  | 1046570      | 40                            |
| L104644030L104657240L104644120L104657340L104646640L104657440L104646740L104657540L104646840L104657640L104646940L104657740L104647040L104657840L104647140L104657940L104647140L104658040L104647340L104658140L104647340L104658140L104647540L104658140L104647640L104658340L104647640L104658540L104648040L104658540L104648040L104658640L104648140L104658640L104648340L104658840L104648340L104658840L104648340L104658840L104648540L104660740L104648540L104660840L104648540L104660940L104648640L104660940L104648640                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | $\mathbf{L}$       | 1046439                | 60                            | $\mathbf{L}$  | 1046571      | 40                            |
| L104644120L104657340L104646640L104657440L104646740L104657540L104646840L104657640L104646940L104657740L104647040L104657840L104647040L104657940L104647140L104657940L104647340L104658040L104647340L104658140L104647440L104658240L104647640L104658340L104647640L104658540L104647640L104658540L104648040L104658640L104648140L104658940L104648340L104658940L104648340L104658940L104648340L104658940L104648540L104660740L104648540L104660840L104648540L104660940L104648640L104660940L104648740L104660940L104648740                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | $\mathbf{L}$       | 1046440                | 30                            | $\mathbf{L}$  | 1046572      | 40                            |
| L104646640L104657440L104646740L104657540L104646840L104657640L104647040L104657740L104647040L104657840L104647140L104657940L104647240L104658040L104647340L104658140L104647340L104658140L104647540L104658240L104647640L104658340L104647640L104658540L104647640L104658540L104648040L104658640L104648140L104658640L104648140L104658840L104648240L104658840L104648340L104658840L104648340L104660740L104648540L104660840L104648540L104660840L104648540L104660840L104648640L104660840L104648540L104660840L104668640                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | $\mathbf{L}$       | 1046441                | 20                            | L             | 1046573      | 40                            |
| L $1046467$ $40$ L $1046575$ $40$ L $1046468$ $40$ L $1046576$ $40$ L $1046469$ $40$ L $1046577$ $40$ L $1046470$ $40$ L $1046577$ $40$ L $1046471$ $40$ L $1046579$ $40$ L $1046472$ $40$ 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 $1046583$ $40$ L $1046476$ $40$ L $1046585$ $40$ L $1046477$ $40$ L $1046586$ $40$ L $1046481$ $40$ L $1046588$ $40$ L $1046483$ $40$ L $1046588$ $40$ L $1046483$ $40$ L $1046588$ $40$ L $1046483$ $40$ L $1046607$ $40$ L $1046485$ $40$ L $1046609$ $40$ L $1046685$ $40$ L $1046609$ $40$ L $1046686$ $40$ L $1046609$ $40$                                                                                                                                                                                                                                                                                                                                                                              | Ľ                  | 1046466                | 40                            | $\mathbf{L}$  | 1046574      | 40                            |
| L104646840L104657640L104646940L104657740L104647040L104657840L104647140L104657940L104647240L104658040L104647340L104658140L104647440L104658240L104647540L104658340L104647640L104658440L104647640L104658540L104647740L104658640L104648040L104658640L104648140L104658740L104648140L104658840L104648340L104658940L104648340L104660740L104648540L104660740L104648540L104660840L104648540L104660840L104648540L104660840L104648640L104660940L104648640L104660940L104648640L104660940L104648640L104660940L104648740                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | $\mathbf{L}$       | 1046467                | 40                            | L             | 1046575      | 40                            |
| L104646940L104657740L104647040L104657840L104647140L104657940L104647240L104658040L104647340L104658140L104647440L104658240L104647540L104658340L104647640L104658340L104647640L104658540L104648040L104658640L104648140L104658640L104648140L104658840L104648340L104658840L104648340L104658840L104648340L104660740L104648540L104660840L104648540L104660840L104648540L104660840L104648640L104660840L104648640L104660840L104648640L104660840L104668740L104660840L104668740L104660840L104668740L104660840L104668740                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | $\mathbf{L}$       | 1046468                | 40                            | $\mathbf{L}$  | 1046576      | 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       1046476       40       L       1046583       40         L       1046476       40       L       1046583       40         L       1046476       40       L       1046585       40         L       1046477       40       L       1046585       40         L       1046480       40       L       1046586       40         L       1046481       40       L       1046588       40         L       1046483       40       L       1046589       40         L       1046483       40       L       1046607       40         L       1046485       40       L       1046607       40         L       1046485       40       L       1046608       40                                                                                              | $\mathbf{L}$       | 1046469                | 40                            | L             | 1046577      | 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       1046583       40         L       1046476       40       L       1046585       40         L       1046477       40       L       1046585       40         L       1046480       40       L       1046586       40         L       1046481       40       L       1046588       40         L       1046483       40       L       1046588       40         L       1046483       40       L       1046589       40         L       1046485       40       L       1046607       40         L       1046485       40       L       1046608       40         L       1046486       40       L       1046609       40                                                                                              | $\mathbf{L}$       | 1046470                | 40                            | $\mathbf{L}$  | 1046578      | 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       1046583       40         L       1046476       40       L       1046585       40         L       1046477       40       L       1046585       40         L       1046480       40       L       1046586       40         L       1046481       40       L       1046588       40         L       1046483       40       L       1046588       40         L       1046483       40       L       1046589       40         L       1046483       40       L       1046589       40         L       1046485       40       L       1046607       40         L       1046485       40       L       1046609       40         L       1046486       40       L       1046609       40                                                                                              | $\mathbf{L}$       | 1046471                | 40                            | L             | 1046579      | 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       1046480       40       L       1046586       40         L       1046483       40       L       1046586       40         L       1046483       40       L       1046588       40         L       1046483       40       L       1046589       40         L       1046483       40       L       1046589       40         L       1046485       40       L       1046607       40         L       1046485       40       L       1046608       40         L       1046486       40       L       1046609       40         L       1046486       40       L       1046609       40                                                                                              | $\mathbf{L}$       | 1046472                | 40                            | L             | 1046580      | 40                            |
| L104647440L104658240L104647540L104658340L104647640L104658440L104647740L104658540L104648040L104658640L104648140L104658740L104648340L104658840L104648240L104658840L104648340L104658940L104648540L104660740L104648540L104660840L104648640L104660840L104648640L104660940L104648740L104661040                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | $\mathbf{L}$       | 1046473                | 40                            | $\mathbf{L}$  | 1046581      | 40                            |
| L104647540L104658340L104647640L104658440L104647740L104658540L104648040L104658640L104648140L104658740L104648140L104658840L104648240L104658840L104648340L104658940L104648340L104660740L104648540L104660840L104648640L104660940L104648640L104660940L104648740L104661040                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | $\mathbf{L}$       | 1046474                | 40                            | $\mathbf{L}$  | 1046582      | 40                            |
| L       1046476       40       L       1046584       40         L       1046477       40       L       1046585       40         L       1046480       40       L       1046586       40         L       1046481       40       L       1046586       40         L       1046481       40       L       1046587       40         L       1046482       40       L       1046588       40         L       1046483       40       L       1046589       40         L       1046483       40       L       1046607       40         L       1046485       40       L       1046607       40         L       1046486       40       L       1046608       40         L       1046486       40       L       1046609       40         L       1046486       40       L       1046609       40         L       1046486       40       L       1046609       40                                                                                                                                                                                                                              | L                  | 1046475                | 40                            | L             | 1046583      | 40                            |
| L       1046477       40       L       1046585       40         L       1046480       40       L       1046586       40         L       1046481       40       L       1046586       40         L       1046481       40       L       1046587       40         L       1046482       40       L       1046588       40         L       1046483       40       L       1046589       40         L       1046483       40       L       1046589       40         L       1046485       40       L       1046607       40         L       1046486       40       L       1046608       40         L       1046486       40       L       1046609       40         L       1046487       40       L       1046609       40                                                                                                                                                                                                                                                                                                                                                              | L                  | 1046476                | 40                            | L             | 1046584      | 40                            |
| L       1046480       40       L       1046586       40         L       1046481       40       L       1046587       40         L       1046482       40       L       1046588       40         L       1046483       40       L       1046588       40         L       1046483       40       L       1046589       40         L       1046484       40       L       1046607       40         L       1046485       40       L       1046607       40         L       1046486       40       L       1046609       40         L       1046486       40       L       1046609       40         L       1046487       40       L       1046610       40                                                                                                                                                                                                                                                                                                                                                                                                                              | L                  | 1046477                | 40                            | -<br>L        | 1046585      | 40                            |
| L       1046481       40       L       1046587       40         L       1046482       40       L       1046588       40         L       1046483       40       L       1046589       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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | T.                 | 1046480                | 40                            | τ.            | 1046586      | 40                            |
| L       1046482       40       L       1046588       40         L       1046483       40       L       1046589       40         L       1046484       40       L       1046589       40         L       1046485       40       L       1046607       40         L       1046485       40       L       1046608       40         L       1046486       40       L       1046609       40         L       1046487       40       L       1046610       40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | L                  | 1046481                | 40                            | Ē             | 1046587      | 40                            |
| L       1046483       40       L       1046589       40         L       1046484       40       L       1046607       40         L       1046485       40       L       1046608       40         L       1046486       40       L       1046608       40         L       1046486       40       L       1046609       40         L       1046487       40       L       1046610       40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ī.                 | 1046482                | 40                            | Ē             | 1046588      | 40                            |
| L       1046484       40       L       1046607       40         L       1046485       40       L       1046608       40         L       1046486       40       L       1046609       40         L       1046487       40       L       1046609       40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | 1046483                | 40                            | ī.            | 1046589      | 40                            |
| L       1046485       40       L       1046608       40         L       1046486       40       L       1046609       40         L       1046487       40       L       1046610       40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ť. ~               | 1046484                | 40                            | Ĩ.            | 1046607      | 40                            |
| L 1046486 40 L 1046609 40<br>L 1046487 40 L 1046610 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | T,                 | 1046485                | 40                            | Ĩ.            | 1046608      | 40                            |
| L 1046487 40 L 1046610 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | т.                 | 1046486                | 40                            |               | 1046609      | 40                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ī.                 | 1046487                | 40                            | Ĩ.            | 1046610      | 40                            |



# SUMMARY OF DISTRIBUTION OF CREDITS (Continued)

| <u>Prefix</u> | Mining Claim<br><u>Number</u> | Work<br>Days<br><u>Credit</u> | <u>Prefix</u> | Mining Claim<br>Number | Work<br>Deys<br><u>Credit</u> |
|---------------|-------------------------------|-------------------------------|---------------|------------------------|-------------------------------|
| L             | 1046611                       | 40                            | L             | 1046782                | 40                            |
| $\mathbf{L}$  | 1046612                       | 40                            | $\mathbf{L}$  | 1046783                | 40                            |
| L             | 1046613                       | 40                            | $\mathbf{L}$  | 1046784                | 40                            |
| $\mathbf{L}$  | 1046614                       | 40                            | $\mathbf{L}$  | 1046785                | 4.0                           |
| $\mathbf{L}$  | 1046615                       | 40                            | $\mathbf{L}$  | 1046786                | 40                            |
| $\mathbf{L}$  | 1046616                       | 40                            | L             | 1046787                | 40                            |
| $\mathbf{L}$  | 1046746                       | 40                            | L             | 1046788                | 40                            |
| $\mathbf{L}$  | 1046747                       | 40                            | L             | 1046789                | 40                            |
| $\mathbf{L}$  | 1046748                       | 40                            | L             | 1046790                | 40                            |
| $\mathbf{L}$  | 1046749                       | 40                            | L             | 1046791                | 40                            |
| L             | 1046750                       | 40                            | L             | 1046792                | 40                            |
| L             | 1046751                       | 40                            | Ľ             | 1046793                | 40                            |
| L             | 1046752                       | 40                            | . L           | 1046794                | 40                            |
| $\mathbf{L}$  | 1046753                       | 40                            | L             | 1046823                | 40                            |
| L             | 1046754                       | 40                            | L             | 1046951                | 40                            |
| $\mathbf{L}$  | 1046755                       | 40                            | L             | 1046952                | 40                            |
| L             | 1046756                       | 40                            | Ĺ             | 1046953                | 40                            |
| L             | 1046757                       | 40                            | L             | 1046954                | 40                            |
| L             | 1046758                       | 40                            | L             | 1046955                | 40                            |
| L             | 1046759                       | 40                            | I.            | 1047116                | 40                            |
| L             | 1046760                       | 40                            | Ť.            | 1047117                | 40                            |
| T.            | 1046761                       | 40                            | T.            | 1047118                | 40                            |
| L             | 1046762                       | 40                            | T.            | 1047119                | 40                            |
| L             | 1046763                       | 40                            | Ť.            | 1047120                | 40                            |
| L             | 1046764                       | 40                            | T.            | 1047121                | 40                            |
| т.            | 1046765                       | 40                            | T.            | 1047122                | 40                            |
| ī.            | 1046766                       | 40                            | T.            | 1047123                | 40                            |
| L             | 1046767                       | 40                            | T.            | 1047124                | 40                            |
| L.            | 1046768                       | 40                            | T.            | 1047125                | 40                            |
| T.            | 1046769                       | 40                            | T.            | 1047131                | 40                            |
| T.            | 1046770                       | 40                            | T.            | 1047132                | 40                            |
| T.            | 1046771                       | 40                            | т.            | 1047133                | 40                            |
| T.            | 1046772                       | 40                            | T.            | 1047134                | 40                            |
| T.            | 1046773                       | 40                            | т.            | 1047135                | 40                            |
| L.            | 1046774                       | 40                            | T T           | 1047153                | 40                            |
| T.            | 1046775                       | 40                            | L             | 1047152                | 40                            |
| L             | 1046776                       | 40                            | T T           | 1047152                | 40                            |
| L<br>L        | 1046777                       | 40                            | LI<br>T.      | 1047154                | 40                            |
| T.            | 1046779                       | 40                            | L L           | 1047155                | 40                            |
| LI<br>T.      | 1046779                       | 40                            | L<br>T.       | 1047155<br>1077155     | 40                            |
| T.            | 1046790                       | - 40                          | Li<br>T.      | 1047157                | 40                            |
| T.            | 1046781                       | 40                            | ц<br>Т.       | 1047150                | 40                            |



# SUNMARY OF DISTRIBUTION OF CREDITS (Continued)

| <u>Prefix</u> | Mining Claim<br>Number | Work<br>Days<br><u>Credit</u> | <u>Prefix</u> | Mining Claim<br>Number | Work<br>Days<br><u>Credit</u> |
|---------------|------------------------|-------------------------------|---------------|------------------------|-------------------------------|
| L             | 1047159                | 40                            | L             | 1047165                | 40                            |
| $\mathbf{L}$  | 1047160                | 40                            | $\mathbf{L}$  | 1047166                | 40                            |
| $\mathbf{L}$  | 1047161                | 40                            | $\mathbf{L}$  | 1047167                | 40                            |
| $\mathbf{L}$  | 1047162                | 40                            | $\mathbf{L}$  | 1047168                | 40                            |
| $\mathbf{L}$  | 1047163                | 40                            | L             | 1047169                | 40                            |
| T.            | 1047164                | 40                            |               |                        |                               |

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#### SCHEDULE II

| <u>Hole No.</u>      | <u>477299</u> | <u>477419</u>   | <u>491183</u>   | 491651          | <u>491663</u>                | <u>500057</u>   | 500058 | Total<br><u>Days (Feet)</u> |
|----------------------|---------------|-----------------|-----------------|-----------------|------------------------------|-----------------|--------|-----------------------------|
| AK90 - 1             | -             | -               | -               | -               | 364 <b>.</b> 50 <sup>v</sup> | -               |        | 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 🗸                     | <del>~~</del>   | -      | 235.56                      |
| - 7                  | -             | -               | -               | -               | 330.56 🗸                     | -               | -      | 330.56 🖡                    |
| - 10                 | -             | -               | -               | 569.88 🗸        | -                            | -               | -      | 569.88                      |
| - 11                 | -             | -               | -               | 385.17 -        | -                            | -               | -      | 385.17                      |
| - 12                 | 70.54         | -               | -               | 256.07 🗸        | <b>—</b>                     | -               |        | 326.61                      |
| - 13                 | <b>_</b> .    | _               | -               | 272.87          | -                            | -               | 22.97- | 295.84                      |
| - 14                 | -             | -               | -               | 303.31-         | -                            | -               | 22.97  | 326.28                      |
| - 16                 | -             | 392.45 /        | -               | <b>—</b> .      |                              | -               | -      | 392.45                      |
| - 21                 | -             | 386.15 -        | -               | -               | -                            | <b>—</b>        | -      | 386.15                      |
| - 22                 | -             | 53.48 v         | -               |                 | -                            | 456.04~         | -      | 509.52                      |
| - 26                 | -             | 527.17 v        | -               | -               | -                            | <b>–</b>        | -      | 527.17                      |
| - 27                 | -             | _               | -               | 426.84 🗸        | -                            | -               | -      | 426.84                      |
| - 28                 |               | _               | 401.57          | _               | _                            | <b></b>         |        | 401.57                      |
| Total No. of<br>Days | 70.54         | <b>1,359.25</b> | <u>401.57</u> č | <u>2,214.14</u> | 2,572.52                     | <u>456.04</u> V | 45.94  | <u>7,120.00</u> (           |

#### Number of Day's Work Performed On Each Claim

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

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|                                         | f                | <b>ار باللہ جاتا</b><br>1 مار 1 | ntrý<br>1  |                            |                                        |                       |           |                |                                       |              | -         |                              |            |              | A M               |               | / E.          |            | .5.                 |               |              |                |             |            |
|-----------------------------------------|------------------|---------------------------------|------------|----------------------------|----------------------------------------|-----------------------|-----------|----------------|---------------------------------------|--------------|-----------|------------------------------|------------|--------------|-------------------|---------------|---------------|------------|---------------------|---------------|--------------|----------------|-------------|------------|
| Loto                                    |                  | 1                               |            |                            |                                        | -                     | ;         | ∠ <del></del>  |                                       | <u> </u>     | ۔<br>بند  | ,                            | ÷          | •            |                   |               | <u> </u>      |            |                     |               |              | <u>}</u>       |             |            |
| 100                                     | 2 \ 1            | そじ                              |            | م الم م                    |                                        | R                     |           |                |                                       | 2            | r i       | - 1,-                        | · ·~       | ) 🕲 MR       | o 🤅 🕑 🗤           | 10   O        | NRO 2         | L          | 157185 V            | L             | ل<br>م7:غ: ۱ |                | 57205       |            |
| 44024<br>(5)                            | 91704<br>Ø 1/2 0 | μÝ                              |            | 5 5                        |                                        |                       | D46Ber    | 1040673 .<br>4 |                                       | <u>λ</u>     |           | 10445615                     | * 10-40014 | L            | . L.<br>70414     | L TOA         | 09 8          | •          | / © \               | ୍ <b>ଚ</b> ି. | Ð            | 0              | Ø           | ĺ          |
|                                         | 2 1.0. A 4       |                                 |            |                            | ST.                                    |                       | 17-1      |                |                                       | $\nabla$     | <u></u>   | <u>ہے</u> ۔                  | · · · ·    | O MRO        | () NR             | 00            | म् ट्र        | تمكن فسير  | L .                 | L             |              | L              | L           |            |
| -1000                                   |                  |                                 |            |                            | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | $\overline{\nabla}$ : | 1.2       | 1048570        |                                       |              | 1044487   | 1041645                      | 104082     | L 7041       | 5 L 7041          | 5 1 704       | 108 9 5       | 7193<br>K  | 57190               | 57183         | 571#2<br>©   | \$720 <b>7</b> | \$7205<br>Ø | ĺ          |
|                                         |                  | -+                              | -~-        | ال <mark>ہ</mark> اللہ کار | TA                                     | ÷-4                   | · - K-    | ÷-∠.           | fa Zank                               | L            | 3         | +v =                         |            | 🕑            | > ( 🕑 🗰 🔿         |               | 10            | <u>e</u>   | 0                   | Ĩ,            | L            | L              | L           |            |
| Manare .                                | ances the        |                                 | Bildire    | المجعوا                    | бЛ •                                   | -                     |           | ×****          |                                       | 1040400      | 1014145   | Varian .                     | 104080     | 70421        | 70418             | L 70413       | For a         | 7107:      | 57191               | 57187         | 57186        | 57212          | 57200       | -          |
| •                                       | 101              | •                               | -          | 14 14                      |                                        |                       | /4        | Ľ_             | , '∠ -↓                               | /_           | 1-7       | $\mathbf{z} \geq \mathbf{z}$ | -27        | 1 400        |                   | L             | 6             | $\odot$    | <u> </u>            | 1º            | - L          |                |             |            |
| i dan mana                              | -                | L -                             | L<br>Adaal | 104657                     | */ 10                                  | -                     | 104057    | 10-00000       | -                                     | 1048484      | 1048483   | Tioner                       | 1040000    | U            | L                 |               | Ð             | L /        | L                   | 57181         | 57188        | 57213          | 87210       |            |
|                                         | シュ               |                                 |            | 1                          | √<br>╾_≛                               | _ 4                   |           | <b>i</b> 🔨     | 1.1/-                                 |              |           | LĽ_                          |            | 70420        | 70419             | 7042          | TO-11         | O I        | $\bigcirc \bigcirc$ | 10            | +0           | 0              | 0           | F 54.      |
|                                         |                  | <u>}</u>                        | 6          |                            |                                        | X                     | L 1040571 |                | -                                     | 10-10-10     | 1         | L                            | 1.         | ٤.           | L                 | L /           | L             | L          | L.                  | 1 -           | 57210        | 57214          | 1.          |            |
|                                         | anner Al an      |                                 |            | ₩.                         | 1                                      |                       | 1 1/      | Y              | አ ✓ ፣                                 | $\checkmark$ | 1         | L'Y                          | Triare     | 71475 C      |                   | 0             | 57200 51<br>O | ©          | Ô                   | 0             | 0            | 0-1            | Ð           |            |
|                                         | 1-2412           | \$\<br>\$                       | 2          | L L                        | - 7-                                   | - ~                   | L         |                |                                       | 5            |           | -                            |            | L            | 1.5               | · •           | L.            |            |                     | LO            | T            | Ľ              | L           |            |
| Name                                    | L SKZ            |                                 |            | 4.                         |                                        |                       |           |                | · · · · · · · · · · · · · · · · · · · |              |           |                              | 11077      | 71474        | 87312             | 57315         | 57316         | 57206      | 57285               | 0472          | 1111647      | 141246         | 11115-415   | Į          |
| N2                                      | ゴナイ              |                                 | A          | <u>₹</u>                   | V L                                    |                       |           | 1 de la        |                                       |              | 0         | 0                            |            | <u>(</u>     |                   |               | <u> </u>      | <u> </u>   | +                   | and a         |              | 1              |             | <b>.</b> . |
|                                         |                  |                                 | 10000      | the Vi                     |                                        | - ۲                   |           | 72000          | Tousie                                | 213486       | 121349    | 3 9003                       | Printe     | 1 L          | 57308             | 57309         | 57310         | 57311      | 57284               |               | 11110-4      | 111543         | 9           | l          |
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