ARIS SUMMARY SHEET

District Geologist, Nelson — Off Confidential: 94.12.06

ASSESSMENT REPORT 23239 — MINING DIVISION: Greenwood

PROPERTY: Bear-Cub
LOCATION: LAT 49 10 00 LONG 118 33 00
UTM 11 5446921 387006
NTS 082E02E

CAMP: 008 Greenwood Camp

CLAIM(S): Bear,Cub 1-4
OPERATOR(S): Teck Corp.
AUTHOR(S): Thomson, G.R.
REPORT YEAR: 1994, 38 Pages
COMMODITIES
SEARCHED FOR: Copper,Silver,Gold
KEYWORDS: Tertiary,Knob Hill Group,Greenstones,Pillow lavas,Syenites,Pyrite
Pyrrhotite
WORK
DONE: Geological,Drilling,Geochemical
DIAD 607.2 m 6 hole(s);NQ
GEOL 400.0 ha
Map(s) - 1; Scale(s) - 1:5000
SAMP 19 sample(s) ;ME
RELATED
REPORTS: 21509,22348

DIAMOND DRILLING ASSESSMENT REPORT

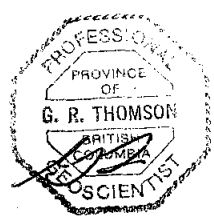
ON THE

BEAR, CUB PROPERTY

Greenwood Mining Division, British Columbia

NTS 82 E / 2E

Latitude 49° 10' Longitude 118° 33'



Owner: ***Teck Corporation***

G.R. Thomson, P.Geo.

January 15, 1994

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INTRODUCTION

Teck Corporation optioned the Bear - Cub property, a potential copper - gold skarn prospect in the northern periphery of the Greenwood mining camp, which hosts the historically important Phoenix mine.

The claim area was geologically mapped with examination of all known mineralized showings and sampling of three showings.

A diamond drill program was carried out under the premise of locating favourable host stratigraphy, in particular, limy beds as part of the Triassic Age Brooklyn Formation, which is known to occur adjacent and south of the property.

LOCATION, ACCESS

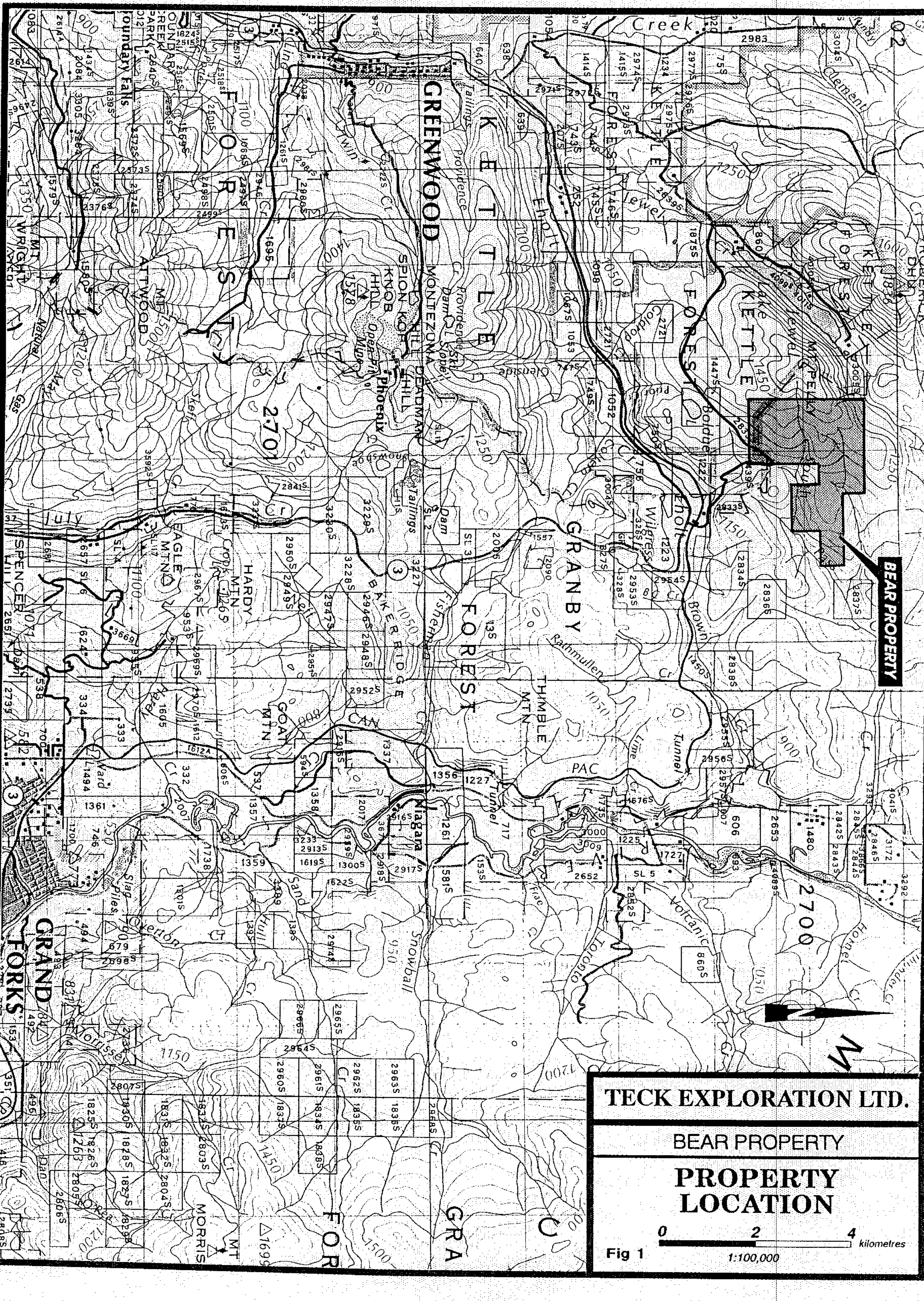
The property is accessed from Highway #3, which connects the towns of Greenwood and Grand Forks. A secondary logging road leaves Highway #3 at the small settlement of Eholt and runs approximately 3 km. north to reach the South Pass Creek area of the property. The main access throughout the property is provided by roads that follow the north bank of South Pass Creek.

CLAIMS

The Bear - Cub property consists of the following claims as staked under the Modified grid system as well as 2 - post claim system.

All claims are currently owned by Teck Corporation. Assessment work as described in this report will be used to apply maximum credit for the claims listed above.

Please note that the Bear claim has been reduced in size as a result of a ruling that gave the pre-existing Eholt (215004) claim precedence over the Bear claim.


BEAR PROPERTY
TECK EXPLORATION LTD.
BEAR PROPERTY
PROPERTY LOCATION
0 2 4 kilometres
1:100,000
Fig 1

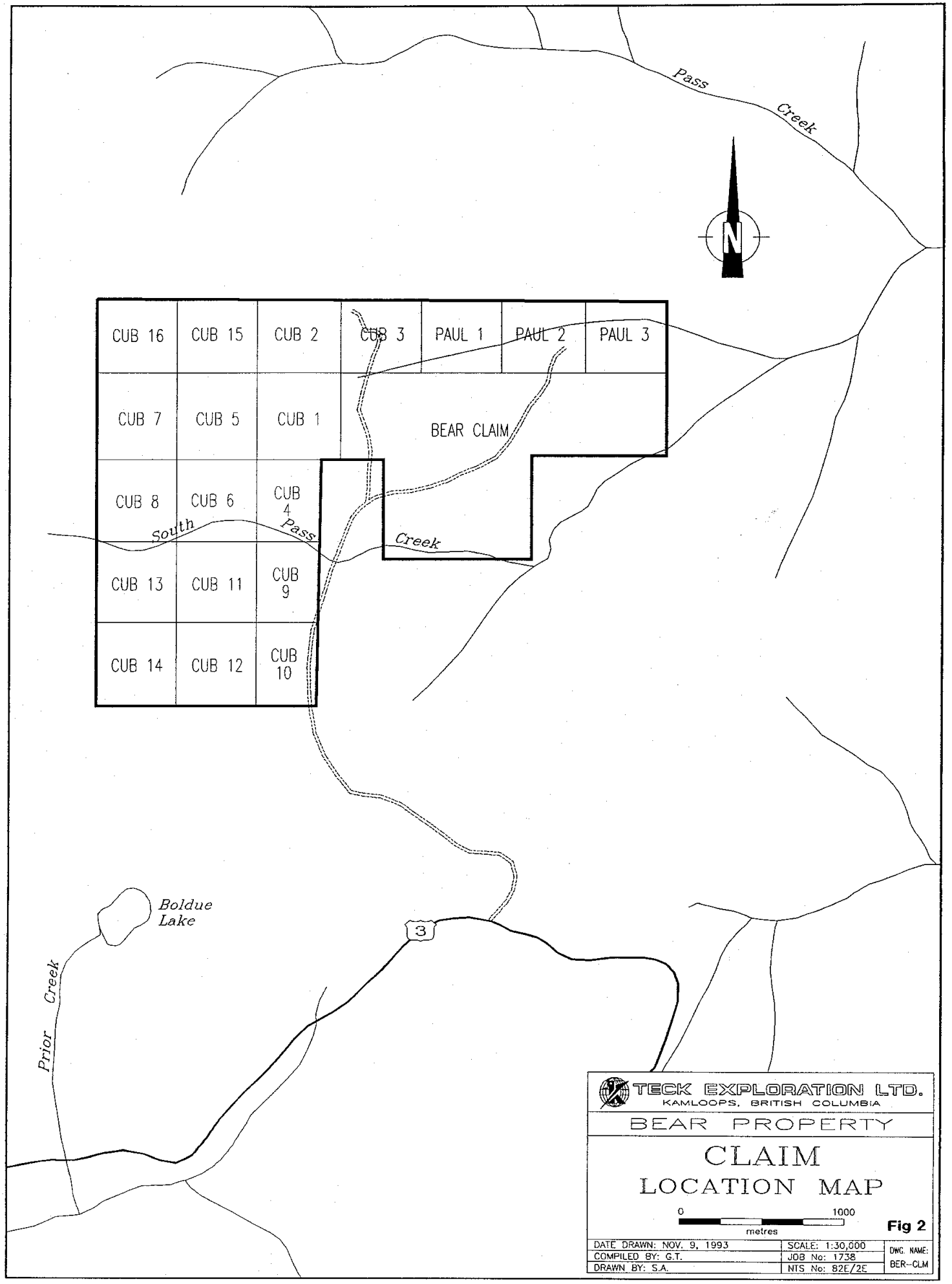
Name	Record No.	No. of Units	Record Date	Expiry Date
Bear	215844	16		July 8/94
Cub 1	318096	1		June 11/94
Cub 2	318097	1		June 11/94
Cub 3	318098	1		June 11/94
Cub 4	317691	1		May 20/94
Cub 5	317692	1		May 20/94
Cub 6	317693	1		May 20/94
Cub 7	317694	1		May 20/94
Cub 8	317695	1		May 20/94
Cub 9	318105	1		June 8/94
Cub 10	318106	1		"
Cub 11	318107	1		"
Cub 12	318108	1		"
Cub 13	318109	1		"
Cub 14	318110	1		"
Cub 15	318099	1		June 11/94
Cub 16	318101	1		June 11/94
Paul 1	320531	1		Aug.23/94
Paul 2	320532	1		"
Paul 3	320533	1		"
		35 units		

HISTORY

Lode mineralization was first recorded in the Greenwood area near Boundary Falls in 1884 and by 1900 most of the important deposits had been found. Development was stimulated by the completion of a railway and construction of a major smelter at Grand Forks in 1900. Production from the mines at Phoenix reached a peak delivery in 1913 of more than a million tons of ore. Labour disputes indirectly caused closure of the Grand Forks smelter and many of the mines in 1919.

Large scale open-pit production from the Motherlode and Phoenix orebodies was carried out from the late 1950,s until the exhaustion of the Phoenix orebody in 1976.

Published information relative to the immediate claim area is generally lacking. There are a number of old shallow pits, shafts and small trenches with most occurring in hornfelsed to weakly skarned greenstones (metavolcanics). No recent assessment work has been carried out over the immediate claim area.


Pass Creek
N
CUB 16
CUB 15
CUB 2
CUB 3
PAUL 1
PAUL 2
PAUL 3
CUB 7
CUB 5
CUB 1
BEAR CLAIM
CUB 8
CUB 6
CUB 4
South Pass Creek
CUB 13
CUB 11
CUB 9
CUB 14
CUB 12
CUB 10
Boldue Lake
Prior Creek
3
TECK EXPLORATION LTD.
KAMLOOPS, BRITISH COLUMBIA
BEAR PROPERTY
CLAIM
LOCATION MAP
0
1000
metres
Fig 2
DATE DRAWN: NOV. 9, 1993
COMPILED BY: G.T.
DRAWN BY: S.A.
SCALE: 1:30,000
JOB No: 1738
NTS No: 82E/2E
DWG. NAME: BER-CLM

GEOLOGY AND MINERALIZATION

There is generally poor outcrop exposure over the claim area, except as exposed along roadcuts or previous mineral exploration activity (shafts, trenches).

Geologic mapping by Fyles (BCMEMPR: O.F. 1990-25) shows the claims to be underlain by a central area of Knob Hill Group, consisting of greenstone, pillow lava and breccia, amphibolite and minor limestone. The Knob Hill Group is dated at Carboniferous or Permian Age. All non intrusive rocks examined on the claim area fall mainly in the greenstone category. The west side of the claim area is underlain by Jurassic and Cretaceous Nelson Plutonic rocks, primarily quartz diorite and granodiorite. The eastern portion of the claims is underlain by Eocene Age Penticton Group, consisting of dikes, sills and intrusions of syenite, pulaskite, monzonite and diorite. (Coryell Intrusions)

All sulphide mineralization seen on the claim was found to occur in hornfelsed to weakly skarned greenstones. Sulphides consist of disseminations and pods of pyrrhotite, pyrite and chalcopyrite. Concentrations of sulphides appear greatest in narrow shear zones near contacts with Nelson Intrusive rocks.

Geologic mapping, rock sampling and diamond drill sites are represented on Figure #3 at the back of this report.

DIAMOND DRILL PROGRAM

Diamond drilling was carried out over the Bear and Cub claims from August 30 to September 4, 1993. All drilling was of NQ size and totalled 607.2 m in six holes from five separate set-ups. The drilling was carried out by L.D.S. Diamond Drilling Ltd. of Kamloops, B.C. Drill core is stored with one of the original claim owners in Grand Forks, B.C.

Particulars of the drill program are given as follows:

HOLE NO.	DIP	AZIMUTH	LENGTH
93-BC-01	90°	-----	142.3m
93-BC-02	-70°	0°	41.8
93-BC-03	-45°	66°	111.2
93-BC-04	90°	-----	66.1
93-BC-05	90°	-----	140.5
93-BC-06	-60°	320°	105.2

Drill collars were located using a hip chain, in conjunction with known road locations. Elevations were interpreted from existing topographic base maps.

DRILL PROGRAM RESULTS

The drilling program at the Bear property was carried out primarily as an attempt to locate possible large-scale skarn style mineralization at depth. Such a prospective zone does not appear likely to occur on the Bear property.

The majority of drill holes intersected an extensive series of fresh to altered quartz diorites, intrusive feldspar porphyries and pink porphyritic syenite dykes/sills.

Drill holes #1, 5 and 6 contained narrow zones of fresh to skarned (epidote-garnet) andesitic greenstone.

The only drill hole that intersected mineralization of economic significance was hole #6. In hole #6 , a zone of 10-20% semi-massive pyrite + chalcopyrite occurs from 16.5 to 19.3 m as irregular masses and fracture filings within a chloritic, sheared greenstone. Significant assay values for this interval are as follows:

Sample No.	Interval (m)	Au (g/t)	Ag (g/t)	Cu (%)
121810	16.52-17.82(1.3)	2.4	48.0	2.26
121811	17.82-19.28(1.5)	2.0	33.6	2.10

A similar but less strongly mineralized pyrite zone occurs from 32.4 to 34.9 m. This zone appears to be closely associated with the first mineralized zone (16.5-19.3 m) and has a similar geochemical signature. Geochemical values for the second zone are as follows:

Sample No.	Interval	Au (ppb)	Ag (ppm)	Cu(ppm)
121814	32.45-33.93(1.5)	890	3.5	1223
121815	33.93-34.87(0.9)	280	0.5	538

Possibly of greater importance than the actual assay value of these samples is their geochemical signature and their similarity to other skarn deposits in the Greenwood camp. All four samples listed above are anomalous in such elements as Mo, Cu, Zn, Co, As, Sb, Bi, Ag and Au.

Drill holes #3 and #6 were drilled to intersect known surface mineralization in greenstones. Hole #3 did not intersect mineralization as occurs in a small surface pit containing sulphides in hornfelsed greenstones. Hole #6 was drilled to intersect shear related pyrite-chalcopyrite mineralization as exposed in a small pit and adjacent trench.

Drill holes #1, 2, 4 and 5 were drilled primarily to test for the presence of calcareous skarn hosting sediments as could be trending northward from the southerly Eholt showings currently being explored by Placer Dome Inc. under an option agreement with Orvana Minerals Corp.

Drill hole data is summarized on drill sections and drill logs at the end of this report.

SUMMARY AND RECOMMENDATIONS

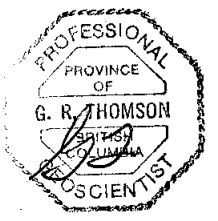
There may yet be potential for skarn hosted mineralization on the Bear property, but this was not substantiated by the Teck 1993 drill program.

A more feasible approach may be to combine exploration efforts with Orvana Minerals Corp. to try and locate common mineral potential on both the Bear and Eholt properties.

As for specific mineral targets, the copper-gold-silver zone as located in drill hole 93-BC-06 should be followed out by short drill holes, both along strike and down dip to determine its extent and mineralization style. There is a reasonable possibility that the mineralized zone as found in hole #6 may connect with the mineral showing that drill hole #3 attempted to intersect. This would give the zone a strike length of at least 750 m.

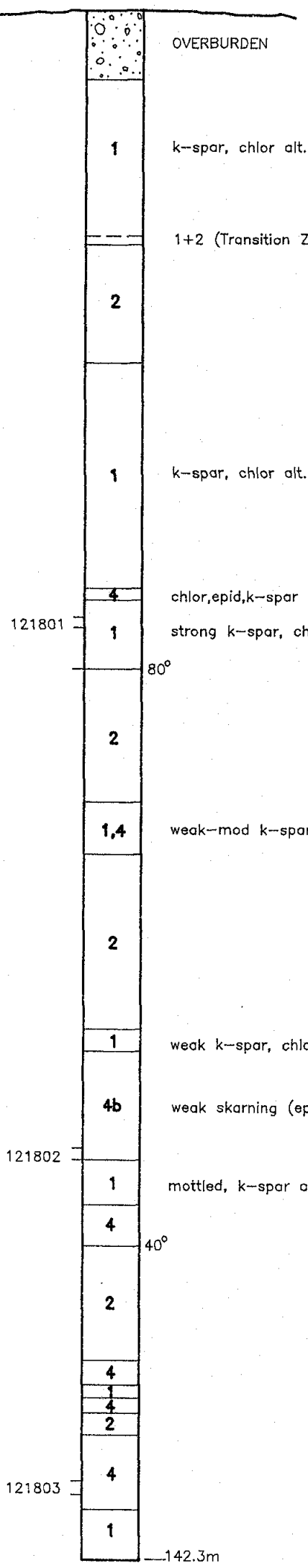
The "Rambler" showing area should receive future consideration. It contains disseminated to massive concentrations of pyrite, pyrrhotite and chalcopyrite as shear hosted mineralization within hornfelsed greenstones. A previous grab sample from the dump gave assays of 1.9 % Cu, 65.3 ppm Ag and 3.68 g/t Au. Note that these are very similar values to the higher assay values returned in drill hole 93-BC-06.

Specific areas of the property may be considered for geochemical or geophysical surveys to better define mineralized structures.



93-BC-01

ELEV:1161.3m



LEGEND

TERTIARY

CORYELL INTRUSIONS

1 FELDSPAR PORPHYRY (DYKES/SILLS)
- -crowded euhedral plag. phenocrysts (2-5mm)
- -chloritic±k-spar altered groundmass

2 SYENITE PORPHYRY PULASKITE (DYKES/SILLS)
- -5-10% euhedral plag. phenocrysts (2-5mm)
- -fresh to variably replaced by chlorite/calcite
- -1-2% biotite phenocrysts (1-2mm), pink potassic groundmass

CRETACEOUS

NELSON INTRUSIVES (may in part include CORYELL INTRUSIONS)

3 QUARTZ DIORITE/GRANODIORITE
- -grey
- -med. grain equigranular to porphyritic
- -20-30% pyroxene±biotite

CARBONIFEROUS or PERMIAN

KNOB HILL GROUP

4 GREENSTONE

4a dark green, aphanitic
- -occasionally weakly porphyritic with fine grain grain plag./chlor. phenocrysts (1-2mm)

4b as in 4a with variable weak to mod. skarning
- -brown garnet±epidote patches, bands
- -locally silicified with minor assoc. Py and rare magnetite

4c greenstone with >5% sulphides (Py,Po,Cpy)

Fig 4

TECK EXPLORATION LTD.
KAMLOOPS, BRITISH COLUMBIA

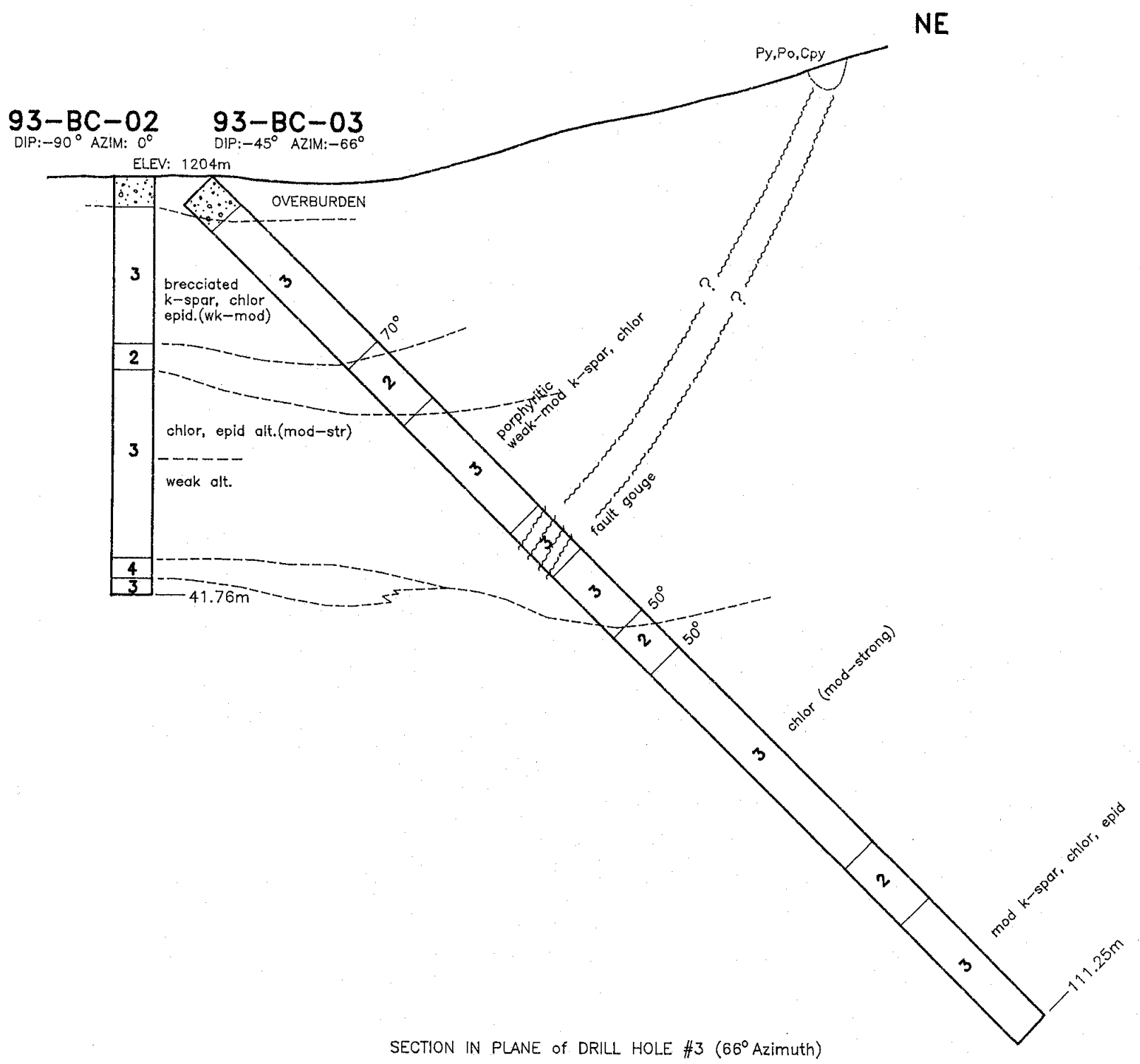
BEAR PROPERTY

DRILL HOLE SECTION
93-BC-01

DIP: -90 LENGTH: 142.3

0 5 10 15 20 25 metres

DATE DRAWN: NOV. 16, 1993	SCALE: 1:500	DWG. NAME: BER-DDH1
COMPILED BY: G.T.	JOB No: 1738	
DRAWN BY: S.A.	NTS No: 82E/2E	



SECTION IN PLANE of DRILL HOLE #3 (66° Azimuth)

LEGEND

TERTIARY
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–locally silicified with minor assoc. Py and rare magnetite

4c greenstone with >5% sulphides (Py,Po,Cpy)

Fig 5

TECK EXPLORATION LTD.
KAMLOOPS, BRITISH COLUMBIA

BEAR PROPERTY

DRILL HOLE SECTION
93–BC–02
93–BC–03

0 5 10 15 20 25 metres

DATE DRAWN: NOV. 16, 1993	SCALE: 1:500	DWG. NAME: BER–DH23
COMPILED BY: G.T.	JOB No: 1738	
DRAWN BY: S.A.	NTS No: 82E/2E	

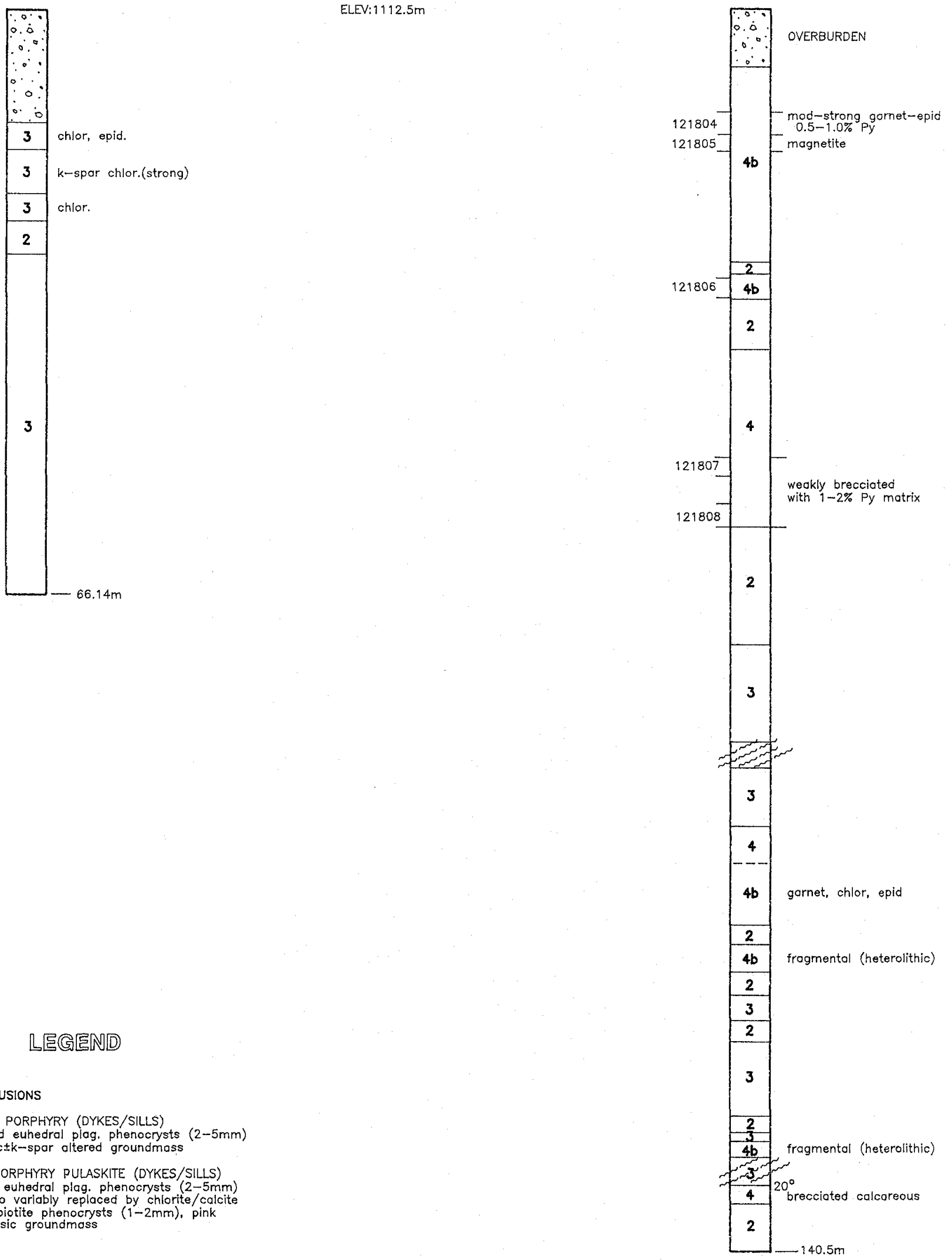
W E

93-BC-04
DIP:-90°

215m

ELEV:1112.5m

93-BC-05
DIP:-90°



LEGEND

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4c greenstone with >5% sulphides (Py,Po,Cpy)

Fig 6

TECK EXPLORATION LTD.
KAMLOOPS, BRITISH COLUMBIA

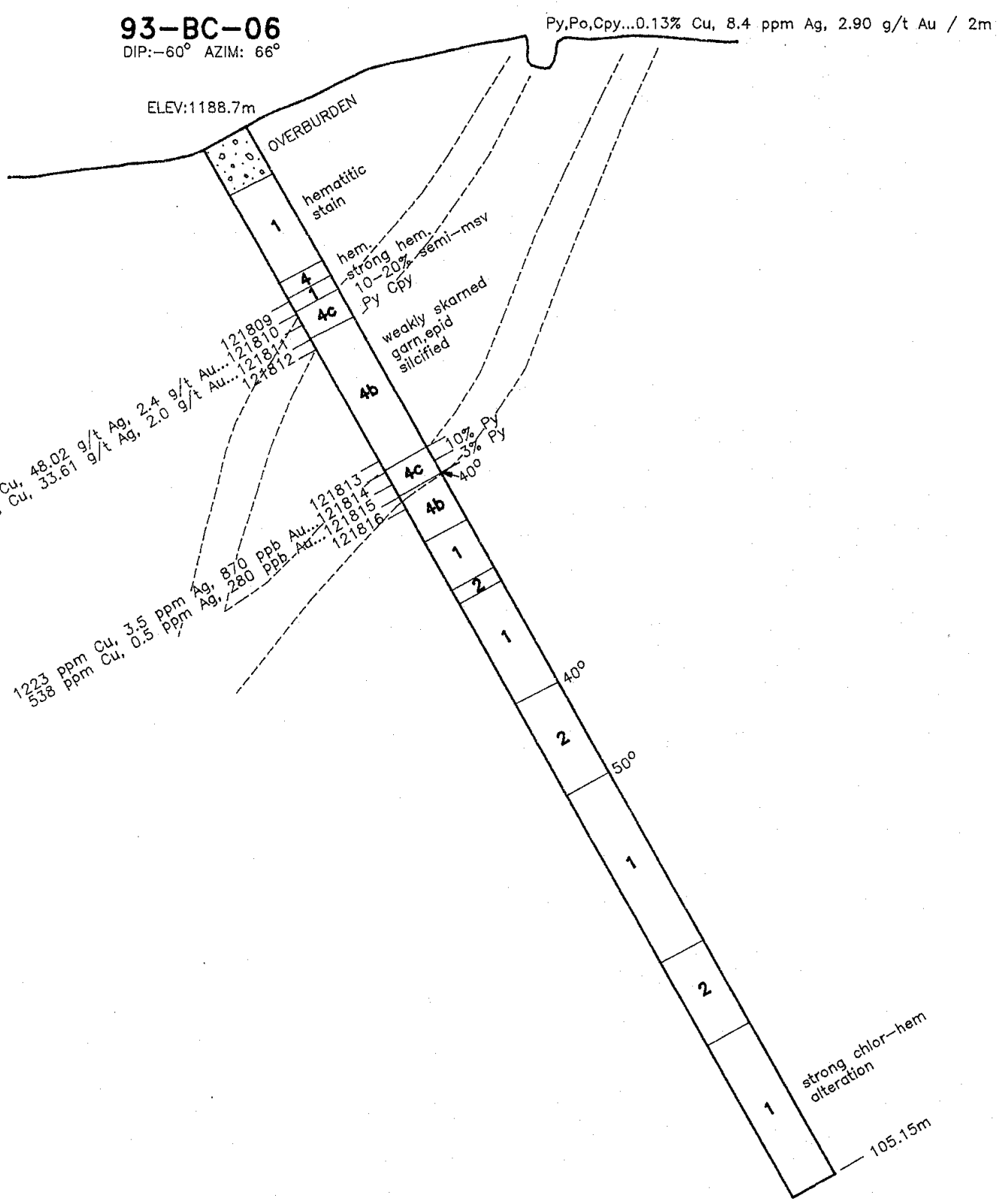
BEAR PROPERTY

DRILL HOLE SECTION
93-BC-04
93-BC-05

0 5 10 15 20 25 metres

DATE DRAWN: NOV. 16, 1993	SCALE: 1:500	DWG. NAME: BER-DH45
COMPILED BY: G.T.	JOB No: 1738	
DRAWN BY: S.A.	NTS No: 82E/2E	

SW NE



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4c greenstone with >5% sulphides (Py,Po,Cpy)

Fig 7

TECK EXPLORATION LTD.
KAMLOOPS, BRITISH COLUMBIA

BEAR PROPERTY

DRILL HOLE SECTION
93–BC–06

0 5 10 15 20 25 metres

DATE DRAWN: NOV. 16, 1993	SCALE: 1:500	DWG. NAME:
COMPILED BY: G.T.	JOB No: 1738	BER–DH6
DRAWN BY: S.A.	NTS No: 82E/2E	

APPENDIX 1

COST STATEMENT

A. SALARIES:		
G. Thomson (Geologist)	10 days @ $271.87/day	$2718.70
P. Donkersloot (Geologist)	13 days @ $251.18/day	3265.40
		5984.10
B. LIVING COSTS: (Motel, Meals)		1122.70
C. TRANSPORTATION: (Truck Rental, gas)		1898.65
D. DRILLING: (L.D.S. Diamond Drilling Ltd.) 1992' NQ core @ $10.00/foot		23055.20
E. ASSAYING: - 16 core and 3 rock samples for Au geochem. and 30 element ICP analysis; 2 Au assay, 2 Ag assay, 2 Cu assay		295.85
F. REPORT PREPARATION: 7 days @ $271.87/day		1903.09
G. DRAFTING: 3 days @ $217.50/day		652.50
H. TELEPHONE:		143.16
	Total:	$35055.25

APPENDIX 2

REFERENCES

Church, B.N. (1986) : Geology and Mineralization in the Mount Atwood - Phoenix Area, Greenwood B.C.; B.C. Ministry of Energy, Mines and Petroleum Resources, Paper 1986-2

Fyles, J.T. (1990) : Geology of the Greenwood - Grand Forks Area, British Columbia, NTS 82E/1,2 ; B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1990-25

Kemp, J., Hairsine D. (1992): Statement of Work (Magnetometer Survey) for Bear Mineral Claim Group

LeRoy, O.E. (1912): The Geology and Ore Deposits of Phoenix, Boundary District, Boundary District, British Columbia; Geological Survey of Canada, Memoir 21

Little, H.W. (1983) : Geology of the Greenwood Map area, British Columbia; Geological Survey of Canada, Paper 79-29

Monger, J.W.H. (1968) : Early Tertiary Stratified Rocks, Greenwood Map Area, (82E/2) British Columbia Geological Survey of Canada, Paper 67-42

APPENDIX 3

CERTIFICATE OF QUALIFICATIONS

Gregory R. Thomson, P. Geo.

I hereby certify that:

1. I graduated from the University of British Columbia in 1970 with a B.Sc. degree in geology.

2. I am a member in good standing of the Association of Professional Engineers and Geoscientists of the Province of British Columbia.

3. I have worked since graduation as an exploration geologist, mostly in the province of British Columbia.

4. The work described herein was carried out under my direct supervision.

G. R. Thomson, P.Geo.

ECO-TECH LABORATORIES LTD.
10041 EAST TRANS CANADA HWY.
KAMLOOPS, B.C. V2C 2J3
PHONE - 604-573-5700
FAX - 604-573-4557

LY 30, 1993

LUES IN PPM UNLESS OTHERWISE REPORTED

TECK EXPLORATION ETK 93-206
350, 272 Victoria Street
KAMLOOPS, B.C.
V2C 2A2

ATTENTION: GREG THOMPSON

3 ROCK SAMPLES RECEIVED JULY 20, 1993
PROJECT #: 41

#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
-	120955	175	1.2	1.50	105	6	35	5	3.03	1	66	47	1302	9.48	.01	10	.73	871	2	.01	27	450	16	10	20	58	.02	10	53	10	1	61
-	120956	35	.2	1.23	70	4	30	5	9.49	1	19	46	131	7.37	.01	10	.48	1197	3	.01	24	380	6	5	20	85	.06	10	91	10	9	29
-	120957	190	2.6	1.47	150	6	40	5	5.38	1	374	24	1081	8.40	.01	10	.58	1512	1	.01	209	510	12	5	20	57	.03	20	90	10	5	92

TE: < = LESS THAN
> = GREATER THAN

ECO-TECH LABORATORIES LTD.
FRANK J. PEZZOTTI, A.Sc.T.
B.C. Certified Assayer

93/TECK

ROSSBACHER LABORATORY LTD.

CERTIFICATE OF ANALYSIS

2225 Springer Ave., Burnaby,
British Columbia, Can. V5B 3N1
Ph:(604)299-6910 Fax:299-6252

To : TECK EXPLORATIONS LTD.
350 272 VICTORIA STREET
KAMLOOPS, B.C.

Project: 1738
Type of Analysis: ICP

Certificate: 93168
Invoice: 40218
Date Entered: 93-09-11
File Name: TEK93168.I
Page No.: 1

PRE FIX	SAMPLE NAME	PPM MO	PPM CU	PPM PB	PPM ZN	PPM AG	PPM NI	PPM CO	PPM MN	% FE	PPM AS	PPM U	PPM AU	PPM HG	PPM SR	PPM CD	PPM SB	PPM BI	PPM V	% CA	% P	PPM LA	PPM CR	% MG	PPM BA	% TI	% AL	% NA	% K	% SI	PPM W	PPM BE	PPB AU AA
A	121801	10	43	133	82	0.7	5	1	778	3.23	28	5	ND	ND	195	1	3	4	41	1.56	0.09	15	53	0.73	158	0.03	1.20	0.14	0.17	0.07	10	1	5
A	121802	18	25	45	106	0.3	6	13	1057	4.81	28	5	ND	ND	121	1	8	2	111	2.30	0.12	8	43	1.08	132	0.12	1.94	0.16	0.40	0.05	13	1	5
A	121803	6	253	28	83	0.2	55	10	594	3.16	39	5	ND	ND	302	1	1	3	128	3.52	0.16	8	74	1.33	98	0.12	1.60	0.27	0.14	0.13	9	1	60
A	121804	3	750	21	134	0.7	29	24	1834	6.22	133	5	ND	ND	125	1	1	2	84	7.13	0.26	10	66	1.17	79	0.08	3.74	0.14	0.15	0.18	1	1	10
A	121805	2	266	20	107	0.6	23	27	1380	5.69	106	5	ND	ND	136	1	4	2	91	6.04	0.21	9	62	1.20	78	0.10	3.27	0.14	0.14	0.14	2	1	5
A	121806	5	193	13	93	0.6	17	7	1169	4.30	72	5	ND	ND	195	1	1	2	111	4.96	0.08	10	59	1.17	91	0.10	2.93	0.23	0.19	0.07	1	1	5
A	121807	2	234	29	194	1.2	18	16	658	3.99	70	5	ND	ND	200	1	6	2	114	2.56	0.10	4	37	1.68	219	0.23	2.86	0.51	0.39	0.15	12	1	5
A	121808	3	318	27	145	1.2	18	27	881	5.15	58	5	ND	ND	255	1	8	2	158	2.37	0.11	3	47	2.15	252	0.22	3.25	0.50	0.38	0.13	14	1	5
A	121809	4	184	15	64	0.9	7	7	400	3.61	22	5	ND	ND	106	1	5	3	44	0.98	0.09	25	42	0.63	175	0.03	1.52	0.07	0.38	0.04	13	1	50
A	121810	27	10971	42	245	48.0	34	111	1297	9.72	286	5	ND	ND	99	1	40	49	91	2.39	0.06	6	79	0.78	92	0.04	1.83	0.08	0.21	0.09	25	1	2100
A	121811	17	10490	53	176	31.9	36	107	2055	10.98	299	5	ND	ND	63	1	42	52	58	2.47	0.02	5	81	0.50	53	0.01	0.93	0.03	0.10	0.11	31	1	1650
A	121812	3	1078	14	90	3.5	24	8	1030	4.62	87	5	ND	ND	243	1	4	4	108	3.91	0.15	6	67	1.08	112	0.11	2.72	0.56	0.10	0.23	12	1	110
A	121813	6	626	31	95	0.9	26	28	1111	6.18	85	5	ND	ND	204	1	18	3	149	2.23	0.15	6	76	1.66	133	0.23	3.47	0.46	0.13	0.16	20	1	150
A	121814	25	1223	80	134	3.5	47	206	1464	11.61	220	5	ND	ND	124	1	54	75	122	1.12	0.09	3	81	1.16	144	0.13	3.11	0.24	0.52	0.07	39	1	890
A	121815	8	538	37	155	0.5	23	46	1112	7.06	98	5	ND	ND	193	1	15	32	183	2.46	0.13	5	61	1.68	180	0.28	5.30	0.73	0.90	0.10	17	1	280
A	121816	5	432	17	88	0.9	19	20	702	4.21	47	5	ND	ND	134	1	9	6	133	1.41	0.12	5	52	1.23	75	0.29	1.99	0.29	0.19	0.11	15	1	70

CERTIFIED BY :

ROSSBACHER LABORATORY LTD.

CERTIFICATE OF ANALYSIS

2225 Springer Ave., Burnaby,
British Columbia, Can. V5B 3N1
Ph:(604)299-6910 Fax:299-6252

To : TECK EXPLORATIONS LTD.
350 272 VICTORIA STREET
KAMLOOPS, B.C.

Project: 1738
Type of Analysis: Assay

Certificate: 93168
Invoice: 40244
Date Entered: 93-10-01
File Name: TEK93168.A
Page No.: 1

RE FIX	SAMPLE NAME	g/t Au	g/t Ag	% Cu
P	121810	2.401	48.02	2.26
P	121811	2.024	33.61	2.10

CERTIFIED BY : J. Rossbacher

APPENDIX 4

GEOCHEMICAL ANALYSES

APPENDIX 5

DRILL LOGS

TECK EXPLORATION LTD.

BEAR PROPERTY | **PROJECT #1738** | **HOLE NO. 93-BC-01** | **PAGE: 1 of 3**

NTS:	**82E/2E**	**DATE COLLARED: 30/08/93**	**DEPTH**	**DIP**	**AZ**	**LENGTH:**	**142.34m**
CLAIM:	**CUB 3**	**DATE COMPLETED:31/08/93**		**-90°**		**DEPTH OF OVB:**	**6.1m**
ELEVATION:	**1161m**	**DATE LOGGED:**				**CASING REMAINING:**	
GRID COORD:		**CORE SIZE: NQ**				**WATERLINE LENGTH:**	
LOGGED BY:	**G.T.**					**PROBLEMS:**	

DEPTH (meters) FROM/TO	DESCRIPTION	STRUCTURE ANGLES	STRUCTURE VEINS	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE NO.	FROM	TO	LENGTH (meters)	RESULTS Cu (ppm)	Au (ppb)	Ag (g/t)	Fe (%)	Other
0 -6.1	Overburden													
6.1 -20.77	Feldspar porphyry: grey green to pinkish,competent, eqigranular, crowded plag. phenos.,1-3mm (60-70%vol) chlor-Kspar groundmass; localized preferential replacement of plag. phenos.; phenos. sub to euhedral, chlor. fract. srfcs, minor red hem. , <1% calc. fract. fills, weakly magnetic.			wk-mod. chlor, potassic										
20.77-21.37	Transitional contact: green to pinkish brown groundmass w. approx. 5% subhedral plag. phenos., 1-7 mm.													
21.37-32.53	Syenite plag. porph: 5-10% scattered subhedral-euhedral plag. phenos, 2-10 mm, white-cream, pink potassic groundmass w. 1-2% biotite laths ~2mm, pervasive chlor. as weak fract. coatings/fills, wk-mod. fractd, sharp lower contact.													
32.53-53.39	Feldspar porphyry:(similar to above@ 6.1-20.77m) greenish grey, equigranular, 50-60% white, crowded,subhedral-euhedral plag. phenos.,1-3mm, green to pinkish groundmass, localized potassic alt. in narrow zones surrounding hairline -5mm fract. fills of calcite, chlor, hem; gradational chill zone @ 51.0-53.4 with gradual decrease in plag. phenos.	L.Cont 60°		Local potassic,chlorcarb+\-hem										
53.39-54.45	Andesitic greenstone: med green, aphanitic, mottled, weakly brecc'd, numerous hairline - 2mm calcite vnlts, variable patches of diffuse chlor-epid-potassic alt. ; sharp lower contact.	70°		wk chlor-epid-potassic										

DEPTH (meters) FROM/TO	DESCRIPTION	STRUCTURE ANGLES	STRUCTURE VEINS	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE NO.	FROM	TO	LENGTH (meters)	RESULTS Cu (ppm)	Au (ppb)	Ag (g/t)	Fe (%)	Other
54.45-60.89	Feldspar porphyry: mottled, strongly alt. w. mixed potass-chlor-epid-hem patches,spots, subhedral-euhedral plag phenos,2-10 mm, 50-60%, dk green chlor groundmass, strgly microfract, f.g. diss. py assoc. w. narrow chlor/epid vnlts, 3-5% calc vnlts to 3 mm, strgly fract; aphanitic greenstone bands @ 59.82-59.26, 59.59-59.96 m, sharp lower contact.	80°		potassic,chlor,epid,hem pervasive mod-intense	0.5 % py	121801	56.0	57.0	1.0	43	5			
60.89-72.8	Syenite plag. porph: similar to 21.37-32.53, plag phenos exhibit rims to total replacement by bluish-green chlorite.													
72.8-77.7	Zone of mixed greenstone , feldspar porphyry: fine grain, dk greenish grey g.s. with with intermixed mottled, alt. plag. porph; porph zones exhibit wk-mod potassic-chlor-epid-hem, wkly magnetic.			sporadic potass,chlor, epid, hem	tro diss py									
77.7-93.82	Syenite plag. porph: as above @ 60.89-72.8 m; wht,cream,pale green plag. phenos (subh-euhedral), 2-10mm, wk. potass/chlor pheno. replacement, potass. grndmass w. ~2-5% chlor,bio,pxn, v. wk calc. microvnlts.													
93.82-95.95	Feldspar porphyry: grey plag. phenos, 2-5 mm (50%), dk. f.g. chlor. groundmass, mod-strong magnetic			potassic,chlor,hem (localized)	tro, diss py									
95.95-105.8	Andesitic Greenstone: med-drk green, aphanitic w. approx. 10% diffuse epid. patches occas. w. amorphous brown garnet, hem. occurs as minor fract. fills, v. minor calcite hairline fracts., brecc. w. strong hem.matrix @ 105.06-105.8 m.					121802	104.75	105.75	1.0	25	5			
105.8-109.85	Feldspar porphyry: mottled, approx. 60% plag. phenos, 2-10 mmm, subh-euhedral; dk green chlor groundmass, plag. phenos pervasiv. wk potassic alt, mod. fract @ 108.8-109.85, strong hem. stain @ 105.88-106.98 m.			potassic,chlor, epid.	local. diss. py., < 1%									
109.85-114.16	Andesitic greenstone : weakly porphyritic w. 5% plag. laths, 1-2 mm , 5% chlor. spots, 1-3 mm ; sporadic oval calcite amygdules, 2-5 mm, increased carb. alt. @approx. 112.5-114.16, grey-brownish grey groundmass, sharp lower contact.	40°		wk. potassic, carbonate										

DDH NO. 93-BC-01

DEPTH (meters) FROM/TO	DESCRIPTION	STRUCTURE ANGLES	STRUCTURE VEINS	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE NO.	FROM	TO	LENGTH (meters)	RESULTS Cu (ppm)	Au (ppb)	Ag (g/t)	Fe (%)	Other
114.16-124.43	Syenite plag. porph.: as above @ 77.7-93.82, brownish pink groundmass at approx. 123.7-124.43 m, sharp, irreg. lower contact.			wk.-mod. pervasive potassic/chlor plag pheno. replacements										
124.43-126.3	Andesitic greenstone: pale green, aphanitic.			wk. epidote	tro. diss. py.									
126.3-127.62	Feldspar porphyry: mottled, chlor. groundmass, mod. microfractd w. chloritic healings, 70% plag. phenos.,sub-euhedral, 2-5 mm.			mod. chlor wk. epid.,hem.										
127.62-128.99	Andesitic greenstone: pale green, aphanitic, wkly fract. w. calcite fillings.													
128.99-130.93	Syenite plag. porph.: as above @ 114.16 - 124.43 m.													
130.93-137.96	Andesitic greenstone: med. green, aphanitic, pervas. microfract's, several brecciated zones, 10-30 cm w. calcite matrix filling, 2-5% calcite veinlets, 1-3 mm.			wk chlor., epid.		121803	135.24	136.24	1.0	253	60			
137.96-142.34	Feldspar porphyry: mottled, drk. green chlor. groundmass , indistinct plag. phenos, 50-60% , 4 cm calcite breccia matrix zone @ 140.0 m.			mod. chlor.	diss py, 0.5%									
142.34	E.O.H.													

TECK EXPLORATION LTD.

BEAR PROPERTY | **PROJECT #1738** | **HOLE NO. 93-BC-02** | **PAGE: 1 of 1**

NTS:	**82E/2E**	**DATE COLLARED: 31/8/93**	**DEPTH**	**DIP**	**AZ**	**LENGTH:**	**41.76m**
CLAIM:	**CUB 4**	**DATE COMPLETED: 31/8/93**		**-70**	**360°**	**DEPTH OF OVB:**	**3.05m**
ELEVATION:	**1204m**	**DATE LOGGED:**				**CASING REMAINING:**	
						WATERLINE LENGTH:	
LOGGED BY:	**G.T.**					**PROBLEMS:**	

CORE SIZE: NQ

DEPTH (meters) FROM/TO	DESCRIPTION	STRUCTURE ANGLES	STRUCTURE VEINS	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE NO.	FROM	TO	LENGTH (meters)	RESULTS Cu (ppm)	Au (ppb)	Ag (g/t)	Fe (%)	Other
0.-3.05	Overburden													
3.05-16.67	Quartz diorite: intrusive breccia, mottled, ~80% ang. intrus. frags, 1-5 cm, occas. w. mafic frags to 5.0 cm, dk green chlor groundmass, mainly composed of sodic feldspar, locally porphyritic with pervasive sporadic zones of potassic alt. plag. phenos., grey green to drk pinkish green, brkn w. limon. stain on fract. sfcs; mafic breccia zone @ 8.78-9.33 m.			wk-mod potassic,chlor, epidote										
16.67-19.8	Syenite plag. porph.: brown-brownish pink, 10% sub-euhedral plag. phenos, 2-7 mm w. wk pervasive chlor. replacement, 3% 1-2 mm biot. phenos (1-2%), diss. chlor. spots, 1-2 mm, hem. replacmnt of chlor. spots @ 19.4-19.8 m, aphanitic potassic groundmass.	U. cont 70°		wk. carbonate										
19.8-26.2	Quartz diorite: grey green-drk green, crowded, equigranular, 70% plag. phenos, subhedral, 2-5 mm, 20% K-spar phenos., 10% chlor. groundmass, localized K-spar bands (0.5 cm).				chlor-epid (mod-strg) carbnte-mod hem-wk									
26.2-37.97	Quartz diorite: as above , but with very weak to nil alteration, med. grey to greenish grey, eqigranular plag phenos, 1-3 mm , 60% plag+qtz, 40% pyroxene+/- biotite, sporadic mafic xenoliths (2-13 cm).			v. wk. potassic,chlor										
37.97-40.27	Andesitic greenstone; med grey green, minor chlor/hem healed microfracts, sporadic narrow zones of q.dior. intrusion/mixing.			wk. chlor-epid										
40.27-41.76	Quartz diorite: as above ; greenstone band, locally magnetic @ 41.12-41.52 m.			wk. chlor-epid										
41.76	E.O.H.													

TECK EXPLORATION LTD.

BEAR PROPERTY | **PROJECT #1738** | **HOLE NO. 93-BC-03** | **PAGE: 1 of 2**

NTS:	**82E/2E**	**DATE COLLARED:**	**31/08/93**	**DEPTH**	**DIP**	**AZ**	**LENGTH: 111.25m**
CLAIM:	**CUB 4**	**DATE COMPLETED:**	**01/09/93**		**-45°**	**66°**	**DEPTH OF OVB: 3.66m**
ELEVATION:	**1204m**	**DATE LOGGED:**					**CASING REMAINING:**
GRID COORD:		**CORE SIZE: NQ**					**WATERLINE LENGTH:**
LOGGED BY: G.T.							**PROBLEMS:**

DEPTH (meters) FROM/TO	DESCRIPTION	STRUCTURE ANGLES	STRUCTURE VEINS	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE NO.	FROM	TO	LENGTH (meters)	RESULTS Zn (%)	Pb (%)	Ag (g/t)	Fe (%)	Other
0-3.66	*Overburden*													
3.66-21.96	Quartz diorite-intrusive : porphyritic, broken w. limon. coatings, strongly brecciated @ 3.66-11.0 w. pink angular plag. frags and 5% crushed matrix; @ 11.0-21.96 grey, equigran, mottled; 15 cm aphanitic syenite band @ 20.3; 25 cm brown mafic band @ 16.87-17.12m.													
21.96-29.2	Syenite plag. porph. (as previously described)	U. Contact 70°												
29.2-57.0	Quartz diorite porphyry: equigranular, plag phenos 2-5 mm (30%), grey quartz-feldspar groundmass, 10% green pxn-chlor xls 1-3 mm; 29.2-~36.0 wk. potassic alt. of plag. phenos w. abundant chlor. microfracts; 36.0-43.2 similar to above with less potassic alt, 13 cm ash tuff layer at 40.5 m.; 43.2-48.6 fault zone , broken q.d. w. abundant calcite fract. fills, local brecciation, fault gouge @ 48.4-48.6 m; 48.6-57.0 grey, equigranular q.d.with minor mafic inclusions (2-10 cm)													
57.0-62.06	Syenite plag. porph: as previously described	U.& L Contacts 50°												
62.06-87.96														
62.06-87.96	Quartz diorite porph: mottled, broken, microfract, pink potassic alt. plag. phenos, 2-5 mm, green chlor. groundmass.			chlor-(mod to strg), wk potassic										
87.96-95.24	Syenite plag. porph: pinkish brown, 5% wht to pale green sub-euhedral plag phenos 2-5 mm w. 1 % diss biot., 1-2 mm , numerous 1-2 mm pink potassic veinlets @ 20° to core axis.													

DDH NO. 93-BC-03

DEPTH (meters) FROM/TO	DESCRIPTION	STRUCTURE ANGLES	STRUCTURE VEINS	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE NO.	FROM	TO	LENGTH (meters)	RESULTS Zn (%)	Pb (%)	Ag (g/t)	Fe (%)	Other
95.24-111.25	Quartz diorite porphyry: mottled, pink to drk green, crowded pleg. phenos, 2-5 mm, 60%, drk green chlor-epid groundmass; chlor-epidote occurs as irreg. clusters, spots and bands.			pervasive mod. potassic, chlor, epid; potassic pleg. pheno replacmnt										
111.25	E.O.H.													

TECK EXPLORATION LTD.

BEAR PROPERTY | PROJECT #1738 | HOLE NO. 93-BC-04 | PAGE: 1 of 1

NTS: 82E/2E
CLAIM: BEAR
ELEVATION: 3650'
GRID COORD:
LOGGED BY: G.T.

DATE COLLARED: 01/09/93
DATE COMPLETED: 02/09/93
DATE LOGGED:

DEPTH | DIP | AZ
-90°

LENGTH: 66.14 m
DEPTH OF OVB: 12.8 m
CASING REMAINING:
WATERLINE LENGTH:

PROBLEMS:

CORE SIZE: NQ

DEPTH (meters) FROM/TO	DESCRIPTION	STRUCTURE ANGLES	STRUCTURE VEINS	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE NO.	FROM	TO	LENGTH (meters)	RESULTS Zn (%)	Pb (%)	Ag (g/t)	Fe (%)	Other
0-12.8	Overburden													
12.8-16.1	Quartz diorite: greenish grey to green, equigranular, felsic groundmass w. 50%, 1-3 mm pxn, bio phenos, pervasive chlor. bands, texture locally masked by chlor. alt.			chlor,epid (wk-mod)										
16.1-21.1	Quartz diorite: pink, drk green, strongly broken, locally friable, sheared, intense potassic, chlor alt; plag phenos entirely potassic altered; fault gouge @ 19.1-19.5, 20.9-21.1 w. grey, wht banded limestone frags. and pink K-spar frags; angular mafic inclusions (10%) @ 16.1- 19.1 m.			strong potassic, chlor, strong carbonate in gouge zones	tro. py									
21.1-24.3	Quartz diorite: less altered zone than above, mottled, med-drk green chlor groundmass, mafics pervasively chloritized, plag phenos wkly potassic alt.			chlor (mod-strong) wk potass, epid	py-tro-0.5%									
24.3-27.82	Syenite plag. porph: 5-10% white plag phenos, 2-5 mm , 1-2% biot. laths, 1-2 mm , pink potassic groundmass, sharp irregular contacts.													
27.82-66.14	Quartz diorite: fresh, grey, eqigranular, 30-40% pxn phenos, 1-3 mm , grey felsic groundmass, wkly magnetic, rare mafic xenoliths, 41.2-46.5 red hem. fract. coatings.													
66.14	E.O.H.													

TECK EXPLORATION LTD.

BEAR PROPERTY | PROJECT #1738 | HOLE NO. 93-BC-05 | PAGE: 1 of 3

NTS:82E/2E
CLAIM: BEAR
ELEVATION: 3650'
DATE LOGGED:
GRID COORD:
LOGGED BY: G.T.

DATE COLLARED: 02/09/93
DATE COMPLETED: 03/09/93

DEPTH | DIP | AZ
-90°

LENGTH: 140.5 m
DEPTH OF OVB: 6.7 m

CASING REMAINING:
WATERLINE LENGTH:
PROBLEMS:

CORE SIZE: NQ

DEPTH (meters) FROM/TO	DESCRIPTION	STRUCTURE ANGLES	STRUCTURE VEINS	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE NO.	FROM	TO	LENGTH (meters)	RESULTS Au (ppb)	Cu (ppm)	Ag (g/t)	Fe (%)	Other
0-6.7	Overburden													
6.7-28.65	Mafic volcanics: light to med. green, aphanitic, mottled, weak pervasive autobrecciation, mod-strong skarnification w. pervasive patches/bands of brown garnet, epidote (>50%); < 5% calcite vnlts; greatest skarn intensity @ 11.6-16.25 m; semi-msv magnetite,py. @ 14.33-14.77 m			mod-strg skarning, garnet, epid, chlor, local sillicif.	0.5-1.0% diss py, locally >, minor local po. conc's	121804 121805	11.63 14.33	14.33 16.25	2.7 1.92	10 5	750 266			
28.65-29.76	Syenite plag. porph.: 5% plag phenos(partly Chlor), 2-5 mm, pink potassic groundmass, 1% biot. laths , 1-2 mm													
29.76-33.05	Mafic volcanics: as at 6.7-28.65 m; skarned w. localized patches garnet, epidote; prominent alteration band @ 31.95-32.25 (70% epid, 20% garn, 5% carbonate, 5% chlorite)				1-3% diss py	121806	30.36	32.61	2.25	5	193			
33.05-38.7	Syenite plag. porph.: 5-10% chlor. plag phenos, brownish chill margin w. wht plag. phenos @ 37.4-38.7	U. Cont. 60°												
38.7-59.3	Mafic volcanics: pale to drk green,,aphanitic, mottled, weakly skarned, autobrecciated from approx. 50.9-58.3 w. 1-2 % py.as portion of pale green matrix			chlor-epid (mod)		121807 121808	50.7 55.9	52.8 58.3	2.1 2.4	5 5	234 318			
59.3-72.0	Syenite plag. porph.: as previous units, sharp irreg. contacts													

DDH-No: 93-BC-05

DEPTH (meters) FROM/TO	DESCRIPTION	STRUCTURE ANGLES	STRUCTURE VEINS	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE NO.	FROM	TO	LENGTH (meters)	RESULTS Au (ppb)	Cu (ppm)	Ag (g/t)	Fe (%)	Other
72.0-92.4	Quartz diorite: equigranular, med. grain, greenish grey, hematite on fract's @ 82.88-82.4 m, fract. zone @ 82.88-86.04, broken, fractured, sheared w. red hem. on fract. sfcs; localized brecciation, increased calcite vnlts			wk. chlor,epid carbonate, chlor, hem (mod)										
92.4-103.75	Mafic volcanics: aphanitic, grey green, broken, mod. calcareous; @ 96.62-103.75 mod-strong skarning w. conspicuous bands and patches brown garnet, chlor, epid. 99.25-~101.8 , zone of very strong garnet bands w. assoc. autobrecciation, 5-10% calcite+ hem as matrix filling; mottled quartz diorite band (22 cm) @ 102.16-102.38 m			chlor,epid,hem (mod)	py tro.									
103.75-105.76	Syenite pleg. porph.: brownish pink, 5% wht pleg phenos, 2-5 mm , 1-2 % biotite													
105.76-109.07	Mafic volcanics: fragmental, heterolithic, angular green mafic/cream felsic frags, 1-2 cm, conspicuous 10-20 cm brown garnet patches +/- epid, minor calcite hairline fract's often w. red hem. (garnets occass. exhibit vague crystalline shape)			Garnet, epid, chlor	py as sporadic patches									
109.07-111.61	Syenite pleg. porph: pinkish brown, 3-5%, scattered pleg. phenos, weakly autobrecciated @ 109.87-111.61 w. pale green chlor. matrix													
111.61-114.85	Quartz diorite: weakly mottled, med grain; quartz flooding @ 113.7-114.12 (~80% qtz bands)			chlor-wk										
114.85-116.91	Syenite pleg. porph: brownish pink groundmass w. 5% chloritized pleg phenos, 2-7 mm													
116.91-125.11	Quartz diorite: eqigranular, green grey, weakly mottled, red hem. on fract's			wk. chlor,epid										
125.11-127.1	Syenite pleg. porph: as at 114.85-116.91 m													
127.1-128.13	Quartz diorite: broken			chlor, clay carbonate (mod)										

DDH-No: 93-BC-05

DEPTH (meters) FROM/TO	DESCRIPTION	STRUCTURE ANGLES	STRUCTURE VEINS	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE NO.	FROM	TO	LENGTH (meters)	RESULTS Au (ppb)	Cu (ppm)	Ag (g/t)	Fe (%)	Other
128.13-130.1	Mafic volcanics: similar to 105.76-109.07, fragmental, heterolithic, angular green mafic volc. frags, w minor cream felsic frags, also 1-5 mm garnet frags , 1- 2 cm garnet band, pervasive mod. calcareous													
130.1-130.76	Mafic volcanics: very dark, strongly calcareous, magnetic			Intense carbonate, chlor, hem, locally silic.										
130.76-133.05	Quartz diorite (Fault Zone): fragmental qtz diorite, 50% angular frags w. interstitial chloritic gouge (frags. 2 mm- 4.0 cm); sharp lower contact @	30° fault contact 20°												
133.05-134.9	Andesite breccia: angular greenstone, calcite frags, 1-4 cm, abundant calcite matrix			carbonate - (strong)	trc diss py									
134.9-140.61	Syenite pleg. porph.													
140.61	E.O.H.													

TECK EXPLORATION LTD.

BEAR PROPERTY | PROJECT #1738 | HOLE NO. 93-BC-06 | PAGE: 1 of 2

NTS: 82E/2E
CLAIM: BEAR
ELEVATION: 3900'
GRID COORD:

DATE COLLARED: 03/09/93
DATE COMPLETED: 04/09/93
DATE LOGGED:

LOGGED BY: G.T.
CORE SIZE: NQ

DEPTH	DIP	AZ
	-60°	140°

LENGTH: 105.16 m
DEPTH OF OVB: 4.57 m
CASING REMAINING:
WATERLINE LENGTH:
PROBLEMS:

DEPTH (meters) FROM/TO	DESCRIPTION	STRUCTURE ANGLES	STRUCTURE VEINS	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE NO.	FROM	TO	LENGTH (meters)	RESULTS Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	Other
0-4.57	Overburden													
4.57-13.75	Feldspar porphyry: pale green w. red hem. stain on fract's, pervasive mod-strong hem. stain, > 60% pleg. phenos are mod. chloritized, 60% pleg phenos, 2-7 mm, subhedral-euhedral, partially hem. stained, broken to ~ 10.0 m , 18 cm volc. frag @ 13.29 m , L. cont.-->	60°		chlor,hem (mod-strong)										
13.75-15.32	Andesitic greenstone: fine grain, green to red, irreg. red hem. bands, patches, wk epid. skarn bands @ 14.85-15.12 m, minor py. in drk f.g. volc. @ 14.6-14.88 m.			chlor, hem, epid	py tr⊂									
15.32-16.52	Feldspar porphyry: as above @ 4.57-13.75 m, strong hem. alt. @15.75-16.37 m.			chlor (mod) hem (mod-strg)		121809	15.32	16.52	1.2	50	184	0.9		
16.52-19.28	Greenstone (Mineralized Zone): grey to greenish grey, aphanitic greenstone, pervasive wk. -mod silicification, 10-20% semimsv py, po, cpy as irreg. masses, fract. fills, grad. lower contact.			chlor, silic	10-20% py,po,cpy	121810 121811	16.52 17.82	17.82 19.28	1.3 1.46	2.4 g/t 2.02 g/t	2.26% 2.10%	49.02 g/t 33.61 g/t		
19.28-32.45	Andesitic greenstone: pale green, aphanitic, mottled, pevasive silicification w. conspicuous skarning of irreg. patches of pinkish garnet often w. epidote rims, epidote also as segregations, py. as f.g. disseminations, also as minor localized clusters to 10 cm.			skarn-garn,epidote, silicification	f.g. diss py 0.5%	121812 121813	19.28 31.1	20.42 32.45	1.14 1.35	110 150	1078 626	3.5 0.9		
32.45-34.87	Greenstone (Mineralized Zone): similar to mineralized zone at 16.52-19.28 m, dark, f.g. alt. greenstone, w. diss to semimsv py as fracture fills and irregular masses or disseminations.		20-30°to C.A.	chlor (mod)	10-20% py 3-5% py	121814 121815	32.45 33.93	33.93 34.87	1.48 0.94	880 280	1223 538	3.5 0.5		

DEPTH (meters) FROM/TO	DESCRIPTION	STRUCTURE ANGLES	STRUCTURE VEINS	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE NO.	FROM	TO	LENGTH (meters)	RESULTS Au (ppb)	Cu (ppm)	Ag (ppm)	Fe (%)	Other
34.87-39.23	Andesite greenstone: continuation of zone @ 19.28-32.45, conspicuous garnet-epidote alt.; sharp contact qtz diorite band @ 38.48-38.67 m.	U.Cont. @ 40°		Skarning w. garn. epid, silicification	diss py, <0.5%	121816	34.87	35.87	1.0	70	432	0.9		
39.23-44.08	Feldspar porphyry: crowded, light grey plag phenos, 1-3 mm, >50%, euhedral w. darker grey felsic groundmass, equigranular.			wk. chlor.										
44.08-45.4	Syenite plag. porph: as previously described.													
45.4-55.55	Feldspar porphyry: crowded plag. phenos, equigranular (as at 39.23-44.08 m).													
55.55-64.81	Syenite plag. porph: 10% plag phenos., wk. to mod. chlor replaced, euhedral, 2-10 mm , brownish green chill margins 20-40 cm , wht-cream plag phenos, pink potassic groundmass, sharp U.& Lower contacts.	U Cont 40° L Cont 60°												
64.81-81.56	Feldspar porphyry: as previous unit @ 45.4-55.55, crowded plag. phenos, 1-3 mm, pink, green (potassic, chlor) groundmass, 1-2 % biotite, 1-2 mm , 1% calc. vnlts 1-3 mm.			wk potassic,chlor										
81.56-90.0	Syenite plag. porph: strongly broken at approx. 83.8-90.0 m.													
90.0-105.16	Feldspar porphyry: as previous units with intense chlor-hem alt, porph. texture pervasively masked by alteration, strongly fractured with approx. 3% calcite breccia matrix fillings.			strong chlor,hem local K-spar										
105.16	E.O.H.													

APPENDIX 6

GEOCHEMICAL METHODS

Jan. 1990.

GEOCHEMICAL ANALYTICAL METHODS CURRENTLY IN USE AT ROSSBACHER LABORATORY LTD.

A. SAMPLE PREPARATION

1. Geochem. Soil and Silt:
   Samples are dried and sifted to minus 80 Mesh, through stainless steel or nylon screens.

2. Geochem. Rock:
   Samples are dried, crushed to minus $^1/_4$ inch, split, and pulverized to minus 100 mesh.

B. METHODS OF ANALYSIS

1. Multi element: (Mo, Cu, Ni, Co, Mn, Fe, Ag, Zn, Pb, Cd, As):
   0.50 Gram sample is digested for four hours with a 15:85 mixture of Nitric-Perchloric acid. The resulting extract is analyzed by Atomic Absorbtion spectroscopy, using Background Correction where appropriate.

2. Antimony:
   0.50 Gram sample is fused with Ammonium Iodide and dissolved. The resulting solution is extracted into TOPO/MIBK and analyzed by Atomic Absorbtion spectroscopy.

3. Arsenic: (Generation Method)
   0.25 Gram sample is digested with Nitric-Perchloric acid. Arsenic from the solution is converted to arsine, which in turn reacts with silver D.D.C. The resulting solution is analyzed by colorimetry.

4. Barium:
   0.20 Gram sample is repeatedly digested with $HClO_4$-HNO_3 and HF. The solution is analyzed by atomic absorbtion spectroscopy.

5. Biogeochemical:
   Samples are dried and ashed at 550°C. The resulting ash analyzed as in *1, Multielement Analysis.

6. Bismuth:
   0.50 Gram sample is digested with Nitric acid. The The solution is analysed by Atomic absorbtion spectroscopy.

METHODS OF ANALYSIS (CONT'D)

7. **Chromium:**

0.25 Gram sample is fused with Sodium Peroxide. The solution is analyzed by atomic absorbtion spectroscopy.

8. **Fluorine:**

0.50 Gram sample is fused with Carbonate Flux, and dissolved. The solution is analysed for Fluorine by use of an Ion Selective Electrode.

9. **Gold AR/AAS:**

10.0 Gram sample is roasted at 550°C and dissolved in Aqua Regia. The resulting solution is subjected to a MIBK extraction, and the extract is analzed for Gold using Atomic Absorbtion spectroscopy.

9A **Gold FA:**

10.0 Gram sample is fused with appropriate fluxes, and the resulting lead button is cupelled to produce a gold/silver bead. The bead is dissolved in Aqua Regia and analyzed for gold by AAS.

10. **Mercury:**

1.00 Gram sample is digested with Nitric and Sulfuric acids. The solution if analyzed by Atomic Absorbtion spectroscopy, using a cold vapor generation technique.

11. **Partial Extraction and Fe/Mn oxides:**

0.50 Gram sample is extracted using one of the following: hot or cold 0.5 N. HCl, 2.5% E.D.T.A., Ammonium citrate, or other selected organic acids. The solution is analyzed by use of Atomic Absorbtion spectroscopy.

12. **pH:**

An aqueous suspension of soil, or silt is prepared, and its pH is measured by use of a pH meter.

13. **Rapid Silicate Analysis:**

0.10 Gram sample is fused with Lithium Metaborate, and dissolved in HNO_3. The solution is analyzed by Atomic Absorbtion for SiO_2, Al_2O_3, Fe_2O_3, MgO, CaO, Na_2O, K_2O, TiO_2, TiO_2, P_2O_5, and MnO.

14. **Tin:**

0.50 Gram sample is sublimated by fusion with Ammonium Iodide, and dissolved. The resulting solution is extracted into TOPO/MIBK and analysed by atomic absorbtion spectroscopy.

15. Tungsten:

1.00 Gram sample is sintered with a carbonate flux, and dissolved. The resulting extract is analyzed colorimetrically, after reduction with Stannous Chloride, by use of Potassium Thiocyanate.

16. ICP :

0.5 Gram sample is digested with Aqua Regia, and analyzed using a JOBIN YVON MODEL JY 32 1987 ICP Emission Spectrophotometer for Ag, Al, As, Au, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Hg, La, Mg, Mo, Mn, Ni, P, Pb, Sb, Si, Sr, Ti, U, V, W, Zn.