DIAMOND DRILLING

AREA: LENNAN LAKE **REPORT NO:** 10

WORK PERFORMED FOR: Champion Bear Resources Ltd./Canadian Eagle Explorations Ltd.

RECORDED HOLDER: SAME AS ABOVE (xx)

: OTHER

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
967358	CB-1	266.0'	Jan/89	(1) (2)
	CB-2	247.0'	Jan/89	(1) (2)
	CB-3	256.0'	Feb/89	(1) (2)
967355	CB-4	196.0'	Feb/89	(1) (2)
	CB-4A	40.0'	Feb/89	(1) (2)
967358	CB-5	201.0'	Feb/89	(1) (2)
	CB-6	226.0'	Feb/89	(1) (2)
967367	CB-7	70.0'	Feb/89	(1) (2)
967366	CB-7A	62.0'	Feb/89	(1) (2)
	CB-7B	68.0'	Feb/89	(1) (2)
967409	CB-8	276.0'	Feb/89	(1) (2)
967419	CB-9	446.0'	Feb/89	(1) (2)
967372	CB-10	416.0'	Feb/89	(1) (2)
	CB-11	196.0'	Mar/89	(1) (2)
967377	CB-12	356.0'	Mar/89	(1) (2)
967376	CB-13	240.0'	Mar/89	(1) (2)
967388	CB-14	396.0'	Mar/89	(1) (2)
967385	CB-15A	80.0'	Mar/89	(1) (2)
967384	CB-15	360.0'	Mar/89	(1) (2)
967385	CB-16	416.0'	Mar/89	(1) (2)
967372	CB-17	306.0'	Mar/89	(1) (2)

21 DDH 5120'

NOTES: (1) W9001.073, filed May 90

(2) Material Added to file from OMEP Report #OM88-4-C-237 on Sept. 13/90. Material added: Drill Hole X-Sections, Analytical Reports from Terramin Labs Ltd. (Dated Feb 27, 28, March 15, 31/90).

SUMMARY REPORT
AND
DIAMOND DRILL HOLE LOGS

HELDER LAKE PROJECT
KENORA MINING DIVISION, ONTARIO

Prepared For

CHAMPION BEAR RESOURCES LTD.
3805 7A STREET S. W.
CALGARY, ALBERTA

By

L.C. Chastko, P.Eng.; F.G.A.C.

and

Paul Barc

Consulting Geologists

INDEPENDENT EXPLORATION SERVICES LTD.

MAY 5, 1989

CONTOUR INTERVALS

100 nT

500 nT

SCALE 1 : 20 000

CHAMPION BEAR RESOURCES LTD.

HELDER LAKE PROPERTY
LENNON LAKE AREA
PATRICIA MINING DIV., ONTARIO
GRID: HELDER CENTRE

TOTAL FIELD MAGNETIC CONTOUR MAP

SURVEY IN TRIPLICATE FOR 200E LINES WITH BASE STATION
SURVEY DATE: FEBRUARY TO MARCH 1987
DATA PROCESSING AND PLOTTING BY:
INDEPENDENT EXPLORATION SERVICES LTD.
WINNIPEG, MANITOBA

D.D.H. & NO.

HELDER LAKE

1600 E
1500 E
1400 E
1300 E
1200 E
1100 E
1000 E
900 E
800 E
700 E
600 E
500 E
400 E
300 E
200 E
100 E
0
100 W
200 W
300 W
400 W

1000 N
900 N
800 N
700 N
600 N
500 N
400 N
300 N
200 N
100 N
0
100 S
200 S
300 S
400 S

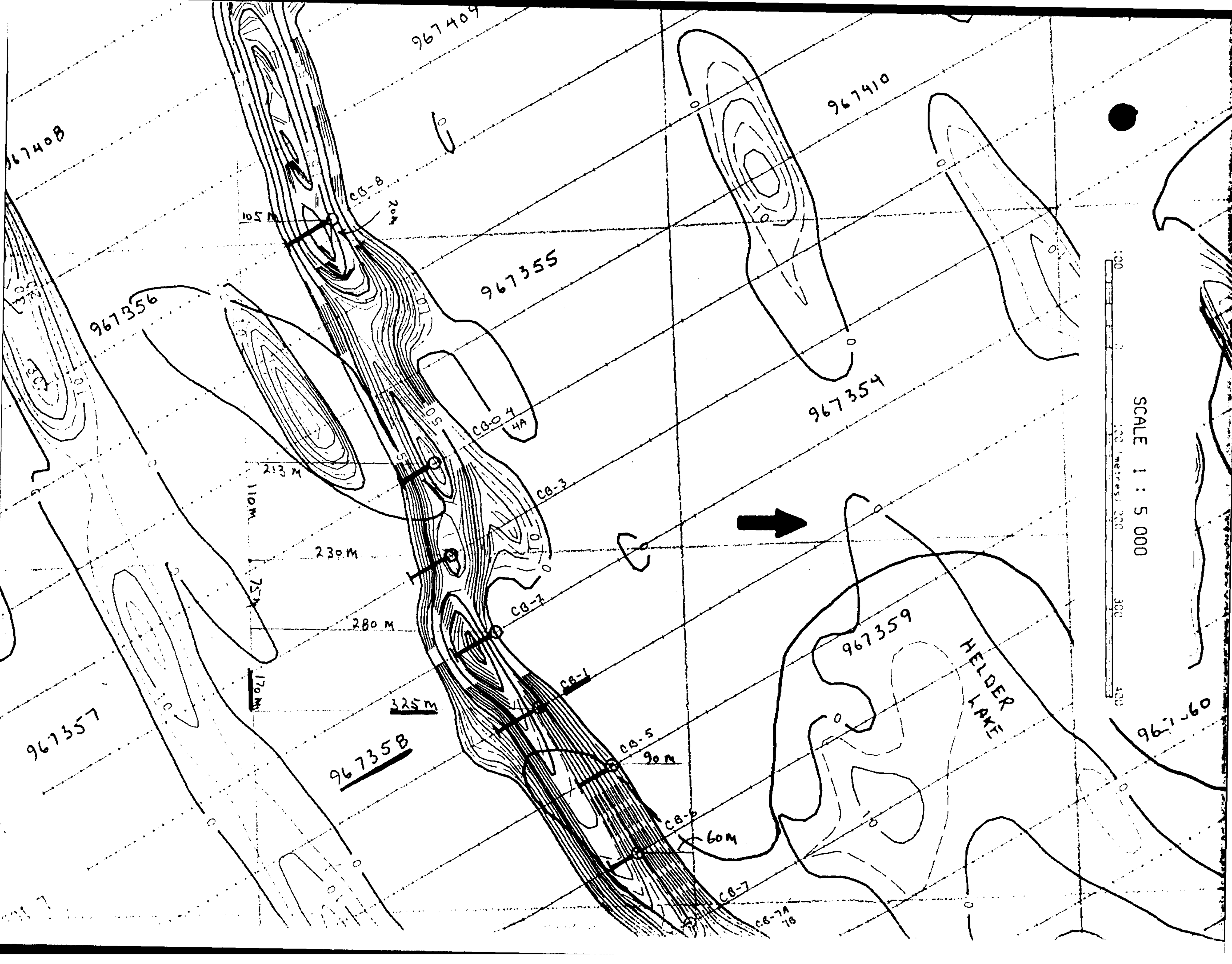
TABLE I

CHAMPION BEAR RESOURCES LTD.
SUMMARY OF DIAMOND DRILL HOLES
JANUARY - MARCH, 1989 PROGRAM
HELDER LAKE AREA

Hole No.	Long.	Lat.	Dip	Grid Bearing	Depth of Hole	Remarks	Assessment Days Credit
CB-1	10900E	10138N	-45°	Grid S	266'		266
CB-2	10800E	10135N	-45°	Grid S	247'		247
CB-3	10700E	10140N	-45°	Grid S	256'		256
CB-4	10600E	10175N	-60°	Grid S	196'		196
CB-4A	10600E	10175N	-45°	Grid S	40'	Abandoned - O.B.	~~10~~
CB-5	11000E	10175N	-45°	Grid S	201'		201
CB-6	11100E	10150N	-60°	Grid S	226'		226
CB-7	11200E	10160N	-65°	Grid S	70'	Abandoned - O.B. lake	~~17.5~~
CB-7A	11250E	10160N	-65°	Grid S	62'	Abandoned - O.B. lake	~~15.5~~
CB-7B	11250E	10160N	-80°	Grid S	68'	Abandoned - O.B. lake	~~17~~
CB-8	10300E	10215N	-45°	Grid S	276'		276
CB-9	9700E	10375N	-45°	Grid S 30°W	446'		446
CB-10	12100E	10290N	-45°	Grid S	416'		416
CB-11	12100E	10290N	-45°	Grid N	196'		196
CB-12	12400E	10425N	-45°	Grid S	356'		356
CB-13	12400E	10550N	-45°	Grid S	240'		240
CB-14	13200E	10325N	-45°	Grid S	396'		396
CB-15	12700E	10290N	-65°	Grid S	360'		360
CB-15A	12700E	10290N	-45°	Grid S	82'	Abandoned - O.B.	~~20.5~~

Hole No.	Long.	Lat.	Dip	Grid Bearing	Depth of Hole	Remarks	Assessment Days Credit
CB-16	13000E	10390N	-45°	Grid S	416'	✓	416 ✓
CB-17	12000E	10275N	-45°	Grid S	306'	✓	306 ✓
						TOTAL	~~4880.5~~ 4800

Total Drill Holes Attempted	21
Total Drill Holes Completed	16
Total Footage Completed	4,800'
Total Footage in Abandoned Holes	322'
Grand Total Footage	5,122'



967409
967408
967410
967355
967356
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967357
967358
967359
967360
CB-8
CB-4
4A
CB-3
CB-2
CB-1
CB-5
CB-6
CB-7
CB-7A
7B
105 M
213 M
110 M
230 M
280 M
325 M
170 M
90 M
60 M
HELDER LAKE
SCALE 1 : 5 000
metres

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-1
Collar Eastings: 10900.00
Collar Northings: 10138.00
Collar Elevation: 0.00

Collar Inclination: -45.00
Grid Bearing: 180.00
Final Depth: 266.00 feet

Logged by: P. Barc
Date: Jan.26-29 89
Down-hole Survey: -

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
0.0	30.0	CASING (CAS)											
30.0	34.0	GRANITIC DIKE (GRAN) Mg.Qtz.>K feldspar +minor garnet+chl.											
34.0	81.2	AMPHIBOLITE (MOTT.AMPH)	1	48.00	48.90	0.90	8	0.42	64	390	5	1000	6.73
		Mottled texture,fg chl-amph.-plag schist,	2	77.00	77.50	0.50	14	0.10	118	58	16	40	6.54
		well fol'd at 45 to CA.Minor f-sg. py-qtz-chl. stringers along fractures &foliation planes.Slight inc. in grain size of amph.to											
		SAMPLE RECORD 48.0'-48.9' qtz-py fracture filling. 77.0'-77.5' pyhr-py stringers. 80.6'-81.3' qtz-kfeldspar sg breccia,pyhr-py infilling-matrix.											
81.2	84.4	MASSIVE SULPHIDE BRECCIA (MS BX)	3	80.60	81.30	0.70	10	0.15	70	126	7	75	6.90
		30% Qtz.fg to pebble size clasts with	4	81.30	83.70	2.40	12	0.42	230	173	3	35	27.50
		60% fg.py+10% pyhr.,Sulphide content gradational to pyhr60%,	5	83.70	84.40	0.70	164	2.30	116	284	10	45	31.80
		py 10% by 84. SAMPLE RECORD 81.3'-83.7' 83.7'-84.4' pyhr>>py.											
84.4	93.0	QUARTZITE (QTZ'TE)	6	84.40	86.00	1.60	10	0.26	35	96	3	175	9.47
		Weakly banded (qtz-ste-amph-chl).Grey\blue black	7	86.00	88.20	2.20	14	0.30	57	67	2	300	7.95
		color,quartz rich sections with f-sg py+pyhr disem. grains+	8	88.20	92.90	4.70	10	0.10	70	32	2	37	6.70
		stringers. Py>>pyhr.,py<5%. SAMPLE RECORD 84.4'-86.0' py+pyhr >5%.fine stringers. 86.0'-88.2' " " " 88.2'-92.9' " " "											
93.0	139.0	BANDED IRON FORMATION (BIF)	9	92.90	96.00	3.10	26	0.13	52	30	0	51	10.50
		Well banded at 30% to CA.,qtz/qtz +ste+	10	96.00	97.20	1.20	56	0.32	45	81	1	19	14.90
		amphibole lns. to >1cm. bands.Minor diss. Aspy.+ Aspy/py conf.	11	97.20	98.80	1.60	18	0.08	207	28	1	46	5.00
		stringers 1-2mm.width.Minor distinct garnetiferous section.minor	12	98.80	99.50	0.70	50	0.00	1050	20	0	32	12.60
		disseminated biotite in BIF unit.	13	99.50	100.00	0.50	28	0.02	620	13	0	25	5.60
		109.2-111.2 Garnetiferous IF.	14	100.00	101.40	1.40	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
		112 -139 Minor 1%1to .4 qtz.vieing,increase in py+pyhr content	15	101.40	104.50	3.10	18	0.30	360	8	0	26	12.40
		to <5%.	16	104.50	105.00	0.50	28	0.06	380	14	0	34	14.80
		SAMPLE RECORD	17	105.00	106.50	1.50	16	0.04	450	18	0	18	9.85
		92.9'- 96.0' siliceous,py+pyhr<2%	18	106.50	107.00	0.50	12	0.02	225	14	13	219	12.40

per Paul Barc.

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-1

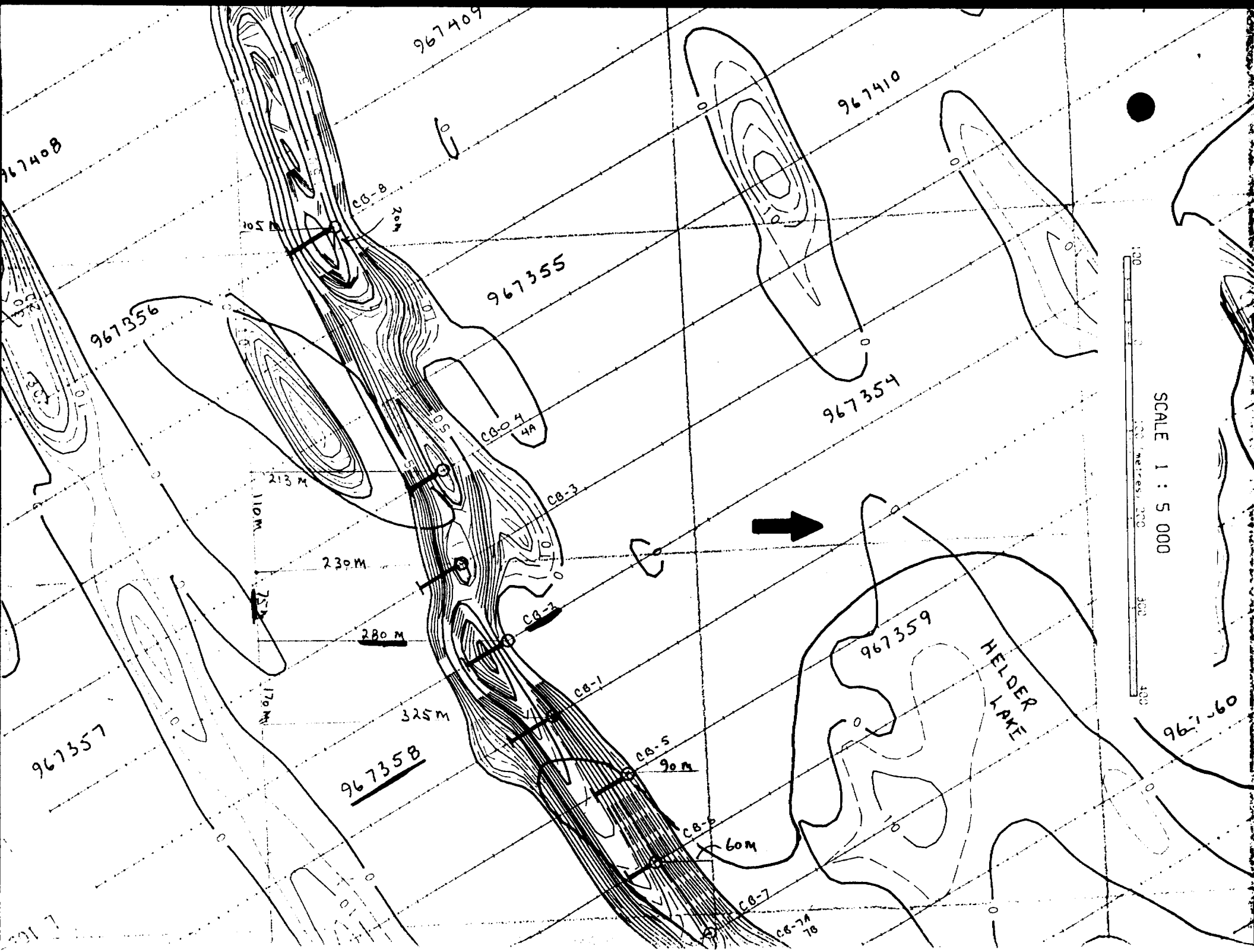
FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
		96.0'- 97.2' " py+pyhr>2%	19	107.00	107.50	0.50	12	0.02	241	16	11	59	11.50
		97.2'- 98.8' garnetiferous	20	107.50	109.20	1.70	22	0.05	580	30	1	22	9.69
		98.8'- 99.5' Aspy 1%.as 4-1mm crude stringers.	44	109.20	111.00	1.80	28	0.08	2000	23	9	104	11.20
		99.5'- 100.0' qtz-py-ate .1'"vien".	21	111.00	112.00	1.00	12	0.11	73	52	20	139	10.70
		100.0'-101.4' py+pyhr 1%	22	113.00	115.50	3.50	20	0.03	520	12	0	23	13.50
		101.4'-104.5' "	23	115.50	116.00	0.50	4	0.02	151	4	2	8	0.93
		104.5'-105.0' v/g Aspy,disem.,<1%	24	116.00	118.00	2.00	22	0.06	430	27	1	19	6.84
		105.0'-106.5' " "	25	118.00	119.00	1.00	188	0.11	10200	22	1	22	10.60
		106.5'-107.0' fg Aspy,<1%	26	119.00	120.30	1.30	20	0.03	540	9	1	19	9.26
		107.0'-107.5' "	27	120.30	121.70	1.40	30	0.04	209	16	0	22	13.10
		107.5'-109.2' disturbed banding,crosscut 3mm py vien,Aspy>1%.	28	121.70	123.10	0.40	30	0.05	236	24	3	28	5.94
		109.2'-111.0' Garnets,Aspy >>1%	29	123.10	123.50	1.40	160	0.10	5900	70	1	25	20.30
		111.0'-112.0' minor garnet,fg Aspy>1%.	30	123.50	124.50	1.00	64	0.06	2700	36	1	21	18.40
		112.0'-115.5' f-mg Aspy,disem.,stringers,>1%.	31	124.50	125.80	1.30	70	0.06	2100	34	1	14	12.20
		115.5'-116.0' qtz vien,mvs.	32	125.80	126.00	2.20	32	0.06	430	36	1	13	9.28
		116.0'-118.0' minor py+pyhr.	33	126.00	129.20	1.20	60	0.34	33	104	1	13	16.40
		118.0'-119.0' siliceous,py>1%,Aspy>>1%.	34	129.20	130.80	1.60	24	0.04	82	26	1	15	9.55
		119.0'-120.3' Aspy+py >>1%.biotite.	35	130.80	131.70	0.90	30	0.11	185	63	0	17	14.60
		120.3'-121.7' minor py.	36	131.70	132.80	1.10	18	0.06	146	34	0	15	12.70
		121.7'-122.1' "	37	132.80	133.50	0.70	190	0.06	5800	37	0	15	10.00
		122.1'-123.5' .4'qtz vien,Aspy>4%,disem.fg+1mm.stringer,py1%.	38	133.50	135.00	1.50	114	0.09	850	63	0	12	13.20
		123.5'-124.5' Aspy>2%,py.	39	135.00	135.50	0.50	32	0.09	310	43	0	14	11.40
		124.5'-125.8' Aspy >1%.	40	135.50	136.00	0.50	16	0.08	260	30	0	13	12.30
		125.8'-128.0' Aspy1%	41	136.00	138.50	2.50	18	0.09	171	92	1	22	8.11
		128.0'-129.2' py10%-disem fg+1mm-2cm stringers.Aspy fg disn.,1%	42	138.50	139.00	0.50	30	0.13	55	580	1	17	5.09
		129.2'-130.8' py<{aspy,Aspy>1%.											
		130.8'-131.7' py<5%,Aspy>1%.											
		131.7'-132.8' " "											
		132.8'-133.5' " " Aspy-py fine stringers.											
		133.5'-135.0' minor py+aspy in greenish bands of IF.											
		135.0'-135.5' mvs.											
		135.5'-136.0' Aspy<<1%											
		136.0'-138.5' minor garnets..2'Aspy<<1%.											
		138.5'-139.0' py stringer 1mm.											
139.0	255.0	AMPHIBOLITE (B.AMPH)	43	139.00	140.00	1.00	10	0.11	15	90	1	22	2.21
		Banded(poorly) .well foliated at 20 to CA.Green-black	50	155.00	155.50	0.50	4	0.10	14	120	2	18	2.04
		color,fg.,homog.texture.mvs.,silicified (banding).	46	194.30	195.30	0.50	12	0.16	100	144	1	22	3.07
			45	197.90	198.40	0.50	318	0.22	4900	204	7	50	3.62
255.0	257.5	BANDED IRON FORMATION (BIF)	47	256.00	256.50	0.50	48	0.80	86	540	0	34	21.20
		Sharp contacts,well banded white/green-white	48	257.00	257.50	0.50	36	0.15	2100	112	1	31	9.40
		(qtz/qtz-chl-anph.ate) foliation at 30 to CA.Minor disn.py+pyhr											
		3 grains coarse Aspy at 257.5.											

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-1

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
		SAMPLE RECORD 256.0'-256.5' pyhr diseem+stringers. 257.0'-257.5' py,Aspy<1%											
257.5	258.0	AMPHIBOLITE (B.AMPH) Banded texture,as above.											
258.0	259.0	BANDED IRON FORMATION (BIF) As above,minor garnet at base of unit. SAMPLE RECORD 259.1'-259.6' pyhr>1%,py<<1%											
259.0	264.0	AMPHIBOLITE (B.AMPH) Banded texture,as above.	49	259.10	259.60	0.50	252	0.88	24	1140	8	13	15.20
264.0	266.0	GRANODIORITE (GRANDIO) F-mg.,qtz-bte-feldspar,well foliated at 30% to CA. xenolithic contact margin.											
266.0		E.O.H.											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CB-8
CB-4
CB-3
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CB-1
CB-5
CB-6
CB-7
CB-7A
TD
105 M
213 M
110M
230M
280 M
170M
325M
90 M
60M
HELDER LAKE
SCALE 1 : 5 000
100
200
300
400
metres

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-2
Collar Eastings: 10800.00
Collar Northings: 10135.00
Collar Elevation: 0.00

Collar Inclination: -45.00
Grid Bearing: 180.00
Final Depth: 247.00 feet

Logged by: P. Barc
Date: Jan.29-31 89
Down-hole Survey: -

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
0.0	22.5	CASING (CAS)											
22.5	23.0	GRANITIC DIKE (GRAN) Fg pink dike,lower contact not observed.											
23.0	49.0	AMPHIBOLITE (B.AMPH) Banded texture,grey black color +irregularily distributed pale silicious lns-lcm conformable bands.Well foliated at°50 to C.A. SAMPLE RECORD 48.-49. contact,ave	51	48.00	49.00	1.00	14	0.00	44	90	8	69	6.30
49.0	69.5	MASSIVE SULPHIDE BRECCIA+AMPHIBOLITE (MS BX+AMPH) F-cg qtz subrounded clasts 50%,pyhr>>py matrix,50%.Pebble to cg AMPH clasts minor % of clasts.S BX interdigitated with 1-.5'green black AMPH sections near top of S BX unit. General fining of clast size to 59.5'. SAMPLE RECORD; 49.0' -50.0' sbx+amph 50.0' -52.0' sbx+amph 52.0' -53.1' sbx+amph 53.1' -55.0' quartzite+py 10% 55.0' -57.8' quartzite+py 10% 57.8' -61.5' sbx+amph 61.5' -66.3' 20%sbx+amph 66.3' -70.0' 40% f-cg sbx+amph py<10%	52 53 54 55 56 57 58	49.00 50.00 52.00 53.10 55.00 57.80 61.50	50.00 52.00 53.10 55.00 57.80 61.50 66.30	1.00 2.00 1.10 1.90 2.80 3.70 4.80	408 80 38 38 48 24 148	3.80 0.86 0.40 0.32 0.86 0.68 0.72	139 67 23 37 210 30 64	173 105 124 93 124 142 167	20 9 9 11 11 11 8	127 102 50 59 108 158 140	27.10 21.00 15.20 13.10 18.30 17.70 19.00
69.5	115.0	BANDED IRON FORMATION (BIF) Grey black,fg,banded qtz/qtz-ste,biotite.Banding at °45 to C.A.. Fg disseminated py >1%,py to 5% in 1-2mm conformable stringers in qtz rich sections.Qtz rich sections also Aspy <1% to >2%. qtz rich sections 6-.5',Aspy diss.fg >1-2mm conf.stringers. 2 Garnetiferous sections,50% top,9%base,fg pink garn,as follows; 84.5' - 88.0' Garnetiferous 115.0'-116.0' Garnetiferous SAMPLE RECORD 70.0' - 72.5' py 72.5' - 73.0' garnet,Cupy? 73.0' - 74.5' py1%,.5'qtz'vien' - qv, ave 74.5' - 77.0' Aspy <<1%,py,minor garnet 77.0' - 77.5' qv,Aspy>1%,py>1%,Cupy? 77.5' - 78.1' qv,Aspy .1'-5% 78.1' - 78.8' py	59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	66.30 70.00 73.50 73.00 74.50 77.00 77.50 78.10 78.80 70.00 72.50 80.50 81.30 81.80 82.50 83.70 84.50	70.00 73.50 73.00 74.50 77.00 77.50 78.10 78.80 79.40 72.50 80.50 81.30 81.80 82.50 83.70 84.50 85.60	3.70 3.50 0.50 1.50 2.50 0.50 0.60 0.70 0.60 2.50 0.00 0.00 0.50 0.70 1.20 0.80 1.10	64 28 14 16 14 10 100 70 80 128 46 154 258 38 80 20	0.59 0.27 0.17 0.13 0.08 0.15 0.18 0.09 0.13 0.17 0.10 0.08 0.08 0.09 0.13 0.14	31 45 92 85 290 160 3200 870 1750 2800 500 1600 4900 2100 157 230	91 47 20 14 12 42 45 19 15 19 22 19 32 22 37 72	4 2 1 0 2 1 3 2 0 0 2 1 3 0 0 2	44 39 23 38 29 37 26 24 30 33 20 13 13 37 34 66	17.30 8.80 5.81 14.10 10.60 13.90 16.10 9.69 14.00 11.50 6.32 7.59 8.51 15.80 22.10 10.80

HOLE No: CB-2

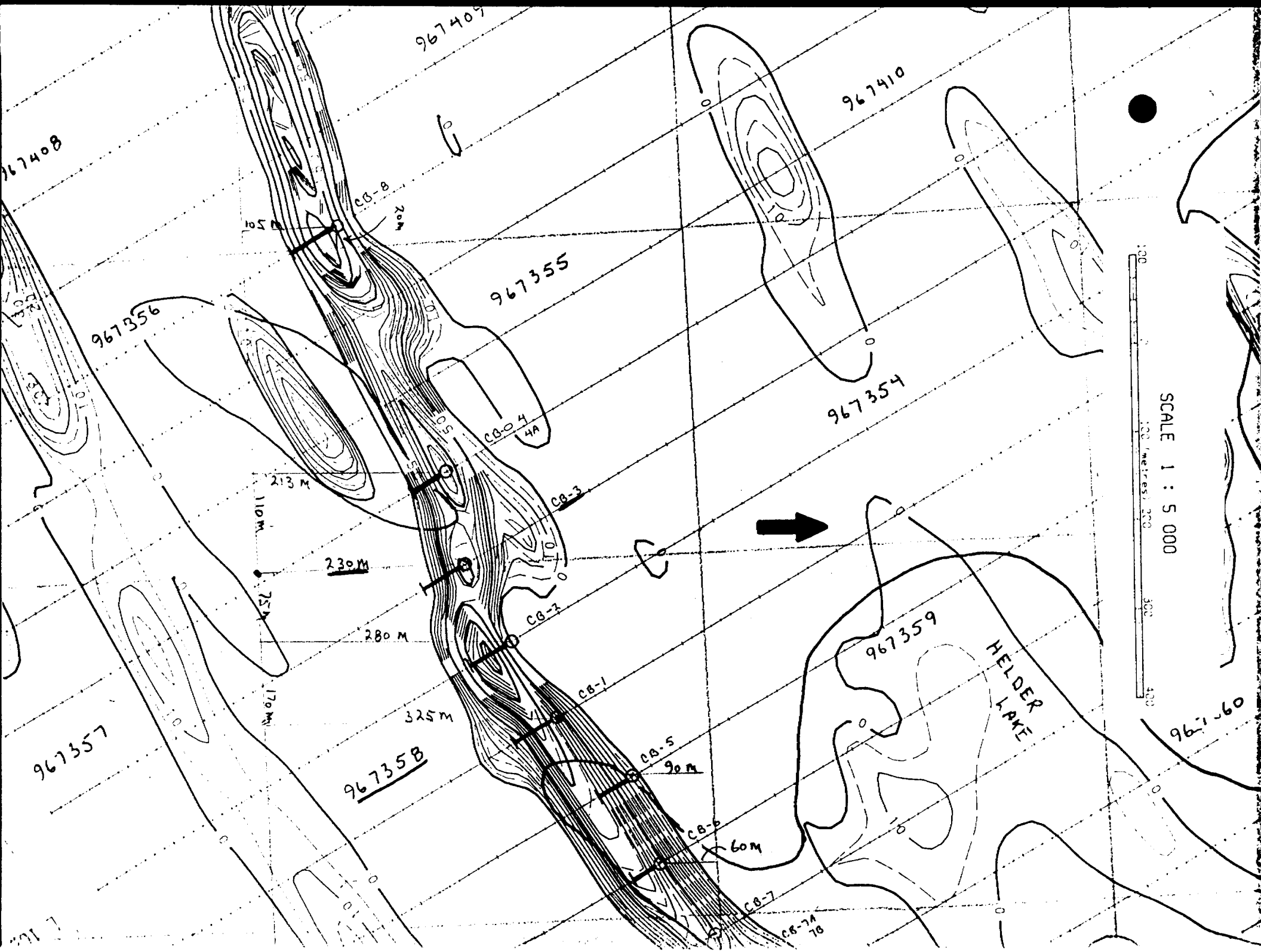
R.C. Chant Per Paul Barc

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-2

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
		78.8' - 79.4' Aspy 1%	75	85.80	87.00	1.40	16	0.16	55	80	6	90	10.50
		79.4' - 80.5' Aspy .1'-<5%	76	87.00	89.30	2.30	52	0.13	1000	40	4	49	7.95
		80.5' - 81.3' py,garnet	77	89.30	93.00	3.70	88	0.11	870	25	1	17	11.60
		81.3' - 81.8' qv,Aspy <1%	78	93.00	93.50	0.50	124	0.07	2100	14	2	29	21.00
		81.8' - 82.5' qv,Aspy >1%	79	93.50	94.00	0.50	30	0.05	540	13	2	4	3.07
		82.5' - 83.7' py,Aspy <1%	80	94.00	95.00	1.00	34	0.08	154	20	2	15	10.80
		83.7' - 84.5' py	81	95.00	96.00	1.00	58	0.06	980	18	2	19	12.00
		84.5' - 85.6' garnet,py	82	96.00	96.60	0.60	470	0.23	8000	84	5	11	10.80
		85.6' - 87.0' Aspy<1%	83	96.60	98.40	1.80	112	0.10	1140	33	3	15	10.60
		87.0' - 89.3' Aspy>1%,py	84	98.40	100.40	2.00	72	0.11	1610	42	0	14	11.90
		89.3' - 93.0' py	85	100.40	100.90	0.50	2060	1.02	132000	83	1	8	16.00
		93.0' - 93.5' Aspy>1%,py	86	100.90	103.30	2.40	44	0.11	4300	34	0	16	11.40
		93.5' - 94.0' qv,Aspy 1%,py	87	103.30	108.30	5.00	50	0.12	1330	38	0	20	13.50
		94.0' - 95.0' qv,py	88	108.30	113.00	4.70	10	0.05	230	14	0	30	11.00
		95.0' - 96.0' .1'qv,Aspy >1%	89	113.00	113.50	0.50	190	0.08	2500	49	0	68	7.68
		96.0' - 96.6' qv,Aspy 1-3mm stringer,Aspy>5%	90	113.50	114.50	1.00	54	0.06	180	10	1	83	5.02
		96.6' - 98.4' Aspy>5%	91	114.50	115.10	0.60	416	0.17	1420	51	0	10	12.20
		98.4' -100.4' Aspy1%	92	115.10	116.90	1.80	12	0.39	131	28	0	34	9.86
		100.4'-100.9' Aspy massive-20%,py1%	93	116.90	119.00	2.10	6	0.16	160	95	0	46	4.51
		100.9'-103.3'											
		103.3'-108.3' Aspy<1%											
		108.3'-113.0'											
		113.0'-113.5' py 1%											
		113.5'-114.5' garnetiferous											
		114.5'-115.1' Aspy 1%,py											
		115.1'-116.9' garnetiferous											
		116.9'-119.0' garnets											
		119.0'-120.0' contact Amphibolite											
119.0	247.0	AMPHIBOLITE (B.AMPH)	94	119.00	120.00	1.00	12	0.13	150	88	1	26	3.27
		Green black,weakly pale banded,similar to previous AMPH.	95	172.10	172.60	0.40	60	0.30	12	560	0	38	4.94
		Minor py-pyhr .05-.1'conformable stringers-3.	96	240.00	240.50	0.50	6	0.17	130	60	1	40	3.67
		SAMPLE RECORD											
		172.0'-172.5' py-pyhr .1' stringer											
		240.0'-240.5' .05' py stringer											
247.0		E.O.H.											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HELDER LAKE
SCALE 1 : 5 000
CB-8
CB-4
CB-3
CB-2
CB-1
CB-5
CB-6
CB-7
CB-7A
105 M
213 M
110 M
230 M
280 M
170 M
325 M
90 M
60 M
70

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-3
Collar Eastings: 10700.00
Collar Northings: 10140.00
Collar Elevation: 0.00

Collar Inclination: -45.00
Grid Bearing: 180.00
Final Depth: 256.00 feet

Logged by: P. Barc
Date: Feb.6-8 89
Down-hole Survey: -

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
0.0	30.0	CASING (CAS)											
30.0	36.5	MASSIVE SULPHIDE BRECCIA (MS BX)	97	30.00	31.00	1.00	12	0.40	72	196	4	68	16.10
		Subangular pebble to coarse grain qtz.+Amphib. clasts,matrix fg	98	31.00	32.40	1.40	10	0.40	83	300	1	52	18.40
		fg pyhr+((py)). Sulphides 70%,qtz.+Amph.30%Decreased brecciation&	99	32.40	33.00	0.60	8	0.20	58	22	6	63	6.61
		sulphide content by 36.5.Weak foliation at 45 to CA.Intermittent	100	33.00	33.80	0.80	4	0.12	56	12	0	9	4.26
		quartz 'vien'features,<.1'to.8',with py+ate dissem+stringers.	101	33.80	36.00	2.20	36	0.34	71	76	1	26	9.99
		SAMPLE RECORD	102	36.00	36.50	0.50	30	0.28	69	109	0	25	9.27
		30.0'-31.0' qtz-py vien											
		31.0'-32.4' S Bx											
		32.4'-33.0' qtz-garnet-py<5% 'vien' in S BX.											
		33.0'-33.8' qtz-py-ate 'vien' in S BX.											
		33.8'-36.0' py,pyhr											
		36.0'-36.5 py fine stringers in siliceous'vien'											
36.5	44.0	QUARTZITE (QTZ'TE)	103	36.50	38.00	1.50	30	0.17	200	27	0	13	8.80
		Weakly banded at 40 to CA.minor(<10%) dissem.fg ate+	104	38.00	39.50	1.50	32	0.18	54	30	0	18	12.50
		fg.ate conformable stringers.Minor disseminated py+1-2mm. conf.	105	39.50	41.00	1.50	8	0.14	24	12	0	9	6.31
		stringers.Minor xcut fractures (1-2 mm.) with py-qtz infillings.	106	41.00	42.00	1.00	14	0.14	56	16	0	14	8.23
		43.5-44. Minor (<10%)Aspy f-cg euhedra.	107	42.00	43.50	1.50	24	0.16	8300	20	1	7	6.85
		SAMPLE RECORD	108	43.50	44.00	0.50	94	0.13	12700	6	0	10	8.47
		36.5'-38.0' quartzite,dissem ate.,<10%,py1% dissem fg.											
		38.0'-39.5' garnets,dissem ate,minor py fine stringers.											
		39.5'-41.0' qtz-py-ate 'vien',<1% fg Aspy dissem.grains.											
		41.0'-42.0' " "											
		42.0'-43.5' qtz-py-ate,garnets											
		43.5'-44.0' Aspy f-cg euhedra,along foliation planes.											
44.0	88.5	BANDED IRON FORMATION (BIF)	109	44.00	45.00	1.00	24	0.09	1440	5	0	9	8.20
		Weakly to well banded at 30-40 to CA.Banded black/grey green.	110	45.00	46.30	1.30	178	0.22	2500	7	0	9	10.90
		Fg qtz/qtz-ate-bte-green amphibole. Disseminated fg py +1-2mm	111	46.30	47.00	0.70	114	0.16	4500	18	0	16	13.30
		stringers.(py<<5% 44-88.5) Minor disseminated f-mg Aspy irreg.	112	47.00	47.50	0.50	32	0.07	2800	32	0	18	12.20
		distributed thru BIF.Minor crosscut fractures.	113	47.50	48.10	0.60	8	0.22	230	30	1	11	7.09
		85-87.0 Garnetif.IF,aspy (50% f-mg pink garnet,50% to 0% by BT.)	114	48.10	49.50	1.40	38	0.13	1530	22	0	22	10.35
		SAMPLE RECORD	115	49.50	50.60	1.10	164	0.16	2200	33	1	11	7.50
		44.0'-45.0' fg py >1%,fgaspy 1%	116	50.00	51.10	0.50	900	0.48	4300	86	4	7	14.00
		45.0'-46.3' Aspy	117	51.10	51.70	0.60	40	0.17	3100	33	1	9	12.30
		46.3'-47.0' f-cgAspy+py dissem.grains+stringers,2-1mm.aspy>1%.	118	51.70	52.40	0.70	32	0.16	2500	30	1	10	11.60
		47.0'-47.5' fg py ,aspy,stringers 2-1mm.	119	52.40	53.30	0.90	48	0.11	1420	15	0	9	10.60
		47.5'-48.1' py 30%,fractured quartzite	120	53.30	55.80	2.50	26	0.18	850	22	1	40	10.80
		48.1'-49.5' Aspy'1%	121	55.80	56.60	0.80	26	0.35	127	30	0	25	5.16
		49.5'-50.6' minor fg py	122	56.60	58.10	1.50	74	0.32	1310	35	1	57	6.80

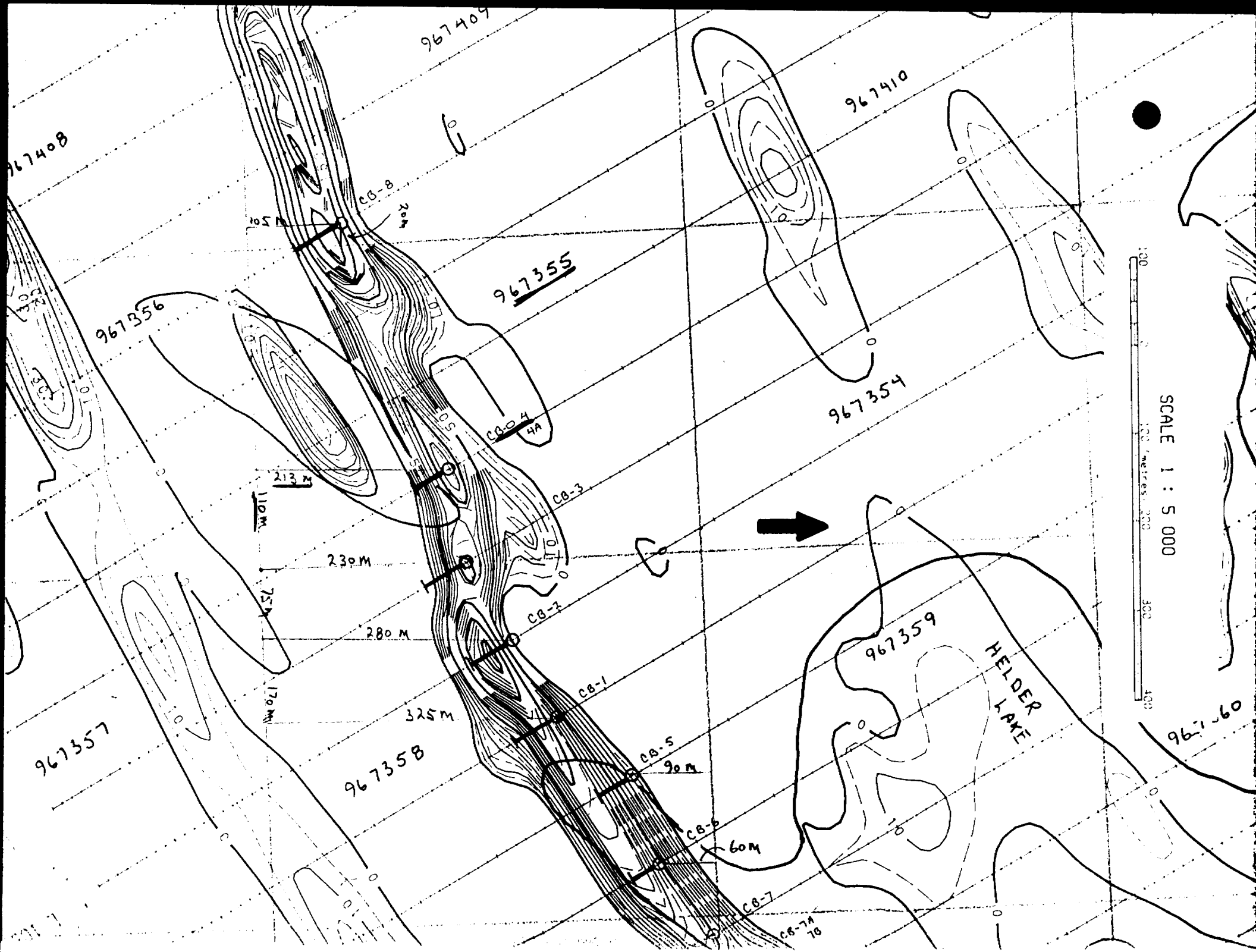
per Paul Barc.

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-3

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
		50.6'-51.1' qtz-py massive vien,vfg Aspy1%.	123	50.10	50.20	1.10	624	0.26	4400	34	1	10	8.11
		51.1'-51.7' dissem.,fg Aspy <5%,in siliceous bands.	124	50.30	61.80	0.60	236	0.10	1390	54	0	16	16.00
		51.7'-52.4' py stringers,Aspy<5%.	125	61.80	62.30	0.50	176	0.16	570	31	1	10	7.80
		52.4'-53.3' siliceous,dissem Aspy+py <2%.	126	62.30	63.80	1.50	86	0.12	840	14	0	16	12.00
		53.3'-55.8' minor fgAspy.	127	63.80	64.50	0.70	146	0.16	1770	20	0	12	9.03
		55.8'-56.6' qtz-py<1% "vien"	128	64.50	65.20	0.70	96	0.15	980	26	0	11	7.05
		56.6'-58.1' garnets,fg Aspy trace	129	65.20	66.60	1.40	210	0.09	1800	18	0	27	15.70
		58.1'-59.2' dissem. Aspy,fg cluster-stringer 1-3mm.	130	66.60	67.10	0.50	392	0.18	8700	26	1	14	10.60
		59.2'-61.8' garnets,trace py	131	67.10	69.50	1.40	146	0.14	1410	35	0	23	12.30
		61.8'-62.3' >1% fg Aspy in 1mm stringers.	132	68.50	69.00	0.50	168	0.15	1200	32	1	23	8.29
		62.3'-63.8' minor fg py+aspy disseminated grains.	133	69.00	69.80	0.80	166	0.13	750	17	0	45	11.60
		63.8'-64.5' 2mm Aspy-py stringer in .1'qv,minor dissem Aspy.	134	69.80	74.30	4.50	11	0.11	94	29	2	31	10.10
		64.5'-65.2' qtz-mte-py10%-Aspy>1% "vien"	135	74.30	74.80	0.50	78	0.16	7000	58	7	123	4.94
		65.2'-66.6' green>white bands,2-3mm fg Aspy stringers.	136	74.80	75.80	1.00	144	0.31	2800	92	6	199	8.39
		66.6'-67.1' Dest Aspy-4mm conf.stringer,minor py.	137	75.30	76.30	0.50	148	0.13	3050	35	1	22	9.50
		67.1'-68.5' Aspy1-5%,garnets.	138	76.30	77.90	1.60	72	0.14	540	32	2	16	10.60
		68.5'-69.0' Aspy+py in garnetif.IF,slight xyloxitic texture.	139	77.90	78.60	0.70	154	0.12	2800	23	0	8	13.30
		69.0'-69.8' vfg dissem.Aspy >5%	140	78.60	80.20	1.60	6	0.10	480	14	0	12	11.50
		69.8'-74.3' Aspy<<1%,minor py	141	80.20	80.70	0.50	12	0.12	470	23	2	21	9.00
		74.3'-74.8' garnets,Aspy f-mg dissem grains+clusters>5%	142	80.70	84.50	3.80	8	0.11	188	24	2	83	6.34
		74.8'-75.8' " " " " "	143	84.50	85.00	0.50	8	0.13	180	30	0	18	10.90
		75.8'-76.3' massive Aspy-py 3mm stinger.	144	85.00	86.00	1.00	22	0.08	320	13	3	61	4.72
		76.3'-77.9' minor 2mmAspy-py stringer.	145	86.00	86.60	0.60	1	0.07	22	3	3	52	3.08
		77.9'-78.6' minor Aspy,py	146	86.60	87.50	0.90	16	0.08	150	18	0	23	8.74
		78.6'-80.2' qvs	147	87.50	88.00	0.50	0	0.13	1810	126	0	21	10.10
		80.2'-80.7' garnets,trace Aspy											
		80.7'-84.5' qvs,garnets											
		84.5'-85.0' minor Aspy											
		85.0'-86.0' minor Aspy,garnets											
		86.0'-86.6' 20%garnet,qvs											
		86.6'-87.5' no garnets,qvs											
		87.5'-88.0' 1mm conformable Aspy stringer											
		88.0'-88.8' CONTACT+Banded Amphibolite,qvs.											
38.5	256.0	AMPHIBOLITE (B AMPH)	148	88.00	89.00	1.00	4	0.13	100	92	1	20	3.50
		Banded,weakly to moderately banded at 30 to CA.											
		vfg.,green black color,with 1-2mm pale bands (silicification).											
		Homogenous texture,minor (2 3.) epidote-quartz altered sections.											
256.0		P.O.H.											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7B
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213 M
110 M
230 M
280 M
325 M
90 M
60M
HELDER LAKE
SCALE 1 : 5 000
100
0
metres
200
300
400

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-4
Collar Eastings: 10600.00
Collar Northings: 10175.00
Collar Elevation: 0.00

Collar Inclination: -60.00
Grid Bearing: 180.00
Final Depth: 196.00 feet

Logged by: P. Barc
Date: Feb.8-11 89
Down-hole Survey: -

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
0.0	58.0	CASING (CAS)	148	54.00	54.50	0.50	4	0.09	100	92	1	20	3.50
58.0	76.0	AMPHIBOLITE (B AMPH)	149	67.30	67.80	0.50	6	0.10	47	330	4	15	2.65
		Weakly banded green black/white to fg mottled chl-amph-schist at 76	150	72.70	73.30	0.60	10	0.13	74	53	6	8	3.50
		Well foliated at 50 to CA.Abundant x fractures,inhomog.texture.	151	73.30	74.30	1.00	4	0.06	59	32	7	11	1.52
		66-67 weakly xylonitic texture.	152	74.30	75.50	1.20	10	0.09	54	11	5	16	1.49
		67.5,68. isolated qtz-garnet-chl.,Aspy 5% pods.											
		SAMPLE RECORD											
		58.0'-58.5' chl-qtz-py1% 'vien'											
		67.3'-67.8' " " " " +Aspy 3-5mm fg clusters.											
		72.7'-73.3' siliceous amphibolite, minor fg py.											
		73.3'-74.3' " " more qtz,py>1%											
		74.3'-75.5' " " minor fg py.											
76.0	83.3	MASSIVE SULPHIDE BRECCIA (MS BX)	153	76.50	78.50	2.00	52	1.24	143	330	3	78	32.00
		Subrounded qtz clasts,pebble to cg.,40%,in a matrix of pyhr(40%,	154	78.50	80.50	2.00	104	1.08	131	340	2	73	33.00
		gradational to pyhr+minor py,pyhr+py stringers in siliceous rock.	155	80.50	83.30	2.80	114	0.65	38	270	0	180	35.20
		pyhr.20%,py 5%,in quartzite (siliceous) rock,by 83.3'.											
		SAMPLE RECORD											
		76.5'-78.5' pyhr(40%,minor py											
		78.5'-80.5' pyhr35%,py5%,as pebble size knots in pyhr-mg qtz matrix											
		80.5'-83.3' pyhr(40%py trace,siliceous.											
83.3	109.0	QUARTZITE (QTZ'TE)	156	83.30	86.30	3.00	32	0.27	148	72	3	146	8.62
		Weakly banded,qtz/garnet-py,bte+ mte. ,minor pyhr diss.+stringers	157	86.30	88.30	2.00	18	0.13	84	65	2	13	6.11
		qtz.-py-Aspy "vieas",6-.5',Aspy>1%,py strings in qtzite lam,<10%.	158	88.30	89.60	1.30	18	0.21	68	59	1	16	7.36
		Minor cross fractures.	159	89.60	91.00	1.40	12	0.38	111	65	2	49	8.45
		SAMPLE RECORD	160	91.00	92.20	1.20	22	0.19	250	49	6	57	5.51
		83.3'-86.3' pyhr+py	161	92.20	96.30	4.10	16	0.41	92	71	2	33	7.89
		86.3'-88.3' pyhr+py>10%	162	96.30	97.30	0.90	38	0.36	92	98	1	26	15.60
		88.3'-89.6' pyhr+py	163	97.20	98.00	0.80	24	0.36	29	99	1	29	9.73
		89.6'-91.0' "	164	98.00	99.00	1.00	22	0.30	55	73	0	17	8.51
		91.0'-92.2' py+pyhr diss.fg,>10%,Aspy>2%	165	99.00	101.10	2.10	14	0.26	44	62	1	28	7.24
		92.2'-96.3' minor py+pyhr	166	101.10	102.00	0.90	18	0.32	68	52	1	14	7.03
		96.3'-97.2' Sulphide breccia,py>>pyhr py>40%?	167	102.00	103.00	1.00	12	0.21	92	35	0	50	11.90
		97.2'-98.0' py/pyhr disseminated fg+stringers.	168	103.00	104.50	0.70	12	0.26	110	27	0	26	10.50
		98.0'-99.0' diss py+pyhr	169	104.50	105.30	0.80	13	0.15	45	20	0	30	8.35
		99.0'-101.1' siliceous,py+pyhr	170	105.30	105.90	0.60	12	0.16	77	22	0	23	7.07
		101.1'-102.0' 10% py stringers.	171	105.90	107.40	1.50	26	0.21	1290	15	3	31	6.36
		102.0'-103.8' garnetiferous,5%mte agclusters,disseo.py+pyhr<10%.	172	107.40	108.00	0.60	18	0.18	900	36	1	19	7.49
		103.8'-104.5' garnet,Aspy+py disseminated fg.											
		104.5'-105.3' garnet,mte disseo.,avAspy.											

H C Champ per Paul Barc

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-4

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
		105.3'-105.9' qtz-pyhr-py green vien,py+pyhr in xcut fract. infill											
		105.9'-107.4' garnets,py+pyhr minor,trace fg diseem. Aspy.											
		107.4'-108.0' garnets,Aspy 1%,trace py.											
		108.0'-109.2' garnet,fg Aspy>2%,in garnet-green black bands.											
109.0	134.0	BANDED IRON FORMATION (BIF)	173	108.00	109.20	1.20	12	0.12	610	31	3	13	6.70
		Weakly to well banded at ~20 to CA. Minor garnetiferous sections.	174	109.20	110.50	1.30	12	0.06	630	6	0	15	9.26
		Minor pyhr(5%),py(2%),Aspy(<1%) mineralisation.color grey-black with	175	110.50	112.50	2.00	8	0.08	230	11	1	16	7.78
		green black bands,garnetiferous sections up to 40% garn over >1.	176	112.50	115.10	2.60	46	0.15	1340	9	6	8	7.39
		Green bands chl rich,dark bands qtz+diseen. ate.	177	115.10	117.20	2.10	12	0.11	1020	6	1	11	9.32
		109.'to 116.' garnetiferous,blocky core,114.5-.8' broken core.Aspy.	178	117.20	118.90	1.70	10	0.14	310	22	4	22	8.47
		116.'to 119.' garnetiferous,Aspy+py.	179	118.90	119.00	0.90	12	0.16	31	29	3	19	9.85
		119.'to 122.' siliceous	180	119.00	120.60	0.80	6	0.12	38	19	2	7	5.70
		122.'to 124.' garnetiferous,green banded bif+minor Aspy along fol'n	181	120.60	121.10	0.50	12	0.12	125	23	2	11	7.83
		126.5'to129.' garnetiferous.	182	121.10	121.60	0.50	10	0.30	47	59	2	15	13.80
		129 to133.5'green-grey bif	183	121.60	122.10	0.50	36	0.20	141	42	7	81	7.46
		133.5'to134.' garnets	184	122.10	122.60	0.50	26	0.19	27	45	7	68	7.50
		SAMPLE RECORD	185	123.60	124.20	1.60	24	0.13	137	30	3	49	7.00
		109.2'-110.5' minor py+pyhr.	186	124.20	124.70	0.50	196	0.11	5100	29	1	16	8.93
		110.5'-112.5' minor Aspy,py,garnets,pitted texture.	187	124.70	125.30	0.60	78	0.08	1090	15	2	25	7.13
		112.5'-115.1' " " " " " " ,rusty fractures.	188	125.30	126.50	1.20	74	0.16	1160	26	3	29	8.36
		115.1'-117.2' garnet,fg Aspy disseminated grains.	189	126.50	127.60	1.10	34	0.12	910	28	3	17	6.34
		117.2'-118.7' minor py +ste along s fractures.	190	127.60	128.90	1.30	76	0.08	450	11	0	16	7.59
		118.7'-119.8' qtz-chl-bte? pyhr2%,py1% "vien"	191	128.90	129.40	0.50	170	0.14	2170	23	1	16	16.30
		119.8'-120.6' " " " "	192	129.40	130.60	1.20	42	0.11	800	21	0	16	15.20
		120.6'-121.1' " " " "	193	130.60	131.50	0.90	202	0.19	1560	42	3	18	12.30
		121.1'-122.1' garnets,minor Aspy	194	131.50	132.80	1.30	58	0.13	760	31	0	15	14.10
		122.1'-122.6' " " diseen +lns conformable stringer	195	133.50	134.00	0.50	220	0.18	1650	35	2	19	14.50
		122.6'-124.2' " "											
		124.2'-124.7' qv-chl-Aspy-pyhr											
		124.7'-125.3' " " " " 2% Aspy											
		125.3'-126.5' " " " " .2'broken core											
		126.5'-127.6' garnets,2-lns Aspy stringers											
		127.6'-128.9' " avAspy											
		128.9'-129.4' 2-lns Aspy stringers											
		129.4'-130.6' pyhr aspy											
		130.6'-131.5' pyhr+aspy											
		131.5'-132.8' pyhr+aspy											
		132.8'-133.5' fg Aspy											
		133.5'-134.0' garnets,pyhr+aspy trace											
134.0	136.8	MASSIVE SULPHIDE BRECCIA (MS BX)	196	134.00	135.10	1.10	140	0.31	1100	123	1	9	10.40
		70% pyhr matrix,minor aspy (<<1%),30% qtz fg,rounded clasts,	197	135.10	136.00	0.90	242	0.44	184	192	1	5	28.60
		well sorted grain size.homogeneous texture.	198	136.00	136.80	0.80	134	0.77	820	126	3	4	39.00

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-4

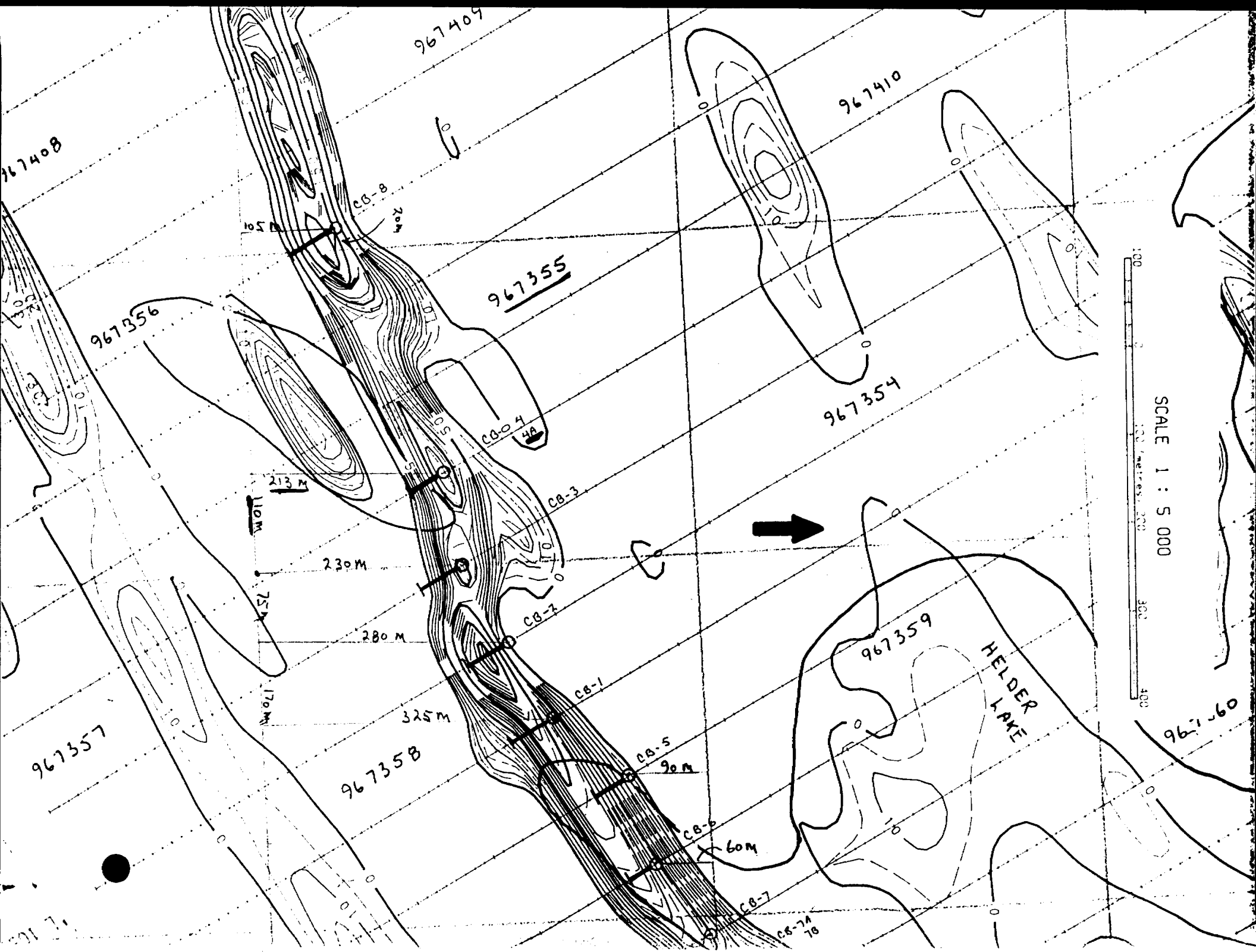
FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
		SAMPLE RECORD											
		134.0'-135.1' aspy<5%,pyhr.50%.											
		135.1'-136.0' pyhr>50%											
		136.0'-136.8' 3-mgAspy,pyhr											
137.0	169.5	BANDED IRON FORMATION (BIF)	199	136.80	137.70	0.90	36	0.12	410	24	2	13	6.92
		Grey/green black,fg qtz/mte-chl-amph banded at 50-60 to CA.Minor	200	137.70	138.20	0.50	194	0.15	670	41	1	10	9.73
		pyhr-py-aspy(<1%) stringers +disseminated pyhr-py-aspy grains.	201	138.20	139.10	0.90	64	0.13	660	33	1	23	9.64
		Minor garnetiferous sections.	202	139.10	140.20	1.10	92	0.08	198	14	1	19	7.05
		SAMPLE RECORD	203	140.20	143.50	3.30	32	0.08	350	11	0	43	13.20
		136.8'-137.7' garnet,pyhr aspy 2-3mm stringers.	204	143.50	143.50	1.00	34	0.07	230	9	0	24	11.80
		137.7'-138.2' " " " "	205	143.50	146.00	2.50	8	0.09	41	10	0	15	9.03
		138.2'-139.1' trace Aspy	206	146.00	146.80	0.80	60	0.11	360	14	1	22	8.45
		139.1'-140.2' garnets,fg Aspy	207	146.80	149.00	2.20	34	0.13	200	28	0	39	9.90
		140.2'-142.5' " "	208	149.00	149.50	0.50	410	0.16	3200	13	0	22	14.60
		142.5'-143.5' garnet,py+pyhr disem+unconformable stringers.	209	149.50	150.10	0.60	46	0.08	660	21	0	29	10.80
		143.5'-146.0' py,fg Aspy trace	210	150.10	151.00	0.90	38	0.08	540	16	0	21	10.50
		146.0'-146.8' pyhr>1%,py<1%,trace Aspy ,garnet	211	151.00	151.80	0.80	296	0.20	1600	36	0	28	10.10
		146.8'-149.0' " " " "	212	151.80	152.80	1.00	34	0.27	540	79	0	95	9.01
		149.0'-149.5' " " " "	213	152.80	153.50	0.70	34	0.14	236	56	0	94	9.47
		149.5'-150.1' pyhr+Aspy trace	214	153.50	154.10	0.60	986	0.47	2390	101	7	129	9.40
		150.1'-151.0' " " "	215	154.10	155.40	1.30	28	0.09	240	32	0	54	12.20
		151.0'-151.8' garnet,pyhr+aspy	216	155.40	156.10	0.70	10	0.06	95	8	3	39	5.38
		151.8'-152.8' garnet,qtz vien,minor ag aspy	217	156.10	158.70	2.60	556	0.19	4900	41	0	11	18.10
		152.8'-153.5' " " " "	218	158.70	160.40	1.70	14	0.10	560	34	23	16	10.80
		153.5'-154.1' " " " "	219	160.40	161.60	1.10	2	0.08	17	5	13	32	3.04
		154.1'-155.4' avs	220	161.60	163.80	2.30	2	0.09	12	4	11	22	1.87
		155.4'-156.1' garnets,avs	221	163.80	165.00	1.20	22	0.18	48	42	58	25	8.90
		156.1'-158.7' f-medium grained Aspy.	222	165.00	167.30	2.30	10	0.06	127	3	2	33	4.33
		158.7'-160.4' garnet,weakly sylonitic,minor pyhr,.5'blocky core.	223	167.30	169.50	2.20	28	0.12	132	44	9	22	8.81
		160.4'-161.5' garnets,avs											
		161.5'-163.8' muscovitic quartzite,avs											
		163.8'-165.0' avs											
		165.0'-167.3' "											
		167.3'-169.5' "											
		169.5'-172.0' Contact,altered amphibolite,avs.											
169.5	196.0	AMPHIBOLITE (B AMPH)	224	169.50	172.00	2.50	8	0.13	184	86	6	16	1.46
		Weakly banded (white)/green,vfg chl-amph-plag/qtz -plag banding.	225	181.00	182.00	1.00	8	0.08	52	59	4	15	2.76
		minor conjugate fractures(crescent frace.),abundant blocky core	226	184.00	186.00	2.00	34	0.09	113	690	8	25	5.18
		plus broken core.Foliated at 45-50 to CA.	227	193.00	195.00	2.00	40	0.16	250	138	2	26	2.30
		SAMPLE RECORD											
		181-182 Broken core											
		184-186 hematite stain,carbonate+qtz.,broken core.											

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-4

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
		193-195 minor carbonate-chl-qtz-garnet pods(.05,.2)											
196.0		E.O.H.											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CB-8
CB-4
CB-3
CB-2
CB-1
CB-5
CB-6
CB-7
CB-7A
105 M
213 M
230M
280 M
325M
90 M
60M
HELDER LAKE
SCALE 1 : 5 000

CHAMPION BEAR RESOURCES LTD.

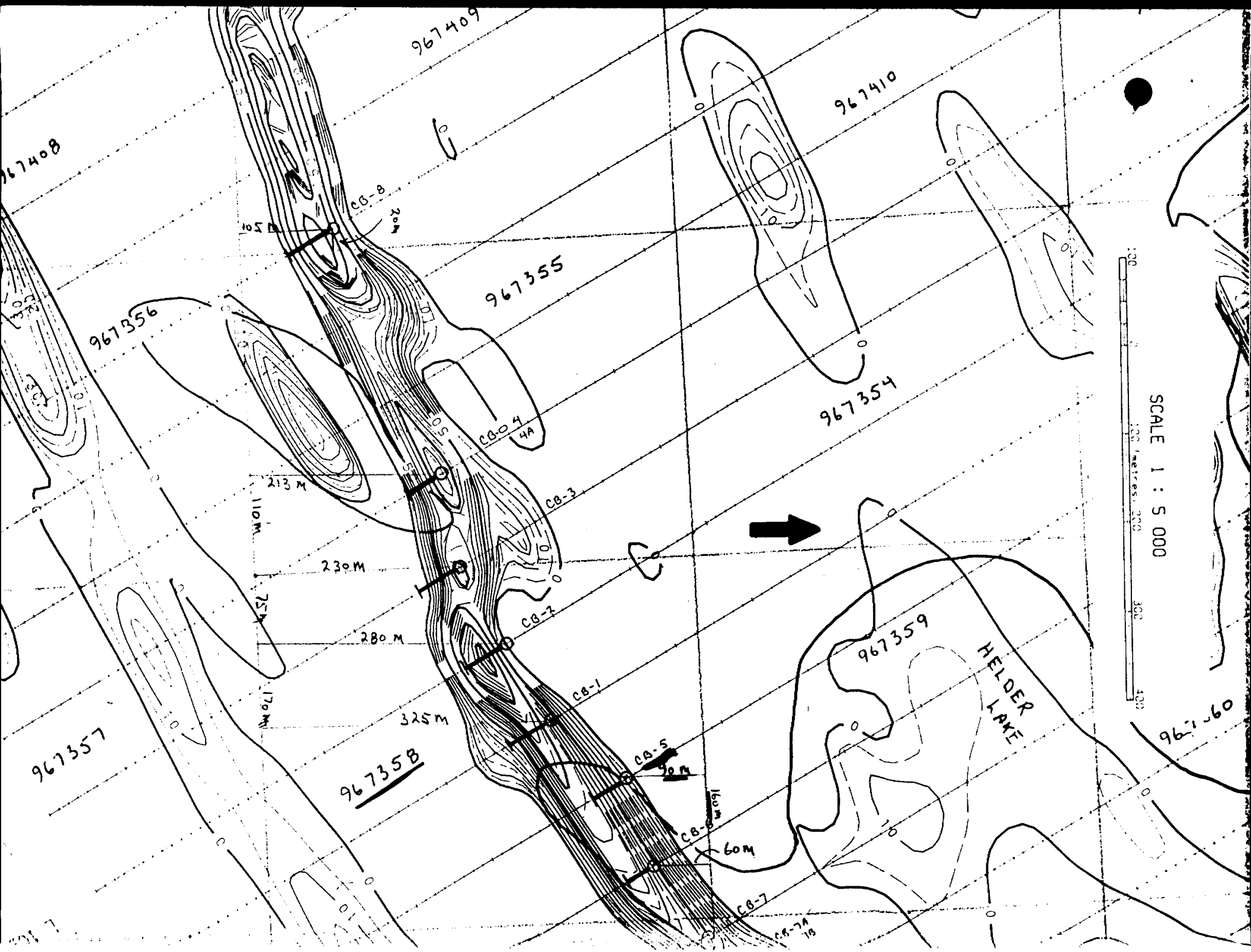
DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-4A
Collar Eastings: 10600.00
Collar Northings: 10175.00
Collar Elevation: 0.00

Date:
Logged by: P. Barc
Collar Inclination: -45.00
Grid Bearing: 180.00
Final Depth: 40.00 feet

FROM	TO	LITHOLOGICAL DESCRIPTION
0.0	60.0	CASING (CAS)
	0.0	F.O.H.

per Paul Barc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967357
967358
HELDER LAKE
SCALE 1 : 5 000
CB-8
CB-4
CB-3
CB-2
CB-1
CB-5
CB-6
CB-7
105 M
213 M
110 M
230 M
280 M
325 M
90 M
160 M
60 M

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-5
Collar Eastings: 11000.00
Collar Northings: 10175.00
Collar Elevation: 0.00

Collar Inclination: -45.00
Grid Bearing: 180.00
Final Depth: 201.00 feet

Logged by: P. Barc
Date: Feb.11-12 89
Down-hole Survey: -

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
0.0	62.0	CASING (CAS)											
62.5	75.0	AMPHIBOLITE (B AMPH) Dark green, fine grained, weakly banded, mottled, salt and pepper texture, foliated at 35 to C.A. 68.0 - 69.0 minor disseminated ate in banded amphibolite	228	68.00	69.00	1.00	10	0.10	310	198	1	18	3.31
75.0	77.5	GRANITIC DIKE (GRAN) Gradational upper and lower contacts, pale green alteration of amphibolite near contacts											
77.5	79.3	AMPHIBOLITE (B AMPH) Similar to above, non fractured, variable texture, minor conjugate fractures and minor extensional lun fracture infillings with silica, PT,amphibole, minor disseminated magnetite increasing 68' 69'.Pyhr+py dissen.grains+fine stringers SAMPLE RECORD 78.5 - 79.5 disseminated and stringers PHYR+PT											
79.3	82.8	MASSIVE SULFIDE BRECCIA (MS BX) Subrounded clasts, pebble size to mainly fine grained,quartz+ amphibolite composition, set in a matrix of fine grained PHYR and minor PT, similar to CB-1.Pyhr~70%,pyhr>>py,clasts 30%. SAMPLE RECORD 79.5 - 82.8 sulfide breccia	229	78.50	79.50	1.00	10	0.10	240	240	1	31	3.10
82.8	92.3	BANDED IRON FORMATION (BIF) Black,finely white banded,garnet zones near middle+base,with qv. Sections silicified,minor x fractures.Well foliated at ~40 toC.A. *Minor fg pyrAspy conformable stringers 1-2mm.* SAMPLE RECORD 82.8 - 83.3 garnets,py,aspy trace 83.3 - 83.8 minor py 83.8 - 85.0 garnets,irregularinfilling of PT 85.0 - 86.0 siliceous,garnets,py fg dissen+stringe,.03qv+Aspy,chl. 86.0 - 86.5 siliceous, minor garnet 86.5 - 87.0 garnets 87.0 - 90.0 garnets,fg Aspy disseminated. 89.5' 90.0 - 90.5 1-1mm stringers fg Aspy+py,garnets 90.5 - 91.1 silic'd,minor py frac.infill,fgAspy in green.l'band. 91.1 - 92.3 garnetiferous at base, minor fine grained PT+ASPT	230 231 232 233 234 235 236 237 238 239 240	79.50 82.00 83.30 83.80 85.00 86.00 86.50 87.00 90.00 90.50 91.10	82.00 83.30 83.80 85.00 86.00 86.50 87.00 90.00 90.50 91.10 91.30	2.50 1.30 0.50 1.20 1.00 0.50 0.50 3.00 0.50 0.60 1.20	100 16 10 16 24 40 24 14 50 8 10	0.76 0.38 0.15 0.26 0.11 0.17 0.11 0.10 0.15 0.17 0.03	104 53 58 36 63 360 161 430 8100 283 305	610 300 33 36 17 44 16 13 33 15 11	2 1 1 1 0 2 0 0 0 0 0	300 116 119 97 30 43 35 25 36 13 35	24.30 10.30 5.97 6.86 7.32 9.38 7.83 14.30 15.50 11.00 13.70

per Paul Barc.

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-5

FROM	TO	LITHOLOGICAL DESCRIPTION
92.3	94.0	AMPHIBOLITE (B AMPH) banded, altered,greenish black,vfg.Well foliated at~40 to C.A. SAMPLE RECORD 92.3 -92.8 92.8 -93.9
94.0	95.7	BANDED IRON FORMATION (BIF) Black,vfg,well white sharp finely banded,garnetiferous near base. Minor diesen.py.Aspy disseminated fg near base of unit. SAMPLE RECORD 93.9 - 95.7 BIF, minor PY+ASPY 95.0 - 95.7 garnetiferous
95.7	137.0	AMPHIBOLITE (B AMPH) Weakly pale banded,fg,salt and pepper texture, altered, variable fractures<1/ft.
137.0	147.0	BANDED IRON FORMATION +AMPHIBOLITE (BIF+AMPH) baked, fine grained, banded, slaty cleavage, garnet-quartz-chlorite-amphibole-PY intercalated (1-2')with banded amphibolite sections,sections wkly to well conductive-ate?garnet grain size decreases from coarse poikioblasts to medium size at 140.5 to fine at 144.0, disseminated fine crystals ASPY 146.5 - 146.9 distinctive siliceous section, quartz-chlorite-amphibole-garnet quartzite
147.0	154.0	AMPHIBOLITE (B AMPH) dark green, fine grained, banded 153.5 - 154.0 sulfide breccia, PY-chlorite-quartz vein
154.0	190.0	AMPHIBOLITE (B AMPH) as before
190.0	194.0	GRANITIC DIKE (GRAN) coarse grained, brecciated K-feldspars, gradational contacts
194.0	194.5	AMPHIBOLITE (B AMPH)
194.5	196.5	GRANODIORITE DIKE (GRANDIO)
196.5	201.0	AMPHIBOLITE (AMPH) weakly to non banded,well foliated,green black color,vfg, homogenous color,texture.

ASSAYS

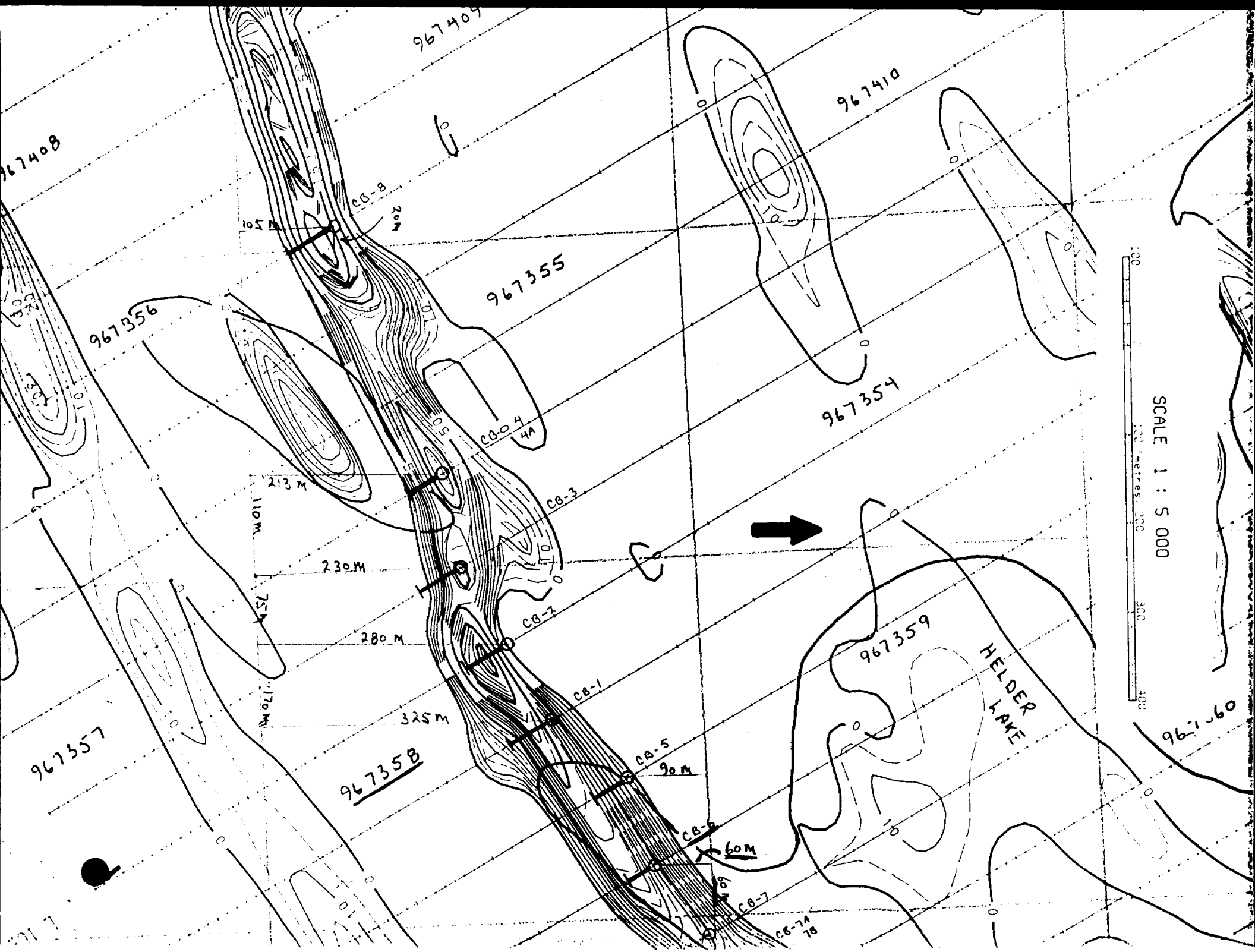
SAMPLE No.	FROM	TO	WIDTH	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
161	92.30	92.80	0.50	14	0.00	169	82	2	13	2.40

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-5

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
301.0	E.O.H.												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CB-8
CB-4
4A
CB-3
CB-2
CB-1
CB-5
CB-6
CB-7
CB-7A
105 M
213 M
110 M
230 M
75 M
280 M
170 M
325 M
90 M
60 M
HELDER LAKE
SCALE 1 : 5 000
100 metres 200 300 400

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-6
Collar Eastings: 11100.00
Collar Northings: 10150.00
Collar Elevation: 0.00

Collar Inclination: -63.00
Grid Bearing: 180.00
Final Depth: 226.00 feet

Logged by: P. Barc
Date: Feb.12-13 89
Down-hole Survey: -

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
0.0	54.0	CASING (CAS)											
53.0	69.0	GRANITIC DIKE (GRAN)											
69.0	80.0	AMPHIBOLITE (B AMPH) 2-.5'granitic dikes,green black,vfg,foliation at 75 to C.A.											
80.0	87.0	MASSIVE SULFIDE BRECCIA (MS BX) Angular amphibolite and quartz pebble clasts,30%,in fine grained PYRR matrix,70%,clasts often weakly magnetic. Py in matrix at top of sulphide breccia. 84.7 to 87.0 Quartzite+pyhr fine stringers. SAMPLE RECORD 80.0'-80.5' py30%,in matrx. 80.5'-84.4' 84.4'-87.0'	342 343 344	80.00 80.50 84.40	80.50 84.40 87.00	0.50 3.90 2.60	30 36 30	0.62 0.77 0.38	37 49 11	171 600 150	6 4 0	31 99 83	31.00 29.60 15.70
87.0	92.5	MASSIVE SULFIDE BRECCIA (MS BX) Quartz and granitic? clasts in fine grained PYRR matrix, finer,rounder clasts than above S BX. SAMPLE RECORD 87.0'-92.5'	345	87.00	92.50	5.50	20	0.72	16	280	0	45	27.50
92.5	93.5	QUARTZITE (QTZ'TE) Minor PY in vuggy stringers SAMPLE RECORD 92.5'-93.5'	346	92.50	93.50	1.00	16	0.63	34	290	0	51	15.50
93.5	94.5	MASSIVE SULFIDE BRECCIA (MS BX) P-ag,rounded quartz clasts in fine grained PYRR SAMPLE RECORD 93.5'-94.5'	347	93.50	94.50	1.00	12	0.64	19	310	0	36	27.60
94.5	99.0	BANDED IRON FORMATION (BIF) Well banded,with minor sylonitic breccia, m-cg,rounded clasts in magnetite-quartz-amphibole matrix ,minor py. SAMPLE RECORD 94.5'-99.0'	348	94.50	98.00	3.50	16	0.06	87	32	1	73	7.24
99.0	161.0	AMPHIBOLITE (AMPH) Fine grained, dark green, weakly banded											

R.C. Clark per Paul Barc.

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-6

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
162.0	168.0	AMPHIBOLITE + GRANITIC DIKES (AMPH-GRAN)											
168.0	226.0	GRANODIORITE (GRANDIO) Medium to coarse grained, well foliated											
226.0		E.O.H.											

CHAMPION BEAR RESOURCES LTD.

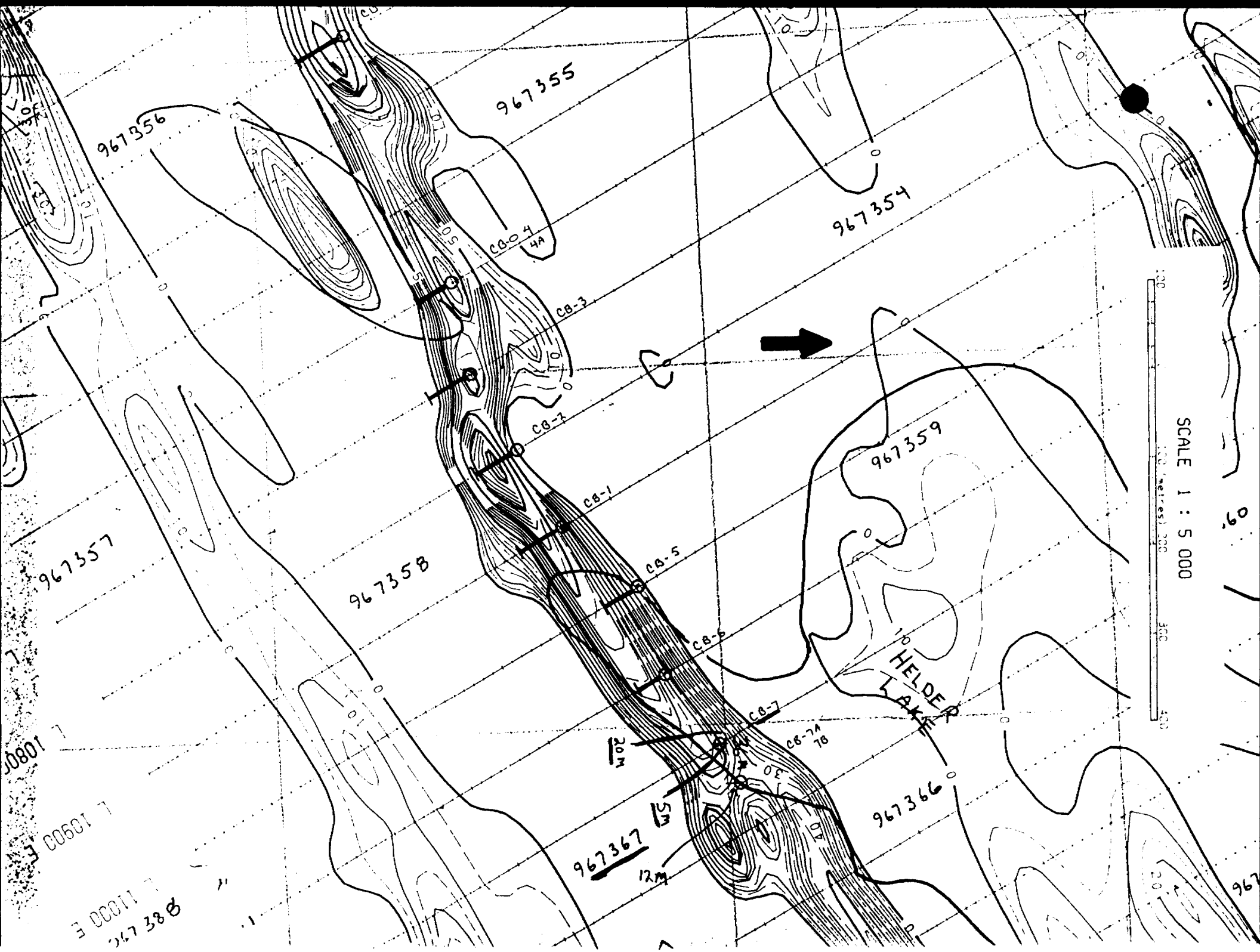
DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-7
Collar Eastings: 11200.00
Collar Northings: 10160.00
Collar Elevation: 0.00

Date:
Logged by: P. Barc
Collar Inclination: -65.00
Grid Bearing: 180.00
Final Depth: 70.00 feet

FROM	TO	LITHOLOGICAL DESCRIPTION
0.0	70.0	CASING (CAS)
70.0		F.O.H.

per Paul Barc.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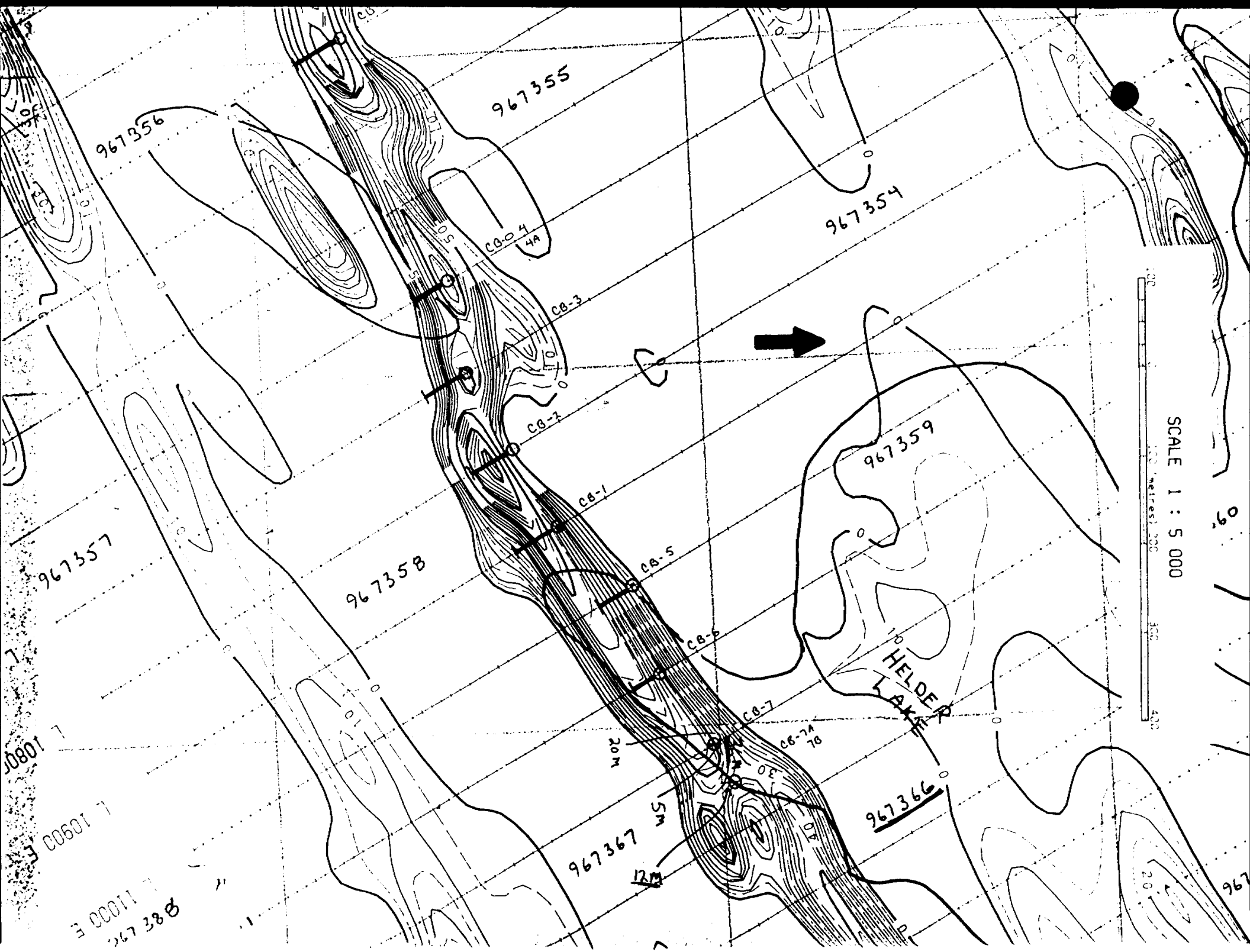
CB-4
4A
CB-3
CB-2
CB-1
CB-5
CB-6
CB-7
CB-7A
7B
HELDER LAKE
SCALE 1 : 5 000
12m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4A
CB-3
CB-2
CB-1
CB-5
CB-6
CB-7
CB-7A
7B
HELDER LAKE
SCALE 1 : 5 000
metres

CHAMPION BEAR RESOURCES LTD.

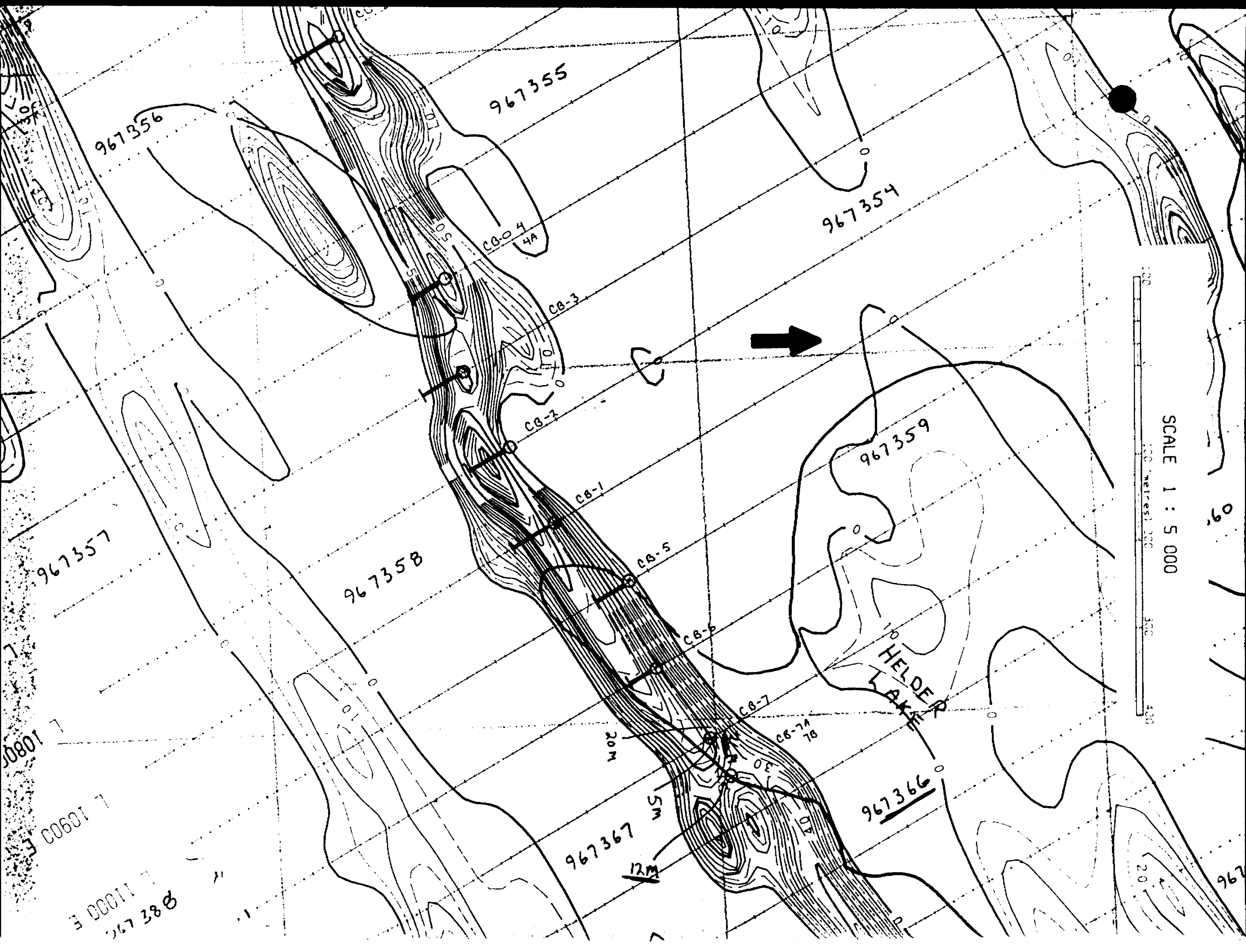
DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-7A
Collar Eastings: 11250.00
Collar Northings: 10160.00
Collar Elevation: 0.00

Date:
Logged by: P. Barc
Collar Inclination: -65.00
Grid Bearing: 180.00
Final Depth: 62.00 feet

FROM	TO	LITHOLOGICAL DESCRIPTION
0.0	62.0	CASING (CAS)
	2.0	F.O.H.

L O Abud per Paul Barc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4A
CB-3
CB-2
CB-1
CB-5
CB-6
CB-7
CB-7A
7B
967359
967357
967358
967366
967367
20M
5M
12M
HELDER
LAKE
SCALE 1 : 5 000

CHAMPION BEAR RESOURCES LTD.

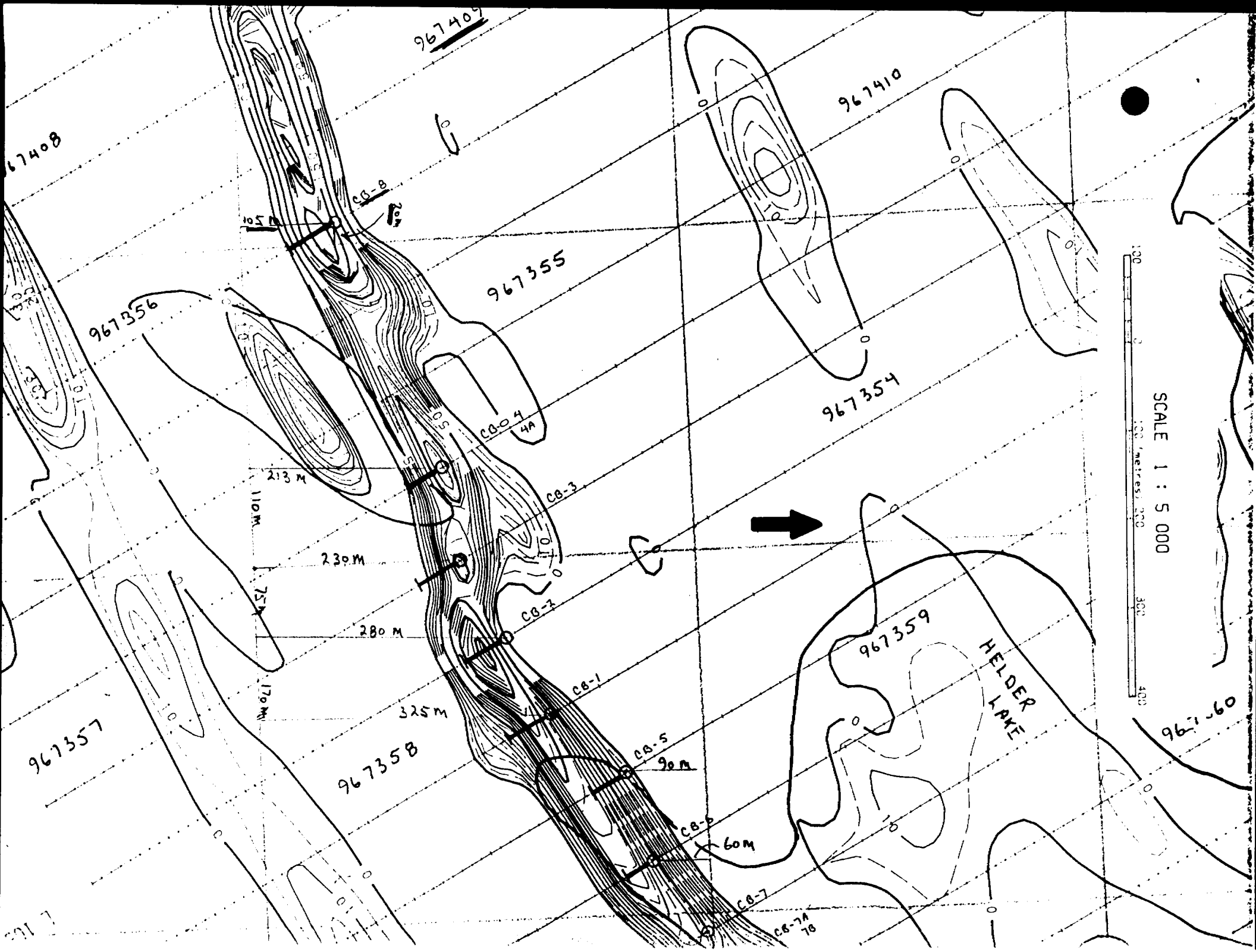
DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-7B
Collar Eastings: 11250.00
Collar Northings: 10160.00
Collar Elevation: 0.00

Date:
Logged by: P. Barc
Collar Inclination: -80.00
Grid Bearing: 180.00
Final Depth: 68.00 feet

FROM	TO	LITHOLOGICAL DESCRIPTION
0.0	68.0	CASING (CAS)
	8.0	F.O.H.

Holes per Paul Barc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CB-8
105 M
CB-4
4A
213 M
110 M
CB-3
230 M
157 M
CB-2
280 M
170 M
CB-1
325 M
CB-5
90 M
CB-6
60 M
CB-7
CB-7A
70
HELDER LAKE
SCALE 1 : 5 000
100
metres
200
300
400

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-8
Collar Eastings: 10300.00
Collar Northings: 10215.00
Collar Elevation: 0.00

Collar Inclination: -50.00
Grid Bearing: 180.00
Final Depth: 276.00 feet

Logged by: P. Barc
Date: Feb.16-19 89
Down-hole Survey: -

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
			ASSAYS										
0.0	12.0	CASING (CAS)											
12.0	138.0	AMPHIBOLITE (B AMPH)											
		Green-black with whitish fine bands.											
		Banded,altered,slight mottled vfg texture.Hbl-chl-plag schist,											
		with abundant les sharp pale bands-silicification?Well foliated											
		at ~50 to C.A. Minor conformable+x fractures,minor,3-.8'broken											
		core.Minor -3-granitic .5-1.'dikes.											
		21.0 - 36.0 strongly well banded											
		36.0 - 37.0 granitic dike											
		39.0 - 40.0 " "											
		36.0 - 48.0 fractured											
		86.0 - 86.5 granitic dike											
		112.0 - 128.0 well banded amphibolite											
138.0	171.0	GRANITIC DIKE (GRAN)											
		medium grained, massive,homogeneous, K-feldspar-Quartz-biotite											
171.0	192.0	BANDED AMPHIBOLITE (B AMPH)											
		Green-black,fine conformable banding,well foliated at ~30 to C.A											
		Minor,<<5% 1-2cm qtz-chl-pyl-5% "viens".											
192.0	209.0	MASSIVE SULFIDE-BRECCIA (MS BX)	249	192.00	192.60	0.60	82	0.56	2100	175	10	143	17.20
		60% matrix,pyhr>>py,40% qtz+amph. clasts.	250	192.60	196.00	3.40	16	0.38	59	152	1	7700	15.00
		pyhr+py matrix, rounded clasts of amphib.& quartz,fg to >2cm.	251	196.00	197.30	1.30	10	0.08	9	13	[illegible]	20	1.74
		pebble size, chlorite and pyrite displays alteration halos,	252	197.30	202.00	4.70	130	1.06	48	270	[illegible]	310	30.20
		weathering products present-py to goetite.F-mg clast size near	253	202.00	206.00	4.00	160	1.30	104	380	[illegible]	590	27.30
		base of unit.Minor,.6'qtz vien at top of unit,minor siliceous	254	206.00	209.00	3.00	52	1.04	115	197	[illegible]	270	25.10
		sections in S BX.Quartz+py/pyhr stringers near base of unit.											
		SAMPLE RECORD											
		192.0 - 192.6 qtz vien,PY-chl,fine to medium clasts											
		192.6 - 196.0 sulfide bx, qtz rich sections,mvs,chl+py altered.											
		196.0 - 197.3 quartz rich,mvs.											
		197.3 - 202.0 breccia,fg,siliceous.											
		202.0 - 206.0 fg clasts,py breccia,											
		206.0 - 209.0 quartz-PY-PYHR stringers.											
209.0	239.6	BANDED IRON FORMATION (BIF)	255	209.00	210.00	1.00	10	0.21	70	42		158	[illegible]
		Black,with lighter siliceous bands.	256	210.00	211.20	1.20	20	0.34	115	49		94	[illegible]
		Banded,various size bands,40-50 to C.A.,fg,qtz-qtz-mte- bte-chl	257	211.20	214.00	2.80	22	0.31	41	45		61	8.06
		Minor,>1%py,pyhr,<<1% Aspy,py+pyhr disseminated+fine conformable	258	214.00	218.50	4.50	22	0.11	1050	44		96	12.00
		stringers,Aspy found in siliceous "qtz vien" sections,diss.fg.	270	218.00	218.60	0.60	16	0.14	1800	30		35	12.30

HOLE No: CB-8

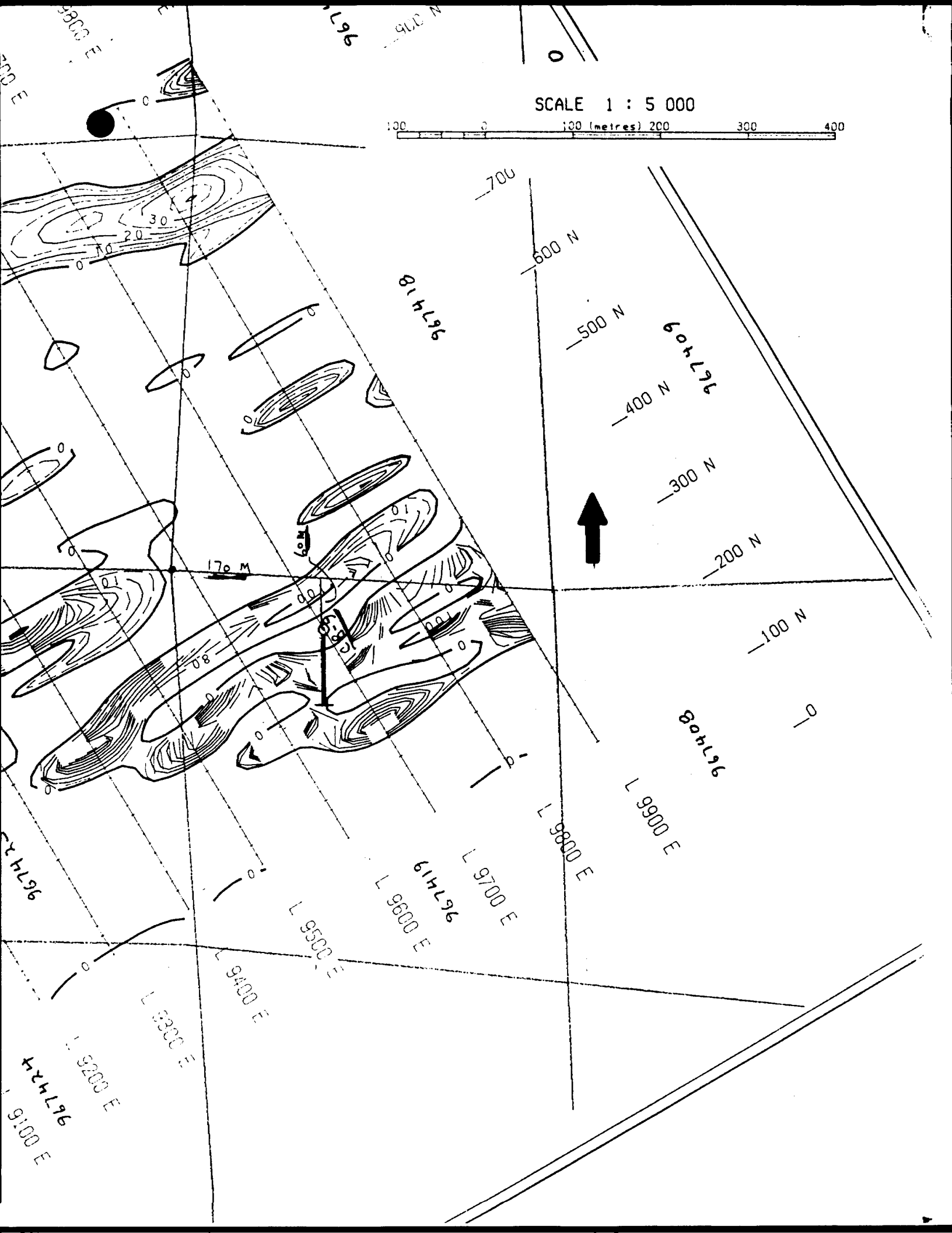
h O'Chart per Paul Barc

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-8

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
		Distinct garnetiferous sections,>25% garnet to 8%,1-2'to 1'.	159	218.50	219.10	0.60	24	0.04	770	16	0	10	8.27
		209.0 - 214.0 PTHR>PT stringers,minor mylonitic gran.rock,.3'.	161	219.10	220.00	0.90	70	0.03	1080	12	0	18	12.90
		214.0 - 239.6 minor garnetiferous sections, minor PT>ASPT	162	220.00	221.00	1.00	10	0.02	250	10	1	24	7.39
		SAMPLE RECORD	163	221.00	222.00	1.00	4	0.02	120	14	0	25	8.81
		209.0 - 210.0 py diss.+stringers.	164	222.00	223.00	1.00	8	0.09	117	29	0	28	13.90
		210.0 - 211.2 py,pegmatitic,mylonitic granite,.8'	165	223.00	224.00	1.00	14	0.08	560	22	1	34	11.30
		211.2 - 214.0 py-pyhr stringers,minor garnet.	166	224.00	224.80	0.80	84	0.88	3500	27	0	31	9.20
		214.0 - 216.5 py	167	224.80	226.60	1.80	6	0.05	73	16	1	46	7.45
		216.0 - 216.6 diss. ASPT stringer from above sample	168	226.60	228.30	1.70	16	0.08	1220	15	0	13	9.91
		216.5 - 219.1 fg Aspy,diss.along lowercontact of .5'qvien.	169	228.30	231.00	2.70	14	0.05	213	21	1	34	12.50
		219.1 - 220.0 minor PT	170	231.00	231.70	0.70	16	0.07	380	30	1	24	16.70
		220.0 - 221.0 minor py	171	231.70	234.00	2.30	6	0.04	39	17	0	13	15.50
		221.0 - 222.0	172	234.00	235.50	1.50	10	0.02	207	9	0	8	14.80
		222.0 - 223.0 3-1cm quartz-PT stringers	173	235.50	236.00	0.50	12	0.05	237	23	0	22	15.70
		223.0 - 224.0 quartz rich, minor PT	174	236.00	237.00	1.00	8	0.03	206	14	0	14	8.43
		224.0 - 224.8 siliceous, garnet-PT-PTHR-ASPT	175	237.00	237.50	0.50	4	0.09	270	31	1	31	8.49
		224.8 - 226.6 py,minor garnet.	176	237.50	238.00	0.50	0	0.05	250	14	11	27	7.94
		226.6 - 228.3 quartz rich, minor PT-PTHR-ASPT	178	238.00	238.70	0.70	4	0.10	240	28	13	40	9.89
		228.3 - 231.0 minor garnet and PT, conjugate fractures	177	238.70	239.50	0.80	12	0.12	210	37	5	13	6.48
		231.0 - 231.7 quartz rich, py stringer.											
		231.7 - 234.0 siliceous, banded, minor PT											
		234.0 - 235.5 siliceous,banded,minor py											
		235.5 - 236.0 PT-PTHR-ASPT in siliceous offset fractures.											
		236.0 - 237.0 siliceous, minor PT											
		237.0 - 237.5 siliceous, diss. py,1 med.grain Au											
		237.5 - 238.0 qvn.											
		238.0 - 238.7 garnetiferous, minor ASPT											
		238.7 - 239.6 siliceous, garnetiferous, minor PT											
239.6	276.0	AMPHIBOLITE (B AMPH)											
		Fg,green black color,weakly pale banded,biotite?in dark bands,											
		well foliated at 45 to C.A.,minor qtz-py conformable,narrow vienlet											
276.0		E.O.H.											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700
600 N
500 N
400 N
300 N
200 N
100 N
0
81hL96
60hL96
80hL96
L 9900 E
L 9800 E
L 9700 E
L 9600 E
L 9500 E
L 9400 E
L 9300 E
L 9200 E
L 9100 E
170 M
60 M
50 M

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-9
Collar Eastings: 9700.00
Collar Northings: 10375.00
Collar Elevation: 0.00

Collar Inclination: -45.00
Grid Bearing: 210.00
Final Depth: ~~484.00~~ 446 feet

Logged by: P. Barc
Date: Feb.19-24 89
Down-hole Survey: -

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
0.0	6.0	CASING (CAS)											
6.0	116.0	AMPHIBOLITE (MOTT AMPH) Mottled texture,fine to medium hbl-chl-plag-qtz schist,well foliated,weakly banded at ~50 to C.A.Minor conf.fractures,<1/'. Gradual transition to v/g,well banded amphibolite,by 116.'											
116.0	223.2	AMPHIBOLITE (B AMPH) Banded texture,v/g,green black color,pale fine conformable bands foliation at 45-50 to C.A.,minor dark,biotite rich bands.Minor .3'carbonate vien,162.8',minor qtz-garnet-mte pod 210.3'. 119.0'-119.5' minor broken core bc 162.8'-163.1' carbonate vien 209.5'-209.7' minor bc 210.3'-210.5' qtz-garnet-magnetite pod.											
223.2	226.5	MASSIVE SULPIDE BRECCIA (MS BX) Py/pyhr matrix,60%,py>pyhr,30%/30%,40% qtz+amphibolite ag to pebble sized clasts,subrounded,slight increase in clast size to 226.5'.Py increases slightly to 241.2',py>pyhr by 241.2'. Minor siliceous sections,to 1.',near base of unit. SAMPLE RECORD 223.2'- 226.5'py/pyhr 30%,30%.											
226.5	229.8	AMPHIBOLITE (AMPH ALT'D) Massive to mottled,v/g.texture,hbl-chl-plag schist,foliated at 60 to C.A.,gradational contacts. SAMPLE RECORD 226.5'-229.8' Amphibolite,sulphide breccia	380 381	223.30 227.40	227.40 229.50	4.20 2.10	24 2	0.58 0.16	116 57	350 175	3 6	87 48	10.20 5.20
229.8	232.5	MASSIVE SULPHIDE BRECCIA (MS BX) As above. SAMPLE RECORD 229.8'-232.5' py/pyhr 30%,30%	382	229.50	232.50	3.00	247	0.60	115	340	5	112	27.70
232.5	236.0	AMPHIBOLITE (AMPH ALT'D) As above. SAMPLE RECORD 232.5'-236.0' Amphibolite	383	232.50	236.00	3.50	8	0.16	91	65	3	126	6.81
236.0	241.2	MASSIVE SULPHIDE BRECCIA (MS BX) As above.	384 385	236.00 237.00	237.00 241.20	1.00 4.20	8 38	0.56 0.64	190 330	168 99	5 8	67 54	17.30 10.10

M Chute per Paul Barc

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-9

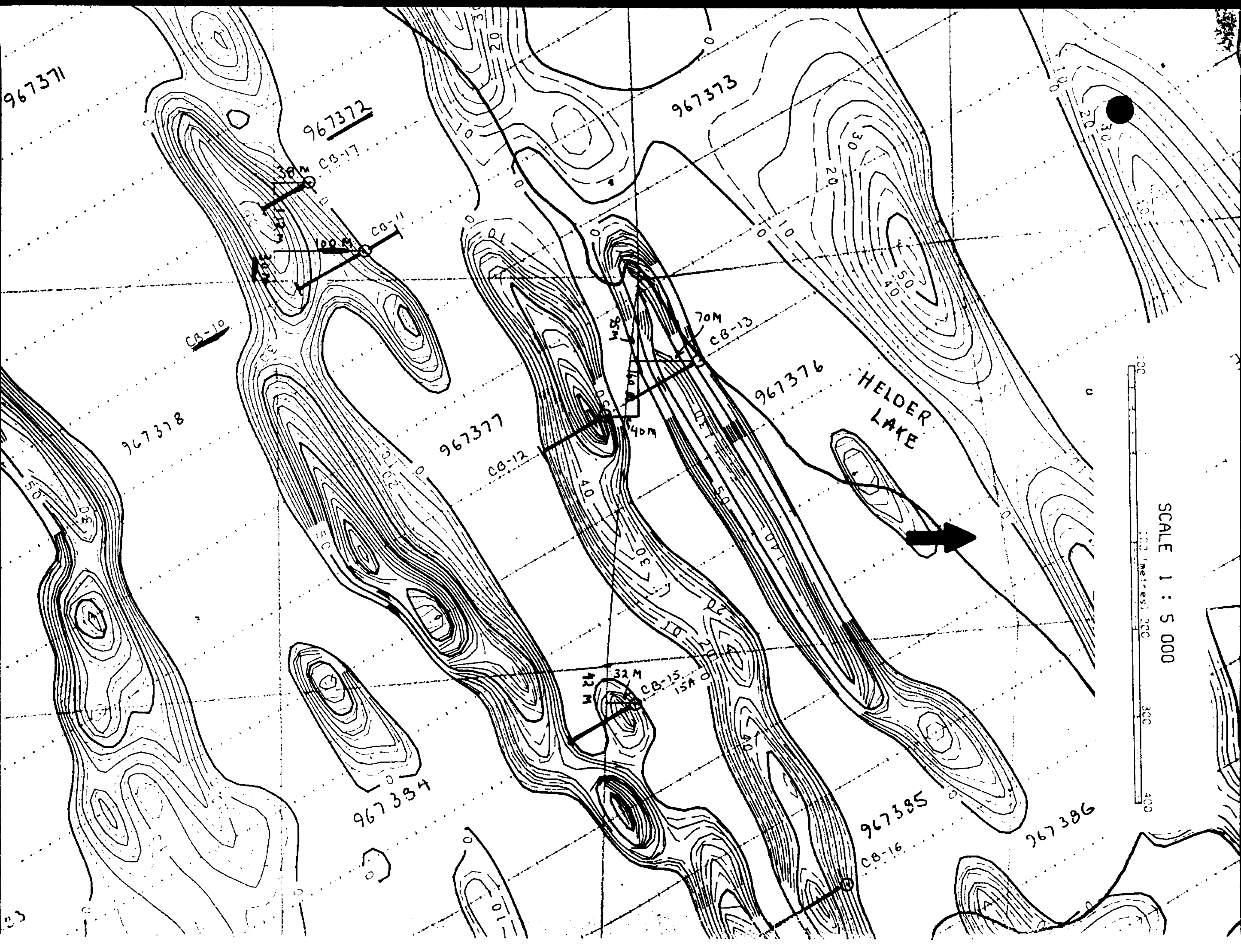
FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
		SAMPLE RECORD											
		236.0'-237.0' py>pyhr,siliceous.											
		237.0'-241.2' " "											
241.2	322.4	AMPHIBOLITE (B AMPH)	266	254.30	254.80	0.50	10	0.07	2600	158	0	23	3.75
		Banded,altered,green black,pale fine bands,silicified.Well											
		foliated at 50 to C.A.Minor disseminated magnetite grains,esp.											
		260.5'.Minor qtz-garnet-chl-py-Aspy1% stringer at 254.8'.											
		Minor 3-.5' qtz-chl-py2% veins.											
		297.6 - 297.8 broken core											
		298.0 - 298.5 quartz-PY-chlorite vein											
		308.4 - 309.0 same											
		314.8 - 315.2 same											
		SAMPLE RECORD											
		254.3 - 254.8 qtz-py-aspy1% lcm. stringer.											
322.8	329.6	GRANITIC DIKE (GRAN)											
		Pink,medium grained, K-feldspar-quartz-biotite, minor xenoliths											
		at lower contact, sharp upper contact.											
329.6	407.5	AMPHIBOLITE (MOTT AMPH ALT'D)											
		Slight grey mottled color.											
		Similar to above, increase to near 5% quartz-chlorite-PY											
		conformable veins with augen boudenage texture, slight increase											
		in conformable>x fractures.Inc'd pale color to top of BIF unit.											
		Foliation at 40-45 to C.A.,change to 30 to C.A. near top of BIF.											
		SAMPLE RECORD											
		407.0'-407.8' Amph-Bif contact.											
407.5	424.5	BANDED IRON FORMATION (BIF)	287	407.00	407.80	0.80	48	0.08	770	65	4	61	8.43
		Green(chl-amphibole-qtz-ste)-white(qtz-qtz/ste)well banded at "	288	407.80	409.00	1.20	24	0.05	36	46	3	42	3.89
		60 to C.A.,change in attitude to 30 to C.A. by 417.'	289	409.00	410.20	1.20	80	0.11	39	153	1	84	6.55
		Uniform texture,with minor fg ste clusters irregularily dist'd	290	410.20	410.70	0.50	48	0.26	790	250	3	112	7.32
		thru BIF.2 minor garnetiferous sections,.5-1.',with minor,<1%Asp	291	410.70	411.70	1.00	38	0.15	350	149	0	107	11.90
		py<5%,pyhr<1%,irregularily distributed thru BIF.	292	411.70	412.50	0.80	26	0.12	137	95	0	58	10.60
		SAMPLE RECORD	293	412.50	413.20	0.70	20	0.06	44	55	0	63	9.70
		407.8'-409.'	294	413.20	414.20	1.00	86	0.08	51	68	0	76	10.20
		409.0'-410.2' py-pyhr <5%	295	414.20	415.30	1.10	330	0.06	33	36	7	20	5.41
		410.2'-410.7' garnetiferous,minor fg Aspy.	296	415.30	416.30	1.00	152	0.11	102	99	1	36	26.60
		410.7'-411.7' minor py,Aspy 1%	297	416.30	418.00	1.70	74	0.09	41	85	1	25	10.70
		411.7'-412.5' " ,magnetite clusters.	298	418.00	420.00	2.00	26	0.10	13	54	0	50	15.80
		412.5'-413.2' "	299	420.00	421.00	1.00	58	0.05	12	45	0	53	12.10
		413.2'-414.2' py5%	300	421.00	422.00	1.00	38	0.10	28	98	0	51	19.20
		414.2'-415.3' minor garnet,boudinage texture.	301	422.00	423.00	1.00	N.S.	N.S.	N.S..	N.S.	N.S.	N.S.	N.S.

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-9

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
		415.3'-416.3' garnetiferous	302	423.00	424.00	1.00	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
		416.3'-418.0' py1%	303	424.00	424.50	0.50	20	0.69	39	53	8	26	9.92
		418.0'-420.0' py											
		420.0'-421.0' "											
		421.0'-422.0' "											
		422.0'-423.0' sva											
		423.0'-424.0' py											
		424.0'-425.5' BIF/Granite sharp contact											
424.5	446.0	GRANITE (GRAN)											
		pink, medium to coarse grained, sharp contact											
446.0		E.O.H.											



967371
967372
967373
967376
967377
967378
967384
967385
967386
CB-17
38M
CB-11
100 M
CB-10
CB-12
40M
70M
CB-13
CB-15
15A
32 M
42 M
CB-16
HELDER LAKE
SCALE 1 : 5 000
(metres)

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-10
Collar Eastings: 12100.00
Collar Northings: 10290.00
Collar Elevation: 0.00

Collar Inclination: -45.00
Grid Bearing: 180.00
Final Depth: 416.00 feet

Logged by: P. Barc
Date: Feb.26-29 89
Down-hole Survey: -

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
0.0	10.0	CASING (CAS)											
10.0	52.0	AMPHIBOLITE (MOTT AMPH) Mottled texture,fg chl-hbl-plag schist,well foliated at ~50 toC.A. minor weakly banded,green-black/pale,sections,minor massive,vfg. sections.f-l.'fg granitic dikes,minor qtz-garnet-bte-mte "veins". Trace py disseminated+along fol'n planes,irreg.dist'n,minor b.c. minor fractures 10.0 - 13.0 broken, blocky core 23.0 - 24.0 whitish-green siliceous vein, minor PY 36.5 - 37.5 pink, fine to medium grained GRANITIC DIKE 38.0 - 38.5 broken core 46.0 - 46.3 sg GRANITIC DIKE 48.4 - 48.8 broken core 51.5 - 52.0 b.c. 53.2 - 53.3 siliceous vein with chlorite and PY											
52.0	53.0	QUARTZ VIEN (Q.V.) Greenish quartz+bte+py+<1%Aspy,conformable,.1'py-breccia+<<1%Aspy on south-bottom contact SAMPLE RECORD 52.0 - 53.0 greenish, siliceous vein with biotite-PY-ASPY	305	52.00	53.00	1.00	42	0.84	158	460	4	196	8.47
53.0	53.6	AMPHIBOLITE (AMPH ALT'D) As above SAMPLE RECORD 53.0 - 53.6	306	53.00	53.60	0.60	18	0.13	620	37	2	94	5.96
53.6	64.1	QUARTZ VIEN (Q.V.) Quartz-minor py-Aspy10% SAMPLE RECORD 53.6 - 54.1 .4' quartz- ASPY-PY vein, fine-med. ASPY 10%	307	53.60	54.10	0.50	70	0.15	11300	107	3	58	5.81
54.1	68.8	AMPHIBOLITE (AMPH ALT'D) As above,with >1% disseminated fgAspy SAMPLE RECORD 54.1 - 55.0 minor diss. fine ASPY 55.0 - 56.0 aspy 56.0 - 57.0 aspy 57.0 - 58.5 sil'd amph, >1% vfg ASPY, baked,quartz vien	308 309 310 311	54.10 55.00 56.00 57.00	55.00 56.00 57.00 58.50	0.90 1.00 1.00 1.50	34 14 16 18	0.14 0.06 0.11 0.73	1700 1750 1360 2340	78 69 113 185	3 1 3 5	58 45 47 77	6.99 3.63 4.54 9.00
68.8	72.0	QUARTZ VEIN (Q.V.)	312	68.80	69.30	0.50	34	3.00	2400	670	1	59	10.30

per Paul Barc

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-10

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
		Quartz-py20%,minor,<5% pyhr,near base,Aspy2%,Sulphides zoned,with	313	69.30	69.80	0.50	12	1.44	3300	520	1	43	19.00
		Aspy+py in core of vien as 1-3cm fg cluster.Slight ag brecciated	314	69.80	70.40	0.60	2	0.12	100	31	2	14	2.10
		terture to vien mat'l.Sharp contacts of vien/host,absence of alt'n	315	70.40	70.90	0.50	10	1.34	200	580	0	44	22.80
		in host rock.	316	70.90	72.00	1.10	18	1.11	150	440	2	61	9.85
		SAMPLE RECORD											
		68.8 - 69.3 ag py 20%											
		69.3 - 69.8 quartz Py Bx, 3cm cluster of fg ASPY											
		69.8 - 70.4 silky quartz vein + PY20%											
		70.4 - 70.9 vuggy quartz-PY-PYHR bx											
		70.9 - 72.0 vuggy,qtz-py-pyhr breccia											
72.0	80.0	AMPHIBOLITE (AMPH-ALT'D)	317	72.00	73.00	1.00	8	0.22	750	58	8	58	4.70
		As above,altered,weakly banded,minor py+aspy<1%,in,minor.1'	318	73.00	74.00	1.00	4	0.20	260	55	9	53	3.85
		quartz vieaut disseminated in Amphibolite.Amph altered to bte-	319	74.00	74.50	0.50	10	0.29	200	61	5	39	5.28
		garnet-quartz schist in minor sections.	320	74.50	75.60	1.10	10	0.73	30	108	3	176	12.90
		SAMPLE RECORD	321	75.60	80.00	4.40	6	0.22	127	134	4	45	3.56
		72.0 - 73.0											
		73.0 - 74.0											
		74.0 - 74.5 Aspy fg dissem.											
		74.5 - 75.6 Amph+qtz-py breccia											
		75.6 - 80.0											
80.0	80.1	QUARTZ VIEN (Q.V.)											
		Aspy fg,20%,minor py,qtz+chl,Aspy as massive stringer in vien core											
		SAMPLE RECORD											
		80.0 - 80.5											
80.1	90.0	AMPHIBOLITE (AMPH ALT'D)	322	80.00	80.50	0.50	250	0.96	12300	340	6	110	3.58
		Altered,as above,weakly banded,minor py+Aspy,<1%,in<.1'qtz viens	323	80.50	81.50	1.00	80	0.77	1980	146	9	230	7.25
		+disseminated in amphibolite along foliation planes.	324	81.50	82.50	1.00	22	0.42	3490	120	8	87	6.03
		SAMPLE RECORD	325	82.50	86.00	3.50	18	0.35	970	116	3	63	4.45
		80.5 - 81.5 Aspy	326	86.00	87.00	1.00	36	0.25	550	93	2	62	4.38
		81.5 - 82.5 Aspy+py,disseminated,siliceous section	327	87.00	88.40	0.60	34	0.49	1470	270	4	55	4.52
		82.5 - 86.0 minor py dissem.											
		86.0 - 87.0 nvn											
		87.0 - 88.4 siliceous,minor Aspy dissem.											
90.0	90.1	QUARTZ VIEN (Q.V.)											
		Qtz-chl-py-Aspy											
		SAMPLE RECORD											
		88.4 - 92.0 py,aspy											
90.1	125.0	AMPHIBOLITE (AMPH ALT'D)	328	88.40	92.00	3.60	16	0.35	490	127	2	46	4.33
		As above,altered,fg,black,weakly white banded-silicified,minor											

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-10

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
		siliceous-qtz horizons, to.1' .Well foliated at"25 to C.A.											
125.0	125.6	QUARTZ VIEW (Q.V.) Qtz-bte-garnet-Maplag? viea. ave											
125.6	127.5	AMPHIBOLITE (AMPH ALT'D) As above											
127.5	128.8	QUARTZ VIEW (Q.V.) Qtz-bte-garnet,ave											
128.8	137.2	AMPHIBOLITE (AMPH ALT'D) As above,minor quartz viening. SAMPLE RECORD 131.6-132.2 Qtz-minor py viea	329	131.60	132.20	0.60	60	0.52	120	810	2	22	2.33
137.2	139.5	QUARTZ VIEW (Q.V.) Quartz-pyl% viea. SAMPLE RECORD 137.2-139.5	330	137.20	139.50	2.30	198	0.72	146	800	2	10	0.77
139.5	189.4	AMPHIBOLITE (AMPH ALT'D) Altered,weakly banded-silicified,also irregularily silicified, slighly mottled,vfg hbl-chl-plag schist near base of unit.Minor granitic dikes,1-1.'.											
189.4	232.8	BANDED IRON FORMATION (BIF)	332	189.40	190.60	1.20	26	0.13	10	31	0	25	14.20
		Gradational upper contact.Grey-black color,well banded at"80 to	331	190.60	191.10	0.50	28	0.72	3	154	0	27	22.10
		C.A.,composition generally fg qtz-ate, green-chl>bte rich bands,	333	191.10	199.00	7.90	10	0.04	22	8	0	9	9.74
		minor narrow,to.5',conformable siliceous-qtz "viea" sections,with	334	199.00	204.00	5.00	16	0.04	8	4	0	5	10.50
		qtz-chl-py-pyhrl%..Py>pyhr disseminae sporadic distribution,<<5%	335	204.00	209.60	5.60	12	0.04	6	4	0	7	20.70
		to 232.8'.IF generally siliceous,with minor narrow garnetif. zones.	336	209.60	214.80	5.20	14	0.03	3	6	0	16	25.20
		219.0-232.8 Silicification by dike has altered IF to a White-green	337	214.80	216.00	1.20	22	0.04	9	8	0	23	25.80
		color,well to irregularily banded at 80 to C.A.Minor fractures,x	338	216.00	216.50	0.50	98	0.19	10	33	0	25	10.30
		fractures,Minor boudinage-extension textures,ex223-228.'	339	216.50	218.50	2.00	26	0.10	13	18	0	23	18.00
		SAMPLE RECORD	340	218.50	219.00	0.50	24	0.27	15	50	0	27	13.30
		189.4 - 190.6 ave	340	219.00	223.50	4.50	24	0.27	15	50	0	27	13.30
		190.6 - 191.1 qtz-chl-py-pyhr .1' viea	341	223.50	228.50	5.00	30	0.29	51	52	0	34	16.60
		191.1 - 199.0 ave	342	228.50	232.80	4.30	32	0.12	8	21	3	88	12.30
		199.0 - 204.0 ave											
		204.0 - 209.6 ave											
		209.6 - 216.8 ave											
		216.8 - 216.0 ave											
		216.0 - 216.5 qtz-chl-magnetite .1'"viea"											

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-10

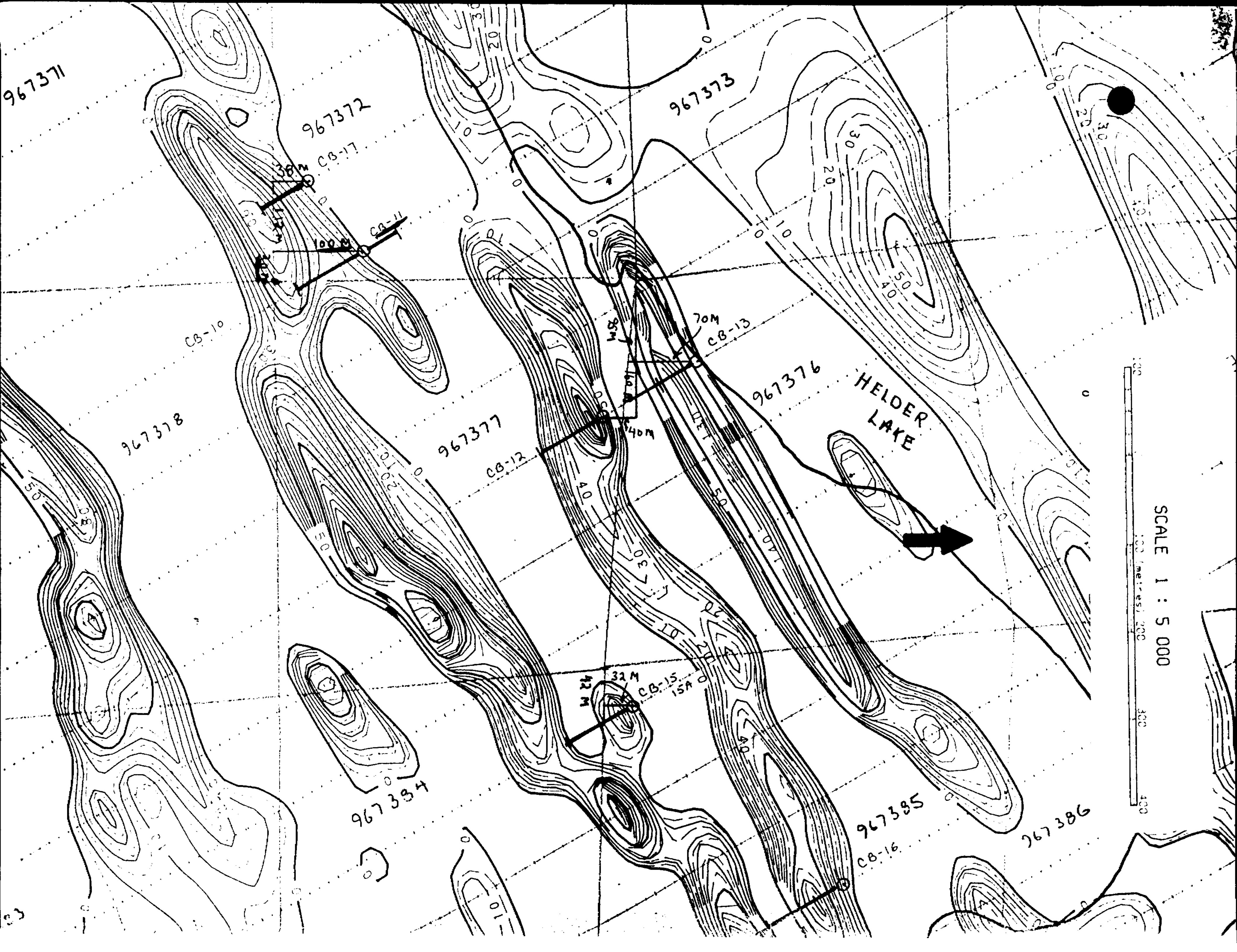
FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
		216.5 - 218.5 avr											
		218.5 - 223.5 qtz-chl-garnet-py<1%,vuggy,lumpy-pyhr string,ppyhr>5											
		223.5 - 228.5 pyhr>py 5%,stringers in BIF											
		228.5 - 232.8 qtz-bte-garn'vien',py,qtz-bte-py-pyhrschisttop of dik											
232.8	237.5	GRANITIC DIKE (GRAN)	343	232.80	237.50	4.70	52	0.30	59	31	24	30	4.78
		Pink,Coarse grained,gradual up/lower contacts,ag hte euhedra,py replacing hte?,slight vuggy porosity,abundant book biotite,py-hte lam-lcm conformable,vuggy fracture infillings.											
		SAMPLE RECORD											
		232.8 - 237.5											
237.5	317.5	BANDED IRON FORMATION (BIF)	344	237.50	242.40	4.90	36	0.13	14	26	0	24	13.70
		Black/grey BIF,slightly gradual upper contact,abrupt color change	345	242.40	245.30	2.90	56	0.30	33	39	2	30	8.23
		from white-green bif at top of previous dike unit.Abundant broken	346	245.30	249.00	3.70	42	0.17	58	37	0	12	12.10
		core 239.'-241.'Minor diusem. py+pyhr.	347	249.00	254.00	5.00	36	0.06	14	10	2	7	11.60
		SAMPLE RECORD	348	254.00	254.60	0.60	26	0.21	35	10	1	24	9.45
		237.5 - 242.4 White bif,above qv,minor py	349	254.60	260.30	5.70	18	0.01	122	3	0	7	11.60
		242.4 - 243.3 above qv,minor py	350	260.30	265.20	4.90	4	0.49	34	5	0	23	5.85
		243.3 - 245.3 qtz-garnet-bte ste10%,minor pyhr.	351	265.20	266.00	0.80	4	0.09	34	5	2	23	5.85
		245.3 - 249.0	352	266.00	269.70	3.70	4	0.01	134	6	0	9	12.40
		249.0 - 254.0	353	269.70	272.00	2.30	2	0.01	3	0	0	5	16.00
		254.0 - 254.6 chl-qtz-bte-minor py vien	354	272.00	275.20	3.20	2	0.01	23	6	0	6	17.10
		254.6 - 260.3	355	275.20	280.40	5.20	2	0.04	6	5	0	9	25.10
		260.3 - 265.2	356	280.40	284.80	4.40	10	0.04	10	3	0	6	21.00
		265.2 - 266.0 chl-qtz-bte-py vien	357	284.80	289.50	4.70	2	0.02	6	4	0	10	25.20
		266.0 - 269.7	358	289.50	294.50	5.00	6	0.14	44	105	2	9	19.40
		269.7 - 272.0	359	294.50	297.70	3.20	16	0.04	5	4	0	18	29.40
		272.0 - 275.2 .5' qtz-chl-py irregular vien.	360	297.70	298.70	1.00	310	0.59	81	140	1	38	10.10
		275.2 - 280.4	361	298.70	303.40	4.70	20	0.08	6	14	0	21	34.40
		280.4 - 284.8	362	303.40	307.50	4.10	24	0.14	7	24	0	15	31.30
		284.8 - 289.5	363	307.50	308.10	0.60	68	0.86	6	142	0	49	33.50
		289.5 - 294.5	364	308.10	313.50	5.40	130	0.68	10	88	2	18	8.76
		294.5 - 297.7 qtz-chl-bte-vuggy py 1.'vien.py<10%.	365	313.50	316.00	2.50	30	0.50	47	65	4	17	7.43
		297.7 - 298.7	366	316.00	317.50	1.50	22	0.11	37	11	7	9	1.29
		298.7 - 303.4											
		303.4 - 307.5											
		307.5 - 308.1 chl-qtz-hte-pyhr-py'vien'											
		308.1 - 313.5											
		313.5 - 316.0 qtz-pyhr-py fg .5' breccia,in quartzite-silic.bif											
		316.0 - 317.5 siliceous bif-quartzite?											
317.5	416.0	GRANODIORITE (GRANDIO)											
		Foliated,ag qtz-feldspar-bte,porphyroblastic feldspar grains,											

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-10

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
		well foliated.											
		409.' py-chl along fracture-conformable micro shear?											
		412.' diseem.ag magnetite xln,2%											
415.0		P.O.H.											



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CB-10
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15A
CB-16
CB-17
38M
100M
70M
40M
32M
42M
HELDER LAKE
SCALE 1 : 5 000

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

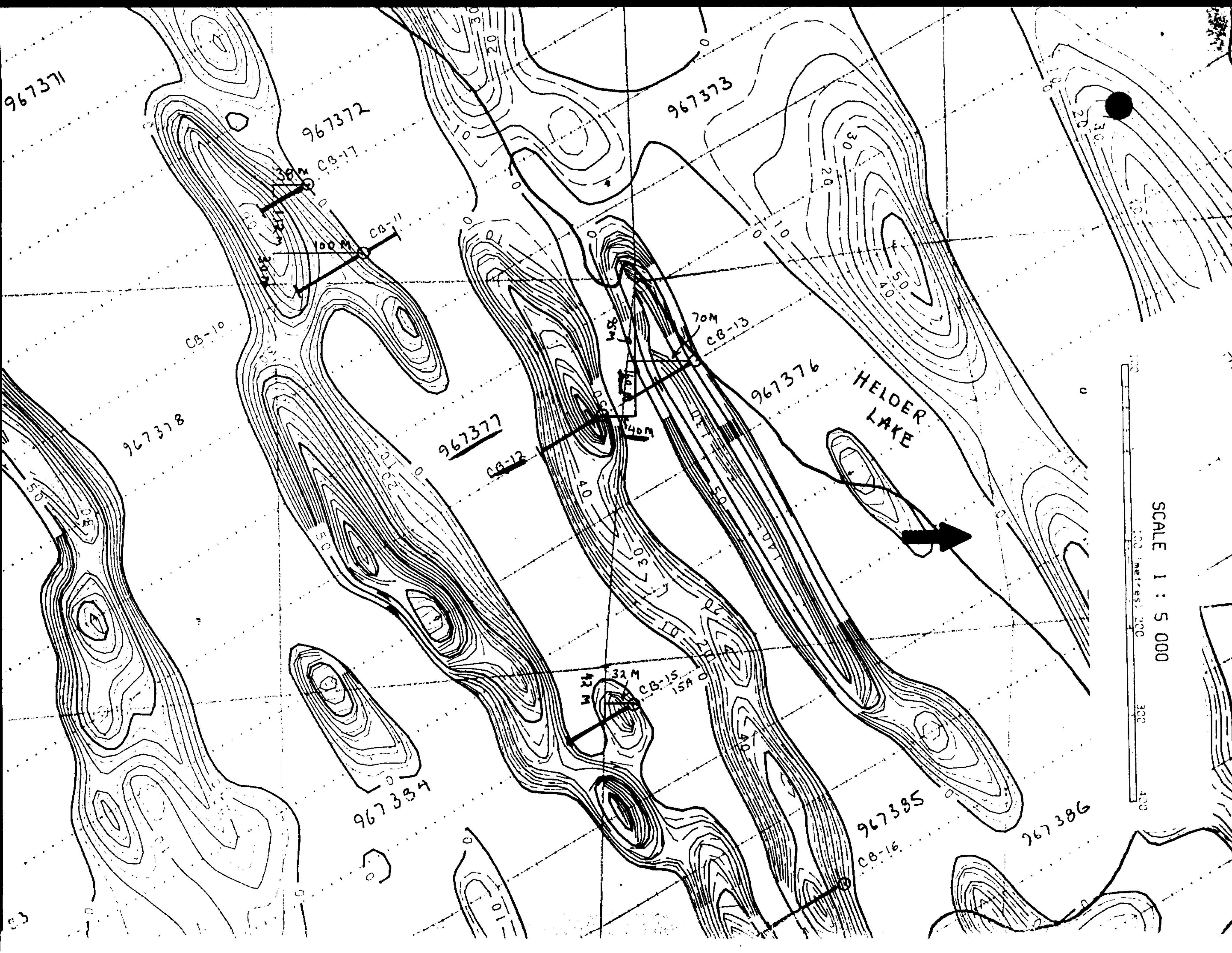
PROPERTY: Helder Lake
HOLE No.: CB-11
Collar Eastings: 12100.00
Collar Northings: 10290.00
Collar Elevation: 0.00

Collar Inclination: -45.00
Grid Bearing: 0.00
Final Depth: 196.00 feet

Logged by: P Barc
Date:
Down-hole Survey: -

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH
0.0	13.0	CASING (CAS)				
13.0	31.0	GRANITIC DIKE (GRAN) Mg,pink,similar to CB-1,2 top dike.				
31.0	196.0	AMPHIBOLITE (AMPH) Fg,black-green,weakly pale banded,silicified,with slight irregularily banded sections near top.General decrease in banding,alteration to 196.'.Well foliated at 60-65 to C.A..				
196.0		F.O.H.				

per Paul Barc-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HELDER LAKE
CB-17
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CB-12
CB-13
CB-15
15A
CB-16
38M
100M
70M
40M
32M
42M
SCALE 1 : 5 000

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: cb-12
Collar Eastings: 12400.00
Collar Northings: 10425.00
Collar Elevation: 0.00

Collar Inclination: -45.00
Grid Bearing: 180.00
Final Depth: 358.00 feet

Logged by: L.Chastko
Date: Mar.2-4 89
Down-hole Survey:

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb.	Ag ppm.	As ppm.	Cu ppm.	Pb ppm.	Zn ppm.	Fe %
0.0	15.0	CASING (CAS)											
15.0	70.0	AMPHIBOLITE (AMPH ALT'D) Altered,intercalated bands of amphibole-chlorite-biotite; chlorite-amphibole-biotite;biotite-chlorite-quartz-feldspar-garnet;chlorite-biotite garnet rich sections;crude segregation banding & well foliated at ~50 to C.A. ground mass generally fine grained with porphyroblasts of garnet 1mm. diameter, garnetiferous sections up to 30-35% garnet. 21.0-23.5' rusty-weathered section. -overall minor traces py po as blebs & hairline stringers--sulphide <<1% abrupt change to garnet free amphibolite at 70.0'.											
70.0	140.5	AMPHIBOLITE (AMPH ALT'D) Dark green,fine grained,well foliated at ~50 to C.A.,minor fracturing.Weak fracturing & fabric at acute angle to foliation -tuffaceous appearance in sections? weak to moderate silicification in sections,minor disseminated blebs&stringers pokpy increasing content in silicified areas. 101.4-102.2 -coarse granitic dike SAMPLE RECORD 71.3-76.0 -traces po py <1% 76.0-81.5 " " " <1% 81.5-86.0 " " " <1% 86.0-90.0 " " " <1% 90.0-96.0 minor po py bleb oriented across foliation 96.0-99.0 minor po py <1% 99.0-104.0 " " " 104.0-108.3 <<1% po py 108.3-113.0 minor po py <1% 113.0-116.0 po py <1% 116.0-121.5 2-3% py po,moderate silicification,10% garnets 121.5-122.7 20% po minor py-conductive mod.magnetic,siliceous. 122.7-126.0 1-3% po py moderately silicified 126.0-127.6 1-2% po py 127.6-128.4 mod.sil'n 5-6% po py 128.4-132.4 minor sil'n minor po py <<1% 132.4-136.0 minor sil'n minor po py <<1% 136.0-139.8 minor sil'n minor po py <<1% 139.8-140.5 minor sil'n minor po py <<1%	367	71.30	76.00	4.70	6	0.15	29	120	0	33	3.16
			368	76.00	81.50	5.50	8	0.14	64	105	1	34	2.93
			369	81.50	86.00	4.50	10	0.15	31	120	1	33	3.71
			370	86.00	90.00	4.00	8	0.17	340	104	5	46	3.56
			371	90.00	96.00	6.00	3	0.17	320	124	6	38	3.26
			372	96.00	99.00	3.00	4	0.06	30	65	3	30	2.11
			373	99.00	104.00	5.00	6	0.04	116	79	3	43	2.46
			374	104.00	108.30	4.30	6	0.06	83	156	5	28	2.47
			375	108.30	113.00	4.70	10	0.08	93	106	3	47	3.20
			376	113.00	116.00	3.00	6	0.10	114	141	4	34	3.37
			377	116.00	121.50	5.50	4	0.16	53	115	3	61	6.22
			378	121.50	122.70	1.20	4	0.42	12	174	0	35	15.50
			379	122.70	126.00	3.30	4	0.15	170	80	0	37	4.37
			380	126.00	127.50	1.50	2	0.06	5	107	2	35	3.54
			381	127.50	128.40	0.90	4	0.20	16	180	3	39	4.38
			382	128.40	132.40	4.00	4	0.06	5	134	7	37	5.23
			383	132.40	136.00	3.60	6	0.07	14	147	17	36	4.36
			384	136.00	139.80	3.80	4	0.05	13	148	3	33	3.18
			385	139.80	140.50	0.70	6	0.26	49	58	5	122	9.11

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: cb-12

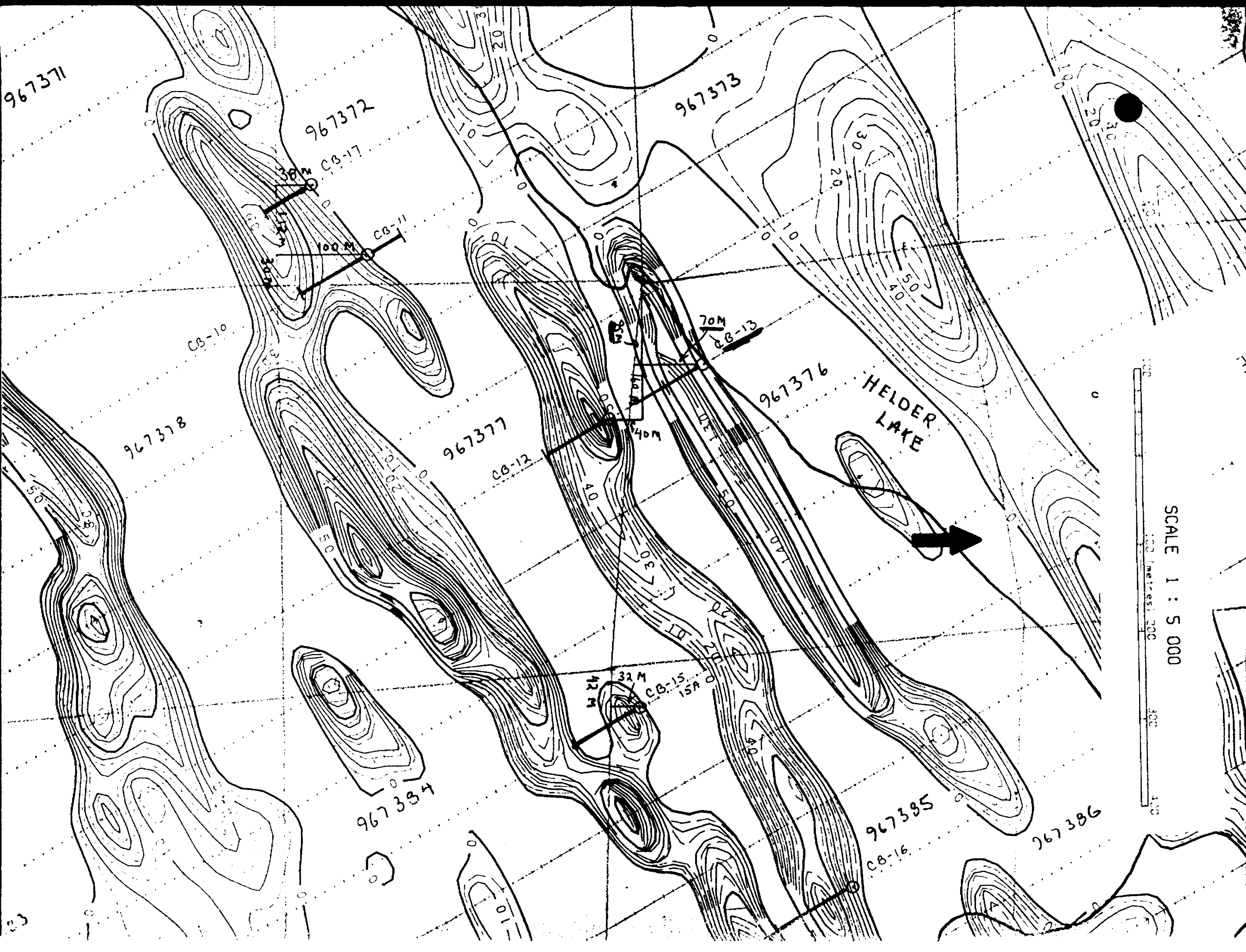
FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb.	Ag ppm.	As ppm.	Cu ppm.	Pb ppm.	Zn ppm.	Fe %
140.5	145.5	MASSIVE SULPHIDE BRECCIA (MS BX)	386	140.50	142.50	2.00	20	0.76	241	410	0	61	26.40
		Siliceous fragments-generally rounded, cemented with polpy.	387	142.50	143.40	0.90	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
		SAMPLE RECORD	388	143.40	145.50	2.10	13	0.60	205	131	0	109	22.90
		140.5-142.5 -40% po, 20% py.											
		----------40% sil fragments,py increases near lower area.											
		142.6-143.4 altered volcanic											
		----------hbl-biotite-pegmatitic 5% po py stringers,5% garnets.											
		143.4-145.5 -sulphide breccia-pegmatitic-20% greenish feldspar.											
		----------20% po 10-15% py irregular massive stringers.											
145.5	171.5	AMPHIBOLITE (AMPH ALT'D)	389	145.50	151.00	5.50	10	0.14	96	86	0	71	16.40
		Dark green,well foliated at ~50 to C.A. 15% scattered garnet	390	151.00	156.00	5.00	6	0.06	61	119	0	63	7.28
		porphyroblasts,minor disseminated stringers & blebs po py.	391	156.00	158.20	2.20	4	0.09	34	112	0	91	8.85
		SAMPLE RECORD	392	158.20	159.60	1.40	4	0.12	45	168	0	77	9.25
		145.5-151.0 1% po py	393	159.60	165.00	5.40	2	0.06	31	117	1	61	5.74
		151.0-156.0 <1% po py	394	165.00	171.50	6.50	4	0.09	110	135	0	48	5.66
		156.0-158.2 <1%po,py											
		158.2-159.6 5% po py irregular stringers											
		159.6-165.0 <1% po py											
		165.0-171.5 <1% po py											
171.5	211.8	AMPHIBOLITE ALTERED (AMPH ALT'D)	395	171.50	176.00	4.50	4	0.17	13	161	1	58	5.50
		Tuffaceous volcanic? Sil'd? dark greyish green,fine grained,	396	176.00	181.00	5.00	2	0.15	11	132	1	59	5.46
		well foliated at ~50 to C.A. *sharp contact with above.*Minor	397	181.00	186.00	5.00	88	0.11	25	156	1	35	3.91
		garnets.Banded to massive in sections.Minor fractures across	398	186.00	191.00	5.00	10	0.08	46	112	1	38	4.63
		foliation.Silicified weakly to moderately in sections.	399	191.00	196.00	5.00	8	0.07	85	143	2	47	5.39
		1-3% popy disseminated fg&fine stringers.	400	196.00	201.00	5.00	6	0.14	132	152	4	44	5.71
		SAMPLE RECORD	401	201.00	206.50	5.50	16	0.06	132	152	4	44	5.71
		171.5-176.0 3-5% po py	404	206.50	207.50	1.00	12	0.76	15	620	0	32	15.10
		176.0-181.0 3-5% po py	405	207.50	211.00	3.50	4	0.24	33	123	9	31	3.49
		181.0-186.0 <<1% po py-massive											
		186.0-191.0 <1% po py minor garnet											
		191.0-196.0 <1% po py,minor garnet											
		196.0-201.0 <1%popy,micro faulting,displacement 2cm.											
		201.0-206.5											
		206.5-207.5 sil'd 15%po 15%py											
		207.5-211.0 <<1% po py											
211.8	300.0	AMPHIBOLITE (AMPH ALT'D)	406	251.00	252.00	1.00	10	0.07	5	350	0	32	3.06
		Dark green,fine grained well foliated at ~55 to C.A.	407	263.00	264.20	0.40	4	0.08	49	186	0	11	1.35
		-gradational with unit above.Narrow bx zone at 211.8 marks	408	265.50	266.00	0.50	5	0.07	41	182	0	19	1.65
		change.Minor narrow zones of silicification. conformable &											
		minor narrow x fractures -qtz filled & healed. <<1% sulphides.											
		SAMPLE RECORD											

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: cb-12

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb.	Ag ppm.	As ppm.	Cu ppm.	Pb ppm.	Zn ppm.	Fe %
		251.0-252.0 quartz stringer minor po py,poss.Cupy & silver											
		----------mineral moly?											
		263.8-264.2 quartz stringer minor po py											
		265.5-266.0 qtz stringer,minor po,py											
300.0	356.0	AMPHIBOLITE (AMPH ALT'D)	489	342.00	346.50	3.70	140	0.19	9	410	0	55	4.20
		Greyish green,fine grained,well foliated at~50 to C.A.											
		Tuffaceous? Minor sil'd stringers & minor x fractures.											
		Traces po py											
		311.5-313.0 25% garnets											
		SAMPLE RECORD											
		342.8-346.5 3-5% disseminated stringers po py											
356.0		Foot of hole.											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CB-10
CB-12
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CB-15
15A
CB-16
38 M
100 M
70M
40M
32 M
42 M
HELDER LAKE
SCALE 1 : 5 000

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: cb-13
Collar Eastings: 12400.00
Collar Northings: 10550.00
Collar Elevation: 0.00

Collar Inclination: -45.00
Grid Bearing: 180.00
Final Depth: 240.00 feet

Logged by: L.Chastko
Date: Mar.5-8 89
Down-hole Survey:

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
0.0	12.5	CASING (CAS)											
12.5	15.5	GRANITE (GRAN) Pinkish grey,medium grained,weakly foliated,sharp contacts.											
15.5	46.5	AMPHIBOLITE (B AMPH) Banded-greyish green,fine grained moderately banded. at ~50-55 to C.A. 15% siliceous bands.Minor x fractures. SAMPLE RECORD 20.0-21.3 sil'd 15% po 15% py 21.3-23.0 1%po py 23.0-24.0 sil'd 8-10% po py 24.0-26.0 1% po py 26.0-30.0 <1% po py 30.0-31.5 5% po py stringers 45.0-46.5 <1% po py	410 411 412 413 414 415 416	20.00 21.30 23.00 24.00 26.00 30.00 45.00	21.30 23.00 24.00 26.00 30.00 31.50 46.50	0.50 1.70 1.00 2.00 4.00 1.50 1.50	48 10 4 4 4 10 10	1.24 0.29 0.66 0.26 0.10 0.21 0.10	3 4 3 5 1 0 7	340 152 280 107 77 104 16	1 5 4 2 0 0 1	320 540 390 109 49 137 34	13.60 7.63 8.73 4.72 2.39 4.31 3.45
46.5	47.0	MASSIVE SULPHIDE BRECCIA (MS BX) 50%po - 50% siliceous amphibolite fragments.Sharp lower contact massive po near lower contact,stringers at top contact. SAMPLE RECORD 46.5-47.0 50%po	417	46.50	47.00	0.50	20	2.10	76	198	3	26	24.80
47.0	106.8	AMPHIBOLITE (AMPH) Massive-dark green.Fine to medium grained,well foliated at ~50-55 to C.A. 15% siliceous & granitic stringers,minor cross fractures. 100.7-101.7 5-8% po py stringers 100.7-106.8- generally fine grained. SAMPLE RECORD 47.0-49.0 tr po py	418	47.00	49.00	2.00	6	0.10	10	39	0	42	3.59
106.8	113.0	GRANITIC DIKE (GRAN) Pinkish grey,med. grained,weakly to moderately foliated,sharp contacts-upper contact at~ 65 to C.A. lower contact at~50 to											
113.0	115.2	AMPHIBOLITE (AMPH) Dark green,fine grained,as before.sharp contacts,lower contact at ~ 40 to C.A.											

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: cb-13

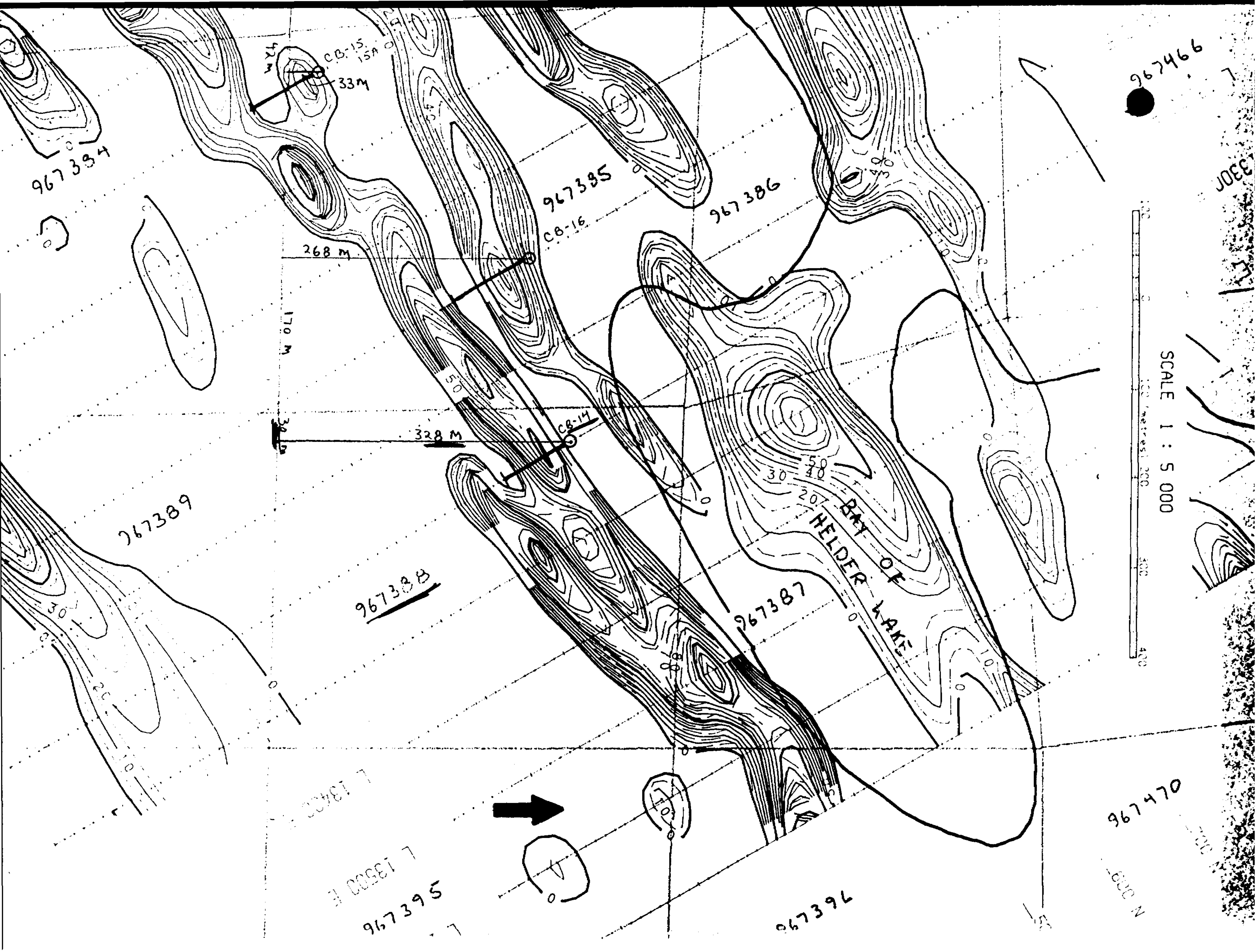
FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
115.2	121.0	GRANITIC DIKE (GRAN) As before,several narrow amphibolitic bands,sharp contacts.											
121.0	129.7	AMPHIBOLITE (AMPH) As before.											
129.7	143.3	GRANITE (GRAN) As before.											
143.3	160.0	AMPHIBOLITE (AMPH ALT'D)	419	146.00	151.00	5.00	5	0.07	25	48	2	38	2.65
		Altered,dark green to blotchy with quartz & silic patches,	420	151.00	156.00	5.00	45	0.58	27	710	3	30	1.81
		somewhat leached.Alteration increases towards lower contact,	421	156.00	158.00	2.00	36	0.58	9	780	3	31	2.56
		moderate x fractures.	422	158.00	160.00	2.00	36	0.58	9	790	3	44	2.77
		1% po py in irregular fine stringers.											
		SAMPLE RECORD											
		146.0-151.0 mod. altered											
		151.0-156.0 " "											
		156.0-158.0 " "											
		158.0-160.0 weakly altered											
160.0	161.6	GRANITIC DIKE (GRAN) As before.											
161.6	163.8	AMPHIBOLITE (AMPH ALT'D) As above.											
163.8	166.2	GRANITIC DIKE (GRAN) Contaminated,greyish white,blotchy,sharp contacts.											
166.2	170.8	AMPHIBOLITE (AMPH ALT'D) As above,traces po py											
170.8	175.4	GRANITIC DIKE (GRAN) As before.											
175.4	231.2	AMPHIBOLITE (AMPH ALT'D)	423	204.00	205.70	1.70	4	0.06	4	30	1	15	0.79
		Dark green,fine to medium grained,well foliated at ~55 to C.A.	424	206.30	208.00	1.10	10	0.14	1	280	1	43	2.02
		Several silicified quartz rich sections,blotchy in sections,	425	208.00	210.50	2.50	10	0.16	0	320	2	32	1.62
		with considerable biotite.	426	210.50	215.50	5.00	14	0.28	16	630	1	19	1.76
		SAMPLE RECORD	427	215.50	220.00	4.50	34	0.39	11	910	3	23	3.03
		204.0-205.7 20% sil'd greyish,mrx.	428	220.00	224.00	4.00	12	0.17	87	370	6	30	3.34
		206.3-208.0 sil'd as above.	429	224.00	229.20	4.40	10	0.09	10	126	5	48	2.75
		208.0-210.5 1-3% po py diss.	430	229.20	231.00	1.80	5	0.36	7	196	8	132	6.94

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: cb-13

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
		210.5-215.5 mod.sil'n, 1-3% po py											
		215.5-220.0 moderately silicified,1-3%po,py											
		220.0-224.8 as above											
		224.8-229.2 as above											
		229.2-231.0 as above											
		231.0-232.5 biotitic,10% po py,sharp lower contact with a hairline stringer Cpy on contact.											
232.5	240.0	GRANITIC DIKE (GRAN) As before.	431	232.00	232.50	1.50	0	0.50	12	550	0	175	11.10
240.0		Foot of Hole.											


967384
967385
967386
967466
CB-15, 15A
33M
CB-16
268 M
CB-14
328 M
967389
967388
967387
BAY OF HELDER LAKE
SCALE 1 : 5 000
967470
967395
967396
L 13900 E
L 13400 E

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: cb-14
Collar Eastings: 13200.00
Collar Northings: 10325.00
Collar Elevation: 0.00

Collar Inclination: -45.00
Grid Bearing: 180.00
Final Depth: 396.00 feet

Logged by: L.Chastko
Date: Mar.8-12 89
Down-hole Survey:

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
0.0	23.0	CASING (CAS)											
23.0	47.6	AMPHIBOLITE (B AMPH) Banded-Tuffaceous? Dark green,fine grained,banded and well foliated at ~70 to C.A.,intermittent lighter to dark green bands ranging from amphibole to chlorite rich bands,minor silic'n, minor x fractures. 47.3-47.6 chlorite & biotite leached to light green.											
47.6	48.1	MASSIVE SULPHIDE BRECCIA (MS BX) 50% sulphides,50% fragments of siliceous & biotite-chlorite fragments.Frags. rounded.Overall sulphides 25%po,10%py,5-8%Zns, sharp upper & lower contacts at~70 to C.A.Conformable to banding & foliation wall rock above & below sulphide segragated into biotite & chlorite-amphibole rich bands-varying from light green to dark brown. SAMPLE RECORD 47.6-48.1	441	47.60	48.10	0.50	40	1.22	15	480	45	10300	22.30
48.1	49.7	AMPHIBOLITE (B AMPH) Banded,crudely segragated into biotite & amphibole chlorite rich bands.Banded light green to dark brown,leached & altered. 5-8% blebs & fine irregular stringers po,py,Zns. SAMPLE RECORD 48.1-49.7	442	48.10	49.70	1.60	2	0.47	12	320	13	1430	7.91
49.7	50.1	GRANITIC DIKE (GRAN) Pink-pegmatitic,sharp contacts at ~70 to C.A..											
50.1	72.7	AMPHIBOLITE (AMPH) Dark green,fine grained,massive-non banded.Well foliated at 60-65 to C.A.,micro brecciation displayed in sections,increase in chlorite & biotite towards lower contact,also some segragation of minerals into crude bands.Sharp lower contact.											
72.7	76.7	MASSIVE SULPHIDE BRECCIA (MS BX) 60-65% sulfides,35-40% siliceous & chlor-biotite fragments. Fragments well rounded-generally under 2cm diameter,also include disseminated sulfides in fragments.Overall 30-35% po,30-35%py. Sharp upper,lower contacts. SAMPLE RECORD 72.7-76.7	443	72.70	76.70	4.00	6	0.56	107	310	3	750	31.60

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: cb-14

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
76.7	77.2	AMPHIBOLITE (B AMPH) Banded,as above.											
77.2	112.6	BANDED IRON FORMATION (BIF) Crudely intercalated chert,chlorite biotite magnetite,varying in content,minor garnetiferous bands.banding ranges from 40-80 to C.A. 3-8% irregular stringers & disseminated po,py,magnetite occurs as crude to fine bands as well as disseminated xls. 96.0-112.6 general increase in chert-greyish from 106.-112.7 almost non banded chert with minor disseminated sulfides & disseminated fine magnetite. 94.0-95.0 vuggy BIF-Strongly magnetic in sections. SAMPLE RECORD 76.7-79.2 5% po py 79.2-83.9 " 83.9-88.6 " 88.6-93.2 10% po,py 93.2-97.9 5% po,py 97.9-102.4 10% po,py 102.4-107.1 3% po,py 107.1-112.6 2% po,py	444 445 446 447 448 449 450 451	76.70 79.20 83.90 88.60 93.20 97.90 102.40 107.10	79.20 83.90 88.60 93.20 97.90 102.40 107.10 112.60	2.50 4.70 4.70 4.60 4.70 4.50 4.70 5.50	4 2 2 4 2 6 2 2	0.24 0.14 0.07 0.16 0.09 0.10 0.03 0.02	82 35 33 55 72 260 22 19	90 35 18 32 24 35 17 9	6 1 0 1 0 0 0 1	58 77 44 137 61 36 36 58	6.57 8.76 12.20 11.90 10.30 9.75 9.20 3.15
112.6	113.5	AMPHIBOLITE (AMPH) Massive to foliated,dark green,fine grained.											
113.5	114.1	GRANITIC DIKE (GRAN) Pegmatitic,sharp contacts.											
114.1	181.7	AMPHIBOLITE (AMPH ALT'D) Dark green,fine grained,non banded,well foliated at 60 to C.A. Minor sil'd stringers & x fractures.<<1% disseminated & blebs po py. SAMPLE RECORD 166.2-167.3 -greyish white,quartz stringers,nvs,from 166.' zone biotite segregated bands,increase in foliation.	451	166.30	167.30	1.10	2	0.01	28	9	7	5	0.56
181.7	185.9	GRANITIC DIKE (GRAN) Pegmatitic,mottled white & grey,medium to coarse grained,coarse clusters of biotite.											
185.9	318.0	AMPHIBOLITE (AMPH ALT'D) As above											

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: cb-14

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
328.0	330.6	GRANITIC DIKE (GRAN) Mottled,pinkish grey,medium grained,sharp contacts.											
330.6	337.0	BANDED IRON FORMATION (BIF) 20% magnetite fg,lean bands,40% chert,20-25% chlorite amphibole biotite. 10% popy in fine bands & blebs.Banding displays folial folding. General banding at ~65 to C.A. SAMPLE RECORD 330.6-334.0 334.0-337.0	453 454	330.60 334.00	334.00 337.00	3.40 3.00	8 16	0.30 0.00	54 12	81 105	0 0	47 48	13.00 13.50
337.0	359.5	AMPHIBOLITE (AMPH/GRAN) Contaminated-Granitic Peg. stringers,amphibolite & pegmatitic stringers zone.Amphibolite altered,well foliated at ~80 to C.A. 30% granite-peg. stringers.											
359.5	396.0	GRANODIORITE (GRANDIO) Mottled grey & white,medium grained.Wispy biotitic stringers, well foliated at ~60-65 to C.A.,minor amphibolite contaminated bands.											
396.0		E.O.H.											

CHAMPION BEAR RESOURCES LTD.

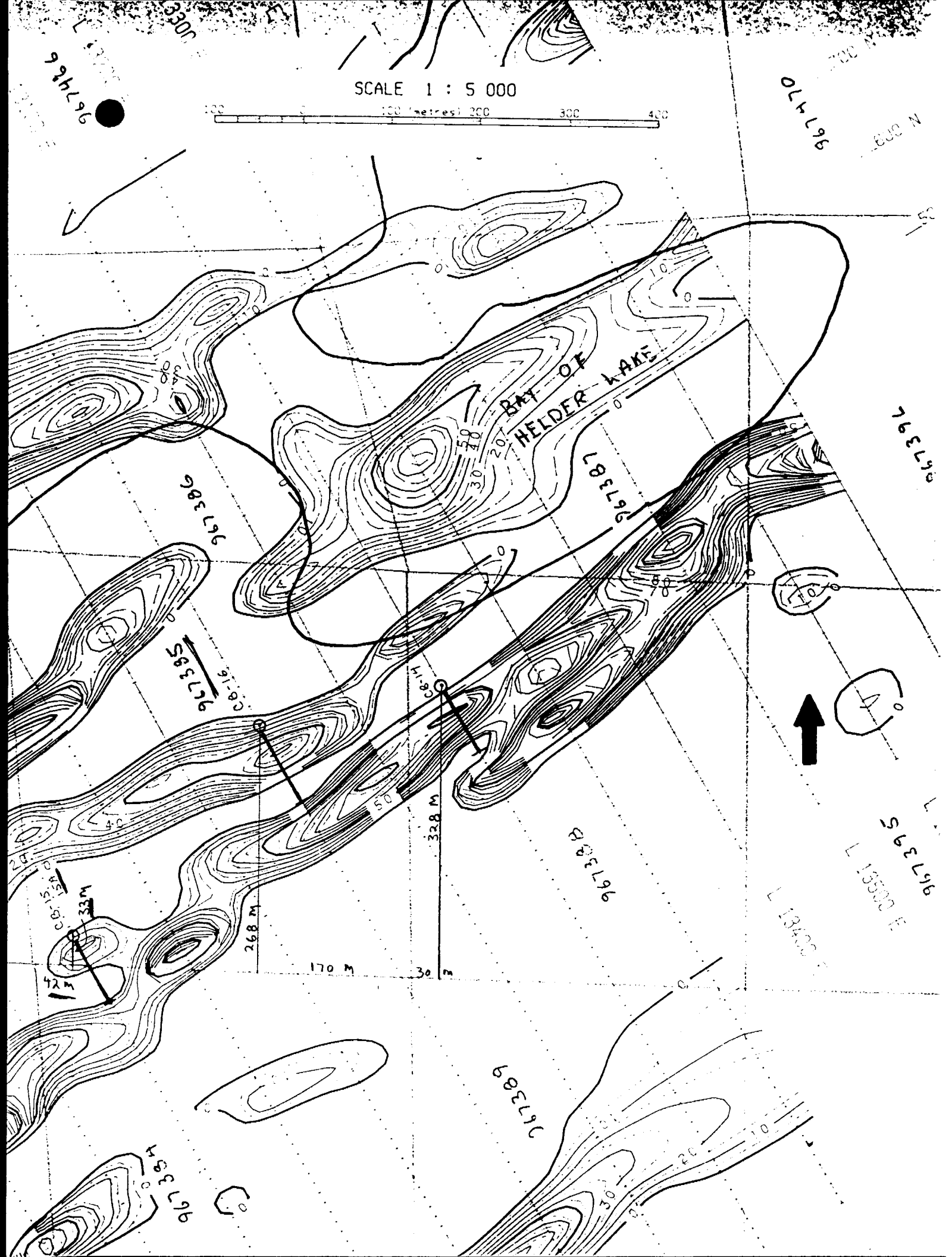
DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: CB-15A
Collar Eastings: 12700.00
Collar Northings: 10290.00
Collar Elevation: 0.00

Date:
Logged by: P. Barc
Collar Inclination: -45.00
Grid Bearing: 180.00
Final Depth: 80.00 feet

FROM	TO	LITHOLOGICAL DESCRIPTION
0.0	82.0	CASING (CAS)
	2.0	F.O.H.

per Paul Barc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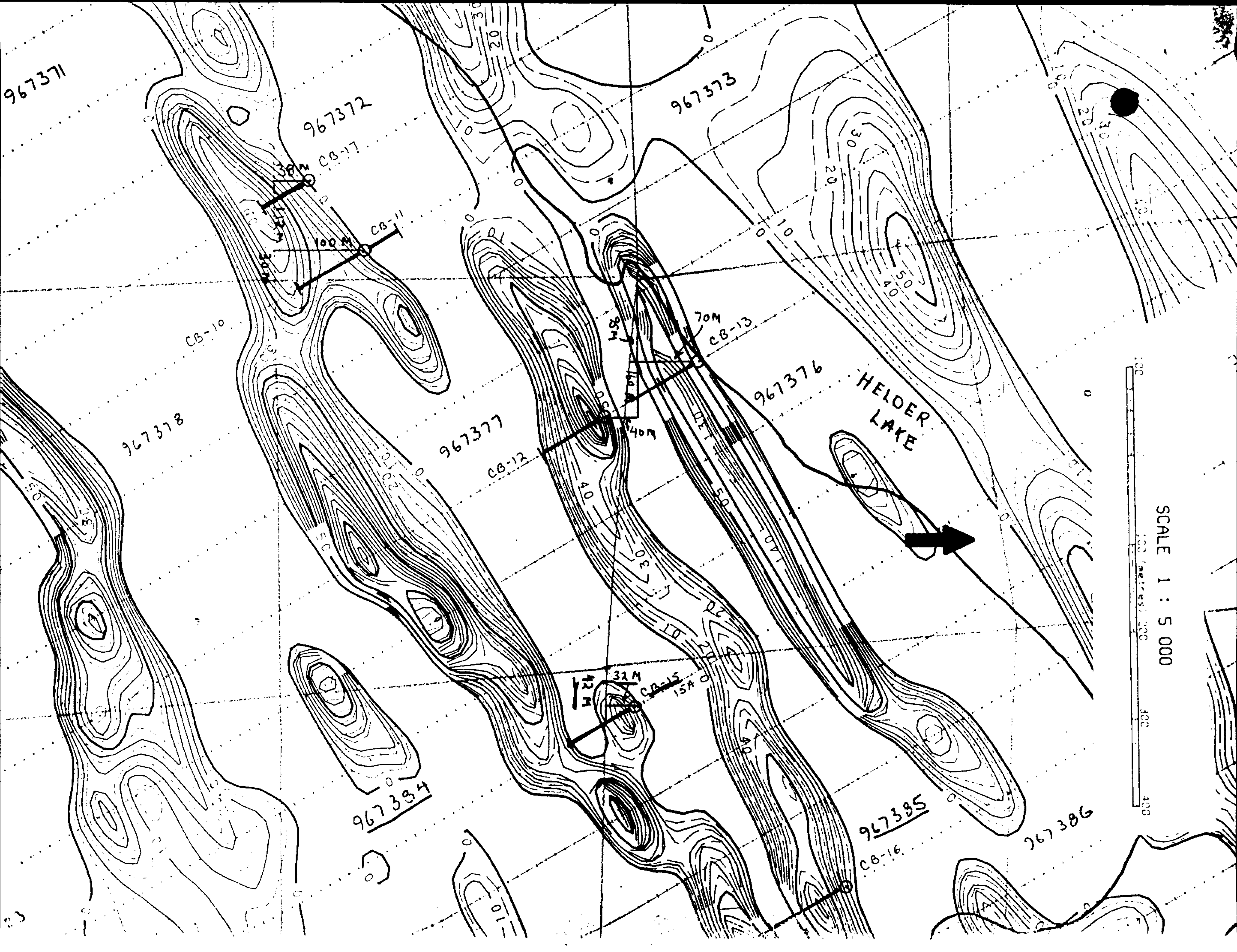
BAY OF HELDER LAKE
CB-15A
CB-16
CB-14
332 M
268 M
328 M
170 M
42 M
30 m


967371
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967378
967384
967385
967386
HELDER LAKE
CB-17
CB-11
CB-10
CB-12
CB-13
CB-15
15A
CB-16
38M
100 M
70M
40M
32M
42 M
SCALE 1 : 5 000

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: cb-15
Collar Eastings: 12700.00
Collar Northings: 10290.00
Collar Elevation: 0.00

Collar Inclination: -65.00
Grid Bearing: 180.00
Final Depth: 360.00 feet

Logged by: P.Barc
Date: Mar.15-21 89
Down-hole Survey:

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
0.0	87.0	CASING (CAS)											
87.0	207.5	AMPHIBOLITE (MOTT AMPH)	455	204.50	205.00	0.50	34	0.05	197	95	0	31	3.01
		Mottled texture,fine to med.grained amph-chl-plag schist,	456	206.50	207.50	1.00	28	0.05	48	28	0	71	21.00
		well foliated at 45 to C.A.,variable silicification,conform-											
		able lenticular fracture quartz filled features.											
		87.' - 96.' blocky+broken core.											
		134.'- 135.' qtz-garnet 'vien'.											
		204.'- 207.5' 3-.5' plag-bte-qtz-ate vieas near top of GRAN DIKE											
		----------vfg to fg AMPH,homogeneous color,grey,near dike top.											
207.5	209.0	GRANITIC DIKE (GRAN)											
		Pg,garnetiferous white dike,gradual contacts.											
209.0	216.5	AMPHIBOLITE (MOTT AMPH)	457	211.00	212.50	1.50	10	0.00	32	33	0	34	0.00
		Similar to previous,greater silicification,3-1.'quartz-magnetite											
		pyrite 2-5% conformable vieas.foliation changed to 55-60 to C.A.											
		211.' - 212.5' qtz-ate-py 'vien'											
		SAMPLE RECORD											
		214.5'- 215.5' qtz-ate-py 'vien'											
		216.5'- 217.5' qtz-ate-py 'vien'											
		210.0'- 212.5'											
216.5	344.0	BANDED IRON FORMATION (BIF)	458	216.50	221.00	4.50	36	0.15	85	57	0	33	21.50
		Gradual upper,lower contacts.Very fine grained,vfg,well banded	459	221.00	222.10	1.10	26	0.30	8	95	0	16	18.10
		green/white (1cm->6cm bands.Foliation,banding at 45 to C.A.	460	222.10	223.00	0.90	16	0.48	7	153	0	26	23.60
		composition qtz/chl-qtz-ate of bands,py in chl rich bands,1-2%,	461	223.00	227.50	4.50	10	0.15	31	48	0	15	19.50
		Aspy 2-4mm grains in chl & cm band 234.5'.	462	227.50	232.70	5.20	8	0.05	9	21	0	37	14.90
		Minor ate 1-5% disseminated f-mg grains in qtz rich bands.	463	232.70	234.50	1.80	8	0.03	15	14	0	37	17.40
		227.' - 230.' Banding,foliation changed to 65-70 to C.A.	464	234.50	235.00	0.50	13	0.06	260	22	0	131	17.70
		243.' Pg garnetiferous 1.' section.	465	235.00	238.00	3.00	6	0.02	27	3	0	58	14.30
		SAMPLE RECORD	466	238.00	243.50	5.50	10	0.11	16	31	0	37	11.70
		216.5'- 221. py	467	243.50	244.00	0.50	8	0.27	12	50	0	48	14.20
		221.' - 222.1 qtz-bte-py5% 'vien'											
		222.1'- 223. qtz 'vien'											
		223.' - 227.5 227.'-.1'py-fg breccia											
		227.5'- 232.7 contorted banding											
		232.7'- 234.5											
		234.5'- 235. Aspy 2-4mm grains.											
		235.' - 238. py											
		238.' - 243.5 py2%,fg garnets											
		243.5'- 244. py20% in .1' qtz-garnet-chl 'vien'											

HOLE No: cb-15

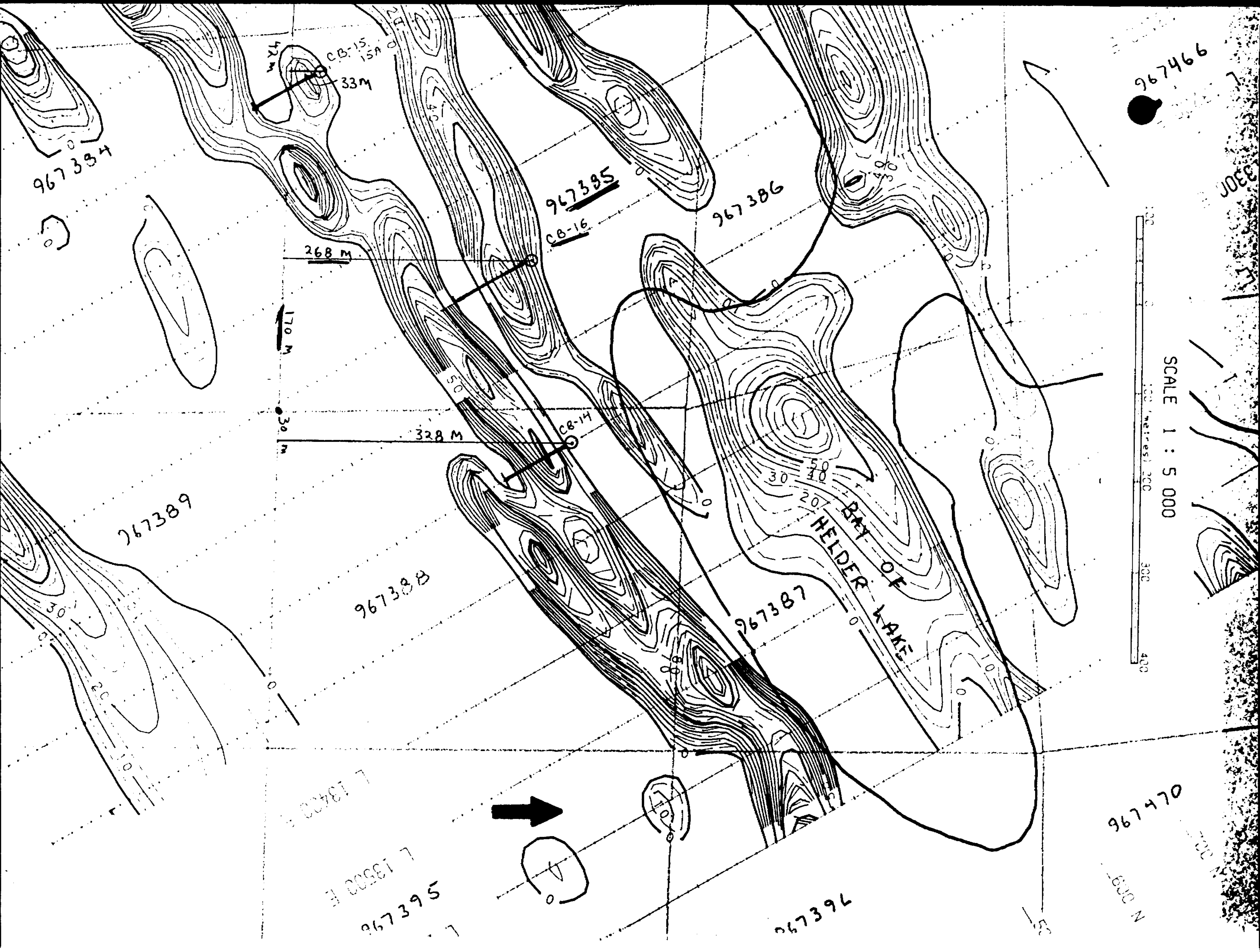
per Paul Barc

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: cb-15

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
		244.0'- 246.5 pyl% at top of intrusive unit.											
246.5	360.0	GRANODIORITE (GRANDIO)	468	244.00	246.50	2.50	6	0.05	18	15	8	14	14.70
		Fg,qtz-bte-plag,grey white,well foliated at 50% to C.A.											
		Abundant m-coarse grained plag porphyroblastic crystals.											
		Slight vfg- finer at top of unit.											
		lca-1.'amphibolitic,bif xenoliths,abundant,5% to 320.'											
		271.' 273.' qtz-bte vien,mvn											
		281.' 282.5' Amph. xeno.											
		298.' 298.5' Amph. xeno.											
		305.' 306.' schistoce Amph xenolith											
		308.' 309.' qtz-bte vien,mvn.											
		355.' 358.' qtz-bte-mte 'vien',strongly magnetic.											
360.0		T.O.H.											


967384
CB-15, 15A
33M
967385
CB-16
268 M
967386
967466
170 M
30 M
328 M
CB-14
967389
967388
967387
BAY OF HELDER LAKE
SCALE 1 : 5 000
967470
967395
967396
L 13400 E
L 13500 E

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: cb-16
Collar Eastings: 13000.00
Collar Northings: 10390.00
Collar Elevation: 0.00

Collar Inclination: -45.00
Grid Bearing: 180.00
Final Depth: 416.00 feet

Logged by: P.Barc
Date: Mar.21-25 89
Down-hole Survey:

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
0.0	46.0	CASING (CAS)											
46.0	49.0	GRANITIC DIKE (GRAN) Fg,pale pink,fractured blocky core.											
49.0	52.0	AMPHIBOLITE (AMPH ALT'D) Altered to f-cg qtz-garnet-plag-bte schist at base of gran.dike.											
52.0	57.0	AMPHIBOLITE (B AMPH) Banded,green black/white,well foliated at ~20 to C.A. Minor pods of ep-chl-qtz-py ,<.2',minor narrow,<.5',fg garnetiferous section.Banding irregularily dist'd.Minor irregular py stringers+diss.py+pyhr..											
57.0	71.0	AMPHIBOLITE (MOTT AMPH) Mottled fabric,chl-amph-plag schist,fg,generally well foliated at ~20 to C.A. minor irreg.fol'd sections.Minor banded section 63-64 foliation at ~60 to C.A.											
71.0	133.0	AMPHIBOLITE (B AMPH) Banded texture,vfg.,fol'd at ~10-20 to C.A.Similar to 52.-57.'Variable size and dist'n of bands & pale altered sections. Minor pods of ep-chl-plag-qtz-py 5%.Minor garnetiferous,bte-qtz schist,altered sections.Minor fractures,broken core 70.5-.5'. 72'-72.5' py 10% in pod. 76.5-.8' ep-chl pod. 80.5'-.8' bte-garnet schist 113.6-114.1' garnet-bte schist 116.-.2' garnet-bte schist 126-133' slightly mottled fabric,vfg. SAMPLE RECORD 103.4-103.9' pyhr 10%,py 2% in bte-garnet,silic.schist.	470	103.40	103.90	0.50	10	0.30	12	150	0	28	9.84
133.0	135.0	AMPHIBOLITE (MOTT AMPH) Mottled fabric,vfg,gradational with up/ lower units. Vfg chl-amph-bte-plag -qtz schist.											
135.0	142.5	AMPHIBOLITE (AMPH ALT'D) Altered to garnet-bte-chl-plag-amphibole schist.Weakly foliated, moderately banded at 10-20 to C.A.20% f-cg garnet, irregularily dist'd.											

per Paul Barc

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: cb-16

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
142.5	143.0	MASSIVE SULPHIDE BRECCIA (MS BX) 40% fg qtz clasts,matrix of 50% pyhr,10% py.. SAMPLE RECORD 142.5-143.0	471	142.50	143.00	0.70	3	0.40	5	550	0	27	18.30
143.0	151.0	QUARTZITE (QTZ'TE) Amphibolite? altered to black,weakly banded qtz-hbe- amphibole-garnet schist.Foliation variable,10-20% to C.A.. Minor py+pyhr. in qtz'vien' sections,pyhr '10%,py<2% 143-151'. SAMPLE RECORD 143-144.2' garn 5%,pyhr10%,py2% 144.2-144.7' las 3%?,pyhr10% 144.7-146' pyhr10%,py2% 146'- 149' pyhr10% 149'- 150.2' pyhr>20%,py5% 150.2'-151' py>5%,pyhr.	472 473 474 475 476 477	143.00 144.20 144.70 146.00 149.00 150.20	144.20 144.70 146.00 149.00 150.20 151.00	1.20 0.50 1.30 3.00 1.20 0.80	8 4 4 4 6 12	0.30 0.15 0.12 0.12 0.10 0.61	3 3 3 8 4 10	360 125 129 149 270 400	0 0 0 0 0 0	84 93 90 82 27 84	11.80 10.70 9.76 6.82 7.36 11.50
151.0	163.1	AMPHIBOLITE (AMPH ALT'D) Black,fg,altered,baked?,non banded to weakly banded, foliated at 70 to C.A.,foliation also variable orientation. Banding often contorted.Minor cross fractures,silicified,to>1mm. Minor diss.pyhr.+py.,minor f-mg garnet,irreg.dist'd. Minor qtz rich 'vien' sections. 162.6-.8 Qtz-pyhr-py 'vien' SAMPLE RECORD 157- 157.8' silceous,5% mg garnet,5%pyhr,5%py..	478	157.00	157.80	0.80	4	0.90	3	136	1	59	7.90
163.1	178.6	AMPHIBOLITE (AMPH ALT'D) Variabely silicified,black fg with white 1-2mm bands conformable and crosscuting foliation.Well foliated at 30 to 50 to C.A..Quartz rich sections up to 2.', with pyhr <20%,py 5%.Mg pink garnet 5-10% ,often near margins of quartzite sections.Minor disturbed banding 176-.6' SAMPLE RECORD 163.2-165.7 Silicious,pyhr10%,py5%. 165.7-169 minor garnet 169-170.8 garnet,py<5% 170.8-171.5 171.5-172.7 qtz rich, minor garnet,py>10% 172.7-175.2 pyhr<5%,minor py 175.2-177.5 garnet 177.5-178.6 qtz rich,pyhr20%,py2%	479 480 481 482 483 484 485 486	163.00 165.70 169.00 170.80 171.50 172.70 175.20 177.50	165.70 169.00 170.80 171.50 172.70 175.20 177.50 178.60	1.90 3.30 1.80 0.70 1.20 2.50 2.30 1.10	8 8 8 4 6 6 6 26	0.15 0.07 0.15 0.07 0.33 0.21 0.11 0.30	5 13 2 5 5 2 5 4	172 52 160 61 310 179 116 530	4 6 2 3 3 1 3 2	28 33 44 49 66 38 75 22	0.70 1.33 2.23 5.77 9.76 9.76 9.49 14.50

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: cb-16

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
178.6	197.8	AMPHIBOLITE (AMPH ALT'D) Black,fg,silicified,garnetiferous.Minor crosscutting plus conformable silicification features.Foliated at 10 to C.A..Sections up to 40% mg-cg >2cm. pink garnet.Sections as follows; 178.6- 182.' garnetiferous 182. - 184.' amphibolite,alt'd 184. - 189.2'garnetiferous 189.2- 191.5'amphibolite,alt'd 191.5- 192.2'garnetiferous 192.2- 197.8 amphibolite,alt'd										
197.8	198.8	GRANITIC DIKE (GRAN) Qtz-bte-Green colored,brecciated texture,irregular lower contact, gradual upper contact thru white-banded altered host rock.										
198.8	200.8	AMPHIBOLITE (B AMPH) Black,very fine grained,homogeneous to weakly banded texture,well foliated at ~15 to C.A..										
200.8	201.7	GRANITIC DIKE (GRAN) F-ag,weakly graphic texture,garnetiferous amph. top contact, irregular lower contact.										
201.7	290.8	AMPHIBOLITE (B AMPH) Grey black,vfg.,banded,altered.Color variable to green black. Foliated at 5-10 to C.A..Minor to .4' garnetiferous sections. Minor,irregular distribution of pale white alt'n 229'-234'. 206-212' minor qtz rich section,2% pyhr,1-1'20% pink fg garnet 233.'-233.5' silcious alteration,brecciated. 239.6-240.5' 1-.1' 20% fg garnet sections. 287.2'-287.4' >20% fg garnet. 281'-289.' mafic rock,foliation irregular orientation,contorted, to 60 to C.A..										
290.8	291.6	GRANITIC DIKE (GRAN) F-ag,weakly graphic texture,sharp contacts.										
291.6	292.	AMPHIBOLITE (B AMPH) Green black color,weakly banded texture.vfg..										
292.	292.9	GRANITIC DIKE (GRAN) Similar to previous.										

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: cb-16

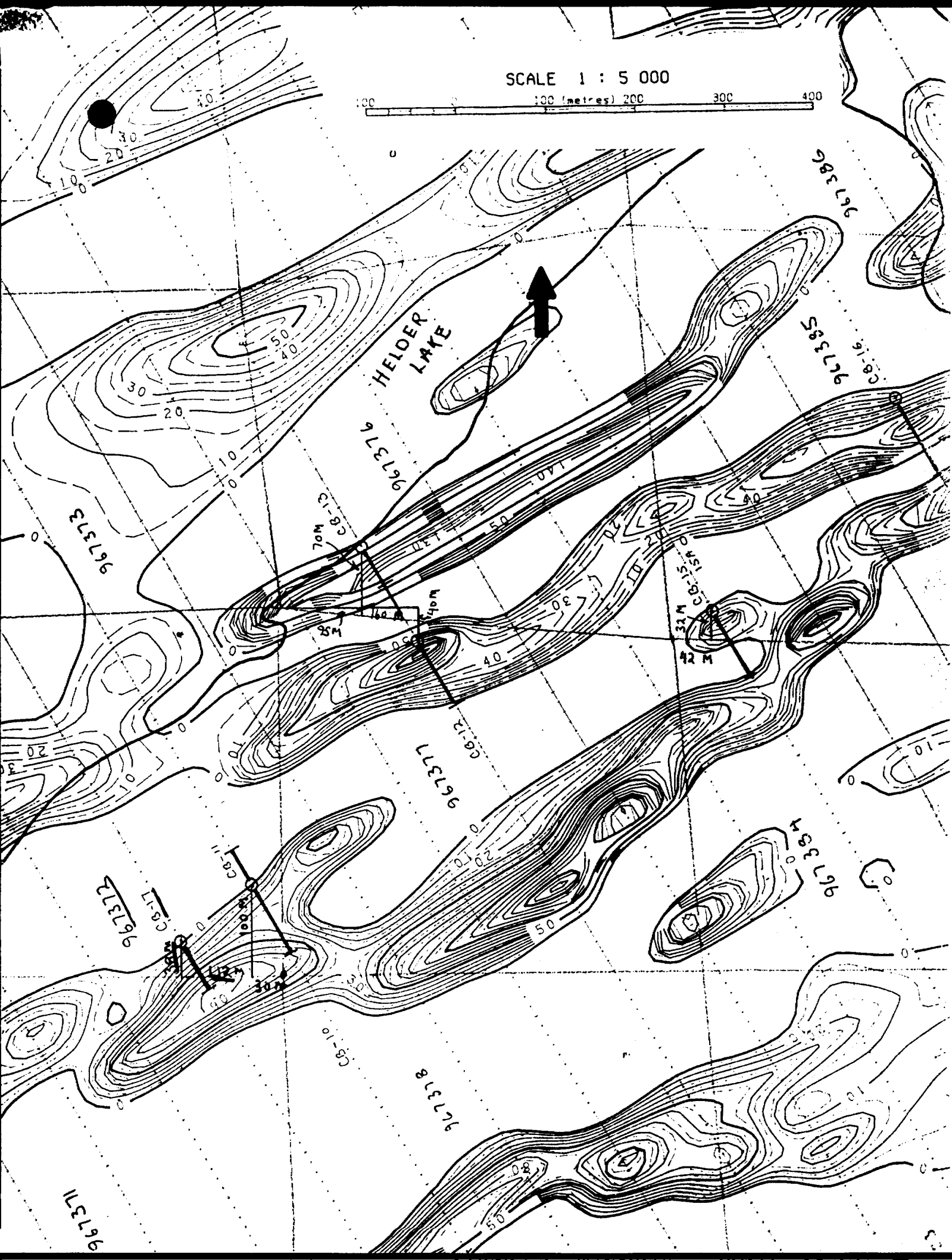
FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
292.9	299.4	AMPHIBOLITE (B AMPH) Similar to previous.											
299.4	315.7	GRANITIC DIKE (GRAN) Fg.,minor xenoliths. 301-302 broken core 304.6-304.8 f-mg mte 10%.											
315.7	321.7	MASSIVE SULPHIDE BRECCIA (MS BX) 40% qtz clasts fg-pebble 3cm size. matrix supported by massive pyhr. 60% Poorly sorted, angular to subrounded qtz clasts. SAMPLE RECORD 315.7'-320.4' pyhr 50% 320.4 -321.7' pyrite 30% pyhr 30% 321.2'-321.7' minor pyrite 30% at base of S breccia.	487 488	315.70 320.40	320.40 321.70	4.70 1.30	4 16	0.90 1.88	15 23	320 320	1 2	81 70	31.00 26.50
321.7	333.1	BANDED IRON FORMATION (BIF) Abrupt upper contact,gradational lower contact.Weakly to well banded,green white,garnetiferous often in green bands. Bands variable 1mm->.1',fol'n generally at 10 to C.A. to 325.', gradual increase to >30 to C.A. to 330.'Traces py+pyhr 327.'-331.' NOSE OF FOLD ? Tight,abrupt 180 change in foliation over 1.',then foliation at 10-20 to C.A.. SAMPLE RECORD 321.7- 329.7 329.7- 333.1	489 490	321.70 329.70	329.70 333.10	8.00 3.40	5 4	0.26 0.12	81 90	25 10	1 0	108 67	18.10 13.10
333.1	340.8	AMPHIBOLITE (AMPH ALT'D) Altered to fg,black quartzite composition.Minor banded texture, minor section of amphibolite composition. 333.6'-336.2' 2-.6' qtz-chl-mte-py 1% "veins" SAMPLE RECORD 333.1'-333.6' "qtz vein" 336.2'- 340.8' Silicious,wkly banded,chl-garn/qtz,pyhr>5%,py2%	491 492	333.10 333.60	333.60 340.80	0.50 7.20	2 6	0.07 0.14	61 75	10 11	2 1	31 96	3.93 9.10
340.8	366.2	MASSIVE SULPHIDE BRECCIA (MS BX) Fg to cg lcm,weakly bimodal qtz clasts fg+cg,qtz 20%,matrix supported pyhr 80%.Minor section .5' py 25%,pyhr40%,qtz 35%. 346'-366.2' increased angular qtz pebble clasts,reduced pyhr content to 35%. SAMPLE RECORD 340.8'- 342.5 pyhr80% 342.5'- 347.4 pyhr<50%,poor sorted cg/pebble qtz clasts.	493 494 496 495 498 497 498	340.80 342.50 347.40 347.90 353.60 359.40 364.00	342.50 347.40 347.90 353.60 359.40 364.00 366.20	1.70 4.90 0.50 5.70 5.80 4.60 2.20	18 72 72 52 20 100 44	0.80 0.88 0.88 1.30 1.76 2.40 1.00	53 66 66 72 36 29 58	171 380 380 195 330 330 172	2 4 4 4 4 5 2	50 115 115 400 34 79 78	30.40 21.70 21.70 23.90 31.10 28.20 28.40

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: cb-16

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
		347.4'- 347.9 py 25%, pyhr 40%											
		347.9'- 353.6 pyhr 40%											
		353.6'- 359.4 pyhr 40%											
		359.4'- 363. pyhr<20%											
		363.' - 364. pyhr<20%											
		364.' - 366.2 pyhr 20%, py 1%											
366.2	406.8	BANDED IRON FORMATION (BIF)	499	366.20	368.30	2.10	10	0.33	85	33	2	39	6.08
		Similar to previous BIF	500	368.30	373.30	5.00	8	0.22	76	27	0	35	10.60
		Weakly banded green-white at '45 to C.A. to 388.'	501	373.30	378.10	4.80	18	0.10	196	20	0	36	14.00
		388.'- 406.8 change in foliation attitude to '10 to C.A..	502	378.10	382.90	4.80	20	0.05	340	17	0	38	16.30
		Minor diss.py+pyhr,py in conformable fractures,<<1% 366.2-406.8'	503	382.90	387.60	4.70	8	0.05	72	16	6	86	8.62
		Minor,.6' qtz-py10%'vien'	504	387.60	392.40	4.80	0	0.13	26	26	6	86	4.63
		SAMPLE RECORD	505	392.40	395.70	3.30	4	0.04	116	14	3	67	12.10
		366.2'-368.3' pyhr 5%	506	395.70	396.40	0.70	24	0.17	1820	67	2	130	13.10
		368.3'-373.3' py 2%	507	396.40	400.70	4.30	2	0.05	24	18	3	34	6.68
		373.3'-378.1' .2' broken core,py2%	508	400.70	406.80	6.10	2	0.06	9	27	1	38	6.08
		378.1'-382.9' minor pyhr.											
		382.9'-387.6' ave											
		387.6'-392.4' ave											
		392.4'-395.7' ave											
		395.7'-396.4' py10%,vuggy qtz-py vien.											
		396.4'-400.7' ave											
		400.7'-406.8' sharp contact,chl-fg garnet along BIF margin.											
406.8	416.8	AMPHIBOLITE (AMPH)											
		Green black,vfg.,non banded,foliated at 10-15 to C.A..											
416.8	_	T.O.H.											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CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: cb-17
Collar Eastings: 12000.00
Collar Northings: 10275.00
Collar Elevation: 0.00

Collar Inclination: -45.00
Grid Bearing: 180.00
Final Depth: 306.00 feet

Logged by: P.Barc
Date: Mar.25-27 89
Down-hole Survey:

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
0.0	19.	CASING (CAS)											
19.	20.1	GRANITE (GRAN) Fg granitic rock,lower contact not observed,overburden?											
20.1	160.0	AMPHIBOLITE (B AMPH) Well banded,lmm->1cm pale bands,silicification,in green black rock,well foliated at 25-30 to C.A.. Minor blocky core to 23.' Minor py along fractures. Minor carbonate +qtz along cross fractures 60'-61' 159.'-160.' qtz-bte alt'n along foliation planes at top of granitic dike.											
160.0	161.4	GRANITIC DIKE (GRAN) Fg,sharp upper,crenulated lower contact.											
161.4	162.6	AMPHIBOLITE (B AMPH) Altered,similar to 159-160'											
162.6	163.2	GRANITIC DIKE (GRAN) Similar to previous.											
163.2	186.1	AMPHIBOLITE (B AMPH) Similar to 20.1-160., slight darker color,black homogenous,less banding.Minor qtz-chl-py$3 lmm-1cm conformable"veins". Well foliated at ~30 to C.A..											
186.1	186.4	MASSIVE SULPHIDE BRECCIA (MS BX) F-ag angular qtz+amphibolite clasts 70%,fg pyhr matrix 30%. Upper,lower contacts not observed. SAMPLE RECORD 186.1'-187.2'											
186.4	187.7	AMPHIBOLITE (AMPH ALT'D) Pale grey color,silicified-altered,weakly banded texture,with green-pink bands along foliation planes,foliation at 45 to C.A. Fg pyhr <10%,disseminated grains.	509	186.10	187.20	1.10	2	1.51	633	650	6	57	13.40
187.7	191.1	QUARTZ-SULPHIDE VEIN (QTZ SV) Qtz-sulphide breccia,ag to cg qtz clasts+amph. clasts 40%,pyhr 50%,py10%.Py found in core of vien,>70% py over .3'.	510	187.20	188.00	1.80	3	9.78	3	37	1	87	23.30
			511	188.00	188.50	0.50	4	1.12	6	300	1	35	27.40
			512	188.50	188.30	0.80	4	1.14	3	100	1	36	34.70

R C Clot per Paul Barc.

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: cb-17

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
		"Clasts" generally angular,core of vien(189.'-.8') fg,rounded qtz clasts.Minor cross fractures with pyhr-qtz-carbonate mineralization. SAMPLE RECORD 187.2'-189.' pyhr 75%,py5% 189.' -189.5'py80% 189.5'-190.3'pyhr 90%,py10% 190.3'-192.1'pyhr 10%											
191.1	193.3	AMPHIBOLITE (MOTT AMPH ALT'D) Mottled,altered,silicified app.Vfg chl-anph-bte-qtz schist, well foliated,weakly banded at ~45 to C.A.. Minor cross fractures 1-1cm.,healed with pyhr80%,py5%,qtz15%, carbonate mineralization. SAMPLE RECORD 192.1'-193.3' pyhr+py x fractures	513 514	190.30 193.10	193.10 193.30	1.80 1.20	84 28	1.00 0.36	36 125	260 30	1 6	160 270	18.00 6.51
193.3	207.9	AMPHIBOLITE (B AMPH) Banded texture,vfg.,green black,silicified,gradational contacts.											
207.9	221.4	AMPHIBOLITE (MOTT AMPH) Mottled texture,f-mg chl-anph-plag schist. Gradual top,sharp lower contacts.Well foliated at 25-30 to C.A. Hvn,minor banding,silicification.Minor,.2' qtz vien,barren.											
221.4	258.2	AMPHIBOLITE (MOTT AMPH) Mottled,vfg,banded textures.Blue black color,well foliated at ~10 to C.A..Minor,1-2cm.conformable qtz-chl-py 10% vien. 244.6'-245.' qtz vien,barren.											
258.2	259.0	BANDED IRON FORMATION (BIF) Fg green white-chl-ste-anph-qtz weakly banded,well foliated at 0-10 to C.A..Minor pyhr <10%,near middle & base of IF in weakly conformable bands-1-2cm.bands. SAMPLE RECORD 258.2'-259.0'											
259.0	263.8	AMPHIBOLITE (MOTT AMPH ALT'D) Weakly banded,vfg mottled textures,grey black,silicified-bte altered.											
263.8	277.8	BANDED IRON FORMATION (BIF) Grey-white/green-white qtz/chl-ste qtz weakly to well banded at 0-20 to C.A.,Foliation attitude variable.Pyhr <10%,py<<5%,	516 517 518	263.80 265.70 266.20	265.70 266.20 268.80	1.90 0.50 2.60	36 146 12	0.15 0.39 0.13	15 6 13	33 31 27	0 0 0	35 21 13	21.40 14.70 17.60

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: cb-17

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
		sulphides concentrated near 266-.5',269-270.'in chl-green	519	266.50	269.50	0.70	12	0.27	10	56	0	22	19.90
		rich sections.If generally silicious- ate poor,absence of	520	269.50	271.00	2.30	0	0.12	15	30	0	23	16.50
		cross fractures,avdspy,minor garnet,esp.in pyhr-py chl sections.	521	271.00	277.00	5.30	52	0.18	93	34	0	16	14.40
		Narrow,.5',SHEAR,green silicious,base of BIF,mylonitic texture.	522	277.00	277.80	0.80	88	0.35	13	59	1	63	11.50
		271.8 to 277. BIF silicious,vfg.,black color with minor chl-											
		green bands,banding,foliation at 10 to C.A.,weakly magneti											
		Slight baked appearrance.Minor disseminated py+pyhr 2%,5%.											
		SAMPLE RECORD											
		263.8'-265.7' py,pyhr<<1%											
		265.7'-266.2' py10%,pyhr20% ,chloritic.											
		266.2'-268.8' py,pyhr<<1%											
		268.8'-269.5' pyhr>10%,chloritic.											
		269.5'-271.8' pyhr<2%											
		271.8'-277.8' pyhr5%,py2%											
		277.'-277.8' Broken core,mylonitic texture,ag green qtz,+bte+											
		ate-chl,py5%,pyhr5%. SHEAR.											
277.8	279.6	GRANITIC DIKE (GRAN)											
		Pink-grey,ag to pegmatitic dike,sharp contacts.											
279.6	281.1	BANDED IRON FORMATION (BIF)	523	279.60	281.10	1.50	10	0.17	41	14	2	43	6.73
		Bif altered,green white homogeneous color,weakly banded,pyhr2%.											
		SAMPLE RECORD											
		279.6-281.1											
281.1	284.4	GRANITIC DIKE (GRAN)	524	281.10	281.60	0.50	6	0.05	9	5	3	31	3.98
		Pink,cg to pegmatitic,ate ag,pyhr 5%,in qtz stringer at top of											
		dike unit.											
		SAMPLE RECORD											
		281.1-281.6 ate-pyhr5% stringer at top of dike.											
284.4	286.7	BANDED IRON FORMATION (BIF)	525	284.40	286.70	2.30	6	0.46	8	79	3	43	7.88
		Green white,weakly banded,altered,bleached appearrance,											
		pyhr10%,py>2%.											
		285.7'-286.' broken core.											
		SAMPLE RECORD											
		284.4'-286.7'											
286.7	289.3	GRANITIC DIKE (GRAN)	526	286.70	289.30	2.60	14	0.02	346	100	6	18	6.60
		Pegmatitic,pink-grey dike,with minor py-pyhr,irreg.dist'd.											
289.3	306.0	GRANODIORITE (GRANDIO)											
		Vfg-chill margin,grey massive with BIF xenoliths,gradual inc.											
		in grain size to mg foliated qtz-plag-bte granodiorite by											

CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: Helder Lake
HOLE No.: cb-17

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
	306.'	Minor phyr5%,py2%											
306.0		P.O.H.											

OMEP

TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Champion Bear

Richard Kantor

Independent Explorations

Date: February 27, 1989

Job No: 89-031

Project:

P.O. No:

242 Drill Core

Signed: _____

14-2235 30th Avenue N.E., Calgary, Alberta, T2E 7C7
Phone (403) 250-9460 Fax (403) 291-7064

TERRAMIN RESEARCH LABS Ltd.

OMGP

Job#: 89-031

Project:

Sample Number	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
1	8	0.42	64	390	5	1000	6.73
2	14	0.10	119	58	16	40	4.54
3	10	0.15	78	126	7	75	6.90
4	12	0.42	230	173	3	35	27.50
5	164	2.20	116	204	10	45	31.80
6	18	0.26	35	96	3	175	9.47
7	14	0.30	57	67	2	300	7.99
8	10	0.10	70	22	2	37	6.70
9	26	0.13	52	20	0	51	10.50
10	56	0.32	45	81	1	19	14.90
11	28	0.08	207	20	1	46	9.00
12	50	0.08	1050	20	0	32	12.60
13	28	0.03	620	13	0	29	9.60
15	18	0.03	860	8	0	26	12.40
16	28	0.06	380	14	0	34	24.80
17	16	0.04	450	18	0	18	9.85
18	12	0.02	225	14	13	119	12.40
19	12	0.02	241	16	11	59	11.50
20	22	0.05	580	30	1	22	9.69
21	12	0.11	73	52	20	139	10.70
22	20	0.03	520	12	0	23	13.50
23	4	0.02	151	4	2	8	0.93
24	22	0.06	430	27	1	19	8.84
25	188	0.11	10300	22	1	22	10.60
26	20	0.03	540	9	1	19	9.26
27	30	0.04	209	18	0	22	13.10
28	30	0.05	236	24	3	28	5.94
29	168	0.10	5900	70	1	25	20.30
30	64	0.06	2700	36	1	21	18.40
31	70	0.06	2100	34	1	14	12.20
32	32	0.06	480	38	1	13	9.28
33	60	0.24	33	104	1	13	16.40
34	24	0.04	82	26	1	15	9.55
35	30	0.11	165	63	0	17	14.80
36	18	0.06	146	34	0	15	12.70
37	108	0.06	5800	37	0	15	10.00
38	114	0.09	850	63	0	12	12.20
39	22	0.09	310	43	0	14	11.40
40	16	0.08	260	39	0	13	12.30
41	18	0.09	171	92	1	22	8.11

OMEP

Job#: 89-031

Project:

Sample Number	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
42	30	0.13	55	580	1	17	5.09
43	10	0.11	15	90	2	22	2.21
44	28	0.08	2000	23	9	104	11.20
45	318	0.22	4000	204	7	50	3.62
46	12	0.16	100	144	2	22	2.07
47	48	0.80	88	540	0	24	21.20
48	36	0.15	2700	112	1	31	9.40
49	252	0.98	24	1140	0	13	15.20
50	4	0.10	14	120	2	18	2.04
51	14	0.25	44	90	8	69	6.30
52	408	3.60	139	173	20	127	27.10
53	60	0.88	67	105	9	102	21.00
54	28	0.40	23	124	9	50	15.20
55	38	0.32	37	93	11	59	12.10
56	48	0.62	210	124	11	108	16.30
57	24	0.68	30	142	11	158	17.70
58	148	0.72	54	167	6	140	19.00
59	64	0.59	31	91	4	44	17.30
60	26	0.27	45	47	2	39	8.88
61	14	0.17	92	20	1	22	5.81
62	16	0.13	85	14	0	38	14.10
63	14	0.08	290	12	2	29	10.60
64	10	0.15	160	42	1	27	13.90
65	108	0.18	3200	65	3	26	16.10
66	70	0.09	870	19	2	24	9.69
67	80	0.13	1750	15	0	20	14.00
68	128	0.17	2800	19	0	22	11.50
69	46	0.10	500	22	2	20	8.32
70	154	0.08	1600	19	1	13	7.59
71	258	0.08	4900	22	2	13	8.51
72	88	0.09	2100	22	0	27	15.80
73	80	0.13	157	37	0	34	22.10
74	20	0.14	230	72	2	66	10.80
75	16	0.16	55	60	6	90	10.50
76	52	0.13	1000	40	4	49	7.95
77	88	0.11	870	25	1	17	11.60
78	124	0.07	2100	14	2	29	21.00
79	30	0.05	540	13	2	4	3.07
80	34	0.08	154	20	2	16	10.80
81	58	0.06	980	18	2	19	12.00

OMEP

Job#: 89-031

Project:

Sample Number	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
82	470	0.23	8000	84	5	11	10.80
83	112	0.10	1140	33	3	15	10.60
84	72	0.11	1610	42	0	14	11.90
85	2060	1.02	132000	63	1	8	16.00
86	44	0.11	4300	34	0	16	11.40
87	50	0.12	1330	38	0	20	13.50
88	10	0.05	230	14	0	30	11.00
89	190	0.08	2500	49	0	68	7.68
90	54	0.06	180	10	1	69	5.02
91	416	0.17	1420	52	0	10	12.20
92	12	0.39	131	28	0	34	9.86
93	6	0.16	160	98	0	46	4.51
94	12	0.13	150	88	1	26	2.27
95	60	0.30	12	660	0	28	4.94
96	6	0.17	130	60	1	40	3.67
97	12	0.46	72	196	4	66	16.10
98	18	0.40	83	300	1	52	18.40
99	8	0.20	58	22	6	63	6.61
100	4	0.12	56	12	0	9	4.26
101	36	0.34	71	76	1	26	9.99
102	30	0.28	69	109	0	25	9.27
103	30	0.17	200	27	0	13	8.80
104	22	0.18	54	30	0	18	12.50
105	8	0.14	24	12	0	9	6.31
106	14	0.14	66	16	0	14	8.23
107	24	0.16	6300	20	1	7	6.05
108	94	0.13	12700	6	0	10	8.47
109	24	0.09	1440	5	0	9	8.20
110	178	0.22	2500	7	0	9	10.90
111	114	0.16	4500	18	0	10	13.30
112	22	0.07	2800	32	0	18	12.20
113	8	0.23	230	30	2	11	7.09
114	38	0.13	1530	22	0	22	10.39
115	164	0.16	2200	23	1	11	7.50
116	680	0.48	4300	86	4	7	14.00
117	40	0.17	3100	23	1	9	12.30
118	32	0.16	2500	30	2	10	11.60
119	48	0.11	1420	15	0	9	10.60
120	26	0.18	850	22	1	40	10.60
121	26	0.35	127	20	0	29	5.16

OMG

Job#: 89-031

Project:

Sample Number	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
122	74	0.32	1310	25	2	57	6.80
123	624	0.26	4400	34	1	10	8.11
124	236	0.18	1390	54	0	16	16.00
125	176	0.16	570	31	1	10	7.80
126	86	0.12	840	14	0	16	12.00
127	146	0.16	1770	20	0	12	9.03
128	96	0.15	980	26	0	11	7.05
129	210	0.09	1800	18	0	27	15.70
130	392	0.18	8700	26	1	14	10.60
131	146	0.14	1410	35	0	23	12.30
132	168	0.15	1200	32	1	23	8.29
133	166	0.13	790	17	0	45	11.60
134	12	0.11	94	29	2	31	10.10
135	78	0.16	7000	58	7	123	4.94
136	144	0.21	2800	92	5	189	8.39
137	148	0.13	3050	35	1	22	9.50
138	72	0.14	540	32	2	16	10.60
139	154	0.12	2800	23	0	8	13.30
140	6	0.10	480	14	0	12	11.50
141	12	0.12	470	23	2	21	9.00
142	8	0.11	188	24	3	83	4.34
143	8	0.13	180	30	0	18	10.90
144	22	0.08	320	13	3	61	4.73
145	2	0.07	22	3	3	52	3.08
146	16	0.08	150	18	0	23	6.74
147	80	0.13	1810	126	0	21	10.10
148	4	0.09	100	92	1	20	3.50
149	6	0.10	47	280	4	15	2.65
150	10	0.13	74	53	6	8	3.50
151	4	0.06	59	32	7	11	1.52
152	10	0.09	54	11	5	16	1.49
153	52	1.24	143	330	3	78	32.80
154	104	1.08	131	340	2	73	32.00
155	114	0.55	28	270	0	180	25.20
156	32	0.27	148	72	3	146	8.62
157	12	0.21	84	55	2	13	6.11
158	18	0.21	68	59	1	16	7.36
159	12	0.28	111	65	2	49	8.45
160	22	0.19	250	49	6	57	5.51
161	16	0.41	82	71	2	23	7.89

OMEP

Job#: 89-031

Project:

Sample Number	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
162	38	0.38	92	98	1	26	15.60
163	24	0.36	29	99	1	29	9.73
164	22	0.30	55	73	0	17	8.51
165	14	0.26	44	52	1	28	7.24
166	18	0.22	68	52	1	14	7.83
167	12	0.21	92	35	0	50	11.90
168	12	0.26	110	27	0	26	10.50
169	12	0.15	45	20	0	30	8.35
170	12	0.16	77	22	0	23	7.07
171	26	0.12	1290	15	3	31	6.36
172	18	0.18	980	35	1	19	7.49
173	12	0.12	610	21	3	13	6.70
174	12	0.06	630	6	0	15	9.26
175	8	0.08	230	11	1	16	7.78
176	46	0.15	1340	9	6	8	7.99
177	12	0.11	1020	6	1	11	9.32
178	10	0.14	310	22	4	22	8.47
179	12	0.16	31	29	3	19	9.85
180	6	0.12	39	19	2	7	5.70
181	12	0.12	125	23	2	11	7.83
182	10	0.30	47	59	2	15	13.80
183	36	0.20	141	42	7	61	7.46
184	26	0.19	27	45	7	68	7.50
185	24	0.13	127	30	2	49	7.00
186	196	0.11	5100	29	1	16	8.93
187	78	0.08	1090	15	2	25	7.13
188	74	0.16	1160	26	3	29	8.36
189	34	0.12	910	28	3	17	6.34
190	76	0.08	450	11	0	16	7.59
191	170	0.14	2170	23	1	18	16.30
192	42	0.12	800	21	0	16	15.20
193	202	0.19	1580	42	2	10	12.30
194	58	0.13	760	31	0	15	14.10
195	220	0.18	1650	35	2	19	14.50
196	140	0.31	1100	123	2	9	18.60
197	242	0.44	184	192	1	5	28.60
198	134	0.77	620	126	3	6	29.00
199	36	0.12	410	24	2	13	6.92
200	194	0.15	670	41	1	10	9.73
201	64	0.13	860	23	2	23	9.64

JMEP

Job#: 89-031

Project:

Sample Number	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
202	92	0.08	198	14	1	19	7.09
203	32	0.08	350	11	0	43	13.20
204	34	0.07	230	9	0	24	11.80
205	8	0.09	41	10	0	15	9.03
206	60	0.11	360	14	1	22	8.49
207	34	0.13	208	28	0	39	9.90
208	440	0.14	3200	13	0	22	14.60
209	46	0.08	660	21	0	29	10.80
210	36	0.08	540	16	0	21	10.50
211	296	0.20	1600	36	0	28	10.10
212	24	0.27	540	79	6	95	9.01
213	34	0.14	236	56	6	94	9.47
214	988	0.47	2390	101	7	129	9.40
215	28	0.09	240	32	0	54	12.20
216	10	0.06	95	8	3	39	5.38
217	556	0.19	4900	41	0	11	18.20
218	18	0.10	560	34	23	16	10.80
219	2	0.08	17	5	13	32	2.04
220	2	0.09	12	4	11	32	1.87
221	22	0.18	48	42	58	25	8.90
222	10	0.06	127	3	2	33	4.33
223	28	0.12	132	44	9	22	9.81
224	8	0.13	184	86	6	16	1.46
225	8	0.08	52	59	4	15	2.76
226	34	0.09	112	600	8	25	5.18
227	40	0.16	250	128	2	26	2.30
228	10	0.10	210	198	1	18	3.31
229	10	0.18	240	240	2	21	3.50
230	100	0.73	164	610	2	380	24.30
231	16	0.38	53	300	1	116	10.30
232	10	0.15	58	33	1	119	5.97
233	16	0.16	36	26	1	97	6.86
234	24	0.11	63	17	0	30	7.32
235	40	0.17	360	64	2	43	9.38
236	24	0.11	161	16	0	25	7.83
237	14	0.10	430	13	0	25	14.80
238	58	0.15	6100	33	0	36	15.50
239	8	0.17	263	15	0	13	11.00
240	10	0.09	205	11	0	25	13.70
241	14	0.08	269	82	2	13	2.40
242	28	0.62	37	172	6	32	21.80
243	36	0.77	89	400	0	99	29.60

OMEP

TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Champion Bear

Richard Kantor

Lou Chastko

Date: February 28, 1989

Job No: 89-033

Project:

P.O. No:

43 Drill Core

Signed: ymH.

14-2235 30th Avenue N.E., Calgary, Alberta, T2E 7C7
Phone (403) 250-9460 Fax (403) 291-7064

TERRAMIN RESEARCH LABS Ltd.

Job#: 89-033

Project:

Sample Number	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
244	36	0.38	11	150	0	83	15.7
245	20	0.72	16	280	0	45	27.5
246	16	0.53	24	290	0	51	15.5
247	12	0.64	19	310	0	26	27.6
248	16	0.06	87	32	1	73	7.28
249	62	0.56	2100	175	10	143	17.2
250	16	0.38	59	152	1	7700	15.8
251	10	0.03	9	13	0	20	1.74
252	128	1.06	48	270	5	310	30.2
253	160	1.30	104	380	5	590	27.5
254	52	1.04	115	197	2	270	25.1
255	10	0.21	70	42	3	158	11.2
256	20	0.34	115	49	5	94	8.61
257	22	0.31	81	65	1	61	8.06
258	22	0.11	1090	44	0	96	12.0
259	24	0.04	770	16	0	10	8.27
260	22	0.08	940	22	0	48	9.97
261	70	0.03	1080	12	0	18	12.9
262	10	0.03	250	10	1	24	7.39
263	4	0.02	129	14	0	25	8.81
264	8	0.09	117	29	0	28	13.9
265	14	0.08	560	22	1	34	11.3
266	84	0.09	2900	27	0	21	9.20
267	6	0.05	73	16	1	46	7.45
268	16	0.08	1220	15	0	13	9.91
269	14	0.05	213	21	1	34	12.5
270	18	0.07	380	30	1	24	16.7
271	6	0.04	39	17	0	13	15.5
272	10	0.02	207	9	0	8	14.8
273	12	0.05	237	23	0	22	15.7
274	8	0.03	208	14	0	14	8.43
275	8	0.05	250	14	11	27	7.94
276	4	0.10	240	28	13	40	9.09
277	12	0.12	210	37	5	13	6.48
278	16	0.14	1800	20	0	35	12.3
279	8	0.09	270	31	1	21	8.49
280	24	0.58	116	350	3	87	28.2
281	2	0.16	57	175	6	68	5.20
282	247	0.60	115	340	5	112	27.7
283	8	0.26	91	65	9	126	6.81
284	8	0.56	190	168	5	47	17.3
285	36	0.64	330	99	8	54	28.1
286	10	0.07	2600	158	0	23	3.75

OMEP

TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Champion Bear

Richard Kantor

cc: Independent Explorations

Date: March 15, 1989

Job No: 89-043

Project:

P.O. No:

68 core

Signed: _____

14-2235 30th Avenue N.E., Calgary, Alberta, T2E 7C7
Phone (403) 250-9460 Fax (403) 291-7064

TERRAMIN RESEARCH LABS Ltd.

OMEP

Job#: 89-043

Project:

Sample Number	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
287	48	0.08	770	65	4	61	6.43
288	24	0.05	36	46	2	42	2.89
289	80	0.11	39	153	1	84	6.55
290	48	0.26	790	250	3	112	7.32
291	38	0.15	350	149	0	187	11.90
292	26	0.12	137	95	0	68	10.60
293	20	0.06	44	55	0	63	9.70
294	66	0.08	51	68	0	76	18.20
295	326	0.06	32	26	7	28	5.41
296	152	0.11	102	99	1	36	26.40
297	74	0.09	41	85	1	29	10.70
298	24	0.10	13	54	0	90	15.80
299	58	0.05	12	45	0	53	12.10
300	38	0.10	28	98	0	51	19.20
303	20	0.09	39	53	0	26	9.92
305	42	0.64	158	460	4	196	8.47
306	18	0.13	620	37	2	94	5.96
307	70	0.15	11300	107	3	58	5.81
308	34	0.14	4700	78	3	50	6.99
309	14	0.06	1750	69	7	45	3.63
310	16	0.11	1360	113	3	47	4.54
311	18	0.73	2340	185	5	77	9.00
312	34	3.00	2400	670	1	59	20.20
313	12	1.44	3300	520	1	43	19.00
314	2	0.12	100	31	2	14	2.10
315	10	1.34	200	580	0	44	22.80
316	18	1.11	190	440	2	61	9.85
317	8	0.22	750	58	8	58	4.70
318	4	0.20	260	55	9	53	3.85
319	18	0.29	200	61	5	39	5.28
320	10	0.73	28	108	3	176	12.90
321	6	0.22	127	124	4	45	3.56
322	250	0.96	12300	340	6	110	8.58
323	80	0.77	1980	146	9	290	7.25
324	22	0.42	2490	128	8	67	6.03
325	18	0.35	970	116	3	63	4.45
326	26	0.25	550	93	2	62	4.38
327	34	0.49	1470	270	4	55	4.52
328	18	0.35	490	127	2	46	4.33
329	60	0.52	220	810	2	22	2.33

TERRAMIN RESEARCH LABS Ltd.

OMEP

Job#: 89-043

Project:

Sample Number	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
330	198	0.72	144	800	2	10	0.77
331	28	0.72	3	154	0	27	22.10
332	26	0.13	19	31	0	25	14.20
333	10	0.04	22	8	0	9	9.74
334	16	0.04	8	4	0	5	10.50
335	12	0.04	6	4	0	7	20.70
336	14	0.03	3	6	0	16	25.20
337	22	0.04	9	8	0	23	25.80
338	98	0.19	10	33	0	25	10.30
339	26	0.10	13	18	0	23	18.00
340	24	0.27	15	50	0	27	13.30
341	30	0.29	51	52	0	34	16.60
342	32	0.12	8	21	3	88	12.30
343	52	0.30	59	31	24	30	4.78
344	38	0.13	14	26	0	24	13.70
345	56	0.20	32	39	2	30	8.23
346	42	0.17	50	27	0	12	12.10
347	36	0.06	14	10	2	7	11.80
348	26	0.21	25	10	1	24	9.45
349	18	0.01	122	3	0	7	11.60
359	16	0.04	5	4	0	18	29.40
360	210	0.59	81	148	1	38	10.10
361	20	0.08	6	14	0	21	24.40
362	24	0.14	7	24	0	15	21.30
363	68	0.86	6	142	0	49	33.50
364	130	0.68	10	88	2	18	8.76
365	30	0.50	47	65	4	17	7.43
366	22	0.11	37	11	7	9	1.29

OMEP

TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Champion Bear

Richard Kantor

cc: Independent Explorations

Date: March 31, 1989

Job No: 89-057

Project:

P.O. No:

100 Drill Core

Signed: _____

14-2235 30th Avenue N.E., Calgary, Alberta, T2E 7C7
Phone (403) 250-9460 Fax (403) 291-7064

TERRAMIN RESEARCH LABS Ltd.

OWEN

Job#: 89-057

Project:

Sample Number	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
351	4	0.09	34	5	2	23	5.85
352	4	0.01	134	6	0	9	12.4
353	2	0.01	3	8	0	5	16.0
354	2	0.01	23	6	0	6	17.1
355	2	0.04	5	5	0	9	25.1
356	10	0.04	10	3	0	8	21.0
357	2	0.02	6	4	0	10	25.2
358	6	0.01	29	4	0	9	19.4
367	8	0.15	19	120	2	23	3.16
368	8	0.14	64	105	1	24	2.93
369	10	0.15	31	120	1	23	2.71
370	8	0.17	340	104	5	46	3.56
371	8	0.17	320	124	6	38	3.26
372	4	0.06	30	65	2	20	2.11
373	6	0.04	116	79	2	43	2.46
374	6	0.08	83	156	3	28	2.47
375	10	0.08	92	106	3	47	3.20
376	6	0.10	114	141	4	24	3.27
377	4	0.16	53	115	3	61	6.22
378	4	0.42	12	174	0	35	15.5
379	4	0.15	570	80	0	37	4.37
380	2	0.06	5	107	2	35	3.54
381	4	0.20	36	260	3	39	4.28
382	4	0.06	5	134	7	37	5.23
383	6	0.07	14	147	17	36	4.36
384	6	0.09	13	148	3	33	3.18
385	6	0.26	49	58	5	122	9.11
386	20	0.76	241	410	0	61	26.4
388	12	0.60	205	131	0	109	22.9
389	10	0.14	96	86	0	71	16.4
390	6	0.08	81	119	0	63	7.28
391	4	0.09	34	112	0	91	8.85
392	4	0.12	45	158	0	77	9.25
393	2	0.08	31	117	2	61	5.74
394	4	0.09	110	125	0	48	5.66
395	4	0.17	13	161	1	58	5.50
396	2	0.15	11	132	2	59	5.46
397	88	0.11	25	156	1	35	3.91
398	10	0.08	66	112	1	38	4.63
399	8	0.07	85	143	2	47	5.39

TERRAMIN RESEARCH LABS Ltd.

ONEX

Job#: 89-057

Project:

Sample Number	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
400	6	0.14	132	152	4	44	5.71
401	16	0.06	123	10	0	6	11.9
402	2	0.01	13	5	0	5	8.52
403	6	0.09	211	93	2	36	3.44
404	12	0.76	15	620	0	32	15.1
405	4	0.24	33	123	0	31	3.49
406	10	0.07	6	350	0	32	3.06
407	4	0.08	49	186	0	11	1.25
408	6	0.07	41	182	0	19	1.65
409	140	0.19	9	410	0	55	4.20
410	48	1.24	3	340	2	320	13.6
411	10	0.29	4	152	9	540	7.63
412	4	0.66	3	280	4	390	8.72
413	4	0.26	5	107	2	109	4.72
414	4	0.10	1	77	0	49	2.39
415	10	0.21	< 1	104	0	137	4.31
416	10	0.10	7	16	1	34	2.45
417	20	2.10	76	198	3	26	24.8
418	6	0.10	10	39	0	42	3.59
419	6	0.07	25	48	2	38	2.65
420	48	0.58	27	710	3	30	1.81
421	36	0.50	9	780	3	31	2.56
422	36	0.50	9	700	3	44	2.77
423	4	0.06	4	30	1	15	0.79
424	10	0.14	2	280	1	43	2.02
425	10	0.16	< 1	320	2	22	1.62
426	14	0.28	16	630	1	19	1.78
427	34	0.39	11	910	3	23	2.03
428	12	0.17	57	370	5	30	2.34
429	10	0.09	18	126	5	48	2.75
430	8	0.30	7	196	0	132	6.94
431	8	0.50	12	550	0	175	11.1
441	2	0.47	12	320	23	1420	7.92
442	40	1.22	15	480	45	18300	22.3
443	6	0.96	107	310	3	750	31.6
444	4	0.24	82	90	6	58	6.57
445	2	0.14	35	35	1	77	8.76
446	2	0.07	33	18	0	44	12.2
447	4	0.16	55	32	1	137	11.9
448	2	0.09	72	24	0	61	10.3

TERRAMIN RESEARCH LABS Ltd.

OMEP

Job#: 89-057

Project:

Sample Number	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
449	6	0.1	260	25	0	36	9.75
450	2	0.03	22	17	0	36	9.20
451	2	0.02	19	9	1	58	3.15
452	2	0.01	28	9	7	5	0.96
453	8	0.30	54	81	0	47	13.0
		0.40					
454	16		12	105	0	48	13.5
455	34	0.05	197	95	0	31	3.81
456	28	0.05	40	28	0	71	21.8
457	10	0.08	32	33	0	24	8.00
458	36	0.12	25	57	0	33	21.5
459	26	0.30	8	95	0	16	12.1
460	16	0.48	7	159	0	26	23.6
461	10	0.15	31	40	0	15	19.5
462	8	0.05	9	21	0	37	14.9
463	8	0.03	15	14	0	97	17.6
464	18	0.06	260	22	0	131	17.7
465	6	0.02	27	8	0	58	14.3
466	10	0.11	16	31	0	27	11.7
467	8	0.27	12	50	0	40	14.2
468	6	0.05	18	15	0	14	14.7

OMEP

TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Champion Bear

Richard Kantor

cc: Independent Explorations

Date: April 4, 1989

Job No: 89-060

Project:

P.O. No:

58 Drill Core

Signed: ymH

14-2235 30th Avenue N.E., Calgary, Alberta, T2E 7C7
Phone (403) 250-9460 Fax (403) 291-7064

TERRAMIN RESEARCH LABS Ltd.

OMEP

Job#: 89-060

Project:

Sample Number	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
469	36	0.05	480	20	2	40	9.18
470	10	0.39	12	550	0	28	9.64
471	8	0.40	5	550	0	27	18.3
472	6	0.30	3	360	0	84	11.8
473	4	0.15	3	125	0	63	10.7
474	4	0.12	3	129	0	90	9.76
475	4	0.12	8	149	0	62	6.62
476	6	0.19	8	270	0	27	7.36
477	12	0.41	10	400	0	64	11.5
478	4	3.00	3	136	1	59	7.90
479	8	0.15	5	172	4	28	8.70
480	6	0.07	12	52	6	33	4.33
481	8	0.15	2	168	2	44	8.23
482	4	0.07	5	51	3	49	6.77
483	6	0.23	5	310	2	68	9.76
484	6	0.21	2	179	1	38	9.76
485	6	0.11	5	116	3	75	9.49
486	26	0.30	6	520	2	22	14.5
487	8	0.90	15	320	1	61	31.0
488	16	1.28	23	320	2	70	26.5
489	6	0.26	81	39	1	108	12.1
490	4	0.12	90	19	0	67	13.1
491	2	0.07	61	10	2	21	3.93
492	6	0.14	75	21	1	96	9.10
493	16	0.80	53	171	2	50	30.4
494	72	0.88	66	380	4	115	21.7
495	52	1.30	72	195	4	400	23.9
496	20	1.76	26	330	4	34	31.1
497	100	2.40	29	330	6	70	28.2
498	44	1.08	58	172	2	78	20.4
499	10	0.33	85	33	2	39	6.08
500	8	0.22	76	27	0	39	10.6
501	18	0.10	196	20	0	36	14.0
502	20	0.05	340	17	0	38	16.3
503	8	0.05	72	16	6	86	8.62
504	6	0.12	70	26	6	86	8.53
505	4	0.04	116	14	3	67	12.1
506	24	0.17	1820	67	2	130	13.1
507	2	0.05	24	18	3	84	6.68
508	2	0.06	9	27	1	39	6.08

OMEP

Job#: 89-060

Project:

Sample Number	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Fe %
509	2	1.51	633	850	6	57	13.4
510	2	0.78	3	27	1	67	23.3
511	4	1.12	6	300	1	35	27.4
512	4	1.14	3	180	1	26	34.7
513	84	1.00	36	260	2	160	18.0
514	28	0.36	125	80	6	270	6.51
515	86	0.19	24	133	0	16	6.20
516	26	0.15	15	32	0	25	21.4
517	146	0.39	6	81	0	21	14.7
518	12	0.13	13	27	0	13	17.6
519	12	0.27	10	56	0	22	19.9
520	8	0.12	15	30	0	23	16.5
521	52	0.18	93	38	0	16	14.4
522	68	0.35	13	59	1	63	11.5
523	10	0.17	41	14	2	43	6.73
524	6	0.05	9	5	3	31	3.98
525	6	0.48	8	79	3	43	7.88
526	14	0.62	345	108	6	18	6.60

Assess file

Ontario Ministry of Natural Resources

Report of Work

DOCUMENT NO. W9001.073

52L08SE0002 10 LENNAN LAKE

The Mining Act

900

Name and Postal Address of Recorded Holder	Prospector's Licence No.
Champion Bear Resources Ltd./Canadian Eagle Explorations Ltd.	T 5146/T 4802
3805 - 7A Street S.W.; Calgary, Alberta; T2T 2Y8	

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 4800	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
for Performance of the following work. (Check one only)	K	See attached	list						
☐ Manual Work									
☐ Shaft Sinking Drifting or other Lateral Work.									
☐ Compressed Air, other Power driven or mechanical equip.									
☐ Power Stripping									
☒ Diamond or other Core drilling									
☐ Land Survey									

All the work was performed on Mining Claim(s): K- 967355,967358,~~967366~~,~~967367~~,967372,967376,967377, 967384,967385,967388,967409,967419

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Wynne Drilling Ltd.
894 Downing Street
Winnipeg, Manitoba
R3G 2P7
Phone: 775-1498

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
APR 26 1990
RECEIVED

KENORA
MINING DIV.
RECEIVED
APR 19 1990
AM 8:15 PM
7 8 9 10 11 12 1 2 3 4 5 6

Diamond Drilling Dates:
January 26th to March 27th, 1989

Date of Report	Recorded Holder or Agent (Signature)
April 17th,1990	L.C. Chastko

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying	
L.C. Chastko; 791 Elmhurst Rd.; Winnipeg, Manitoba; R3R 0V3	
	Date Certified: April 17th,1990 — Certified by (Signature): L.C. Chastko

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific Information per type	Other Information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. **Note:** Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done. 967351	
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyer.	Nil	Nil

768 (81/3)

REVISED ASSESSMENT CREDIT DISTRIBUTION

DOCUMENT No. W9001•

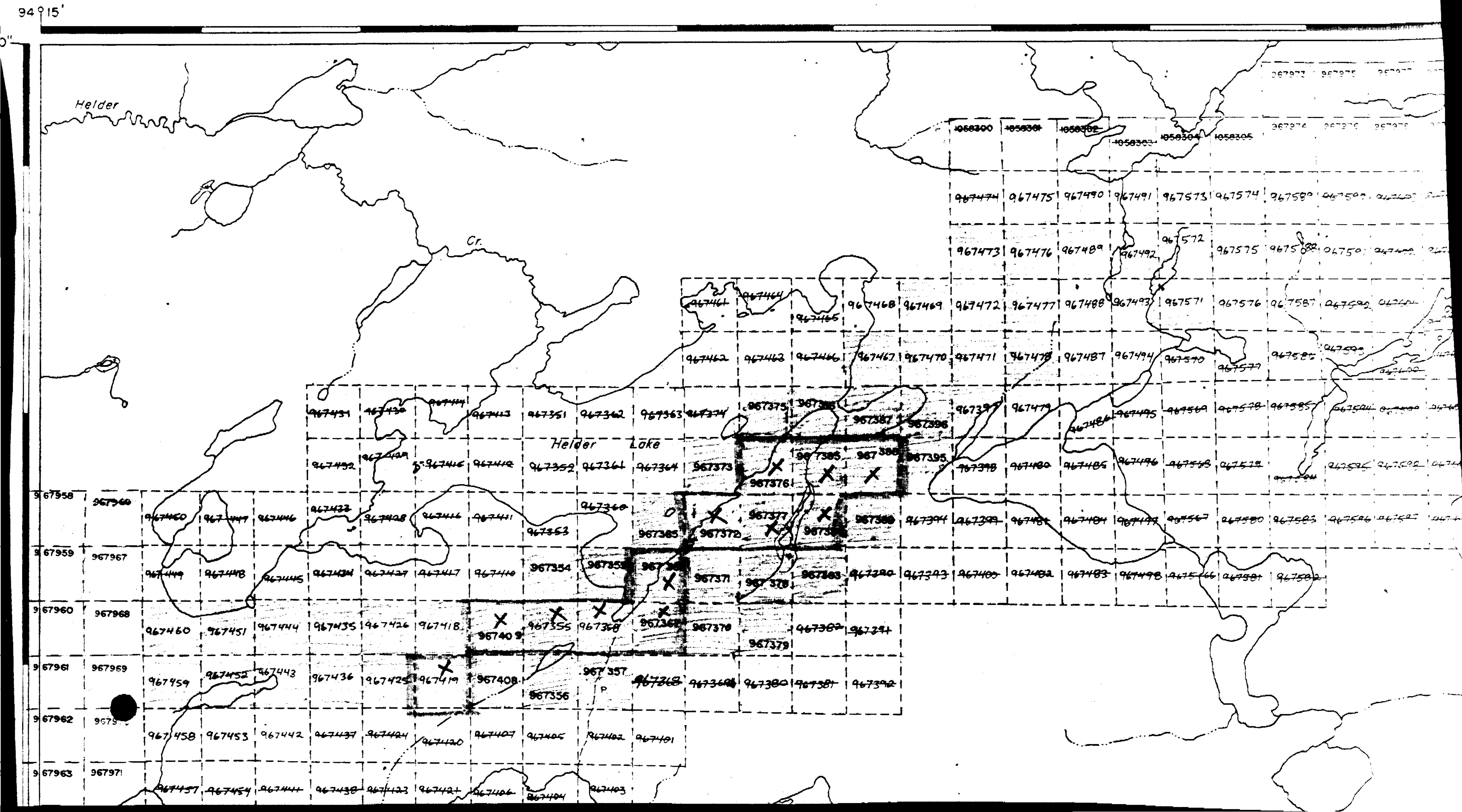
File: Champ Bear Ass.
Report: Relder D.Drill Ass.

Claim No	Days Credit
967354	40
967355	38
967356	40
967357	40
967358	37
967359	40
967365	40
967366	40
967367	40
967370	40
967371	40
967372	40
967373	40
967375	40
967376	40
967377	100
967378	~~65.5~~ 40
967379	80
967383	40
967384	100
967385	100
967386	40
967387	115
967388	100
967389	40
967395	80
967396	110
967397	45
967408	100
967409	100
967418	110
967419	100
967425	~~30~~ 55
967426	60
967435	~~30~~ 60
967436	~~60~~ 40
967443	40
967444	40
967451	40
967452	40
967459	40
967460	40
967467	100
967469	100
967470	100
967471	100
967472	100
967473	120
967476	100
967477	100

Claim No	Days Credit
967478	100
967487	110
967488	100
967489	100
967490	100
967491	100
967492	100
967493	100
967571	100
967572	100
967573	100
967574	100
967575	100
967588	100
967589	120
TOTAL	4080.5

drilling	core, number and angles of holes.		above) in duplicate
Land Survey	Name and address of Ontario land surveyer.	Nil	Nil

7GB (81/3)



94°15'
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Cr.
Helder Lake
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967483

OM88-237 Lennan Lk DDH #10

SCALE 1 : 5 000

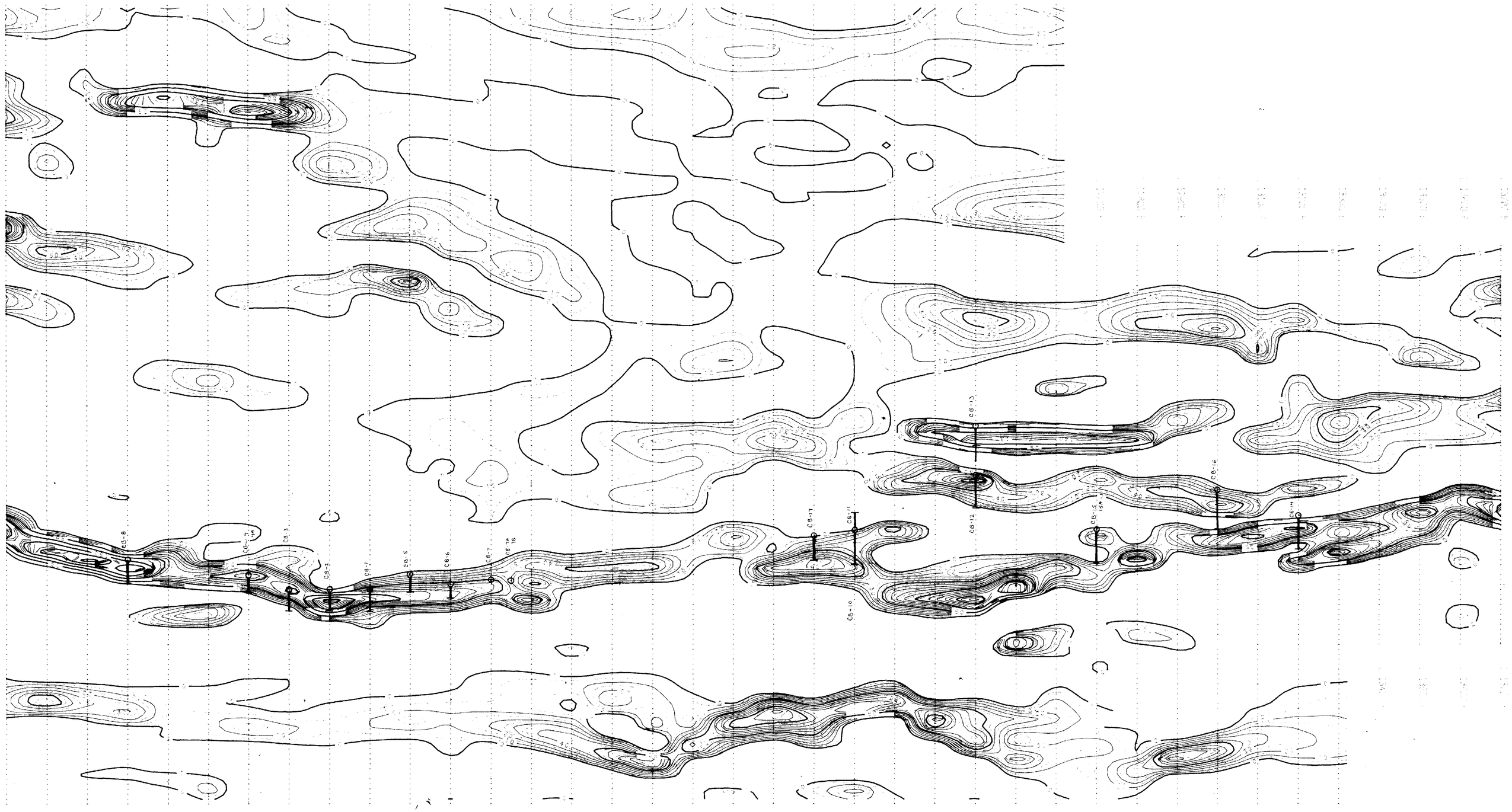
CHAMPION BEAR RESOURCES LTD.

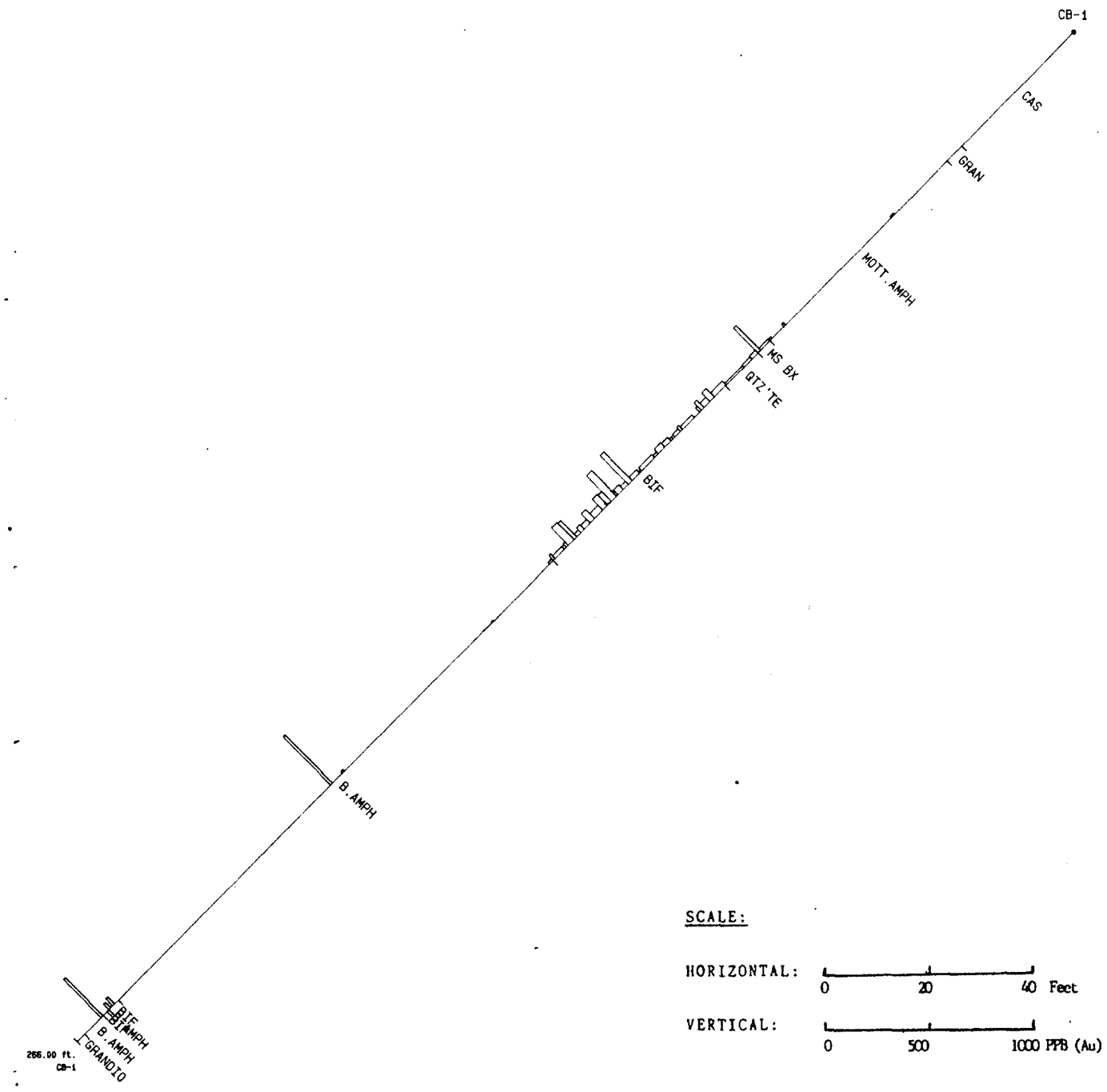
HELDER LAKE PROPERTY
LENNAN LAKE (G 2522)
KENORA MINING DIV., ONTARIO
CENTRAL HELDER GRID

VLF-EM CONTOUR MAP (MAP #5)
(FRASER FILTERED IN-PHASE)

INDEPENDENT EXPLORATION SERVICES LTD.

CONTOUR INTERVALS



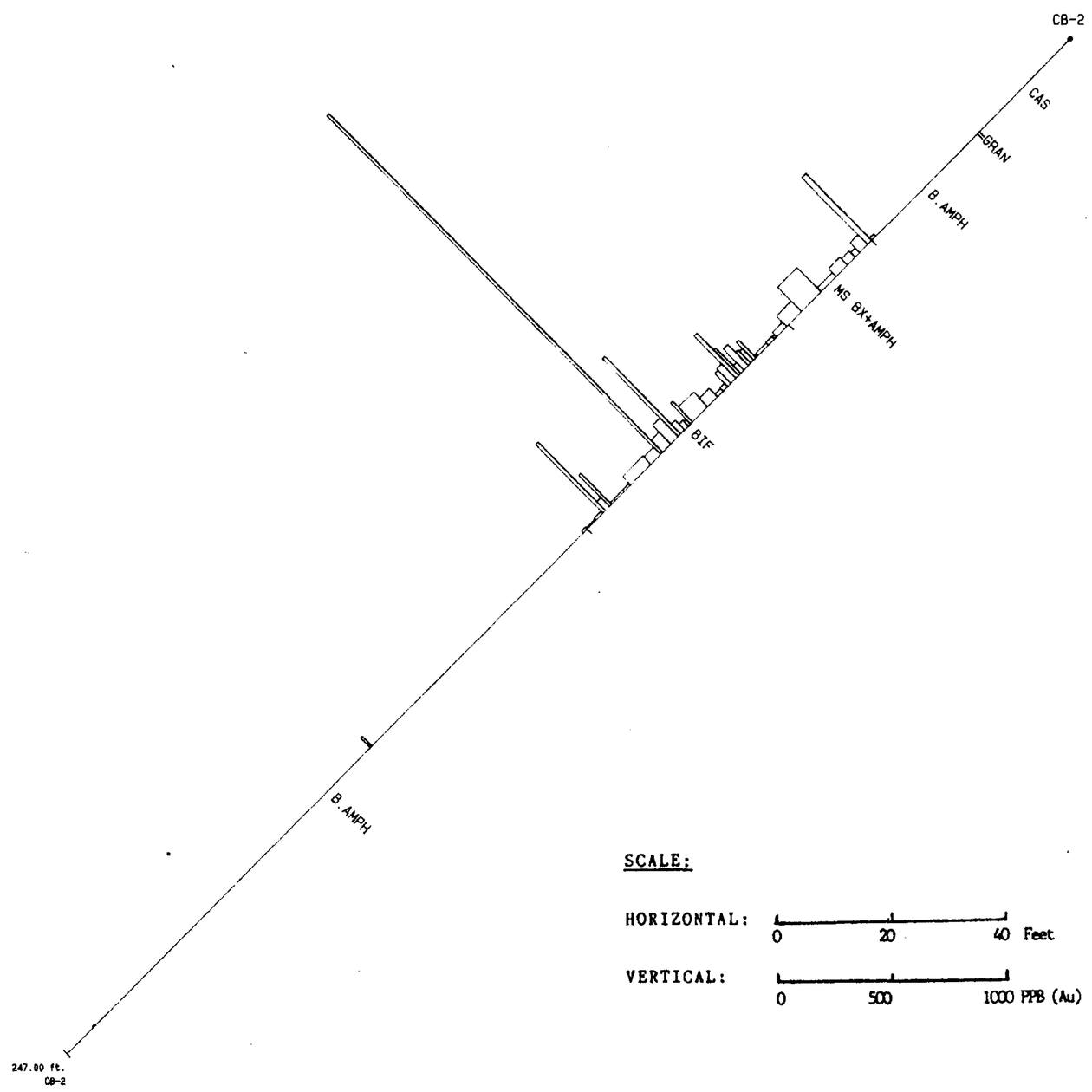


SCALE:

HORIZONTAL: 0 20 40 Feet

VERTICAL: 0 500 1000 PPB (Au)

CHAMPION BEAR RESOURCES LTD.
HELDER LAKE PROPERTY
D. DRILL HOLE SECTION
C-89-1

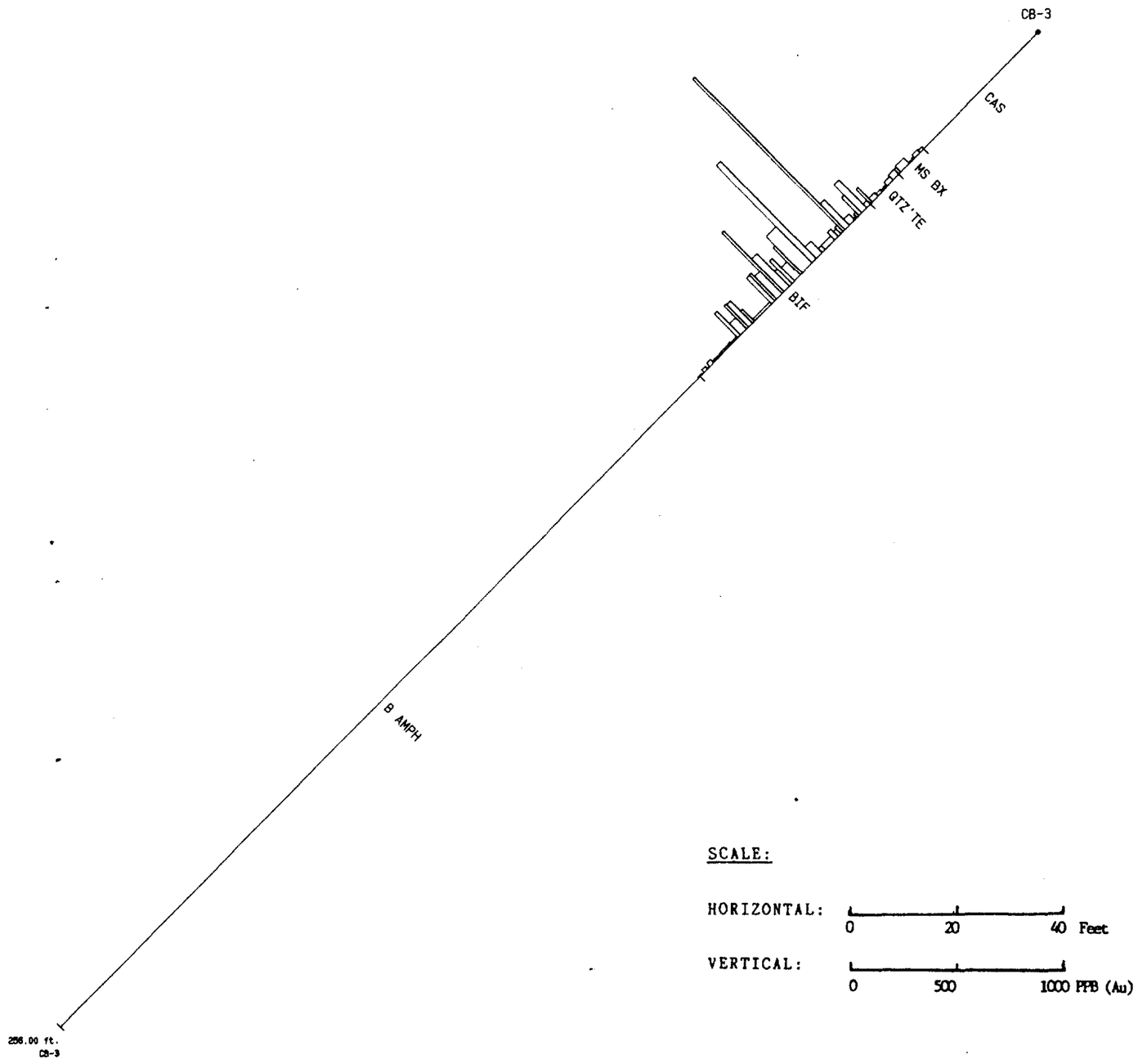


SCALE:

HORIZONTAL: 0 20 40 Feet

VERTICAL: 0 500 1000 PPB (Au)

CHAMPION BEAR RESOURCES LTD.
HELDER LAKE PROPERTY
D. DRILL HOLE SECTION
C-89-2

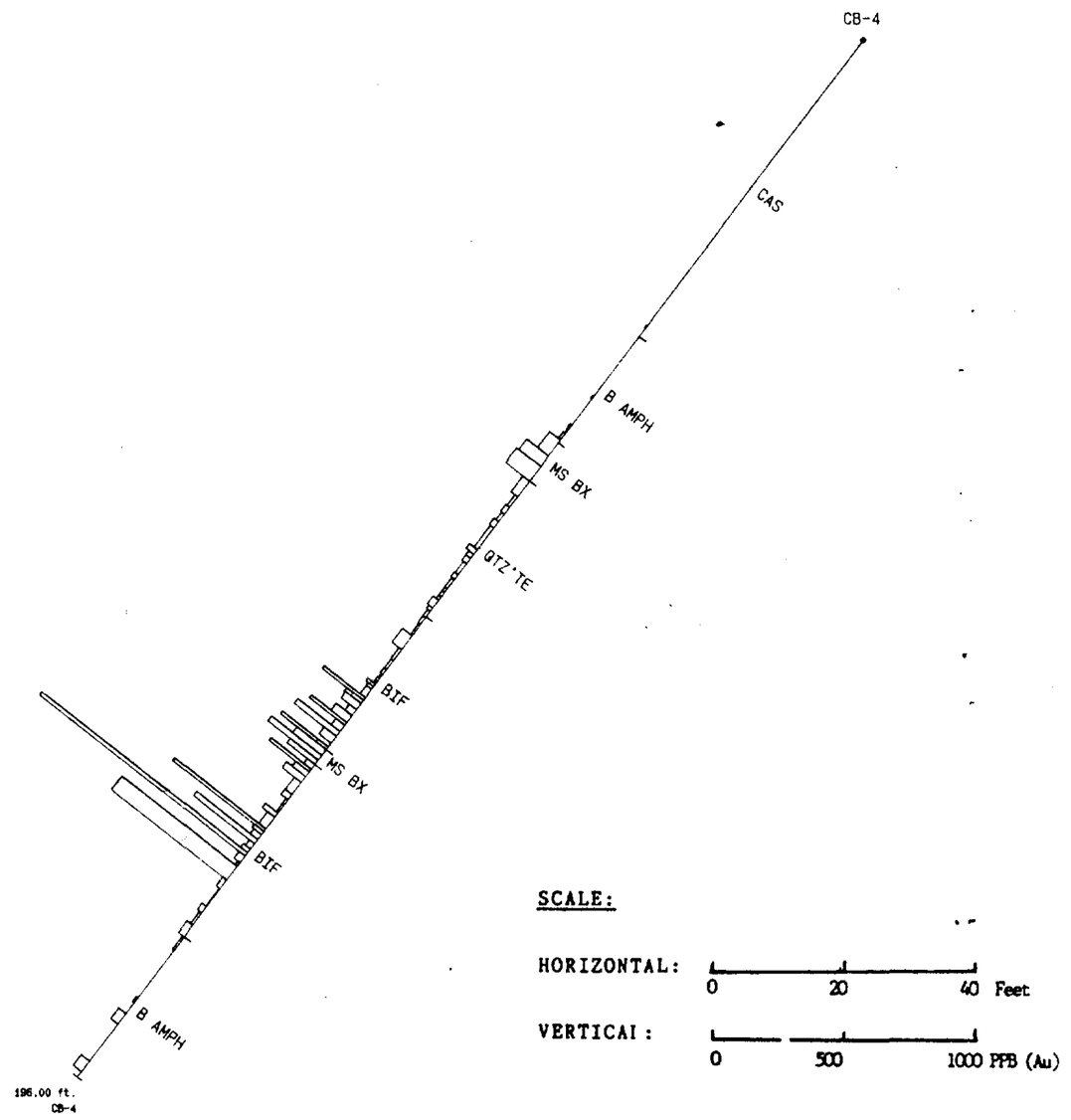


SCALE:

HORIZONTAL: 0 20 40 Feet

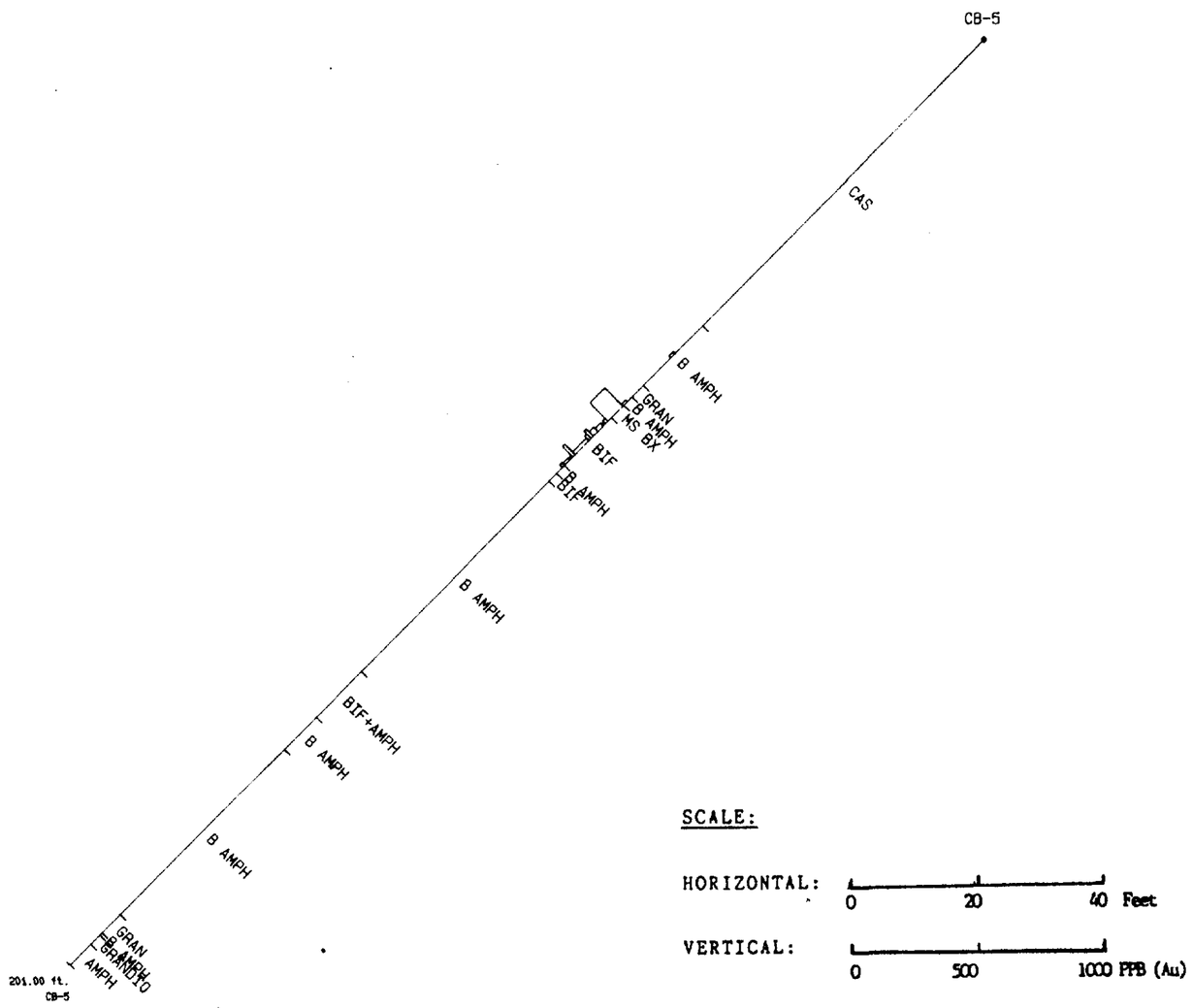
VERTICAL: 0 500 1000 PPB (Au)

CHAMPION BEAR RESOURCES LTD.
HELDER LAKE PROPERTY
D. DRILL HOLE SECTION
C-89-3



CHAMPION BEAR RESOURCES LTD.
HELDER LAKE PROPERTY
D. DRILL HOLE SECTION
C-89-4

OMB8-237 Lennan Lk. #10

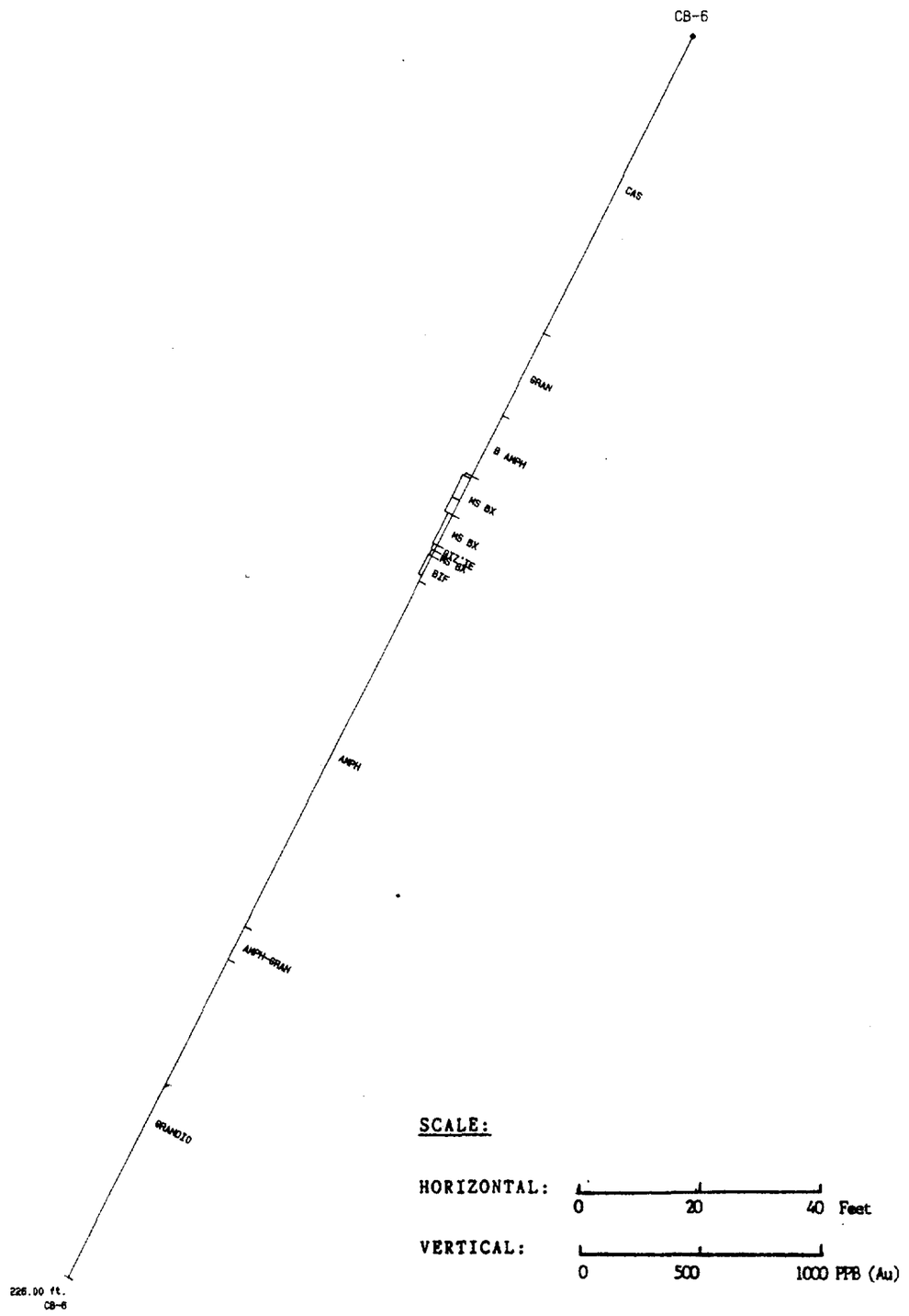


SCALE:

HORIZONTAL: 0 20 40 Feet

VERTICAL: 0 500 1000 PPB (Au)

CHAMPION BEAR RESOURCES LTD.
HELDER LAKE PROPERTY
D. DRILL HOLE SECTION
C-89-5



SCALE:

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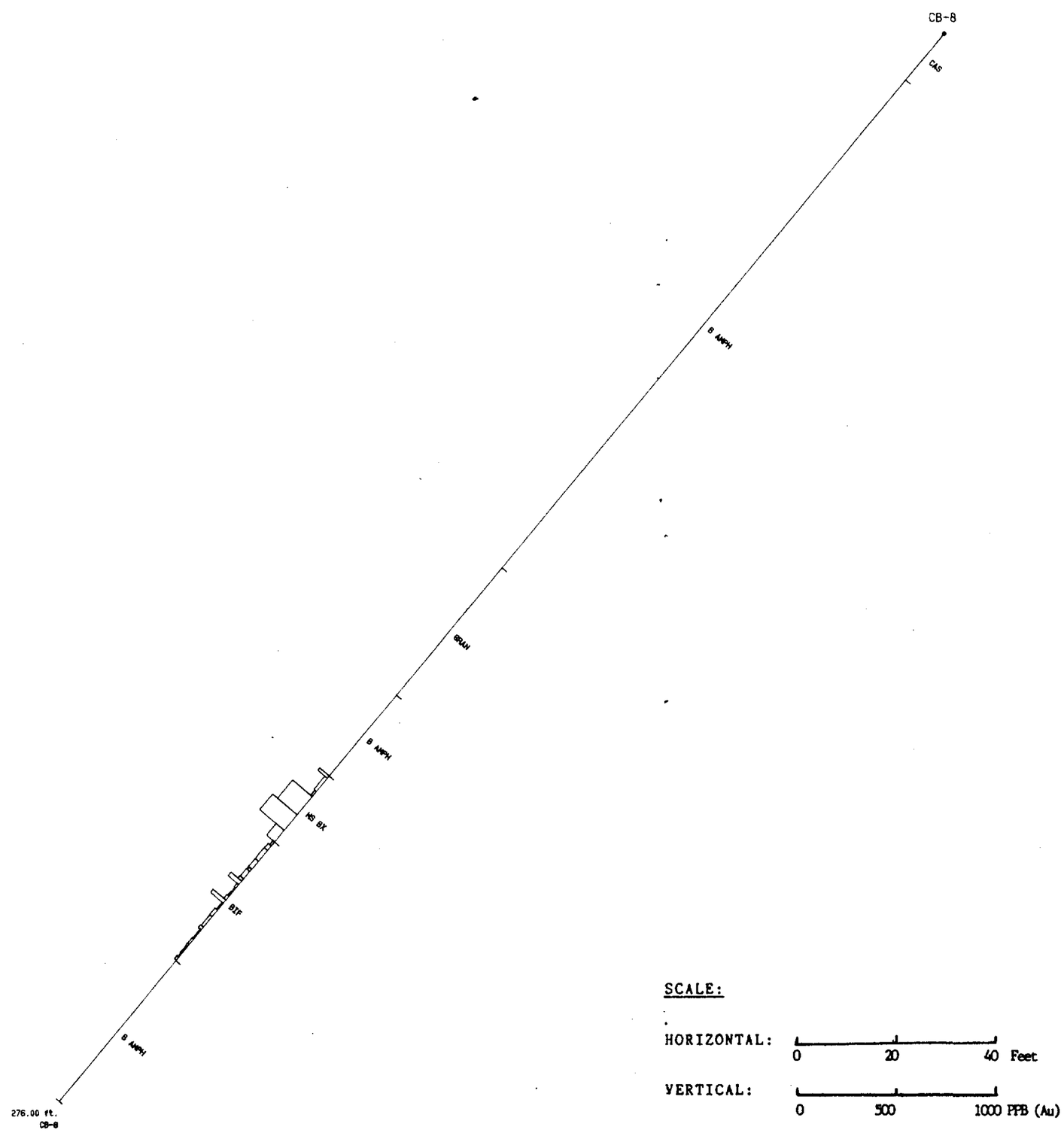
VERTICAL: 0 500 1000 PPB (Au)

CHAMPION BEAR RESOURCES LTD.
HELDER LAKE PROPERTY
D. DRILL HOLE SECTION
C-89-6

OM88-237 Lennan Lk. DDH #10



SCALE:

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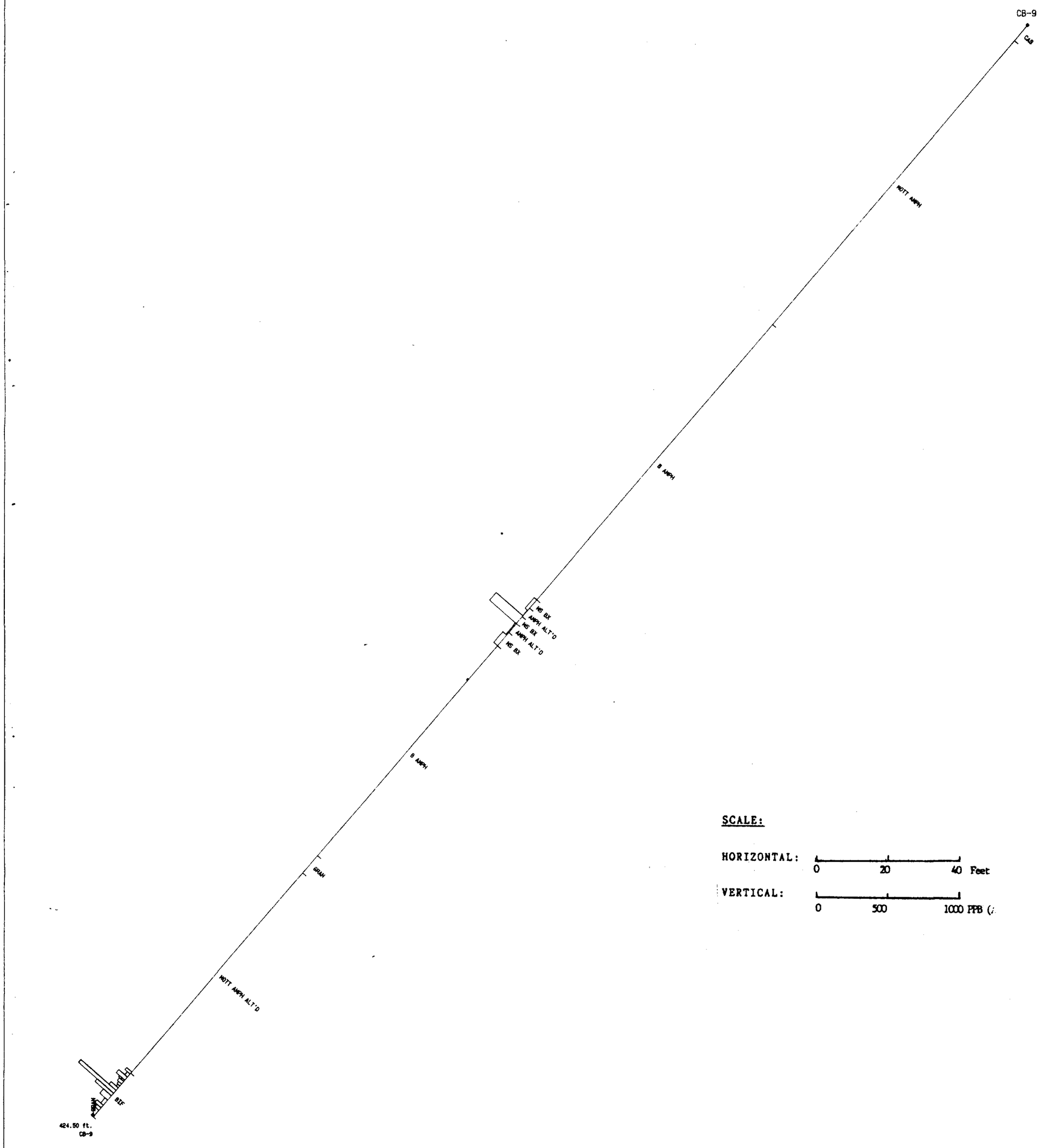
VERTICAL: 0 500 1000 PPB (Au)

CHAMPION BEAR RESOURCES LTD.
HELDER LAKE PROPERTY
D. DRILL HOLE SECTION
C-89- 8



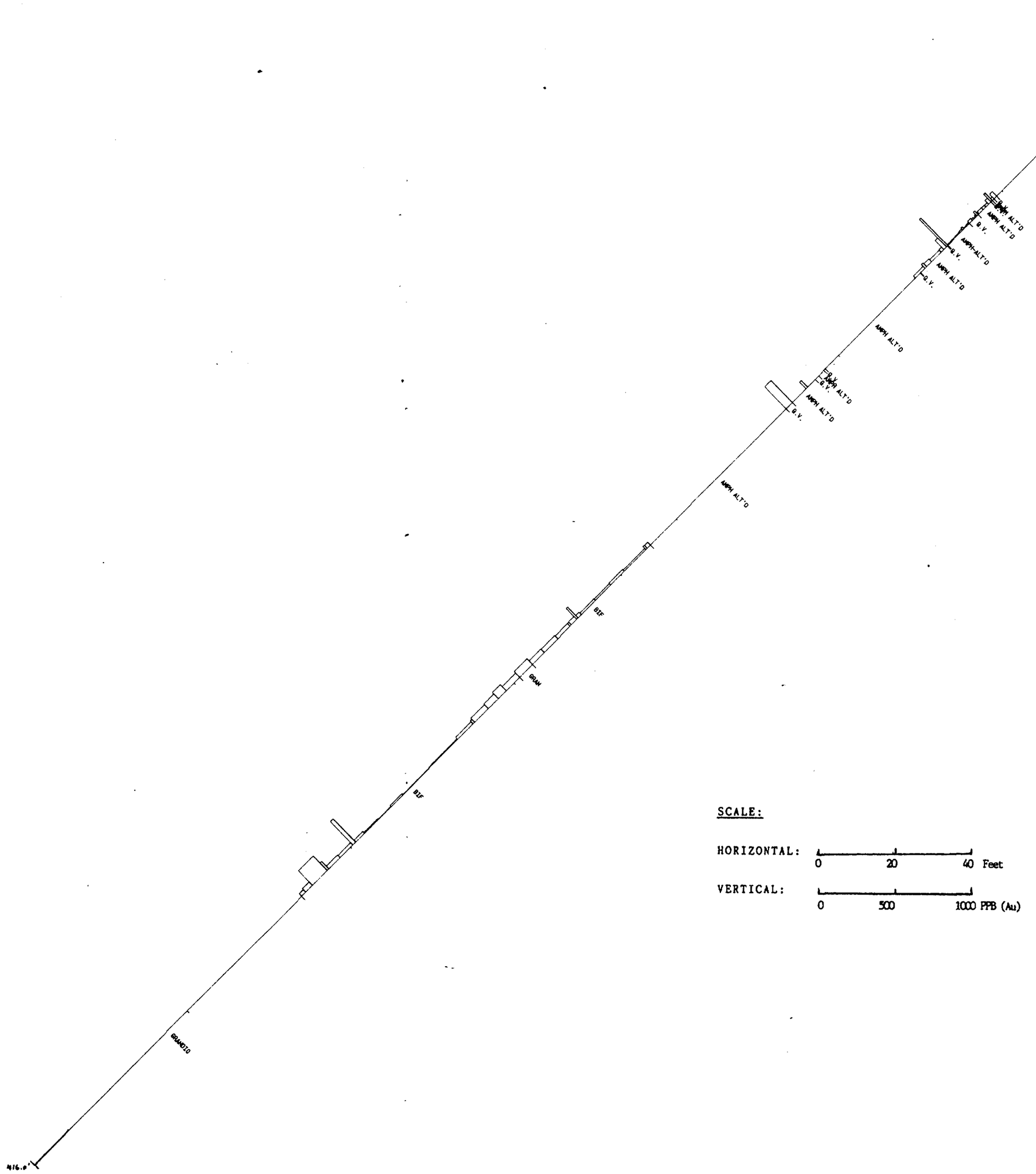
SCALE:

HORIZONTAL: 0 20 40 Feet

VERTICAL: 0 500 1000 PPB (

CHAMPION BEAR RESOURCES LTD.
HELDER LAKE PROPERTY
D. DRILL HOLE SECTION
C-89-9

OM88-237 Lennon Lk #10



SCALE:

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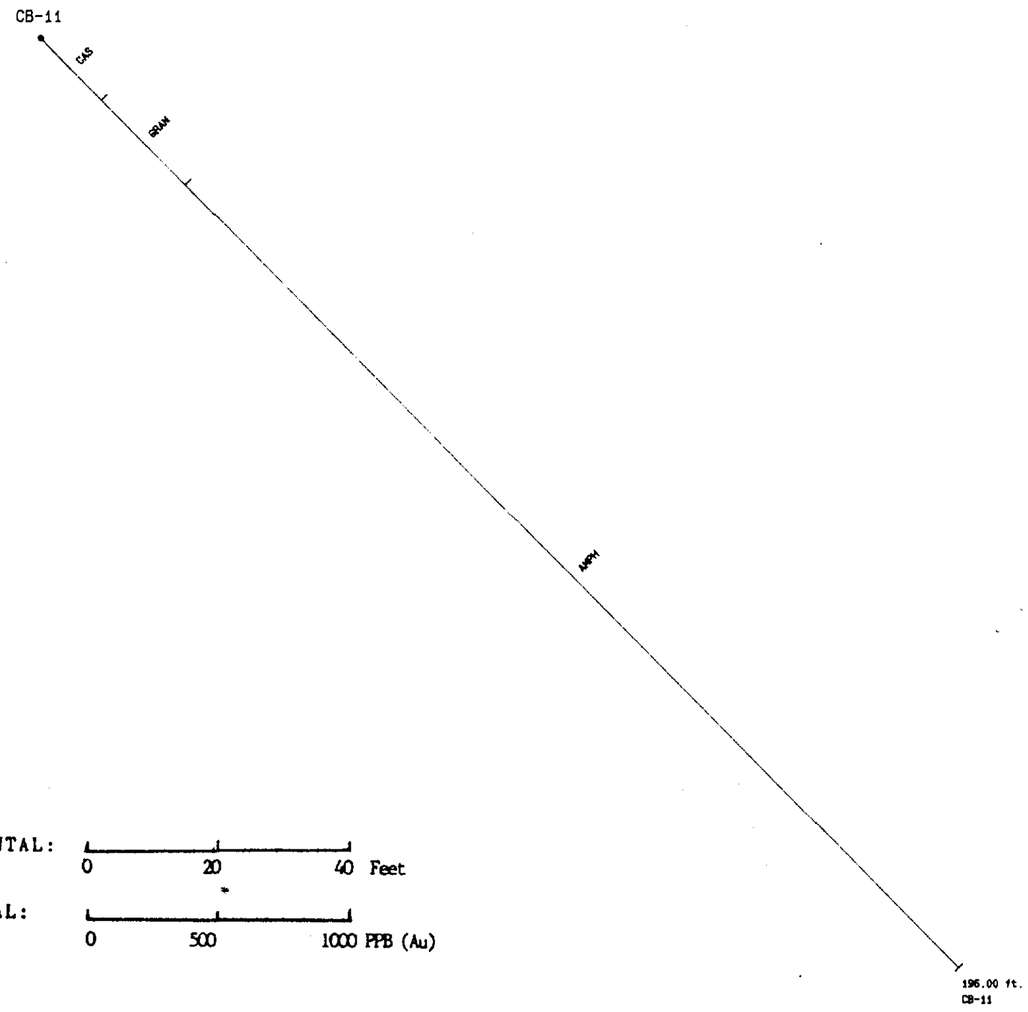
VERTICAL: 0 500 1000 PPB (Au)

CHAMPION BEAR RESOURCES LTD.
HELDER LAKE PROPERTY
D. DRILL HOLE SECTION
C-89-10

OM88-237 Lennon LK #10



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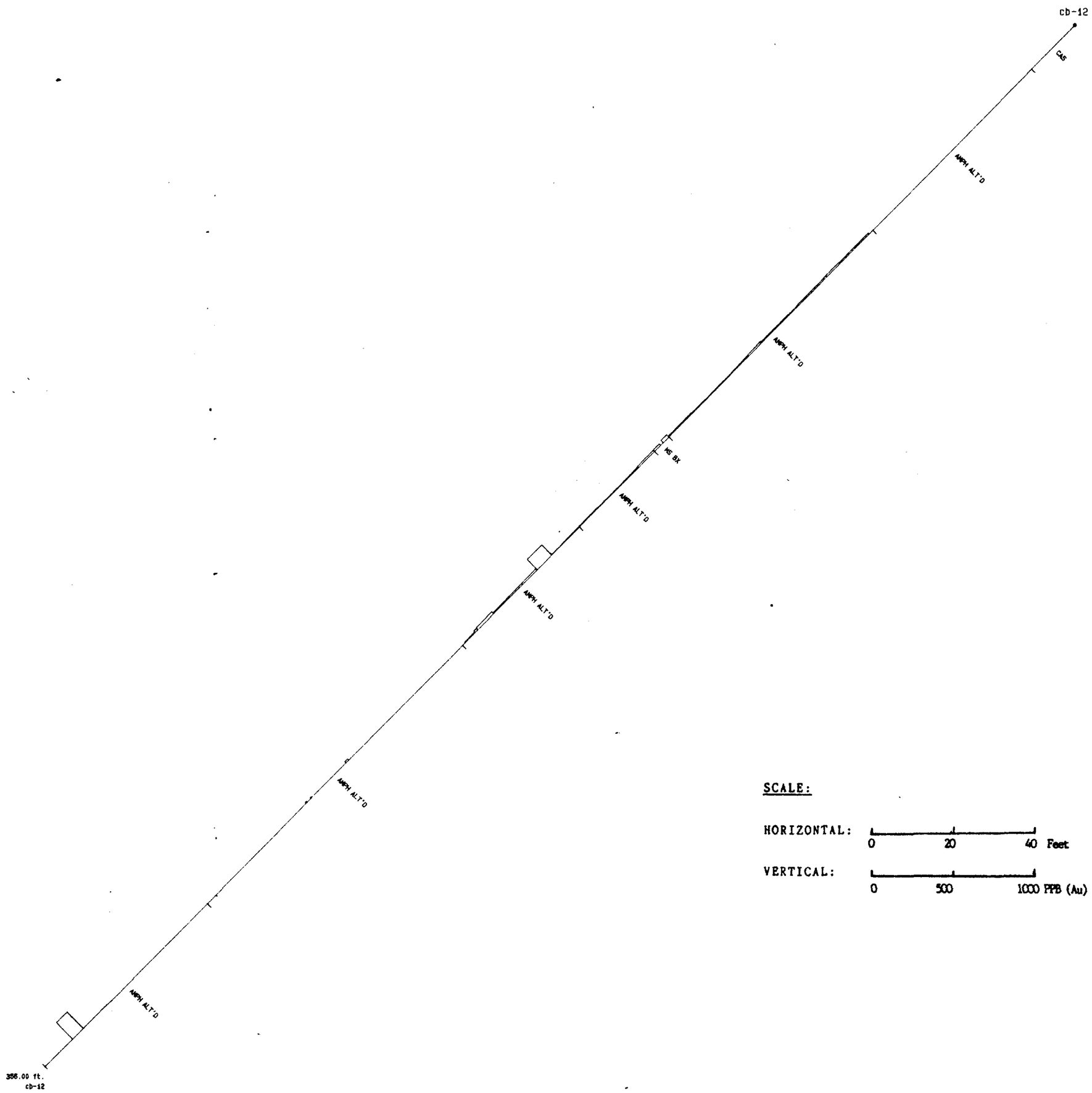
CHAMPION BEAR RESOURCES LTD.
HELDER LAKE PROPERTY
D. DRILL HOLE SECTION
C-89-11



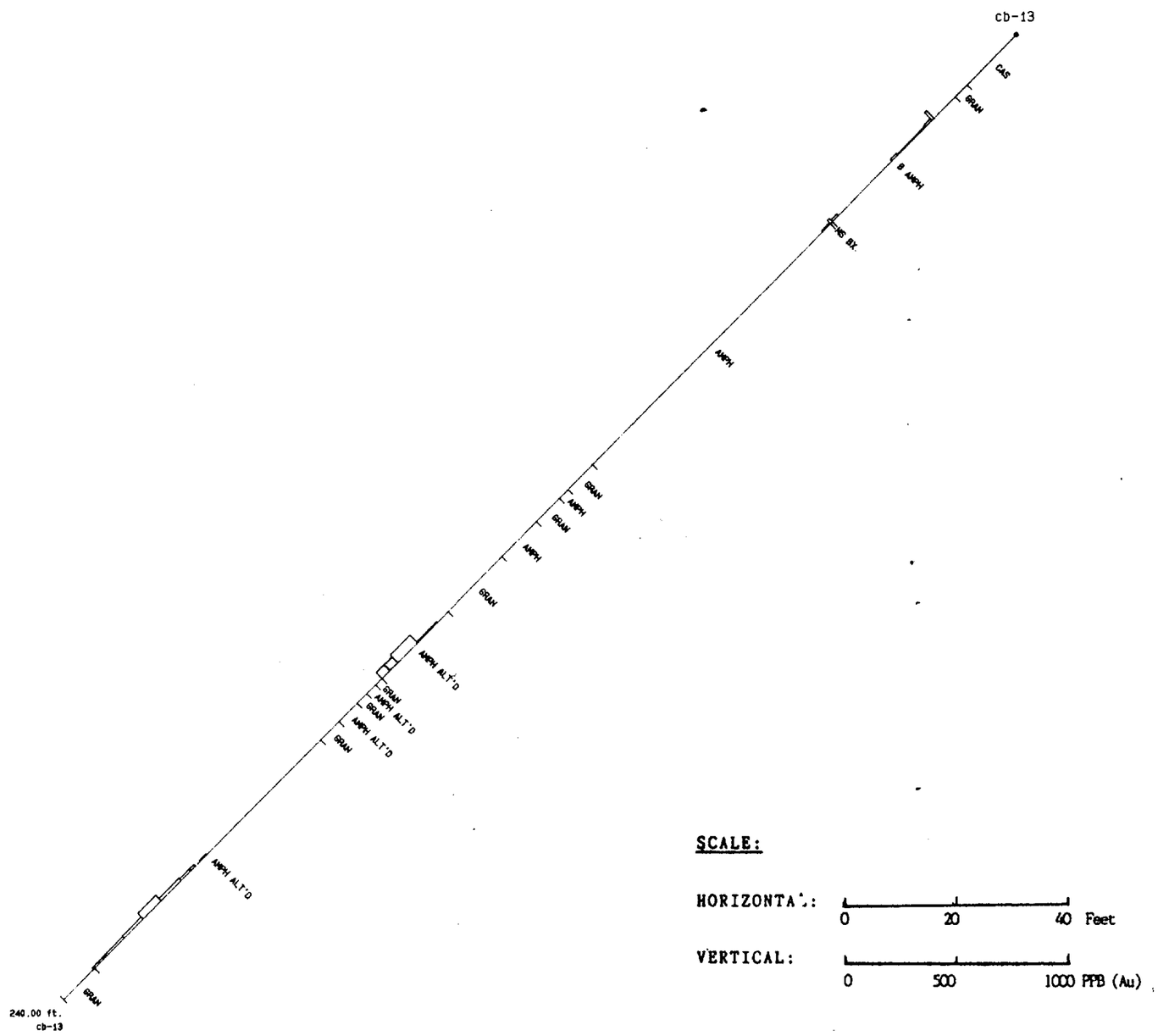
SCALE:

HORIZONTAL: 0 — 20 — 40 Feet

VERTICAL: 0 — 500 — 1000 PPB (Au)

CHAMPION BEAR RESOURCES LTD.
HELDER LAKE PROPERTY
D. DRILL HOLE SECTION
C-89-12

OM 88-237 Lennan LK. #10

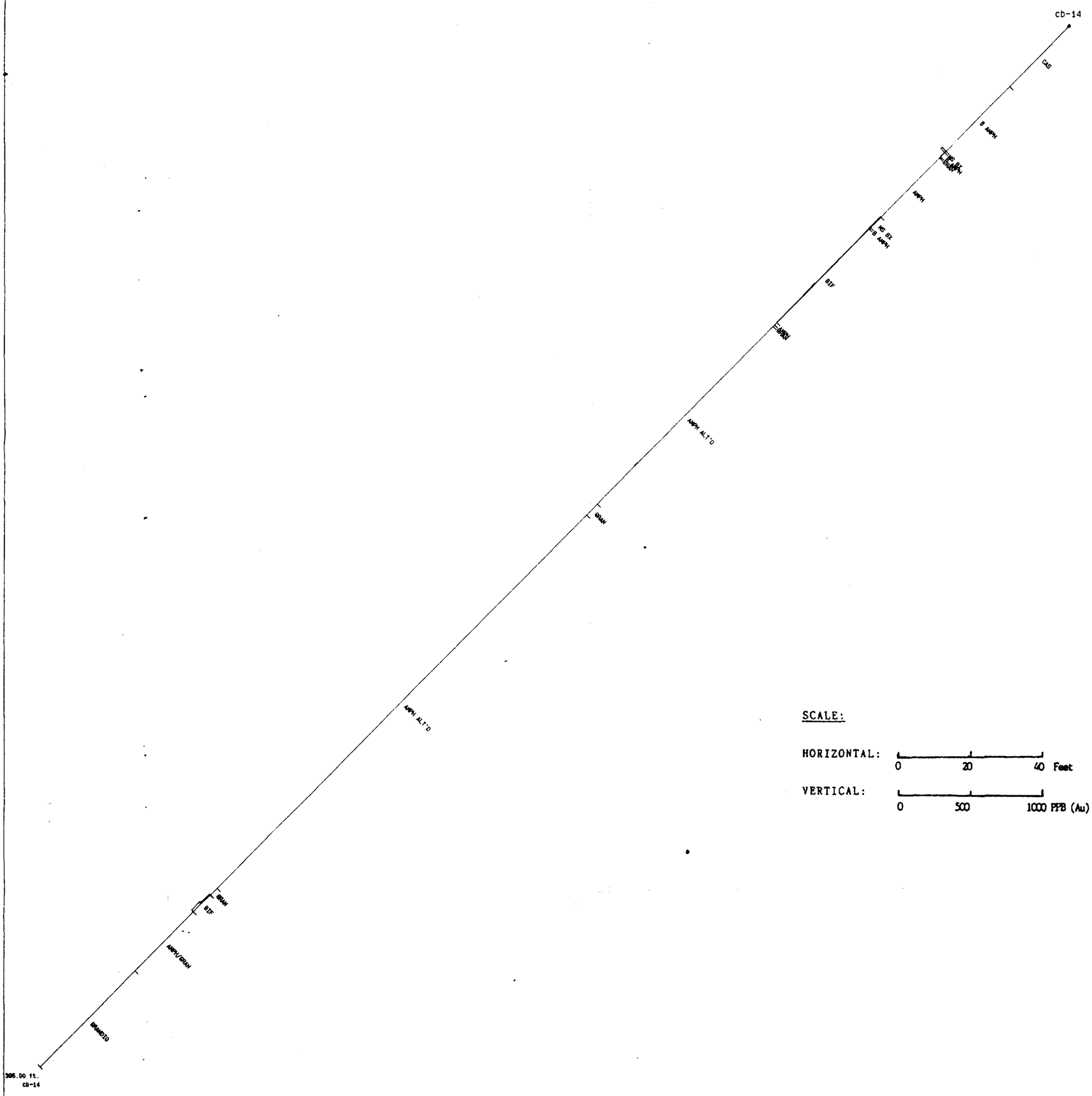


SCALE:

HORIZONTAL: 0 — 20 — 40 Feet

VERTICAL: 0 — 500 — 1000 PPB (Au)

CHAMPION BEAR RESOURCES LTD.
HELDER LAKE PROPERTY
D. DRILL HOLE SECTION
C-89-13



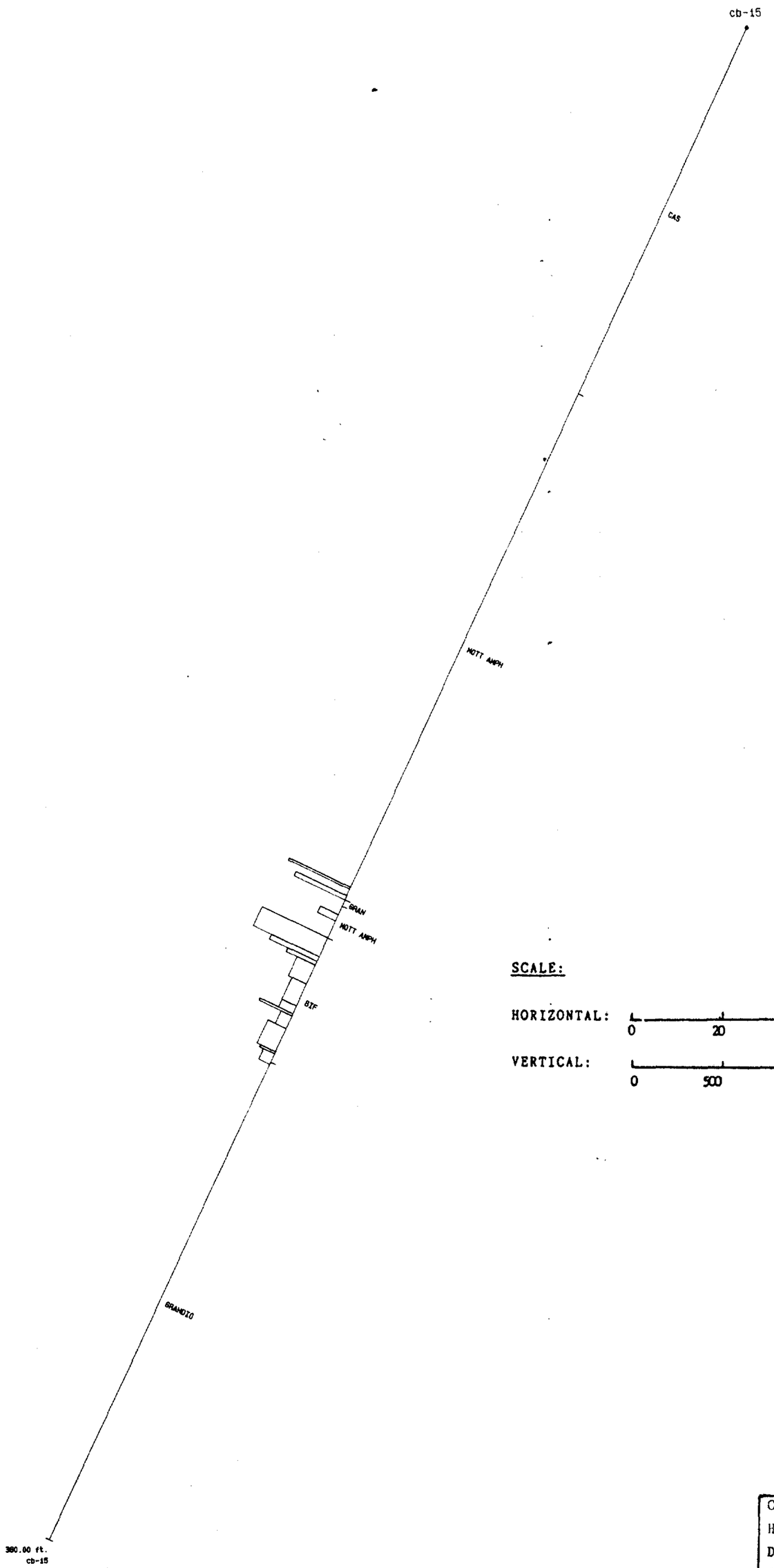
SCALE:

HORIZONTAL: 0 — 20 — 40 Feet

VERTICAL: 0 — 500 — 1000 PPB (Au)

CHAMPION BEAR RESOURCES LTD.
HELDER LAKE PROPERTY
D. DRILL HOLE SECTION
C-89-14

OM 88-237 Lennon Lk. #10



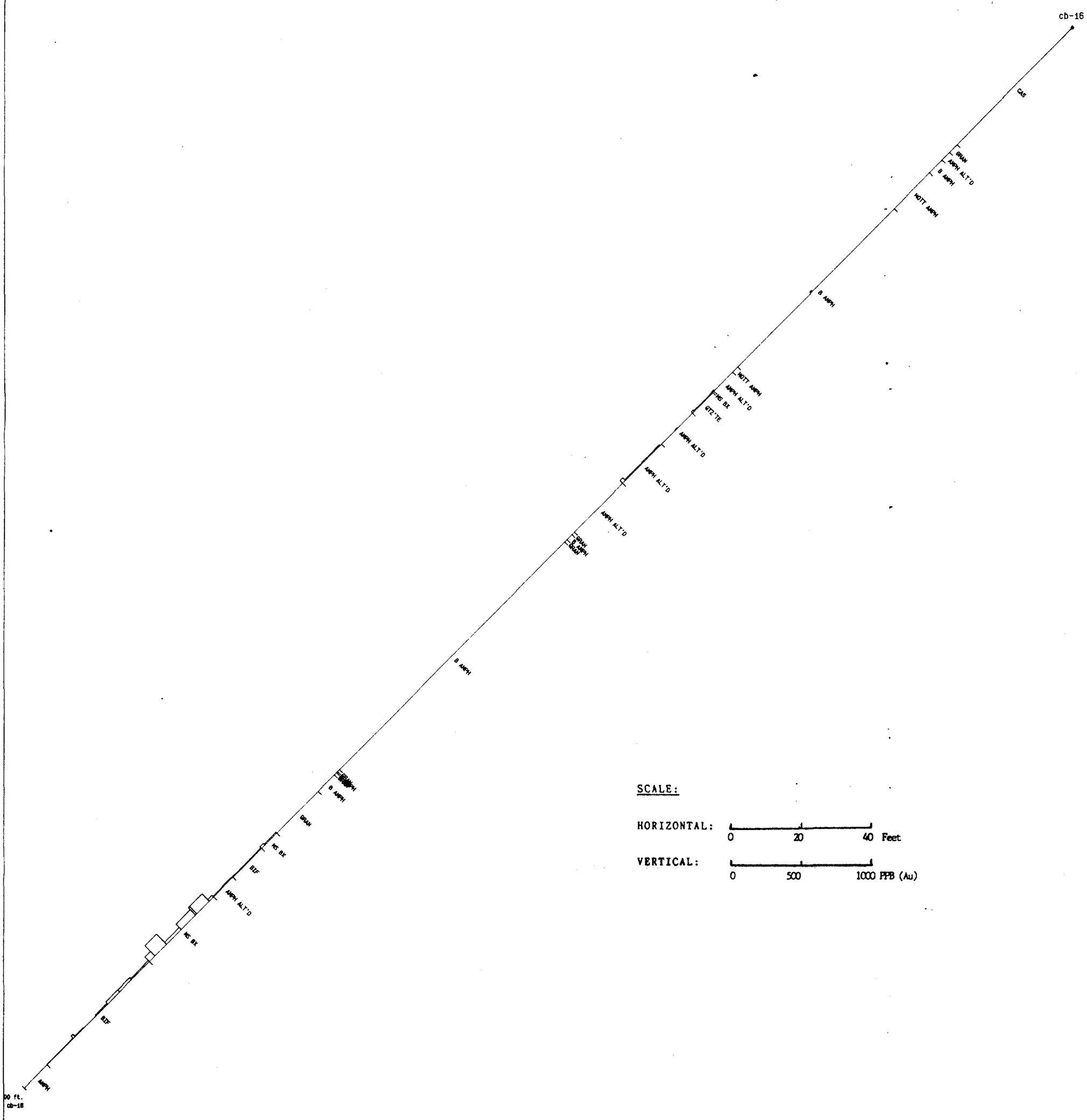
SCALE:

HORIZONTAL: 0 20 40 Feet

VERTICAL: 0 500 1000 PPB (Au)

CHAMPION BEAR RESOURCES LTD.
HELDER LAKE PROPERTY
D. DRILL HOLE SECTION
C-89-15

OM 88-237 Lennan Lk #10

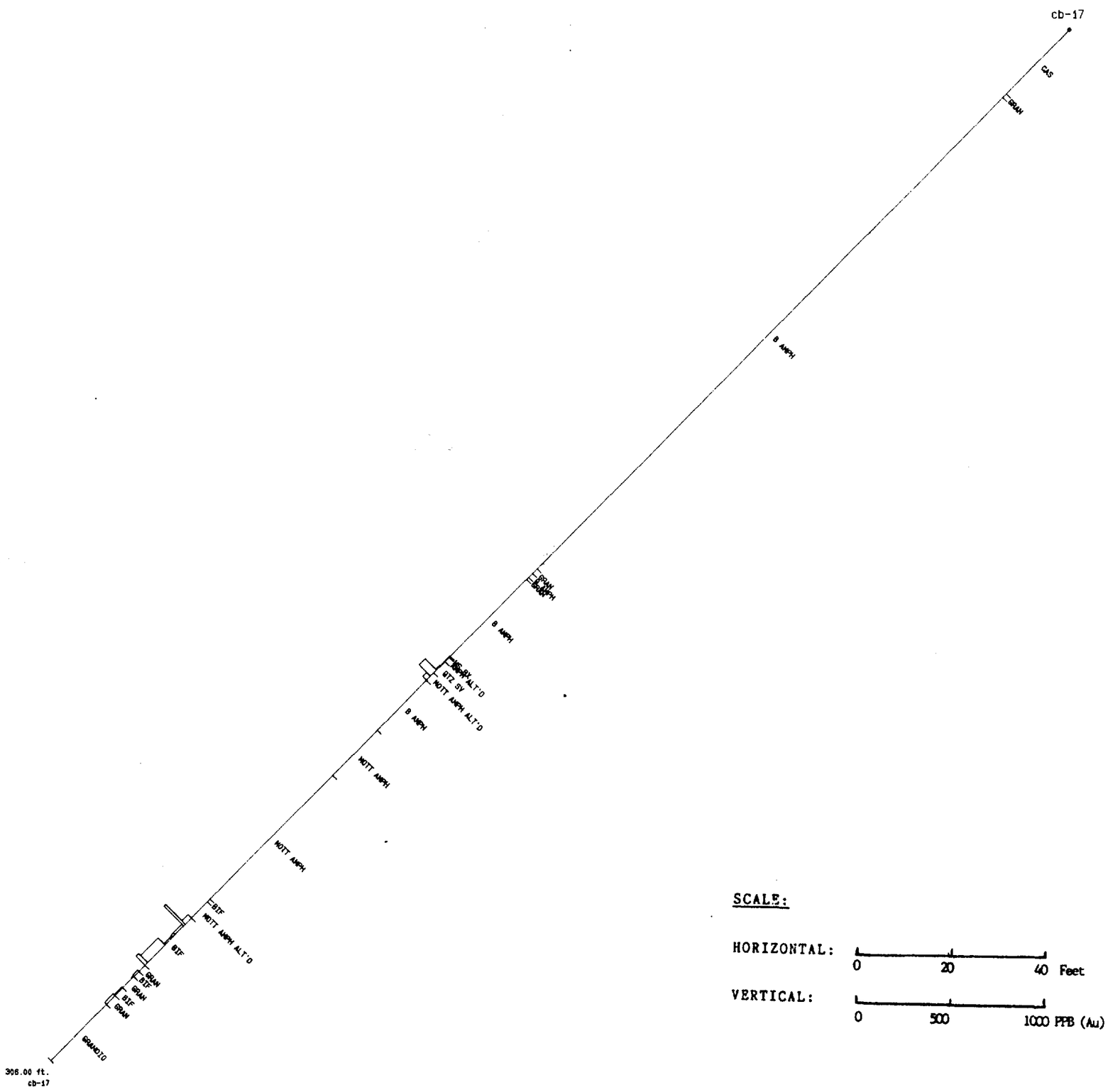


SCALE:

HORIZONTAL: 0 — 20 — 40 Feet

VERTICAL: 0 — 500 — 1000 PPB (Au)

CHAMPION BEAR RESOURCES LTD.
HELDER LAKE PROPERTY
D. DRILL HOLE SECTION
C-89-16



SCALE:

HORIZONTAL: 0 20 40 Feet

VERTICAL: 0 500 1000 PPB (Au)

CHAMPION BEAR RESOURCES LTD.
HELDER LAKE PROPERTY
D. DRILL HOLE SECTION
C-89-17

OM88-237 Lennon Lk #10