



32D04SW0206 31 MCELROY

DIAMOND DRIL

010

TOWNSHIP: McElroy

REPORT No.: 31

WORK PERFORMED BY: Falconbridge Copper

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
L 550222	BC - 1	395.0	Nov/81	(1)

NOTES: (1) #598-81

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DRILL HOLE RECORD

☐ METRIC UNITS
X IMPERIAL UNITS

HOLE NUMBER BC-1		Bastarache Grid LAT. L 11 NW		DEP. 1 + 00 NE	ELEV. Unsurveyed	COLLAR BRNG. 035° True	COLLAR DIP -45°	HOLE SIZE AQ	FINAL DEPTH 395 Ft.
PROJECT PN 042 Bastarache-Castonguay		LOCATION Claim L 550222 -McElroy Township, Larder Lake Mining Division		PURPOSE To test resistivity IP Anomaly near CU-2N showing		DATE STARTED Nov. 10, 1981 DATE COMPLETED Nov. 13, 1981	CONTRACTOR McKnight Drilling Co. Ltd., CORE STORAGE Moly Hill CASING Intact		
ACID TESTS 385' -41°							TROPARI TESTS None		PULSE IN SURVEY ☐ MULTI-HOT SURVEY ☐
FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS	
0.0 - 14.0	Casing								
14.0 - 17.0	Lamprophyre Dyke	Grey to Black	Fine to Med.	Massive, microporphyritic in biotite	Lower Contact 20° Vuggy				
17.0 - 46.4	Argillaceous Pebblestone and Argillites	Black to Dark Grey	Clays to 4mm pebbles	Chaotic sedimentary unit. subangular immature fragments in order of abundance - komatiitic volcanics, argillite, wackes, bedded chert, felspar porphyry and sulphides (pyrrhotite) Fragments matrix supported by a black argillaceous material - Poor fabric, not really bedded.		Strong pervasive carbonate alteration.	Trace pyrrhotite in the form of clasts up to 1 cm.		
46.4 - 56.0	Greywacke	Light Grey-Green	0.5cm pebbles	Section grades from a massive pebblestone at base through a dirty wacke to a fine silts at top. Only the siltstone shows a weak bedding at top.	45°	Strong pervasive carbonate alteration	None	Appears to be a single turbidite pulse, coarse base? fine top. Tops would appear to be down hole.	

HOLE NO BC-1

Falconbridge Corporation Ltd.

LOGGED BY FRANK BALINT

Frank Balint

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
56.0 - 106.0	Coarse Komatiitic Volcanoclastic	Distinct Light Blue-Green	Frag. up to 6 cm	Fragments appear to be predominantly komatiitic volcanics with minor chert and argillite. Massive - fragment supported clastic. 10% - 15% ultramafic chloritic matrix. 80% komatiitic fragments (subangular) (olivine spinifex observed in some fragments). 5% feldspar prophyritic rhyolite fragments (subrounded). 2% sulphide fragments Unit gradually fines into massive greywacke over 3 ft. Upper contact (base of unit?) very sharp at ----		Intense pervasive carbonate alteration. strongly chloritic matrix	2% pyrrhotite over section as elongate subrounded massive fragments. Occasional fragment has trace chalcopyrite as blebs in pyrrhotite.	The sulphides appear to be related to the komatiitic volcanics i.e.-more komatiite frags more sulphides.
106.0 - 156.4	Greywacke with screens of komatiitic volcanoclastic and argillite	Variable Grey to Black to Light Green	Silts to Pebbles	Bedded greywacke 50% of section. Argillaceous - silty screens 30%. Komatiitic volcanoclastic debris as above from 146.4 - 151.3	45° 45°	Strong pervasive carbonate alteration.	Trace pyrrhotite 146.4 - 151.3 - 1% pyrrhotite as clasts.	

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
156.4 - 252.0	Argillite Siltstone	Black	Fine silts to clay	Finely bedded 5% komatiite volcanic fragments up to 1 cm in size in argillite. 202' down section to 252.0' more silty (10%-15% pebbles) 249.7 - 250.3 - carbonated mafic dyke Lower contact very sharp at 30°, locally brecciated and carbonate veined appears to be a fault contact.	45° 30°/60° 30°	Weak pervasive carbonate 1% free carbonate veinlets	No apparent sulphides	Possibly a weak carbon component. Fault contact ??
252.0 - 319.0	Komatiitic Volcanoclastic Debris with argillaceous screens	Light green -blue with dark green matrix.	Fragments fine grained some coarse olivine quench texture	Fragments up to 3 cm generally angular to sub- angular. Fragment types; 80% peridotitic komatiite good olivine spinifex preserved in many fragments. 10% - 20% chlorite-talc matrix. 5% feldspar porphyry 2% banded chert cherty tuff Screens of finely laminated black silt at: 269.7 to 271.4' (1.7') 272.0 - 272.4' (0.4')	Argillite screens bedded at 45° - 50°	Moderate to strong pervasive carbonate alteration throughout section. <1% free carbonate veinlets.	<1% pyrrhotite over whole section. Pyrrhotite occurs as fine disseminations in matrix and a subrounded fragments up to 3 cm with trace chalcopyrite blebs or along rims to fragments	Similar to unit higher in hole. Ultramafic turbidite debris flows with interclated deep water argillites and siltstones

FROM TO	ROCK TYPE	COLOR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				277.7 - 278.8 (1.1') 282.8 - 289.0 (6.2') 297.7 - 298.6 (0.9')				
				Carbonated mafic or ultramafic dykes:				
				279.8 - 282.9 (3.0')	45°/45°			
				289.0 - 291.0 (2.0')	50°/50°			
				From about 300' to 319'				
				50% - 60% of section is a coarse massive wacke.				
319.0 - 367.0	Quartz Carbonate Veined, Brecciated, Sulphide Bearing Komatiitic Volcanoclastic Debris.	Grey to Pale Creamy Brown with White - Grey Veining	Fine	Same material as higher in section but intensely broken up, carbonate altered and injected by qtz. carbonate veining. 20% - 30% quartz carbonate veining. Veins have 2 orientation populations 0 - 30° to C.A. and 45° - 90° to C.A. Veins are from 1 m - 2 cm thick often ragged and splayed Chloritic foliation 30° to 0° to C.A.	0 - 30° 45° - 90° 0° - 30°	Intense pervasive carbonate alteration. Brown (iron carbonate) mottling throughout. 5% - 10% chlorite - chlorite-talc ?	5% - 7% sulphides over entire section. (3% po, 2% py, trace cp) Locally up to 15% sulphides Sulphides occur as fine disseminations and as streaks and platings on chloritic platy surfaces. Sulphides are more abundant near qtz. carbonate veining. 1% sulphides actually in qtz. veinlets.	Badly broken ground 339' 319 - 323 - excellent olivine spinifex preserved in fragments. Ground lost core 324 - 346 (1') 354 - 356.5 (1') 356.5 - 363 (1') 363 - 367 (4') 0% recovery.

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
367.0 - 371.5	Carbonated Pyrite Bearing Mafic Dyke	Grey - Green to Dirty Brown	Fine	Massive 3% - 4% carbonate veinlets Upper contact Lower contact	ground 45°	Intense pervasive carbonate alteration	2% finely disseminated pyrite and pyrrhotite throughout	Related to tectonic zone above.
371.5 - 395.0	Komatiitic Volcanoclastic Debris		SAME	UNIT AS ABOVE TECTONIC ZONE			1% sulphide-fragments up to 2 cm pyrrhotite with trace chalcopyrite.	Identical material as above tectonic zone.
395.0	END OF HOLE							

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ASSAY SHEET

Sample Number	From	To	Estimate		Length	% Cu	% Zn	% Pb	oz Ag	ppb Au	% SiO ₂	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ni					
			Cu	Zn																				
TBD 097	25	35			10					8						55	90	10	641	Argill	aceous	pebble-	stone	
TBD 098	65	75			10					17	47.1	0.63	1.73			63	38	7	689	Komatite	volcano-	clastic		
TBD 099	135	145			10					214						37	68	5	462	Greywacke				
TBD 100	195	200			5					12						60	113	13	211	Argillite				
TBD 1A	270	280			10					25						60	159	9		Komatite	volcano-	clastic		
TBD 2A	319	324			5					16								11		Qtz.carb.	veined			
TBD 3A	324	329			5					9								15		komatiite	breccia			
TBD 4A	329	334			5					11								16		"	"	"		
TBD 5A	334	339			5					8								13		"	"	"		
TBD 6A	339	344			5	Whole core sampled				7								23		"	"	"		
TBD 7A	344	349			5					10								15		"	"	"		
TBD 8A	349	354			5					7								17		"	"	"		
TBD 9A	354	359			5	Whole core sampled				11								50		"	"	"		
TBD 10A	359	363			4	Whole core sampled				13								176		"	"	"		
	363	367			Ground core - no sample																			

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LOCATION MAP
1981 DRILL PROGRAM
BASTARACHE - CASTONGUAY
OPTION
L 550220



Boston Twp.
McElroy Twp.

L 550221

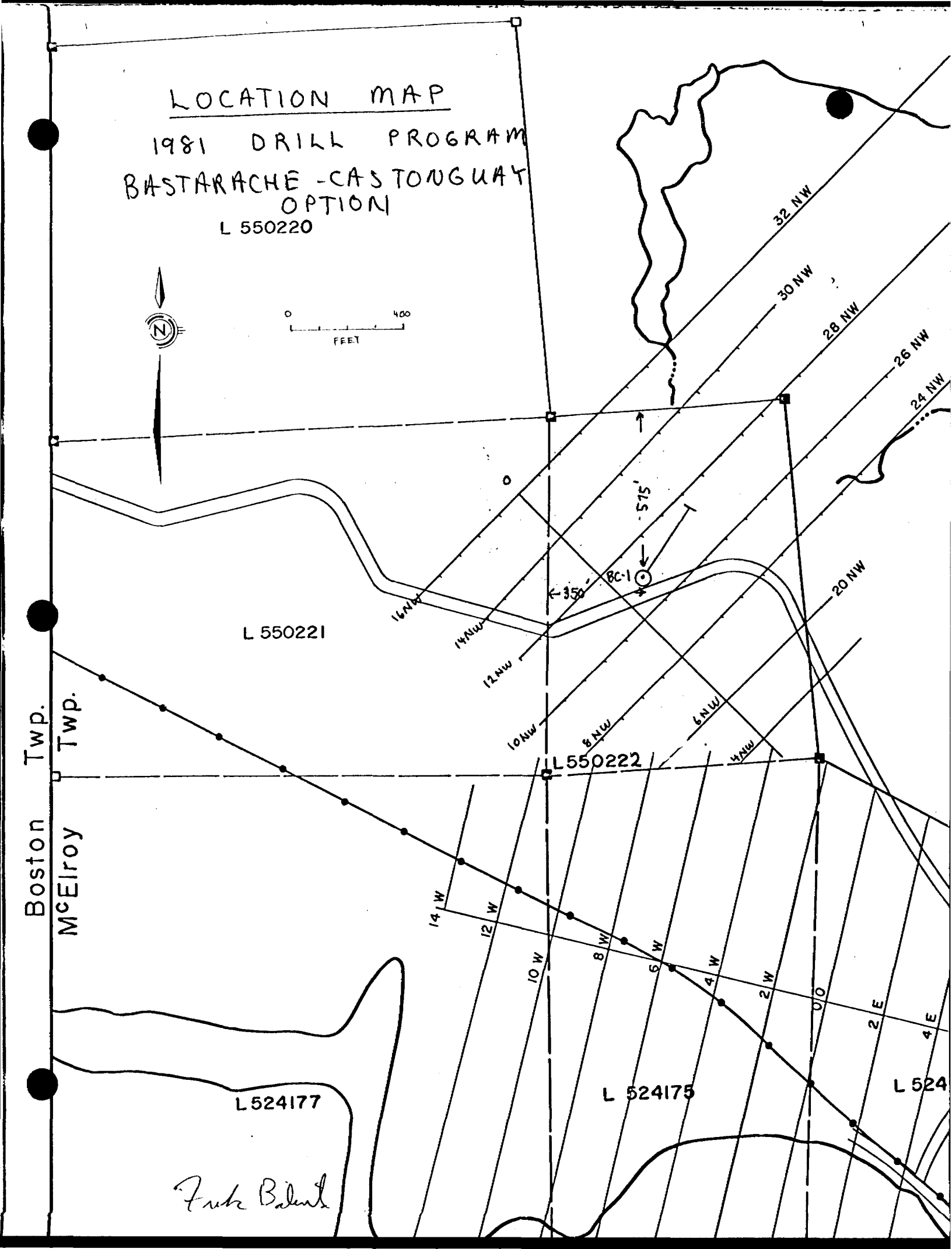
L 550222

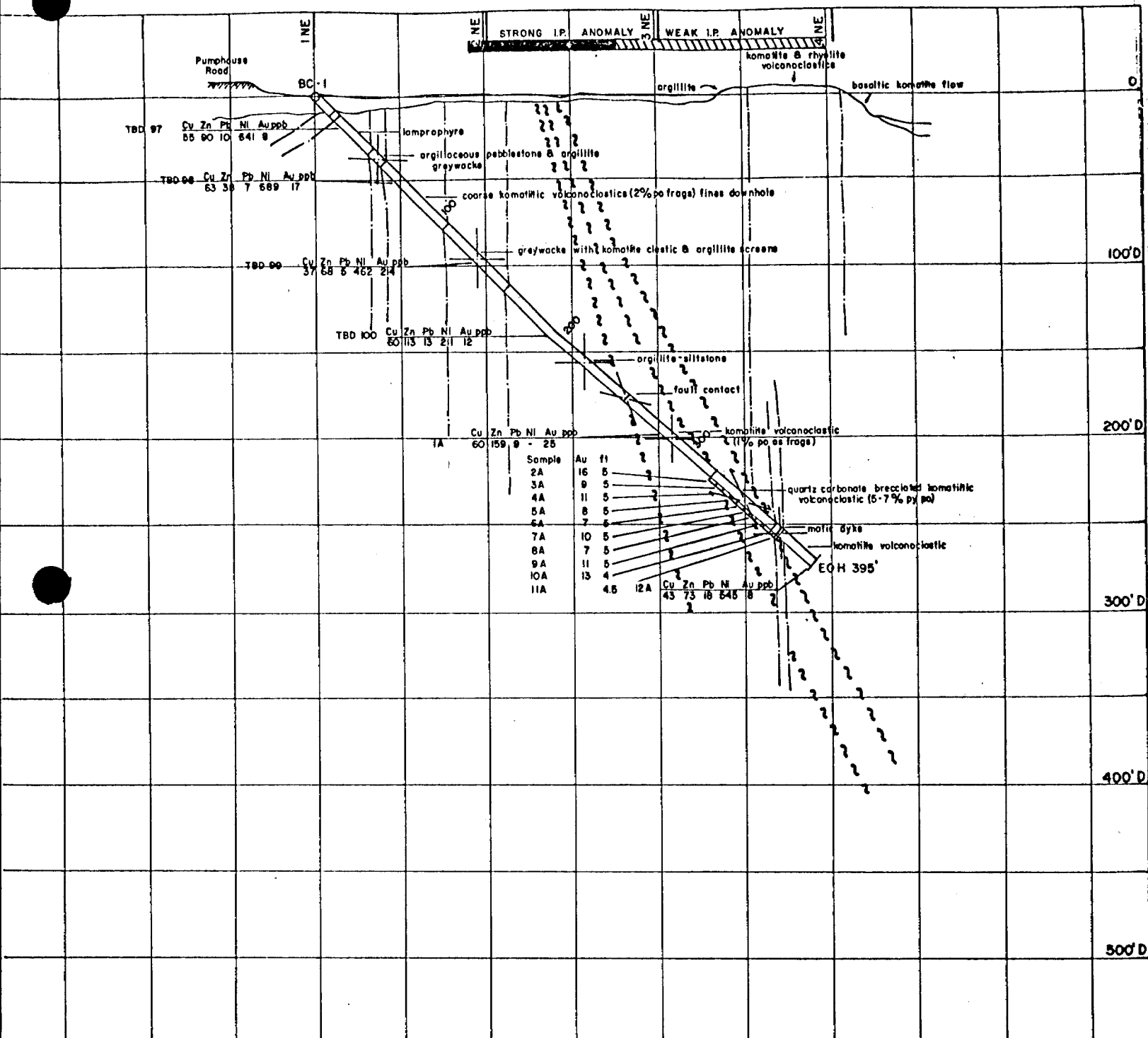
L 524177

L 524175

L 524

Fritz Balent





Pumphouse Road
BC-1

TBD 97 Cu Zn Pb Ni Au ppb
55 90 10 641 8

TBD 98 Cu Zn Pb Ni Au ppb
63 38 7 689 17

TBD 99 Cu Zn Pb Ni Au ppb
37 68 5 462 214

TBD 100 Cu Zn Pb Ni Au ppb
60 113 13 211 12

IA Cu Zn Pb Ni Au ppb
60 159 9 - 25

Sample	Au	Pb	Ni	ppb
2A	16	5		
3A	9	5		
4A	11	5		
5A	8	5		
6A	7	6		
7A	10	5		
8A	7	5		
9A	11	5		
10A	13	4		
11A				

12A Cu Zn Pb Ni Au ppb
43 73 18 645 8

NOTES:
-IP Anomaly due to mineralized fault zone

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DRILL SECTION BC-1

LOCATION: 11-00NW 1-00NE (Bastarache Grid)
 AZIMUTH: 035° True
 DIP: 1-45°

BASTARACHE CASTONGUAY OPTION
 (SECTION 10° TO LINE 12 NW)
 CLAIM L 550222 M'ELROY TWP.

DATE: NOV 1981
 NTS REF: 32 / D-4

DRAWN BY: *Frank Bolat*
 DATE: F. BALINT

