



010

Diamond Drilling

Township of GERMAN

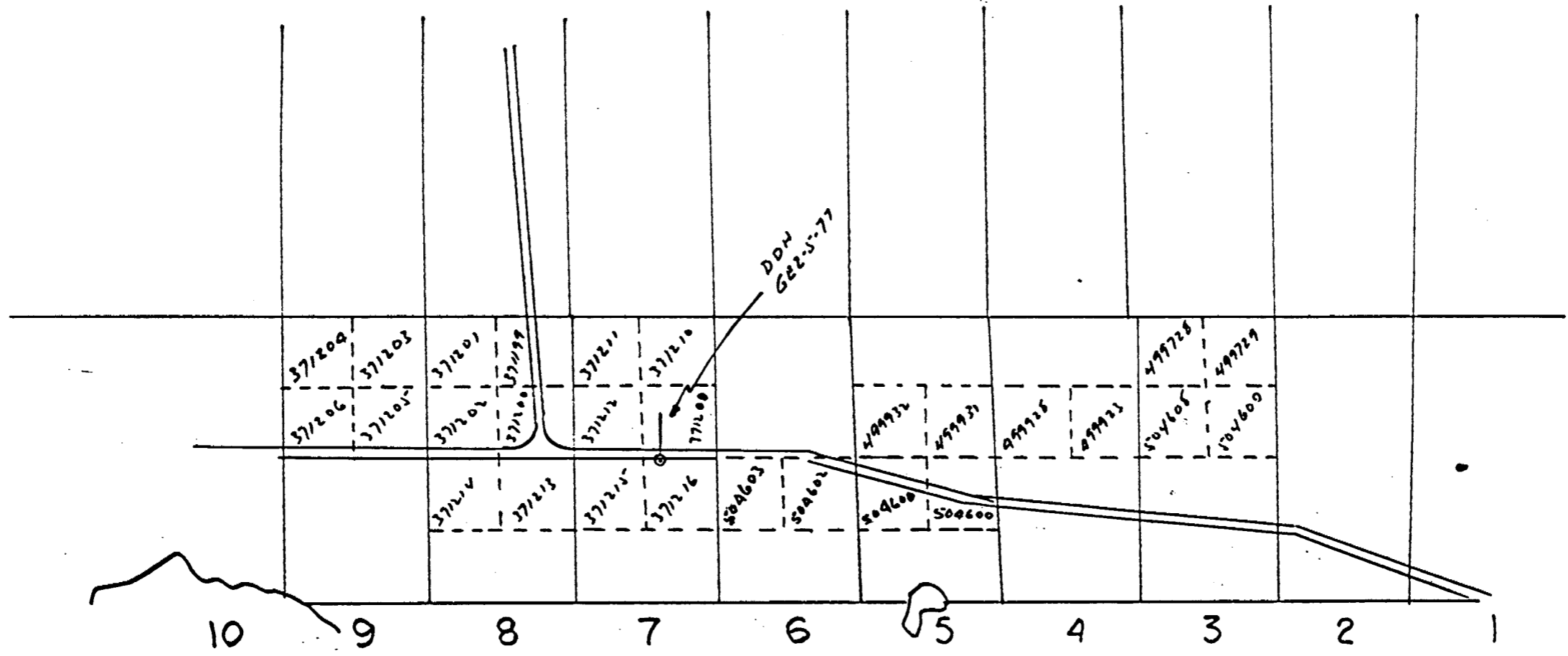
Report NO 15

Work performed by: Hollinger Mines Limited

Claim NO	Hole NO	Footage	Date	Note
P 371209	GE2-5-77	1809.0'	Nov/77	(1)

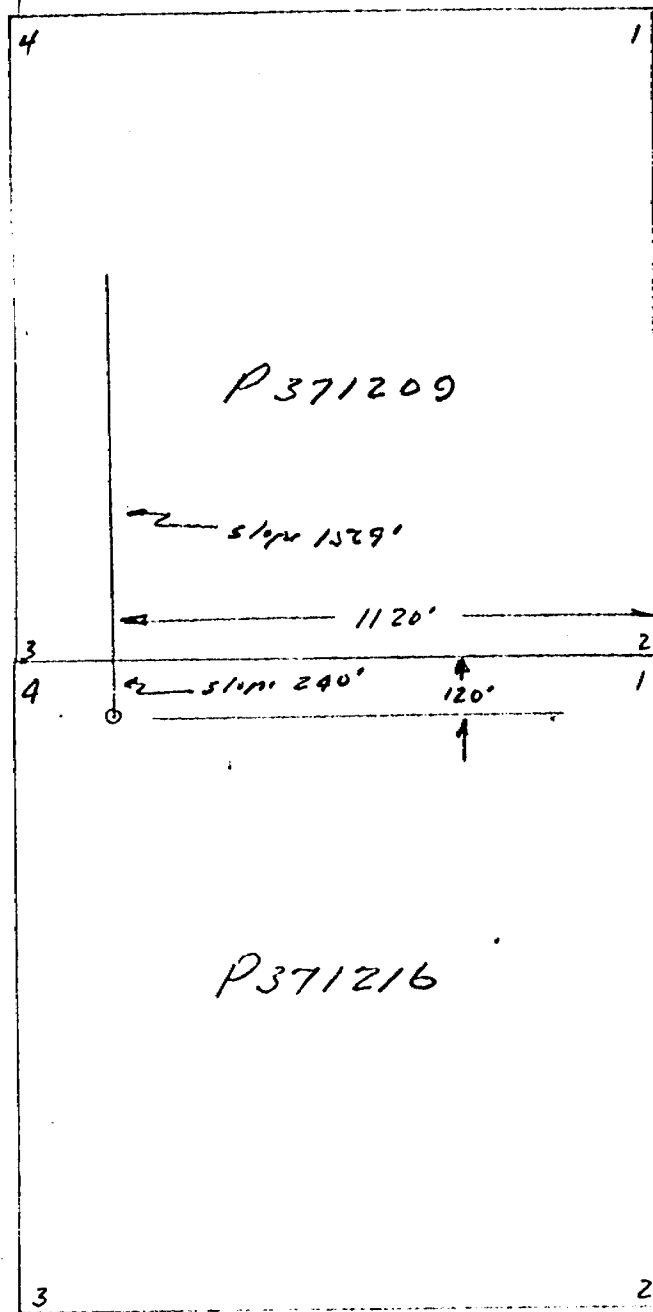
Notes:

(1) #282-77



GERMAN TWP
 1" = 40 CHAIN
 #282-77

Plan of DDH GE 2-5-77



GERMAN Twp.
Scale 1" = 400'

J. Hollan
HOLLINGER MINES LIMITED
TIMMINS, ONTARIO

STARTED NOV 15/77

FINISHED DEC 2/77

WIRE LINE 15 Q CORR

DIA of CORE 1.44"

LENGTH 1809'

DIP -60°

Az 0°

Contractor Bradley Bros Ltd

Timmins

Location of Collar from #1 Post of P-371216 : 120' South
FORM 522 1120' West

DIAMOND DRILL REPORT

HOLE NO. GE2-5-77

NORTH 2+00S
EAST 63+00 W
ELEV. Surface
AZIM. Grid North - 0°
DIP Collar @ 60°; @ 200' - 60°;
@ 400' - 60°; @ 600' - 60°;
@ 1000' - 52°; @ 1400' - 40°.

PROPERTY GERMAN #2 GROUP

COMMENCED November 15, 1977
FINISHED December 2, 1977
PURPOSE OF HOLE To cross xn Temiskaming
seds. in view of inter xn of
chlorite.
Drilled by: Bradley Bros.

BQ Core

German Township

FROM	TO	DESCRIPTION	CORE SAMPLES				DESCRIPTION OF SAMPLE	
			FROM	TO	RECOV.	WIDTH		Au ASSAY
		Test at 1700' - no good.						
0	136	Casing - At bedrock interface 3"						
		boulder of granite - medium grained, potassic stained. The granite is composed of feldspar, quartz, chlorite, biotite and hornblende.	136.5	137.5		1	Trace	1 mm QV along core, chl. slip, py ms
			137.5	140		2.5	"	H - no strcs. tr py ms
			140	145		5	"	H - 1 QV (2 mm) tr py ms
136	1724	Conglomerate - assumed to be part of the Temiskaming sequence which strikes roughly east in this area.	145	150		5	"	H - minor QV tr py ms
			150	155		5	"	H - scatt. slips py ms
			155	160		5	"	H - scatt. slips py ms
		The conglomerate is polymictic - there is a wide variety of fragment types which may be subdivided into two size factions. Larger fragments are found up to 2 or 2½ cm in size - generally subrounded but may be angular in outline. The variety of large fragments includes: grey quartz, grey to off-white and cherty, chloritic, fuchsitic, cherty and porphyritic, sericitic, plus chloritic and fuchsitic sulphide-bearing types.						
		Smaller fragments in the order of 1-3 mm are locally abundant along the core. Only four types of fine fragments were noted as: cherty, sericitic, fuchsitic and						

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PROPERTY _____ GERMAN #2 GROUP

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German Township

FROM	TO	DESCRIPTION	CORE SAMPLES				Au	DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		feldspathic types.						
		The matrix of the conglomerate is a	160	161		1	Trace	H - neg. strgs, slips, sulphides
		fine to medium grained mosaic of quartz	161	162		1	0.005	" sulph. frags. - w. 5% po, py, Zn, Pt
		with some sericite-chlorite alteration and	162	165		3	Trace	" one small QV tr py ms
		general fine fragments. The core is very	165	170		5	"	" fair chl slips - minor py ms
		weakly carbonitized - erratic small flecks	170	175		5	"	" odd slip - tr py ms
		of carbonate seen.						
		Cutting this zone of conglomerate are	175	176		1	"	H - chl. slip + 5 mm QV
		scattered chloritic slips and quartz strgrs.						
		Slips, fractures and stringers occur	176	181		5	"	H - tr QV. few slips w. py ms
		at a variety of core angles, but as a						
		general rule the chloritic slips are at						
		shallow angles to the core (0-10°), chloritic						
		slips with/without carbonate vary from	181	182		1	0.06	H - str. w. Zn, QV. w. tr V.G.
		20-30° to the core, and blue grey quartz	182	184.5		2.5	Trace	" 3% py po in slips and frags.
		stringers average 40-45° to the core.	184.5	185.5		1	"	" str. w Zn - up to 5% po py
		The chloritic slips may or may not	185.5	187		1.5	"	" chl. slip w. py ms, tr MoS ₂ (7%)
		carry associated quartz although carbonate	187	190		3	"	" fairly num. fine slips w. py ms
		and marcasite-pyrite are characteristically	190	194		4	"	" scatt. CO ₃ tr. py ms
		present. When quartz was noted with these	194	195		1	"	" broken w. CO ₃ , py ms to 15%
		chloritic slips a marginal chloritic	195	196.5		1.5	"	" broken w. CO ₃ , py, tr. Zn 2 QV
		bleaching was seen in the adjacent con-	196.5	197.5		1	0.005	" slip w. py ms MoS ₂ 1 cm QV w py
		glomerate (up to 2 or 3 mm wide). Sericite	197.5	200		2.5	Trace	" errat. clips - 5.7% py ms,
		alteration is normally confined to slip						tr Mo, Zn, Pb(?)

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FROM	TO	DESCRIPTION	CORE SAMPLES				Au	DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		faces. On certain slip faces as at:						
		186.6, 196.8-198.7, 199.8 blebs of molyb-	200	203		3	Trace	H - 3-5% py mostly on slips, tr QV
		denite(?) are smeared along the break.	203	204		1	"	" 5 mm QV w. py
		Further, at 208.8, there is a trace of	204	206		2	"	H neg. py
		arsenopyrite seen around a chloritic slip.						
		The blue grey quartz veins are rather	206	207		1	"	H - 5 mm QV w. Aspy tr. py
		widely separated and watery in appearance.	207	210		3	"	" 5% py on slips. tr As.
		Locally, however, stringers are seen	210	215		5	"	" minor to 3% py in blebs and on
		carrying pyrite, sphalerite, arsenopyrite,						slips, 3 mm QV.
		galena(?), molybdenite(?) and in one	215	220		5	"	" minor py.
		instance at 182.0 a pin sized speck of						
		native gold.						
		Three or four clots of arsenopyrite						
		to 3 mm are seen in the quartz vein at						
		206.9. (QV - 5 mm).						
		After approximately 210, the accessory						
		minerals such as molybdenite, arsenopyrite,						
		pyrrhotite, galena, and to some extent						
		sphalerite, are effectively absent. Quartz						
		stringers, carbonate stringers and chloritic						
		slips, however, do persist and are quite						
		abundant locally. The amount of pyrite-						
		marcasite present has sharply decreased						
		as well.						

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German Township

FROM	TO	DESCRIPTION	CORE SAMPLES				Au	DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH		
		The conglomerate, on the whole, changes very little. Generally only fine fragments are noted with erratic sightings of coarser fragments to 1 or 2 cm. The matrix will grade alternately medium to coarse grained with some variation in alteration, but individual beds are not distinguishable.	320	325		5	Trace	H - 7% fine quartz veining, tr ZnS py
		Trace of sphalerite at: 240.5, 322.9, 408.8 and 439.1. Splash of pyrrhotite at 367.8; splash of chalcopyrite at 386.5.						
		Blue grey quartz veins average 2 or 3 per 5' of core - usually narrow at 2-3 mm but up to 1.5 cm wide. From a variety of offsets along the core the chloritic slips and associated systems from 0-30° to the core axis postdate the system of blue qtz veins at 40-45°. Quartz veins also steeper after 210 - will vary from 45-50° to 60-85° to the core (both sets are offset by the shallower systems).	345	348		3	"	H - broken - wide CO ₃ along core, few QV, minor py.
			355	356		1	"	H - broken - 15% CO ₃ strcs + odd QV
			400	405		5	"	H - broken, sericitic - fair slips. tr. QV.
			405	410		5	"	H - 10% QV - minor py.
		Beginning at 433.5 the conglomerate becomes more strongly altered. At first (up to 463.5), the core is crudely banded into chloritic and sericitic patches -						

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German Township

FROM	TO	DESCRIPTION	CORE SAMPLES				Au ASSAY	DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH		
		after 463.5 the rock alteration decreases but the conglomerate is certainly more altered than earlier on in the hole.	450	455		5	Trace	H - altered - 3-5% QV - minor py
		The highly altered section from 433.5 to 463.5 contains a few sections of much coarser conglomerate - several fragments averaging 1 cm in size. Although bedding is not easily defined, alteration banding varies from 45-60° to the core axis. Quartz stringers and chloritic slips, however, are no more common in this section than previous.						
		A few more chloritic slips are noted after 463.5, although pyrite-marcasite content is still minor to negligible along the slip faces.	495	500		5	"	H - mod. alt. - 10% QV - minor py.
		In the section 510-520 a few traces of fuchsite are noted occurring with the shallow chloritic slips - very localized, rarely seen elsewhere.						
		Further, in this area a few of the quartz veins contain the odd bleb of feldspar - no other accessory mineralogy.						
		Beginning at 539.4, the conglomerate is more or less zoned into horizons with						

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FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		closely packed fragments separated by quartzitic to sparsely fragmental horizons of conglomerate. Fragments range up to 4 and 6 cm across. There is a decrease in the number of chloritic slips here as well.						
		Conglomerate horizons include:						
		539.4-540.4 - close packed fragments, general lineation @ 50-55°.						
		540.4-546.4 - sparse fragments to quartzitic.						
		546.4-550 - closely packed fragments up to 1 cm.						
		550-555.9 - quartzitic to very sparsely fragmental.						
		555.9-557.2 - close packed conglomerate, fragments less than 1 cm, chloritic slip with pyrite-marcasite along core.						
		557.2-557.7 - sparsely fragmental conglomerate.						
		557.7-561.5 - fair number of fragments in conglomerate up to 3 cm - average approx. 5 mm.						
		561.5-565.8 - sparse conglomerate.						

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FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	Au ASSAY	
		565.8-566.5 - closely packed conglomerate, coarse fragments to 3 cm traces pyrite, pyrrhotite splash chalcopyrite in carbonate.						
		566.5-588.1 - sparsely fragmental conglomerate to quartzite. Coarse fragments up to 4 cm, but very scattered.						
		588.1-592.5 - fair to moderate number of fragments in conglomerate - not closely packed. Fragments average 5 mm - 1 cm. General lineation of fragments (not consistent) at 40°.						
		592.5-661.2 - sparsely fragmental conglomerate to quartzite with erratic fragments to 4 cm of a wide variety of types. After 620, the conglomerate is a bit darker with more chlorite alteration - stringers with sericite also becoming darker to a yellowish brown colour. Erratic more fragmental sections. One section 636.9-641.7 strongly silicified.						
		661.2-687.9 - very coarse conglomerate with fragments to 4 cm, separated by narrow horizons where there are numerous						
			637	640		3	0.01	H - silicified - fwa - tr py po Zn
			640	642		2	0.01	H - " - fwa - tr py

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FROM	TO	DESCRIPTION	CORE SAMPLES				DESCRIPTION OF SAMPLE	
			FROM	TO	RECOV.	WIDTH		Au ASSAY
		fine fragments up to 5 mm in size. There are also narrow horizons here with very few fragments - generally too narrow to sub-divide. As a general rule, the more coarsely fragmental the horizon, the more chlorite alteration is present. The matrix of the coarsely fragmental sections grades to a dark grey green colour while more finely fragmental to sparsely fragmental horizons are lighter in colour with yellowish sericite alteration.						
		At 678.9 and at 679.3-679.5, two quartz veins with a rather heavy feldspar component.	679	680		1	Trace	H - w. 4 cm qtz-fsp vein, tr py
		Most large fragments are yellowish coloured from sericite. Fragment types are as diverse as at the top of the hole.						
		With the start of this section, a few wisps of a rusty ochre to straw coloured sericite(?) are noted. They may occur either in the matrix or in some of the fragments (particularly as blebs in the fuchsite fragments).						
		687.9-700.2 - predominately, a						

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FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	Au ASSAY	
		sparse fragmental with fine fragments, although there are erratic spaces where numerous fine fragments to 1 cm (average 3-4 mm) occur. Lighter in colour, less chlorite, odd large fragment to 3 or 4 cm.						
		700.2-740.6 - generally coarse well altered chloritic conglomerate with erratic narrow less altered, sparsely fragmental horizons. The matrix is locally more granular with an occasional bleb of biotite and chlorite after biotite(?).	730	735		5	Trace	H - cs.chl., tr py
		Around 735, but more particularly after 740.6, the conglomerate is marked by erratic sections of coarse and fine conglomerate with fairly numerous fragments, separated by sections of coarse and fine conglomerate to quartzite with sparse fragments. As before, the more strongly altered sections relate to the coarse conglomerate with fairly numerous fragments.						
		On the whole, changes in fragment content occur every 2 or 3 feet such that numerous units can be delimited, although contacts are gradational from one type to another.						

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FROM	TO	DESCRIPTION	CORE SAMPLES				Au	DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		The only addition to the conglomerate here is a few banded cherty fragments first noted around 794'.	888	893		5	Trace	H - broken, sil., minor py
		At 807.2 - blue grey quartz vein with a trace of galena.						
		829.5-829.9 - large, granular patch of pyrite.						
		Quartz veins and chloritic slips are a bit more widely separated here although there are local aggregates of stringers just as there are concentrations of fragments locally.						
		883.2-892.5 - blocky ground, silicified with fairly numerous chloritic slips running along the core. The conglomerate is composed of several fine fragments up to 5 mm in size, set in a rather granular matrix.	900	902			Trace	
		After this section the conglomerate is greyer in colour with less chlorite alteration, a few more chloritic slips than previous and the odd greyish quartz vein.	902	905			"	
			905	908			"	
			908	910			"	
		Fragments are rather scattered but occasionally large to 6 cm.						

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FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		Few traces of bright orange-red sphalerite in slips and quartz veins at:						
		904.7 (trace galena as well); @ 917.4,	917	919		2	Trace	H - traces ZnS, py, MoS ₂
		918.0; 918.3 with MoS ₂ (?) on a slip face;	919	922		3	"	" 1 tiny CO ₃ str., unmin.
		922.2 with chalcopyrite; 923.7; 924.4; 926.2;	922	925		3	"	" 3 strs avg. 2 mm, tr Zn Pb cp
		926.3; 926.6; 927.1 with galena; 928.6;	925	926		1	"	" 2 tiny strs. unmin.
		931.7; 931.9; 937.0; and numerous fine	926	927.5		1.5	"	" 4 strs 1-2 mm, minor Zn Pb
		stringers with erratic chalcopyrite and	927.5	930		2.5	"	" 1 str 2 mm w. Zn
		galena from 945-950. Rare bleb of sphalerite	930	935		5	"	" 3 strs. 1-2 mm, tr Zn Pb
		noted outside stringer margins.	935	940		5	"	" few fine strs., tr Zn py
		The conglomerate remains fairly clean	940	945		5	"	" few strs. unmin.
		with scattered large fragments up to 955.8.	945	946		1	"	" 1 str. 3 mm w. Zn Pb
		At that point fragments become much more	946	947.5		1.5	"	" 15 strs. most fine 1 mm w. Zn Pb
		numerous overall with erratic widely	947.5	950		2.5	"	" 5 strs. avg 1 mm w. Zn Pb
		separated units of quartzite to sparsely						
		pebbled conglomerate.						
		The fragments in the conglomerate are						
		up to 6 cm - average size from 1-4 cm.						
		In the coarse conglomerate here, there is						
		a weak increase in alteration - the con-						
		glomerate still being very clean, however.						
		What increase in alteration is present,						
		appears to be chlorite with traces of						
		brownish phlogopite(?).						

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FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		Sphalerite has not been noted since the zone ending at 950'.						
		With depth, the coarse conglomerate grades continuously coarser - fragments averaging 3-6 cm, reaching up to 8 cm across. Also, sparsely fragmental to quartzitic units become much more widely separated.						
		Traces of phlogopite, and in some cases biotite which were noticed at the beginning of this zone are generally more visible at depth. The phlogopite often exhibits a reddish tinge such that some of the blebs may, in fact, be orange-red sphalerite - the blebs are very small (<1 mm).						
		1122.8-1123.5 - a wider pink and white quartz-calcite stringer, otherwise stringers and slips are very scattered here.						
		Around 1203, the rock becomes more variable again with scattered horizons of coarse conglomerate, fine conglomerate, sparsely fragmental coarse and fine conglomerate plus non-fragmental quartzitic units. The conglomerate is moderately altered with chlorite and sericite -						

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			FROM	TO	RECOV.	WIDTH	ASSAY	
		as before, the more strongly altered sections being similarly the coarsest fragmental horizons.						
		Very odd trace of sulphides here, as at 1209.5 fine thread of reddish sphalerite; 1227.6 - 8 cm pyrrhotite fragment; 1250.2 cream coloured sphalerite in a quartz vein; and 1257.1 few blebs reddish sphalerite in a quartz vein. There are also erratic blebs of pyrite all along the core but these are very minor in amount.	1295	1300		5	Trace	H - 10% QC
		1265-1297 - more continuity here - all coarse conglomerate, fragments to 8 cm, matrix locally granular.	1300	1305		5	"	" 5% QC
			1305	1310		5	"	" 10% QC silic.
			1310	1315		5	"	" 15% QC silic.
			1315	1320		5	"	" 10% QC silic.
		At 1300, and extending up to 1324, the core is rather blocky and broken. The conglomerate is a bit more silicified and fairly well cut up with quartz-calcite stringers. Several of the slips in this section have a waxy to soapy texture although no talc was noted. Most of the slips - breaks, are at a shallow angle to the core. Local chloritization.	1320	1325		5	"	" 10% QC
		After 1324, the conglomerate continues						

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FROM	TO	DESCRIPTION	CORE SAMPLES				Au ASSAY	DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH		
		to be variable as just previous to the blocky section from 1300-1324. Quartz-carbonate veins and bluish grey quartz veins are scattered along the core as well as the odd chloritic slip which may or may not carry traces of pyrite smeared along the slip face.						
		Some blocky core again from 1384-1385.8 followed by a silicified section to 1387.1. The silicified section terminates along a quartz-carbonate vein with mud (gouge?) at 40° to the core axis.						
		Sulphide content is relatively minor - mainly pyrite, odd fleck of creamy to reddish to black sphalerite(?) along core, plus rare traces of molybdenite associated with some of the chloritic slips.	1385	1387		2	Trace	H - broken to sil. tr py.
		(remainder logged by C.D.M.)						

DIAMOND DRILL REPORT

HOLE NO. GE2-5-7

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German Township

FROM	TO	DESCRIPTION	CORE SAMPLES				Au	DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH		
			1387	1390	3.0	3.0	0.005	1 sm qtz str at 45° to C.A.
		1387.1 - 1420 - Scattered pebbles and narrow quartzitic bands.	1455	1457	2.0	2.0	Trace	Massive congl. Pebbles up to 1" in dia. V.L. min.
			1457	1458	1.0	1.0	"	3 - ½" qtz strs and 2 cal. strs at 60° to C.A. Pyritic, sheared.
		1420 - 1439.5 - 19'5" quartzitic section; only a few local pebbles; banding 45° to 50° to C.A.	1458	1460	2.0	2.0	"	Mass. congl., shear plane at 5° to C.
		1439.5 - 1460 - Large pebbles loosely packed. Pebbles up to 1" in dia.	1490	1492	2.0	2.0	"	Mass. congl. V.L. pyrite.
			1492	1495	3.0	3.0	0.005	Py + red sph.; mass congl.
		1460 - 1483 - Quartzite section with scattered altered pebbles, occasional green fuchsite clast.	1510	1511.5	1.5	1.5	Trace	Mass. quartzite.
			1511.5	1512.5	1.0	1.0	0.01	2 sm qtz strs. alt. congl.
		1483 - 1724 - Loosely packed congl. - pebbles 1" in dia. Sphalerite and galena in qtz-cal strs. and in alt. fract. pebbles.	1520	1521	1.0	1.0	Trace	Alt. congl. with sph + galena.
			1525	1530	5.0	5.0	"	Mass. congl. + strs with sph + galena
			1530	1531	1.0	1.0	"	Mass congl. Soft pink strs. Py + sph
			1531	1535	4.0	4.0	"	Qtz strs at 30° to C.A. Shearing along strs.
			1535	1540	5.0	5.0	"	Mass. congl., occ. qtz str with sph.

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 PURPOSE OF _____
 HOLE _____

German Township

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
1724	1729.4	Greywacke in contact with congl.; contact at 50° to C.A.						
1729.4	1743.6	Argillite with interbedded fine quartzite bands up to 3" wide; banding at 60° to 70° to C.A. (14' of argillite).	1695	1697	2.0	2.0	Trace	Mass. congl. qtz pebbles, occ. speck of pyrite.
			1715	1720	5.0	5.0	"	Mass. lossly packed congl.
			1720	1725	5.0	5.0	Nil	As above with white quartzitic matrix minor sulphides, a few chloritic fragments.
1743.6	1764	Fine grained dark alt. greyw., becoming lighter in color to altered pyritic, very fine quartzite.	1740	1745	5.0	5.0	Trace	3' cherty qtz bands in argillite at 70° to C.A.
1764	1809	Fine grained pyritic bleached quartzite, becoming coarse grained with occasional fragment + 3% pyrite diss. throughout core.	1760	1765	5.0	5.0	"	Dk quartzitic greyw. + Py.
			1775	1780	5.0	5.0	"	Lt col. pyritic quartzite.
			1780	1785	5.0	5.0	"	" " "
			1785	1790	5.0	5.0	"	" " "
			1790	1795	5.0	5.0	"	Pyritic lt.col. alt. quartzite
			1795	1800	5.0	5.0	"	" " "
			1800	1805	5.0	5.0	"	" " "
		1809' - END OF HOLE	1805	1809	4.0	4.0	0.005	Pyritic quartzite, sm. fragments.