42A01SE8934 31 TECK

DIAMOND DRILLING

TOWNSHIP: TECK

REPORT NO.: 31

WORK PERFORMED BY: QUEENSTON GOLD MINES

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
16419 Loc. "A"	G-79-3	1086.0	Nov./79	(1)

NOTES: (1) Rec'd from Resident Geologist, Kirkland Lake
Not for assessment credits. (March 31/80)

PROPERTY QUEENSTON GOLD MINES LIMITED

GATEFORD OPTION

HOLE No. G 79-3

PAGE No. 1

LOCATION: 750' N of Twp. Line
LATITUDE: 1050'W of E Bdry
DEPARTURE: Location 'A'
ELEVATION:

STRIKE: N 70° West
DIP: Collar 60°
DATE DRILLED: @125) November, 1979
450) 56°
650) 900 = 52°

PURPOSE: See page 4

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	ASSAY VALUE
0- 102	Casing			
102 -	ULTRAMAFIC VOLCANICS blue black to grey black in colour hardness varying from very hard to very soft varying f. g. usually black to m.g. usually gray varying strongly magnetic to non magnetic			
102 - 108	BLACK F.G. MASSIVE very hard non magnetic			
108 - 117	" " " med. Hardness magnetic			
117 - 127	" to grey " " " "			
127 - 147	" F.G. " soft magnetic			
147 - 152	GREY F.G. RUBBLY possibly a polsuturated flow top - carbonate rich both as dissemination & fine hairy fractures			
152 - 176	BLACK F.G. MASSIVE soft magnetic			
	********** SHARP CHANGE *********			
176 - 190	GREY MED. GR. MASSIVE med. hard non magnetic to approx. 185 then increase in magnetics and darkening of colour to 190			
190 - 200	BLACK F.G. MASSIVE soft magnetic			
200 - 225	VARYING GREY TO BLACK F.G. MASSIVE magnetic to non magnetic			
225 - 232	BLACK F.G. MASSIVE increasing hardness to hard at 130 - 132 magnetic to strongly magnetic			
	********SHARP CHANGE ********			
232 - 235	GREY fractured, carbonate rich, motley in part soft weakly magnetic			
235 - 245	BLACK F.G. MASSIVE magnetic carb. rich in section grad. climal change to			
245 - 265	GREY BLACK F.G. MASSIVE variable magnetics short carbonate rich sections			
265 - 266	SAME with spinifex broken core			
266 - 269	BLACK F.G. MASSIVE hard fractured - magnetic			
	******** SHARP CHANGE ********			
269 - 305	GREY F.G. MASSIVE dense to motley hard) flow non magnetic rock gradational change to) contact 305			
305 - 362	BLACK TO GREY F.G. MASSIVE weak magnetic to magnetic progressive hardening from soft to med. hard			
	********* SHARP CHANGE *******			
362 - 415	GREY F.G. MASSIVE med. hard, non magentic colour patterns in core suggest flow structure } Flow			
415 - 429	GRADATIONAL CHANGE TO BLACK F.G. dense hard to very hard (424-425) magnetic			
	***** ABRUPT CHANGE *******			
429 - 432	GREY F.G. MOTLEY soft talcy non magnetic			
432 - 442	GREY F.G. Hard non-magnetic			

DRILLED BY Heath & Sherwood

SIGNED

L. J. Cunningham, B.Sc., P.Eng.

PROPERTY QUEENSTON - GATEFORD

LOCATION: _____ **HOLE No.** G 79-3

LATITUDE: _____ **STRIKE:** _____ **PAGE No.** 2

DEPARTURE: _____ **DIP:** _____

ELEVATION: _____ **DATE DRILLED:** November, 1979

PURPOSE: _____

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	ASSAY VALUE
442 - 585	BLACK DARK GREY F.G. MED. HARD Magnetic chloritic on slips suggestion of ~~mix~~ polysuturation 480 - 490 with development of thick (1-2 cm) bands of ~~xxx~~ chlorite			
585 - 602	GRADATIONAL CHANGE TO BLACK F.G. Massive hard magnetic rock			
~~602XXX613XXX~~	******* SHARP CHANGE *********			
602 - 613	DARK GREY F.G. RUBBLY soft weakly magnetic talcose suggestive of a flow top breccia or an eroded polysuturated top weakly magnetic 610 - ~~2~~ 1" white qtz. calcite - 90°/core less than 1% pyrite in walls for 1"			
613 - 624	BLACK F.G. MASSIVE magnetic med. hard			
624 - 699	GENERALLY GREY RUBBLY soft talcose chloritic short sections (less than 1 f~~g~~.) talc-chlorite schist variably magnetic 640-641 excellent spinifex includes short sections of f.g. black, hardes 696-699 highly sheared, talcose, foliated - 60°/core 694 coarse, blotchy, brassy pyrite with white calcite developed at random over 6" max. 3% py.			
699 - 812	DIABASE INTRUSIVE sharp contact - 60°/core 699 - 709 chilled to f.g. hard black 709 med. to coarse grained greenish grey speckled appearance non magentic to locally weakly magnetic 790 - 812 F.G.			
812 - 829	SWARM OF DB DIKES - 60°/ to 80°/core 1 cm to 1 m. wide pale grey-grey f.g. within black f.g. soft talcose sheared carbonated ultramafic			
829 - 903	BLACK TO GREY F.G. SOFT sheared talcose carbonated ultramafic basalt variably magnetic cut by numerous white carbonate stringers generally about 60°/core with diabase dikes as noted below spinifex @ 861 872-874) 877-878) Diabase f.g. dark grey - contacts 30°/core			
903	PORPHYRY Qtz. feldspar porphyry Contact unchilled @ 90°/core very hard variable colour grey predominates with pale green to creamy altered varieties to pink/deep red varieties with			

DRILLED BY _____ **SIGNED** _____

PROPERTY QUEENSTON GATEFORD

HOLE No. G 79-3

LOCATION:

LATITUDE: STRIKE:

DEPARTURE: DIP:

ELEVATION: DATE DRILLED: November, 1979

PAGE No. 3

PURPOSE:

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	ASSAY VALUE
	prominent phenocrysts Alteration in form of intense bleaching adjacent to fractures and varies from 1 cm. width to total bleaching of core for ± 1 M Few short sections of quartz veins white to pink with sparse pyrite mineralization 903-910 Deep red purplish colour prominent whitish phenocrysts 3 - 5 mm 905-6 fine qtz. fracturing 3mm very sparse pyrite sericitic 910-916 Grey-mauve colour with creamy bleached strips (1 cm wide) accompanying fine qtz. fractures usually 20° - 30°/core fine sparse pyrite in bleached areas and sericite 916-921 Green highly fractured 10% white qtz. as veins and irregular masses fine sparse 1 - 2% pyrite contains 2 - 1" white qtz. veins 80°/core sparse fine and coarse pyrite and a wispy black material (graphite or moly) on several slips 921-943 Dark pink-salmon colour prominent whitish phenocrysts (± 3 - 5 mm) qtz. & feldspar 921-924 fractured & cut by pink to red dikes (1 - 2 cm wide) of same material Very fine grained ground mass with prominent white phenocrysts 940-943 few bleached strips (1-2 cm) paralleling fine qtz. stringers 943 Grey to pale grey green popphyritic texture blurred by bleaching but in narrow sections resemble clasts as in a coarse sandstone 947-952 Pink f.g. cherty vein or dike parallelling core but brecciated & discontinuous 955-958 Brecciated & recemented with qtz. sparse fine pyrite intensely bleached to buff colour 965-991 Highly bleached & fractured section pale grey-green colour White & pinkish qtz. as fractures & cementing about fragments Sparse fine pyrite & sericite over short 1-3 cm. 991-1052 Grey coarsely porphyritic with pale grey green bleached section but amount of bleaching & fracturing is diminishing less 1% qtz. very sparse pyrite with the fine qtz. stringers			

DRILLED BY

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PROPERTY QUEENSTON - GATEFORD

HOLE No. G 79-3

PAGE No. 4

OCATION:
LATITUDE:
DEPARTURE:
ELEVATION:

STRIKE:
DIP:
DATE DRILLED: November, 1979

PURPOSE:

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	ASSAY VALUE
1052 - 1086	Dark purplish grey phenocrysts not prominent to naked eye finely fractured with hairy like qtz veinlets More pink feldspars no bleaching as in preceding porphyry rocks.			
1086	END OF HOLE 19th November, 1979			

P U R P O S E:

To test an unexplored area with a deep overburden cover midway between the Crescent and Golden Gate workings; to gain geological information of the mafic rocks to the south of the sedimentary-volcanic disconformity (the Larder Lake Break).

The drilling failed to intersect veins, mineralization or intrusives that would correlate with either the Crescent or Golden Gate workings. The swarm of dikes encountered are interpreted to represent faulting. We are proposing that the 2 mine areas were originally one - now separated by north south faulting. The hole terminated in a large mass of very variable porphyry which occupies the disconformity between mafic volcanics to the south and sediments to the north.

DRILLED BY Heath & Sherwood

SIGNED

L.J.Cunningham, B.Sc. P.Eng.

D. D. H.
NO. 102 (1950)

RIVER

D. D. H.
NO. 108 (1950)

MAFIC VOLCANICS

PORPHYRY

0.05
2.0'

MAFIC VOLCANICS

0.05
0.1'
1" PYRITE
BLACK SHALY
TUFF
(PROBABLY
GRAPHITE)

SERICITIZED

1115'

SWARM OF NARROW DIABASE DIKE

DIABASE DIKES

MAFIC VOLCANICS

500'

700'

750' - LO

19

903'

QTZ. FELDSPAR
PORPHYRY
ALTERED &
BLEACHED

1086' - STOPPED - 19 NO

NOTE - D.D.H. 102 & 108
ARE 200' SOUTH
WEST OF SECTION

RIVER

G-79-3 - STARTED NOV. 6/79

60°

NOV. 8/79 - BEDROCK @ 102'

INDIVIDUAL FLOWS AS SUGGESTED BY COLOUR, HARDNESS AND MAGNETITE CONTENT (ATTITUDE ASSUMED)

300'

MAFIC VOLCANICS

500'

DIABASE DIKE

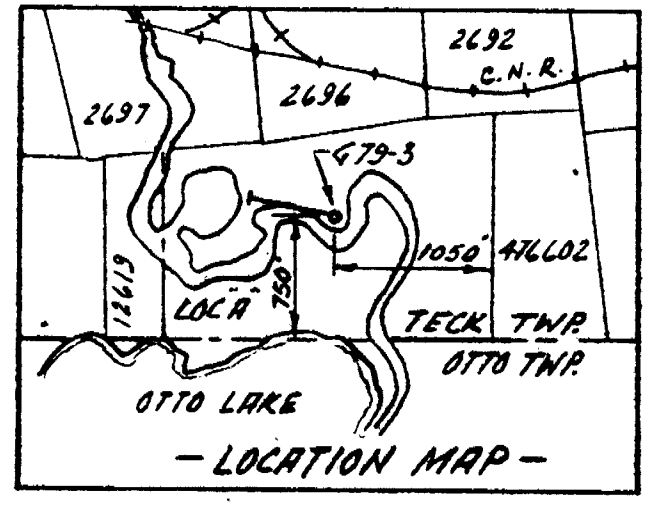
SWARM OF NARROW DIABASE DIKES

700'

750' - LOCATION & DEPTH OF HOLE - NOV. 15/79

900'

1086' - STOPPED - 19 NOV. / 79



— LOCATION MAP —

— QUEENSTON GOLD MINES LTD. —

GATEFORD OPTION

CLAIM 16419 (LOC "A")

TECK TOWNSHIP

X - SECTION

D.D.H. NO. G79-3

SCALE - 1" = 100'

L.J. CUNNINGHAM - B. Sc. P. ENG. NOV. / 79