



DIAMOND DRILLING

010

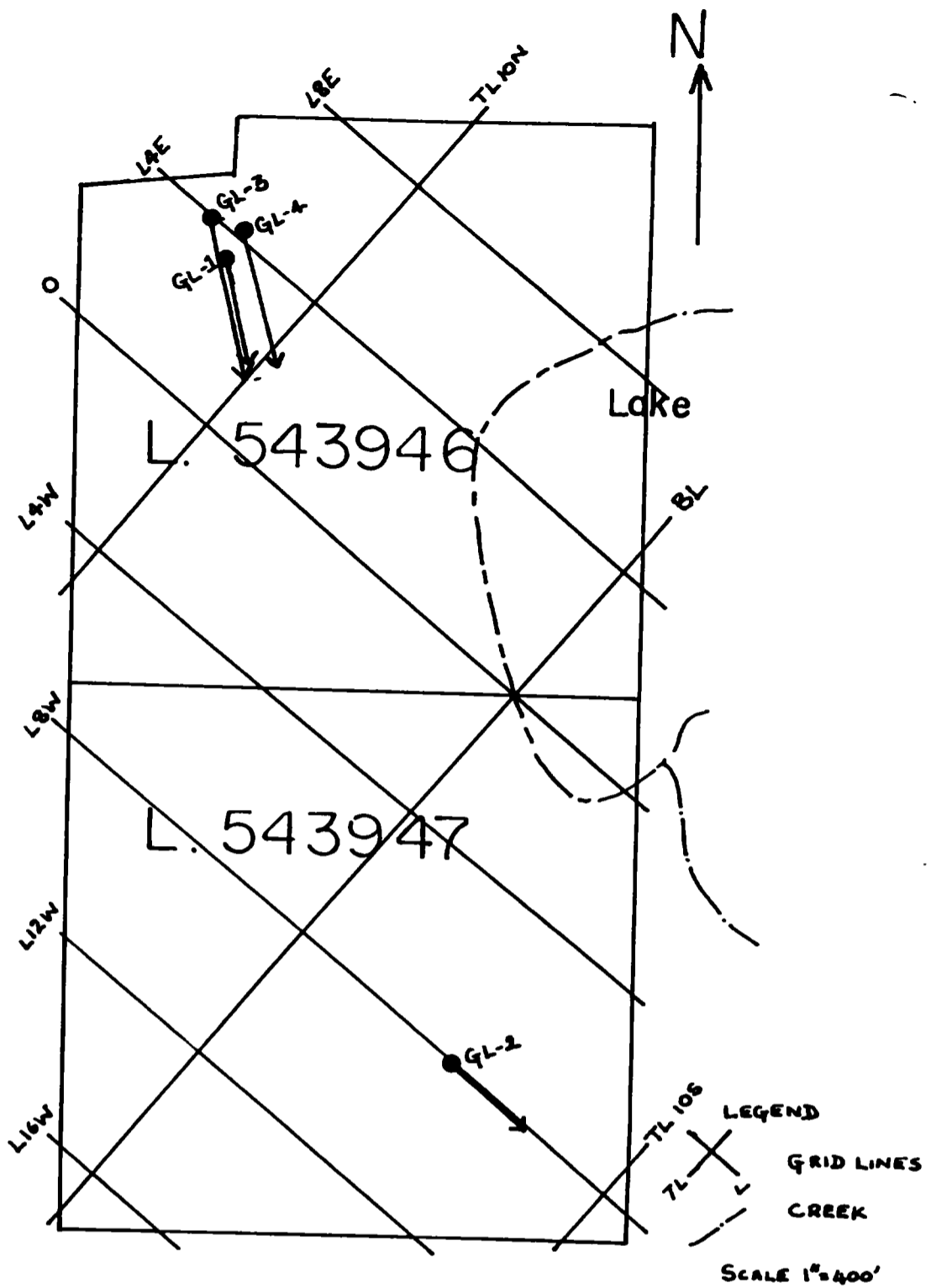
TOWNSHIP: MAISONVILLE

REPORT No.: 16

WORK PERFORMED BY: LACANA MINING CORPORATION

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
L 543946	GL-1	353.25	July/80	(1)
	GL-3	500.0	July/80	(1)
	GL-4	450.0	Aug./80	(1)
L 543947	GL-2	400.0	July/80	(1)

NOTES: (1) # 273-80



LACANA MINING CORPORATION
 MAISONVILLE TWP. GOOSE LAKE.
 LOCATION OF DDH's GL1 to 4.

	Length	Bearing	Dip
GL-1	353.25'	170	50
GL-3	500.00'	170	50
GL-4	450.00	170	45
GL-2	400.00	132	60

DRILLED BY NOREX DRILLING LTD. SOUTH PORCUPINE . ONT. A. GAGNON

DRILL HOLE LOG

HOLE GL-1 PAGE 1

PROPERTY Goose Lake
 DISTRICT Maisonville Twp.
 LOCATION Top of small rise NE end
of claim 1543946
 OBJECTIVE To test conductor 270'
(Az 170°)
 COMMENCED July 12, 1980
 COMPLETED July 15, 1980
 LAT 12+50N

DEP 3+50E
 ELEV _____
 BEARING Az 170°
 DIP 50
 LENGTH 353.00'
 EICH. AT 52'
 TRUE DIP 42°

HOR. COMPONENT 250
 VER. COMPONENT 260'
 TOTAL RECOVERY 100%
 OTHER SURVEYS _____
 DRILLED BY _____

LOGGED BY J. Bateman/
 R. Wells

R. Wells

FOOTAGE FROM	TO	DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES		
					g	oz/t	oz/t
0	13	Casing	GL 19	31.0-34.0	10		
13	17	Feldspar Porphyry Gray to pinkish gray, hard, medium grained with pinkish to white euhedral feld- spar phenocrysts to 4mm. Up to 5% dissemi- nated pyrite. Chlorite shears at varying angles.	20 21 22	39.0-42.0 47.0-50.0 50.0-53.0	7 5 8		
17	170	Flow Breccia Gray to greenish gray, medium to coarse breccia consisting of monolithicologic frag- ments of fine to medium grained volcanic fragments in a fine chloritic matrix. Both fragments and matrix are carbonated to vary- ing degree. Fragments are angular to sub- angular. Thin veins and stringers of white carbonate are common occurring predominantly at angles of 40° to 60° to C.A. Pervasive K-spar alteration affects small sections and wallrocks adjacent to some veins. Pyrite occurs as disseminated grains throughout and at vein margins.					

31.0 to 33.7 up to 5% disseminated and
 stringer pyrite and pyrrhotite

CONTINUATION OF DRILL HOLE LOG

HOLE GL-1 PAGE 3

FOOTAGE FROM TO	DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES								
				Au-ppm	Ag-ppm	Cu-ppm	Pb-ppm	Zn-ppm	Au-oz/t			
		GL-30	126.0-129.0	9								
		31	131.0-134.0	6								
		32	151.0-154.0	25								
		33	155.0-158.0	45								
		34	159.0-162.0	10								
		35	162.0-165.0	8								
		36	165.0-168.0	8								
		37	168.0-171.0	25								
		38	171.0-174.0	3								
		39	190.0-193.0	3								
		40	200.0-203.0	3								
		41	210.0-213.0	6								
		42	225.0-228.0	2								
		43	228.0-231.0	20.5								
		44	231.0-234.0	5								
		45	234.0-237.0	6								
		46	237.0-240.0	4								
		47	250.0-253.0	12								
		48	261.0-264.0	5								
		49	265.0-268.0	8								
		50	281.0-284.0	32								
		51	292.5-295.0	25								
		52	295.5-298.0	15	0.3	75	8				100	
		53	298.0-301.0	4	0.2	75	5				93	
		54	301.0-304.0	18	0.3	67	4				112	
		55	304.0-307.0	6	0.2	94	6				115	
		56	307.0-308.0	5	N.D.	80	4				175	
		57	310.0-311.0	7								
		58	320.0-321.0	8								
		59	322.0-324.0	7								
		60	329.0-331.0	25	N.D.	51	5				108	

CONTINUATION OF DRILL HOLE LOG

HOLE GL-1 PAGE 4

FOOTAGE

FOOTAGE		DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES				
FROM	TO				%	%	%	%	Oz/t
		292 to 308 prominent fine scale bedding 40° to 45° C.A. with massive pyrite and pyrrhotite layers and lenses interlayered with fine green tuff and gray argillaceous sediments. Some graphite occurs in the sediments							
		Po up to 15% Cp up to .5%							
		310 to 311 carbonate rich breccia							
329	353.25	Cherty Sedimentary Rocks Banded cherts and black argillaceous sediments							
		Banding 25° to 50° C.A.							
		340.5 to 345.0 carbonated section obscuring bedding							

HOLE GL-3 PAGE 2 CONTINUATION OF DRILL HOLE LOG

FOOTAGE		DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES		
FROM	TO				Au-ppb	%	Oz/t
30.0	60.0	<p>5-30 very coarse breccia with fragments over 10 cm. angular with light green alteration rims. The matrix is darker coloured with more pyrite</p> <p>Flow Breccia Light greenish gray to gray flow breccia. Poorly sorted with large angular to subangular fragments with light coloured, altered rims in fine to medium grained fragmental matrix. Flow alignment is sometimes evident in the matrix. The whole unit is carbonated in varying degree. Minor crosscutting carbonate veins occur 40° to 80° C.A.</p>	GL-3.1 3.2 3.3	81.9-82.9 89.7-90.4 190.4-191.6	14 45 15		
60.0	90.4	<p>Massive Flow Massive light green to gray unit displaying patchy alteration. Numerous crosscutting carbonate stringers and veins at varying angles to C.A. The coarser veins occur 40° to 60° to C.A. though contain little sulfide minerals</p> <p>81.9 to 82.9 carbonate vein, pure carbonate 30° to C.A. Wallrock carbonate stringers contain minor pyrite and chalcopyrite with associated K-spar alteration</p> <p>89.7 to 90.4 strong chlorite, K-spar and carbonate alteration with pyrite</p>					

CONTINUATION OF DRILL HOLE LOG

PAGE 3

HOLE GL-3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES		
					pph	%	Oz/t
90.4	92.6	Massive Flow Pinkish gray medium grained unit with contacts at 30 to C.A. Much disseminated pyrite. Shearing at 20 to C.A. with displacement of 1-5". Minor amounts of chalcopyrite					
92.6	101.0	Massive Flow Green with pyrite as disseminations and in stringers. Small amounts of pyrrhotite and local K-spar alteration. Numerous narrow carbonate veins at varying angles to C.A.					
101.0	167.6	Flow Breccia Light gray green to gray massive to brecciated with numerous carbonate veins some showing peripheral K-spar alteration. Disseminated and stringer pyrite. Locally vesicles filled with carbonate (a) 117 to 118 1 cm. carbonate vein subparallel to C.A. 127 to 130 gray and massive with minor amounts of carbonate 131 to 133 medium to fine gray breccia 138.4 to 140 extensive K-spar alteration with quartz carbonate veining and associated pyrite and pyrrhotite	GL-3.4 3.5 3.6 3.7 3.8 3.9 3.10 3.11	138.4-139.4 142.5-144 144-146 160-161.5 161.5-163.3 163.3-166.6 166.6-168.2 170.0-172.3	12 20 50 15 25 90 38 16		

HOLE GL-3 PAGE 4 CONTINUATION OF DRILL HOLE LOG

FOOTAGE		DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES			
FROM	TO				Au-ppb	%	%	Oz/t
167.6	187.2	<p>143 to 147 extensive K-spar alteration and veining</p> <p>160 to 167.6 dark green to pink strongly altered section with carbonate veining 35° to 45° C.A. Minor galena</p> <p>Feldspar Porphyry Gray to pinkish gray, hard, medium grained with pinkish to white, euhedral feldspar phenocrysts to 4 mm. Up to 5% disseminated pyrite minor amounts of chalcopyrite. Quartz veining 30° to 45° C.A. with fine peripheral pyrite. K-spar alteration occurs along the margins of veins 40° to 60° C.A. In angle (167.6) 40° C.A. out In angle (187.2) 45° C.A.</p> <p>182.5 to 185 groundmass in finer and darker gray stringer quartz veins 40° to 50° C.A. Very little pyrite</p> <p>Mottled Volcanics Dark green and pink mottled volcanics with K-spar veins 30° to 40° C.A. Pyrite as disseminations with minor chalcopyrite and pyrrhotite</p> <p>Coarse Flow Breccia Medium green with carbonate veins 30° to 50° C.A.</p> <p>(a) 101.3 1" quartz carbonate vein with peripheral sulfides, 45° C.A.</p>	GL-3.12 3.13 3.14 3.15	189.5-190 240.7-240.85 272.9-273.8 316.9-317.5	35 15 250 68			
187.2	193.0							
193.0	378.5							

CONTINUATION OF DRILL HOLE LOG

HOLE GL-3 PAGE 5

FOOTAGE		DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES		
FROM	TO				Au-Prob	%	%
		(a) 213.7 1" quartz carbonate 45° C.A.					
		240.7 to 240.85 quartz carbonate veins with fine sulfides as stringers parallel to vein margin. 45° C.A.					
		272.9-273.3 carbonate veins 50° C.A. with peripheral K-spar alteration and pyrite					
		284.9 to 285.0 quartz carbonate vein 30° C.A.					
		292.0 to 295.0 coarse breccia with subangular fragments in fine chloritic matrix					
		316.9 to 317.5 series of quartz carbonate veins 45° C.A. with disseminated and patchy pyrite. K-spar wall-rock alteration					
		315 to 340 black chloritic argillaceous material occurs in matrix to breccia and fills some fractures					
		348 to 363 mottled due to K-spar and carbonate alteration. Though few veins and little pyrite					
		355 to 363 large subrounded fragment - 10 cm. and above in fine pinkish gray matrix					

HOLE GL-3 PAGE 6 CONTINUATION OF DRILL HOLE LOG

FOOTAGE		DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES		
FROM	TO				Au-ppb	Cu-ppm	g
378.5	385.0	5% to 10% carbonate in matrix. Minor disseminated pyrite Carbonated Breccia Medium grained breccia, fragments averaging 1/4". Up to 40% carbonate minerals mainly in matrix. Fragments are light green to gray and carbonated	GL-3.16 3.17 3.18 3.19 3.20 3.21 3.22	388.2-390.4 402.8-405.7 407.8-411.5 425.0-425.8 445.0-446.0 447.5-447.9 460.0-461.0	130 14 28 45 20 32 65	107 130 110 95	
385.0	468.0	Flow Breccia Dark green to light pinkish green medium to coarse breccia with massive sections 387.0 to 393.0 disseminated and patchy pyrite, pyrrhotite and chalcopyrite. (Up to 10%) 402.8 to 405.7 disseminated and patchy pyrite, pyrrhotite and chalcopyrite. (Up to 10%) 407.8 to 411.5 disseminated and patchy pyrite, pyrrhotite and chalcopyrite. (Up to 10%) 424 to 430 black chloritic argillaceous material in matrix and fracture fill (g) 425 4" wide carbonate vein at 30 C.A. with peripheral pyrite					

HOLE GL-3 PAGE 7 CONTINUATION OF DRILL HOLE LOG

FOOTAGE		DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES			
FROM	TO				%	%	%	Oz/t
		442 to 468.0 fine to medium grained breccia with pinkish green colour						
		445.5 to 446.3 disseminated and stringer pyrite and chalcopyrite (25%)						
		447.5 to 447.9 siliceous with up to 5% pyrite						
468.0	500.0	460 to 461 coarse breccia-siliceous, up to 5% pyrite						
		Flow Breccia Coarse light gray to greenish gray breccia with dark chloritic fractures and matrix						
	500	End of Hole						

DRILL HOLE LOG

HOLE GL-4 PAGE 1

PROPERTY Goose Lake
 DISTRICT Maisonville Twp
 LOCATION top of hill NE of
claim I543946
 OBJECTIVE trace laterally
mineralized zone found in GL-1
 COMMENCED Aug. 4, 1980
 COMPLETED Aug. 7, 1980
 LAT 12+20N

DEP 4+20E
 ELEV _____
 BEARING 170
 DIP 45
 LENGTH 450
 ETCH. AT 45
 TRUE DIP 37°

HOR. COMPONENT 335+00'
 VER. COMPONENT 300+00'
 TOTAL RECOVERY 100%
 OTHER SURVEYS _____
 DRILLED BY _____

LOGGED BY R. Wells

R. Wells

FOOTAGE		DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES		
FRON	TO				AU-ppb	%	oz/t
0	21	Casing	GL-4.1	28.3-29.2	22		
21	43.4	Mottled Volcanics Medium to dark green to gray, massive to brecciated unit with quartz carbonate veins and associated K-spar alteration	4.2 4.3 4.4	32.5-33.8 53.0-54.8 70.0-70.8	6 25 12		
43.4	68.8	28.6 to 28.9 quartz carbonate vein with peripheral pyrite and wallrock, K-spar alteration. 45° C.A. 32.7 to 33.8 quartz carbonate vein 1/4" wide subparallel to C.A. with associated pyrite 40 to 40.3 massive and greenish gray with fine disseminated pyrite Feldspar Porphyry Gray to pinkish gray, hard, medium grained with pinkish to white euhedral feldspar phenocrysts to 4 mm. Up to 5% disseminated pyrite. Quartz veining 40° to 60° C.A. with fine peripheral pyrite In angle (43.4) 55° C.A. Out angle = brecciated no angle obtained					

HOLE GL-4 PAGE 2 CONTINUATION OF DRILL HOLE LOG

FOOTAGE		DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES		
FROM	TO				Au-ppb	%	Oz/t
68.4	90.6	53.3 to 54.5 shear 35° C.A. with carbonate and K-spar alteration, minor pyrite 65.0 to 68.4 gray finer groundmass with few phenocrysts Mottled Volcanics Light to dark green to pinkish gray massive to brecciated unit. Carbonate veins with peripheral pyrite 30° to 75° C.A. Sinuous carbonate veins at low angles to subparallel to C.A. with pyrite and wallrock K-spar alteration, minor chalcopyrite (a) 70.5 $\frac{1}{2}$ " carbonate vein with much pyrite. 35° C.A. (a) 72.4 $\frac{1}{4}$ " carbonate vein with pyrite. 35° C.A. (a) 87.0 $\frac{1}{4}$ " carbonate vein with pyrite. 35° C.A.	GL-4.5 4.6 4.7 4.8 4.9 4.10	72.1-72.7 86.9-87.3 103.6-106.0 145.0-145.4 146.0-148.6 150.0-151.1	40 12 25 6 12 10		
90.6	117.7	Massive Mafic Volcanics Fine to medium grained, gray to brownish gray. Locally epidote rich shears some disseminated pyrite (a) 90.6 strongly brecciated contact with carbonate (a) 98.7 epidote rich shear zone trending 25° C.A.					

HOLE GL-4 PAGE 4 CONTINUATION OF DRILL HOLE LOG

FOOTAGE		DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES			
FROM	TO				AU-ppb	%	%	oz/t
		277 to 279.5 light gray, carbonated						
		280 to 301 light gray, carbonated with carbonate veins 25 to 30 C.A. up to 1/4" wide						
		(a) 347 strongly brecciated out contact						
347.0	356.0	Coarse Breccia Gray to green gray with diabase veins and much pyrite (10%) as stringers, blebs and disseminations carbonated and brecciated wallrocks close to the contact with diabase						
356.0	450.0	Cherty Sedimentary Rocks Dark gray to black, fine grained, medium hard, brecciated in part with quartz and/or carbonate fracture fill. Quartz and/or carbonate veining and stringers common at varying angles to C.A. Banding is commonly at 45° C.A.						
		357.6 to 358.3 fine breccia with chert and volcanic fragments. Minor bleby pyrite						
		377.0 to 380.0 carbonated, light gray sediments with darker bands 40 C.A. Disseminated pyrite. Fracturing with offsets 55° C.A.						

HOLE GL-4 PAGE 5 CONTINUATION OF DRILL HOLE LOG

FOOTAGE		DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES			
FROM	TO				%	%	%	Oz/t
		395.9 to 400.0 carbonated, light gray sediments with darker bands 40 C.A. Disseminated pyrite carbonate front at 85° C.A.						
		(a) 412.0 same as above, fractures 85° C.A. banding 20° to 30° C.A.						
		425 to 441.7 ditto banding 20° to 25° C.A. fractures 45° to 70° C.A.						
450		End of Hole						

DRILL HOLE LOG

HOLE GL-2 PAGE 1

PROPERTY Goose Lake
 DISTRICT Maisonville Township
 LOCATION swamp south end of
claim 1543947
 OBJECTIVE to test conductor 200'
(Az 132°)
 COMMENCED July 17, 1980
 COMPLETED July 29, 1980
 LAT 5+00S

DEP 12+00N
 ELEV _____
 BEARING 132° Az
 DIP 60
 LENGTH 400'
 ETCH. AT 60
 TRUE DIP 55°

HOR. COMPONENT 220.00'
 VER. COMPONENT 335.00'
 TOTAL RECOVERY 99%
 OTHER SURVEYS _____
 DRILLED BY _____

LOGGED BY R. Wells

[Signature]

FOOTAGE FROM TO	DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES		
				Au-ppb	%	oz/t
0 112'	Casing - Bouldery Overburden	GL-2.1	115-118	15		
112 127	Cherty Sedimentary Rocks Dark gray to black, fine grained, medium hard, brecciated in part with quartz and/or carbonate fracture fill. Quartz and/ or carbonate veining and stringer common at varying angles to C.A. 112 to 115 prominent banding (bedding) 1/4" scale 50° to 60° C.A. 115 to 118 tuff light gray, fairly soft, medium to fine grained ashy tuff. Blocky recovery, contacts not observed	2.2 2.3	136.8-138.0 142-143.5	18 6		
127 151	Feldspar Porphyry Massive and hard, light to dark gray, medium grained porphyry with white to pink- ish euhedral feldspar phenocrysts to 4 mm. chloritic fractures at varying angles to C.A. Quartz veining at 40° to 50° C.A. with fine peripheral pyrite					

CONTINUATION OF DRILL HOLE LOG

HOLE GL-2 PAGE 2

FOOTAGE		DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES			
FROM	TO				pph	%	%	oz/t
151	400	<p>Cherty Sedimentary Rocks Similar to that early in hole (112-127) with light coloured altered (silicification and/or carbonate alteration)</p> <p>151 to 159 black with strongly graphitic partings 20" to 40" to C.A.</p> <p>159 to 163 extremely siliceous unit light gray in colour. Some breccia at 159 with carbonate filling. Stringer and disseminated pyrite and pyrrhotite up to 5%</p> <p>163 to 191 black to gray, cherty and banded with graphitic partings. Carbonate veining 30" to C.A. with chlorite and minor K-spar alteration. Banding at 30" to C.A., 1/4" scale</p> <p>191 to 210.5 massive gray siliceous unit with 5% disseminated pyrite</p> <p>210.5 to 212.2 pink stained carbonate veining with fine specks of galena</p> <p>213 to 213.8 brecciated chert</p>	GL-2.4 2.5 2.6 2.7 2.8 2.9 2.10 2.11 2.12 2.13 2.14 2.15 2.16	160.5-163.5 179.9-180.0 190-191.2 211-212.2 231.9-233.9 248.1-254.1 252.0-253.0 281-284 284-287 323-325 334-334.5 348.6-349.4 386.0-384.4	12 5 10 6 55 25 5 5 2 5 12 2 8			

HOLE GL-2 PAGE 3 CONTINUATION OF DRILL HOLE LOG

FOOTAGE		DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES			
FROM	TO				Au-ppb	%	%	oz/t
		(a) 231.8 K-spar, chlorite-quartz vein. 60° to C.A. with 10% pyrite						
		(a) 246 carbonated breccia with graphite						
		(a) 248.1 lenticular pyrite zones in black chert up to ½" wide. Banding 35° to C.A.						
		248.1 to 250 graphitic shears 10° to 20° to C.A.						
		251.0 to 252.3 brecciated chert with carbonate						
		266.8 to 267.1 carbonated breccia zone with pyrite						
		280.7 to 287.0 light gray gillified zone with banding 45° to 60° to C.A. Some carbonate alteration						
		289.0 to 289.5 quartz carbonate vein with marginal graphite						
		298.0 to 299.0 carbonated breccia zone						
		323.0 to 326.5 light coloured carbonated zone. Banding 30° to C.A. Up to 10% pyrite						

HOLE GL-2 PAGE 4 CONTINUATION OF DRILL HOLE LOG

FOOTAGE		DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES			
FROM	TO				%	%	%	oz/t
		(a) 329.5 thin carbonate vein 35° to C.A. 10% pyrite						
		331.9 to 334.5 carbonated with 5% sulfides						
		348.6 to 349.4 carbonated with pyrite						
		360.0 to 364.0 carbonated with pyrite and some K-spar alteration						
		376.0 to 378.0 light coloured zone with disseminated pyrite						
		385 to 385.6 silicified zone						
		386 to 386.4 silicified zone with carbonate						
	400'	End of Hole						