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Louise Lake

93L-12/13 August 1/91

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## APPENDIX - RESULTS OF DIAMOND DRILLING

1970 Canadian Superior Drilling Program

Diamond drilling by Canadian Superior consisted of 17 holes totalling 2021 metres. 16 holes were drilled on the main zone west of Louise Lake; hole 'A' (#17) was drilled for assessment purposes northeast of the lake. Four holes were inclined at  $-45^{\circ}$ , the remainder were vertical. Drill hole locations are shown on Figures 6 and 7 as CS-1 to -16.

Canadian Superior drill core samples were analyzed essentially for copper and molybdenum. Partial re-sampling of holes 3, 4, 5 and 10 was undertaken in 1986 by previous property owners L.B. Warren and E.A. Shaede - samples were analyzed for 30 elements by ICP; gold values were determined by fire assay.

Corona sampling in 1987 involved the collection of virtually entire sections of previously split core; continuous sample intervals ranged from 3 to 7 metres. Two or three representative pieces of core per sample interval were retained and stored in Smithers. Samples collected were analyzed by ICP methods; gold was determined by atomic absorption.

Some gaps in the Corona sampling are evident in holes 3 and 5. These probably reflect previous sampling by Warren and Shaede, results of which have been substituted where appropriate.

The following summary includes only those sections of drill core containing more than 2000 ppm copper. Note that values listed for copper and gold over specific hole intervals are arithmetic averages and not weighted averages.

<u>Hole CS-1</u>	$-45^{\circ}$ @ $180^{\circ}$	153.0 metres TD
12.5 - 53.9m	(41.4m)	(9 samples; 3.7-6.3m sample intervals)
	3010 ppm Cu	(0.30%)
	162 ppb Au	(0.005 oz/ton)
<u>Hole CS-2</u>	$-90^{\circ}$	120.7 metres TD
19.4 - 55.0m	(35.6m)	(8 samples; 3.5-5.5m sample intervals)
	2965 ppm Cu	(0.30%)
	149 ppb Au	(0.004 oz/ton)

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<u>Hole CS-3</u>	-45° @ 000°	150.3 metres TD
49.1 - 56.2m (7.1m)	(2 samples)	
3614 ppm Cu	(0.36%)	
315 ppb Au	(0.009 oz/ton)	
56.2 - 70.7m (14.5m)	(4 samples; 3-4.6m sample intervals)	
	(Warren and Shaede)	
4606 ppm Cu	(0.46%)	
0.015 oz/ton Au	(fire assay)	
70.7 - 85.0m (14.3m)	(3 samples; 3.3-6.1m sample intervals)	
2998 ppm Cu	(0.30%)	
313 ppb Au	(0.009 oz/ton)	
85.0 - 99.4m (14.4m)	(4 samples - 3.0-4.3m sample intervals)	
	(Warren and Shaede)	
4143 ppm Cu	(0.41%)	
0.014 oz/ton Au	(fire assay)	
99.4 - 113.7m (14.7m)	(3 samples; 4.0-5.7m sample intervals)	
2401 ppm Cu	(0.24%)	
100 ppb Au	(0.003 oz/ton)	
113.7-128.0m (14.3m)	(4 samples; 3.0-4.6m sample intervals)	
	(Warren and Shaede)	
3607 ppm Cu	(0.36%)	
0.02 oz/ton Au	(fire assay)	
128.0-139.6m (11.6m)	(2 samples; 7.3 and 4.3m)	
3404 ppm Cu	(0.34%)	
485 ppb Au	(0.014 oz/ton)	
<u>Hole CS-4</u>	-45° @ 180°	105.8 metres TD
18.9 - 37.8m (18.9m)	(4 samples; 4.2-4.9m sample intervals)	
2748 ppm Cu	(0.27%)	
268 ppb Au	(0.008 oz/ton)	
<u>Hole CS-5</u>	-90°	121.3 metres TD
20.4 - 41.9m (21.9m)	(4 samples; 4.3-7.0m sample intervals)	
2680 ppm Cu	(0.27%)	
384 ppb Au	(0.011 oz/ton)	
41.9 - 55.5m (13.6m)	(5 samples; 1.5-4.0m sample intervals)	
	(Warren and Shaede)	
11750 ppm Cu	(1.18%)	
0.034 oz/ton Au	(fire assay)	
- includes 4.26m of 21177 ppm Cu	(2.12%)	
	0.047 oz/ton Au	
55.5 - 79.6m (24.1m)	(5 samples; 4.0-5.1m sample intervals)	
2532 ppm Cu	(0.25%)	
277 ppb Au	(0.008 oz/ton)	

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Hole CS-6 -90° 107.3metres TD  
 9.8 - 36.5m (26.7m) (7 samples; 4.2-5.8m sample intervals)  
 2929 ppm Cu (0.29%)  
 223 ppb Au (0.006 oz/ton)  
 57.3 - 75.6m (18.3m) (4 samples; 4.5m sample intervals)  
 2595 ppm Cu (0.26%)  
 201 ppb Au (0.006 oz/ton)

Hole CS-7 -90° 61.8 metres TD  
 No significant Cu or Au values

Hole CS-8 -90° 107.0 metres TD  
 No significant Cu values; 64 - 240 ppb Au

Hole CS-9 -90° 93.9 metres TD  
 No significant Cu values; 88 - 230 ppb Au

Hole CS-10 -90° 92.7 metres TD  
 No significant Cu or Au values

Hole CS-11 -90° 106.7 metres TD  
 No significant Cu or Au values

Hole CS-12 -90° 104.9 metres TD  
 No significant Cu or Au values

Hole CS-13 -90° 106.7 metres TD  
 No significant Cu or Au values

Hole CS-14 -90° 107.3 metres TD  
 No significant Cu or Au values

Hole CS-15 -90° 106.7 metres TD  
 No significant Cu or Au values

Hole CS-16 -90° 106.7 metres TD  
 No significant Cu or Au values

Hole 'A' (-17) -45° @ 180° 199.0 metres TD  
 Northeast of Louise Lake

24 - 25m - 62 ppm Cu; 616 ppm Pb; 1159 ppm Zn; 187 ppm As  
 132-136m - 2340 ppm Cu; 817 ppm As; 148 ppm Sb; 0.6 ppm Ag

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### 1989 Corona Drilling Program

Corona drilling consisted of five inclined holes totalling 916 metres. These are shown as holes C-18 to -22 on Figures 6 and 7.

All holes were drilled at  $-60^\circ$  and azimuths of  $189^\circ$ . All core was sampled and sample intervals ranged from 0.6 to 4.7 metres with an overall average of 3 metres. Samples were analyzed for 30 elements by ICP; gold was determined by atomic absorption.

The more significant intersections are listed below and include only those hole sections containing more than 2000 ppm (0.20%) copper.

<u>Hole C-18</u>	$-60^\circ @ 189^\circ$	121.0 metres TD		
3.7 - 121.0 (117.3m)			0.25% Cu	0.008 oz/ton Au
including 94.6-121.0 (26.4m)			0.41% Cu	0.012 oz/ton Au
<u>Hole C-19</u>	$-60^\circ @ 189^\circ$	185.0 metres TD		
3.7 - 182.0 (178.3m)			0.24% Cu	0.008 oz/ton Au
including 121.1-170.8 (49.7m)			0.34% Cu	0.011 oz/ton Au
<u>Hole C-20</u>	$-60^\circ @ 189^\circ$	121.0 metres TD		
33.2 - 55.9 (22.7m)			0.26% Cu	0.010 oz/ton Au
<u>Hole C-21</u>	$-60^\circ @ 189^\circ$	185.0 metres TD		
95.4 - 109.5 (14.1m)			0.32% Cu	0.012 oz/ton Au
<u>Hole C-22</u>	$-60^\circ @ 189^\circ$	306.9 metres TD		
9.1 - 306.9 (297.8m)			0.20% Cu	0.007 oz/ton Au
including 86.0-110.6 (24.6m)			0.29% Cu	0.011 oz/ton Au
117.7-183.0 (65.3m)			0.29% Cu	0.011 oz/ton Au

Note: Cu and Au values converted from ppm and ppb respectively