

# 467

82K

82K/11W

680222

THE DATES OF THE PARTIES TO AND THE NATURE OF THE CONTRACTS TO WHICH THIS REPORT RELATES ARE LISTED IN EVERY MATERIAL CONTRACT EXHIBIT TO THIS REPORT OR ANY SUBSIDIARY WITHIN THE PRECEDING TWO YEARS WHICH IS STILL IN EFFECT AND NOT PREVIOUSLY DISCLOSED HEREIN.

1. SUMMARY REPORT ON THE SILVER CUP PROPERTY

2. PROPERTY

3. SUMMARY OF RESULTS

4. SUMMARY OF THE PROPERTY

5. SUMMARY OF THE PROPERTY

6. SUMMARY OF THE PROPERTY

7. SUMMARY OF THE PROPERTY

8. SUMMARY OF THE PROPERTY

9. SUMMARY OF THE PROPERTY

10. SUMMARY OF THE PROPERTY

11. SUMMARY OF THE PROPERTY

12. SUMMARY OF THE PROPERTY

13. SUMMARY OF THE PROPERTY

14. SUMMARY OF THE PROPERTY

15. SUMMARY OF THE PROPERTY

16. SUMMARY OF THE PROPERTY

17. SUMMARY OF THE PROPERTY

18. SUMMARY OF THE PROPERTY

19. SUMMARY OF THE PROPERTY

20. SUMMARY OF THE PROPERTY

21. SUMMARY OF THE PROPERTY

22. SUMMARY OF THE PROPERTY

23. SUMMARY OF THE PROPERTY

24. SUMMARY OF THE PROPERTY

25. SUMMARY OF THE PROPERTY

26. SUMMARY OF THE PROPERTY

27. SUMMARY OF THE PROPERTY

28. SUMMARY OF THE PROPERTY

29. SUMMARY OF THE PROPERTY

30. SUMMARY OF THE PROPERTY

31. SUMMARY OF THE PROPERTY

32. SUMMARY OF THE PROPERTY

33. SUMMARY OF THE PROPERTY

34. SUMMARY OF THE PROPERTY

35. SUMMARY OF THE PROPERTY

36. SUMMARY OF THE PROPERTY

37. SUMMARY OF THE PROPERTY

38. SUMMARY OF THE PROPERTY

39. SUMMARY OF THE PROPERTY

40. SUMMARY OF THE PROPERTY

41. SUMMARY OF THE PROPERTY

42. SUMMARY OF THE PROPERTY

43. SUMMARY OF THE PROPERTY

44. SUMMARY OF THE PROPERTY

45. SUMMARY OF THE PROPERTY

46. SUMMARY OF THE PROPERTY

47. SUMMARY OF THE PROPERTY

48. SUMMARY OF THE PROPERTY

49. SUMMARY OF THE PROPERTY

50. SUMMARY OF THE PROPERTY

51. SUMMARY OF THE PROPERTY

52. SUMMARY OF THE PROPERTY

53. SUMMARY OF THE PROPERTY

54. SUMMARY OF THE PROPERTY

55. SUMMARY OF THE PROPERTY

56. SUMMARY OF THE PROPERTY

57. SUMMARY OF THE PROPERTY

58. SUMMARY OF THE PROPERTY

59. SUMMARY OF THE PROPERTY

60. SUMMARY OF THE PROPERTY

61. SUMMARY OF THE PROPERTY

62. SUMMARY OF THE PROPERTY

63. SUMMARY OF THE PROPERTY

64. SUMMARY OF THE PROPERTY

65. SUMMARY OF THE PROPERTY

66. SUMMARY OF THE PROPERTY

67. SUMMARY OF THE PROPERTY

68. SUMMARY OF THE PROPERTY

69. SUMMARY OF THE PROPERTY

70. SUMMARY OF THE PROPERTY

71. SUMMARY OF THE PROPERTY

72. SUMMARY OF THE PROPERTY

73. SUMMARY OF THE PROPERTY

74. SUMMARY OF THE PROPERTY

75. SUMMARY OF THE PROPERTY

76. SUMMARY OF THE PROPERTY

77. SUMMARY OF THE PROPERTY

78. SUMMARY OF THE PROPERTY

79. SUMMARY OF THE PROPERTY

80. SUMMARY OF THE PROPERTY

81. SUMMARY OF THE PROPERTY

82. SUMMARY OF THE PROPERTY

83. SUMMARY OF THE PROPERTY

84. SUMMARY OF THE PROPERTY

85. SUMMARY OF THE PROPERTY

86. SUMMARY OF THE PROPERTY

87. SUMMARY OF THE PROPERTY

88. SUMMARY OF THE PROPERTY

89. SUMMARY OF THE PROPERTY

90. SUMMARY OF THE PROPERTY

91. SUMMARY OF THE PROPERTY

92. SUMMARY OF THE PROPERTY

93. SUMMARY OF THE PROPERTY

94. SUMMARY OF THE PROPERTY

95. SUMMARY OF THE PROPERTY

96. SUMMARY OF THE PROPERTY

97. SUMMARY OF THE PROPERTY

98. SUMMARY OF THE PROPERTY

99. SUMMARY OF THE PROPERTY

100. SUMMARY OF THE PROPERTY

Livgard Consultants Ltd.  
 E. Livgard, B.Sc., P.Eng.,  
 Vancouver, B.C.  
 September, 13th, 1976.

INTRODUCTION

This report summarizes the work carried out on the Silver Cup property during the summer of 1976. The background information will not be given as it was well covered in the writers previous report on the property dated March 2nd, 1976.

The work carried out to date was designed to collect as much information as possible without going to major expenditures in rehabilitation or development. The program was very successful in that important information was gained which will allow future exploration and development at an accelerated rate. The recommendations of the previous report will be extensively changed, not so much in general procedure as in priorities, based on the findings herein described.

The writer is very appreciative to the President and Board of Directors of C.T. Exploranda Ltd., for allowing him the luxury of a detailed and careful approach to the work on the property.

## SUMMARY AND CONCLUSIONS

The Silver Cup Structure has been shown to be a very strong and continuous structure while subsidiary veins are far more numerous and complex than previously understood. The ore possibilities are therefore more numerous and better than previously thought. The Silver Cup Structure and associated veins is a complex unsolved structural relationship with numerous indications of ore. Work to date has not given a full understanding of ore location or ore control. The large majority of the property has not been explored although the old timers no doubt prospected it well and found ore bodies mainly at higher elevations and in the Creek bottoms where overburden cover was relatively thin. Long stretches of covered structure between these points remain to be explored. The north western 2/3 of the property has had little work and geological mapping and soil surveying should be carried out.

The southeastern 1/3 of the property is better known through mining in the past, and several ore grade occurrences and specific and favourable exploration targets have been pin pointed.

None of the mines were worked down to the bottom of the ore shoots. The ore near the portal of #7 level was mined from the adit level and up while the downward extension was not picked up. Beside the main Silver Cup vein there are 5 other veins in this area, all of which could be relatively easily explored from the #8 level adit.

There is no doubt that a significant amount of ore could be outlined by development from this level.

The Towser mine also has an undeveloped ore block below the adit level and it is proposed to drive a 1200 foot adit level 300 feet lower to reach its downward projection. This adit level will start on ore grade material in the Yuill vein and may outline an ore block here. It will open up a second favourable target at the junction of the Towser and Yuill veins and will continue following the Towser vein to below the Towser Mine.

Three ore blocks may be encountered in this work.

Extensive measuring and sampling has given what is thought to be quite accurate figures on tonnage and grade of the dumps. The best grade is found on #3, #4, #6, #7 sorting dump and the dump at the tailings ponds. These dumps have a total of 21,300 tons grading 11.44 oz. Ag, 1.62% Pb, 1.13% Zn, and .05 oz. Au per ton. The main #7 dump contains 26,000 tons grading 4.05oz. Ag, 0.86% Pb, 0.96% Zn, and .03 oz. Au per ton. The above dumps total 47,300 tons with an average grade of 7.37 oz. Ag, 1.20% Pb, 1.07% Zn, and .04 oz. Au per ton. In addition there are 6700 tons on three dumps off the claim ground and another 7000 tons of low grade on #7 dump. 25,700 tons of low-grade are found on various other dumps on the property.

The total amount of dump material from all mine workings on the property totals 86,700 tons.

The best grade material 47,300 tons with 7.37 oz. Ag, 1.20% Pb, 1.07% Zn, and .04 oz. Au per ton can probably be moved and treated at a considerable profit providing the capital cost of mill installation can, to a

large extent, be carried by additional ore from an underground mining operation.

The confirmation of tonnages and good grades on the mine dumps is an important step toward establishing a viable mining operation on the property.

The objective of the recommended program is to indicate good grade ore in addition to the dump tonnages, which will, following a program of underground development, lead the property to the point of production feasibility study.

The recommended drifting will undoubtedly encounter ore, the quality and quantity of such ore can not, however, be estimated at this time. The secondary objective of this drift is also important. It is designed with a view to becoming the main haulage drift for ore encountered on the downward projection of all the ore bodies mined in the past. It is much premature to speculate about such development, but it should nevertheless be kept in mind that the large majority of known ore shoots lie ahead of, and above this drift.



RECOMMENDATIONSStage 1.

1. Cat Work - Portal preparation and road maintenance.
2. Drifting: Starting on the Yuill vein near Cup Creek - following the vein to its junction with the Towser vein - following the Towser vein to the downward projection of the Towser ore-body.

The total drifting recommended amounts to 1200 feet.

3. Mapping and sampling of the drift.

Stage 2.

1. Continuation of the Grid system to the northwest to allow systematic geological mapping and soil surveying from Cup Creek to Lardeau Creek and on Black Eagle and Sunset claims.
2. Geological mapping and soil surveying following the above Grid System.
3. Rehabilitation of #4, #7 and #8 levels and #7 to #4 raise.
4. Diamond drilling mainly on #8 level.
5. Underground mapping and sampling of back fill and veins.
6. Cat work:
  - A. Roadwork - mainly ditching and culverts.
  - B. Trenching to check known veins, particularly The Silver Cup vein where it crosses the road between Cup Creek and #7 level.

7. Metallurgical Testing of the Dump

Material.

Stage 1.

- Including: Crushing Tests
- Jig Tests
- Flotation Tests

Stage 2. is not dependent on favourable results in Stage 1. but becomes more important if Stage 1 meets with limited success. With favourable results in Stage 1. as is considered probable, stage 2. should be expanded by further underground development.

Stage 2.

- 1. ...
- 2. ...
- 3. ...
- 4. ...

ESTIMATED COSTS OF RECOMMENDATIONS

Stage 1.

1.	Cat work - Road maintenance - 50hrs. @ \$60.-/hr.	3000.
	Portal preparation	2000.
2.	Drifting - 1200 feet @ \$90.-/ft (Contract	108000.
3.	Mapping, Sampling and Supervision	4000.
4.	Administration	3000.
	Contingencies	10000.
		<u>\$ 130000.</u>

Stage 2.

1.	Grid System	
	20 line miles @ \$100.-/mile	2000.
2.	Geological mapping	
	20 days @ \$100.-/day	2000.
	Soil Survey	
	15 days @ \$100./day	1500.
	Analysis	1500.
3.	Rehabilitation of #4, #7, #8 and	
	#7 to #4 level raise	
	3 men - 3 months	15000.
	Tools and Supplies	7000.
4.	Diamond Drilling	
	1000 feet @ \$15.-/ft.	15000.



5.	Underground Mapping and sampling plus supervision.		
	60 days @ \$100.-/day		6000.
6.	Cat work - D8		
	Road work - 30hrs. @ \$60.-/hr.		1800.
	Trenching - 20hrs. @ \$60.-/hr.		1200.
7.	metallurgical Testing - preliminary		5000.
	Trailer Camp at the Towser Mine		12000.
	Catering and Supplies		
	700 Man Days @ \$20.-/day		14000.
	Vehicles: Purchase 4 x 4 Pick-Up - Used		6000.
	Repair " "		1000.
	Administration and Travel		12000.
	Contingencies 15%		15000.
			<u>\$ 118,000.</u>

North-south Vain System

This last 1500 feet of the structure has not been reported.

Several potentially anomalous and highly interesting features may occur within these 1500 feet of strike distance and it is considered

VEIN SYSTEM

Geological mapping this past summer was concentrated on the vein systems rather than the Rock Types.

The Silver Cup structure consists of Graphitic Schist, and Quartz lenses and veins, about 50 feet wide, in which there has been an undetermined amount of movement. The movement has usually followed the footwall or the hangingwall of the zone and this is where ore bodies are located at points where the zone shows slight flexures, where there are junctions with other veins or junctions with crossing zones of barren quartz veins.

The Silver Cup structure was traced from the southern border of the claims at an elevation of 7000 feet to Sharon Creek a horizontal distance of about 8000 feet. The zone was further tentatively identified into Lardeau Creek and up the other valley side to the end of the Sunset Crown Grant and the northern boundary of the claim group, a further distance of about 15000 feet. Within this distance a part of the structure on both sides of Lardeau Creek is covered by claims not part of the company's claim group.

North-western Vein System:

This last 15000 feet of the structure has not been mapped .

Several potentially anomalous and highly interesting features may occur within these 15000 feet of strike distance and it is considered

very important that the surface work of mapping and sampling be continued over this portion of the claims.

The features of particular interest are first, that as the rocks change strike from  $N40^{\circ}W$  to  $N60^{\circ}W$  the Silver Cup structure cuts at increasing angles across the rocks and will move from the siliceous argillite into massive grey quartzite ( Rock Type 6 to 7 ) and will traverse about 1000 feet of quartzite, if the strike remains the same. All ore control features on the property are those which increase the potential for open space where minerals may collect and where the structure crosses quartzite such potential will be high, and it is therefore a very favourable exploration target.

In extending the structure further it will move from quartzite into siliceous argillite ( Rock Type 7 to 8 ). This contact zone is mineralized in places and the intersection point is another favourable exploration target.

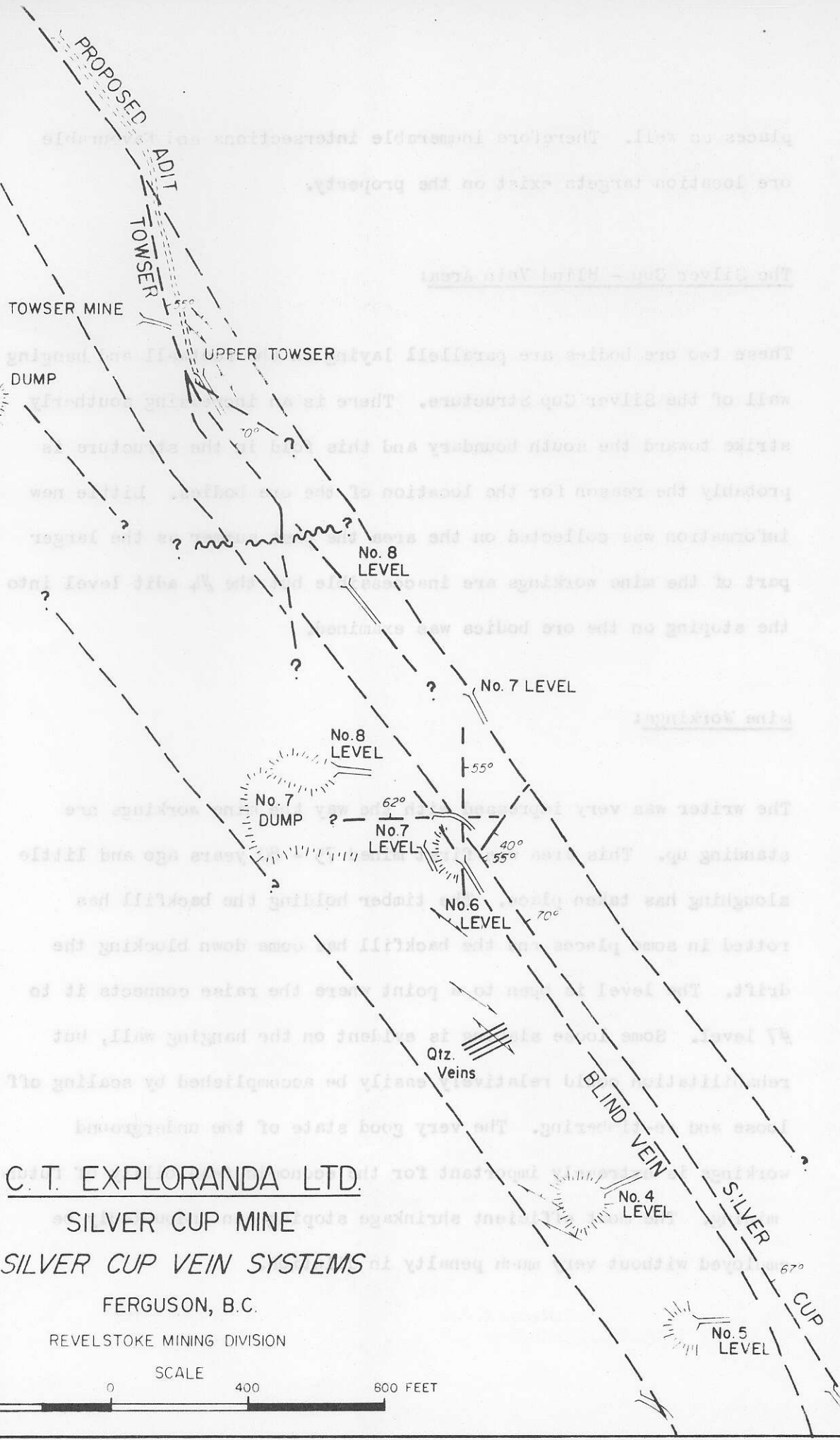
If the strike remains the same the Silver Cup Structure will intersect the Silver Cup fault on the northside of Lardeau Creek, and this will then constitute a third favourable target. It is not known, however, whether the Silver Cup Structure changes to a more westerly strike (  $N60^{\circ}W$  ) and runs parallel to the Silver Cup fault or whether the two join. The Silver Cup Fault has been mapped on B.C. Dept. of Mines Geology maps while the Silver Cup Structure has not. The Fault is well mineralized and is shown extending North-westerly across the Black Eagle and Sunset Crown Grants, and forming

part of the Ajax and Nettie L mines vein systems.

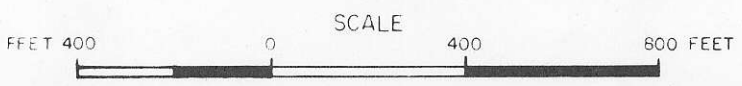
The Silver Cup Structure lies at or near the crest of the Silver Cup anticline on the southeastern part of the property. It gradually cuts across the rocks and leaves the centre of the anticline as the anticline gradually changes strike to N60°W. It is possible that another zone or zones may continue following the anticline on a more westerly strike. The writer obtained the highest values in a spot soil sample near such possible structure at a point about 1000 feet south of the confluence of Lardeau and Finkle Creek. The soil sample gave 0.8 PPM. Ag, 259 PPM. Pb and 1500 PPM. Zn. The surface program of mapping, sampling and soil sampling should extend over the area.

#### Southeastern Vein System:

Work the past summer has established the Silver Cup Structure as an exceptionally continuous one. The structure has been traced from the southern border of the claims to Sharon Creek, a distance of 8000 feet. The Structure has been exposed intermittently by old mine workings and by trenches and road cuts. These exposures are so similar and line up so well that there is little doubt about the continuity, although unexposed portions may contain minor breaks possibly caused by intersecting structures. The details of the vein system are, however, far more complex than expected and far more interesting than indicated in old reports. Its' complexity holds promise of more ore possibilities than hoped for. The complexity is well shown on the accompanying diagram. The complex vein system is found in two areas, on the Sunshine and the Towser, where good exposures allow detail mapping. There is little doubt that this complexity will exist other



C. T. EXPLORANDA LTD.  
SILVER CUP MINE  
SILVER CUP VEIN SYSTEMS  
FERGUSON, B.C.  
REVELSTOKE MINING DIVISION





places as well. Therefore innumerable intersections and favourable ore location targets exist on the property.

The Silver Cup - Blind Vein Area:

These two ore bodies are parallell laying on the footwall and hanging wall of the Silver Cup Structure. There is an increasing southerly strike toward the south boundary and this fold in the structure is probably the reason for the location of the ore bodies. Little new information was collected on the area the past summer as the larger part of the mine workings are inaccessible but the #4 adit level into the stoping on the ore bodies was examined.

Mine Workings:

The writer was very impressed with the way the mine workings are standing up. This area was first mined 75 - 80 years ago and little sloughing has taken place. The timber holding the backfill has rotted in some places and the backfill has come down blocking the drift. The level is open to a point where the raise connects it to #7 level. Some loose slabing is evident on the hanging wall, but rehabilitation could relatively easily be accomplished by scaling off loose and re-timbering. The very good state of the underground workings is extremely important for the economic feasibility of future mining. The most efficient shrinkage stoping can undoubtedly be employed without very much penalty in dilution.



The Sunshine Area:

Four intersecting veins are found not far from the portal in #7 Sunshine Cross-cut, in addition the Yuill vein lies parallel 300 feet east and another unknown vein has been drifted on 50' to the west as shown by the dump numbered #6. Some good grade material has come out of this adit (300 tons of 13.29 oz. Ag, 2.27% Pb, and .86% Zn ), but the portal is sloughed and it cannot be examined.

The Silver Cup Vein has been stoped for a length of about 110 feet from near its junction with one of the cross-veins. Pillars have been left about 30 - 40 feet up the dip of the vein but more mining has been carried out an unknown distance above the pillars. The stope does not appear to have broken through to surface. The cross-vein has also been stoped a short distance up - dip.

The Silver Cup vein in the north end of the Sunshine stope is well mineralized and assays:

9.12 oz. Ag, 1.87% Pb, 5.22% Zn, and .064 oz. Au over 5'.

97.14 oz. Ag, 13.99% Pb, 7.92% Zn, and .104 oz. Au over 1 $\frac{1}{2}$ '

96.22 oz. Ag, 13.00% Pb 13.90% Zn, and .103 oz. Au over 1'

It appears that good grade material remains in this stope and no stoping has been done below the level. The #8 level 250 feet lower down has, according to the writers projection, missed the downward extension of the ore and bypassed it about 50 feet in the foot wall.

The #8 level should therefore have a high priority for rehabilitation as a considerable block of ore may easily be outlined by short Diamond Drill holes.

The potential ore amounts to:

$$\frac{250 \times 110 \times 6.0}{10} = 16,500 \text{ Tons}$$

The other 5 veins also are potentially ore bearing. One carries 50 oz. Ag material over narrow widths, 4 - 6", on surface and some stoping is reported to have taken place underground, another has been mined to a minor extent. The two parallel veins both have adit levels and well mineralized material shows on the dump but the portals are now sloughed. These 5 veins should be explored on the #8 level.

#### The Towser:

The Towser Mine lies on a cross-vein between the Silver Cup and the Yuill veins. It is a strong structure attaining a width of up to 15 feet. An ore body has been mined from the adit level to surface. The ore body extends below the level and judging by ore bodies in the Silver Cup Mine depth extension should be excellent.

The south end of the Towser vein appears to turn into a vein which lies parallel to the Silver Cup vein, this is the Upper Towser adit. Scanty outcrops indicate that the structure again turns to intersect the Silver Cup vein. There are no out-crops to give any information in this potentially favourable area. To the North the Towser vein should intersect the Yuill vein about 400 feet from the Towser Mine.

The Yuill

The Yuill vein was formerly, but is not now, exposed in Cup Creek.

It has been reported variously as 4 to 14 inches of massive galena and 2 to 4 feet of "concentrating" ore. This vein was exposed last summer near a switch back in the road 500 feet from the outcrops in the Creek. Two feet of well mineralized vein was exposed. The vein is heavily oxidized and the samples taken are undoubtedly lower grade than fresh material, nevertheless good assays were obtained.

1.	6.62	oz. Ag,	2.43,	Pb,	0.18,	Zn,	and	0.148	oz. Au
2.	31.71	" "	18.20	" "	0.67	" "	" "	0.168	" "
3.	30.62	" "	22.51	" "	0.32	" "	" "	0.242	" "
4.	76.85	" "	57.44	" "	1.16	" "	" "	0.236	" "
Average Grade over 2'.									

36.85	" "	25.15	" "	0.58	" "	" "	0.20	" "	" "
-------	-----	-------	-----	------	-----	-----	------	-----	-----

Disseminated mineralization lies on the hanging wall of the well mineralized vein. This was not well exposed and not sampled.

A diamond drill hole was drilled below this showing 2 or 3 years ago cutting the vein at a 60 foot depth. The core was sampled by the writer and assayed.

8"	of	7.66	oz. Ag,	0.15,	Pb,	0.34,	Zn	and	.02	oz. Au
16"	"	11.24	" "	9.99,	" "	14.52,	" "	.018	" "	
24"	"	8.90	" "	0.08,	" "	0.23,	" "	.012	" "	
Total	4'	of	9.47	" "	3.40,	" "	5.01,	" "	.015	" "

The Surface samples give a gross metal value of over \$250.-/per ton and the vein here is clearly of economic grade while the gross metal values in the diamond drill hole are about \$75.-/per ton and probably of economic grade.

The Yuill vein has a potential economic grade ore body which should be explored. Underground drifting will be recommended.

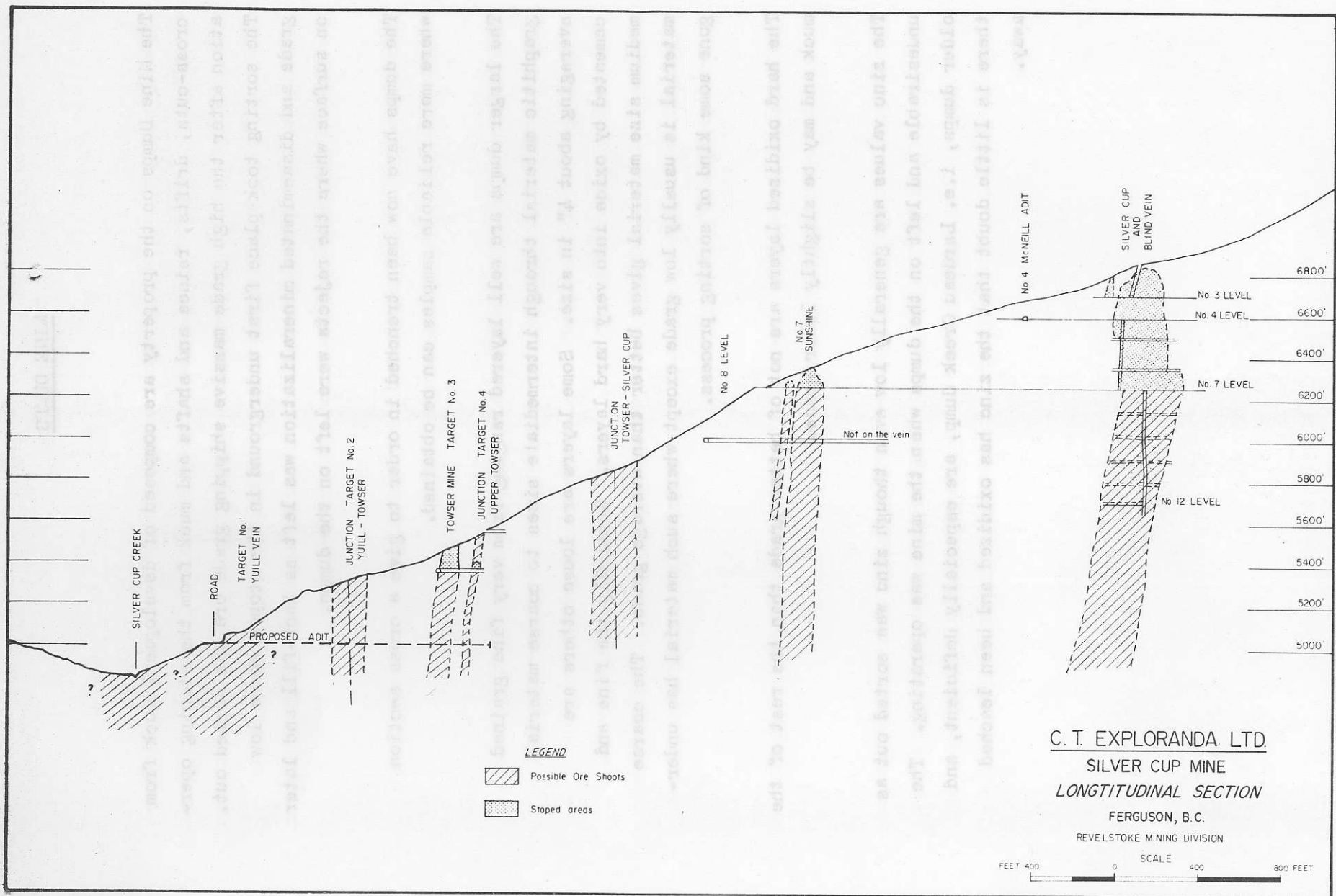
300' east of the Yuill vein the Silver Cup Vein outcrops near Cup Creek. The zone is 40 feet wide consisting of Graphite Schist and about 50% Quartz in lenses and stringers which contain about 5% Pyrite. No economic minerals are visible but some oxide occurs and the writer got a suprisingly good assay over good width,

5' of 11.34 oz. Ag, .047 Pb, 0.047 Zn and .104 oz. Au.

This is at, or very near, an economic grade and fresh material in this zone may very well be of economic grade.

Disseminated mineralization lies on the hanging wall of the vein mineralized vein. This was not well exposed and not sampled. A diamond drill hole was drilled below this showing 2 or 3 years ago cutting the vein at a 60 foot depth. The core was sampled by the writer and assayed.

8'	of 7.66 oz. Ag, 0.124 Pb, 0.342 Zn and 0.02 oz. Au
16'	" " " " 9.99 " " " "
24'	" " " " 0.98 " " " "
Total 4'	" " " " 3.40 " " " "



SILVER CUP CREEK  
 ROAD  
 TARGET No 1  
 YUILL VEIN  
 PROPOSED ADIT  
 JUNCTION TARGET No 2  
 YUILL - TOWSER  
 TOWSER MINE TARGET No 3  
 JUNCTION TARGET No 4  
 UPPER TOWSER  
 JUNCTION TOWSER - SILVER CUP  
 No 8 LEVEL  
 No 7 SUNSHINE  
 No 1 on the vein  
 No 4 McNEILL ADIT  
 SILVER CUP AND BLIND VEIN  
 No 3 LEVEL  
 No 4 LEVEL  
 No 7 LEVEL  
 No 12 LEVEL

6800'  
 6600'  
 6400'  
 6200'  
 6000'  
 5800'  
 5600'  
 5400'  
 5200'  
 5000'



MINE DUMPS

The Mine Dumps on the property are composed of development muck from cross-cuts, drifts, raises and shafts and muck from the stoping operation after the high grade massive shipping grade ore was sorted out. The sorting took place first underground in the stopes where low grade and disseminated mineralization was left as back-fill and later on surface where the rejects were left on the dumps.

The dumps have now been trenched in order to give a cross section where more reliable samples can be obtained.

The larger dumps are well layered ranging from very fine grained graphitic material through intermediate sizes to coarse material averaging about 4" in size. Some layers are loose others are cemented by oxide into very hard layers. Generally the fine and medium size material gives better than average grade. The coarse material is usually low grade except where such material has undergone some kind of sorting process.

The hard oxidized layers are not of better grade than the rest of the muck and may be slightly lower grade.

The zinc values are generally low even though zinc was sorted out as undesirable and left on the dumps when the mine was operating. The older dumps, i.e. Lardeau Creek dump, are especially deficient, and there is little doubt that the zinc has oxidized and been leached away.



#3 Dump

Representing 170x100x5x1/18

4700 Tons

Sample No.	oz. Ag	%Pb	%Zn	oz. Au
939	3.10	.37	2.37	.024
940	23.93	2.48	3.66	.082
941	0.94	3.60	1.10	.004
942	10.05	0.83	.78	.048
943	26.31	4.00	3.62	.072
<u>Average Grade</u>	<u>12.87</u>	<u>2.26</u>	<u>2.31</u>	<u>.05</u>

#4 Dump

Representing 125x100x30/2x1/18 = 10000 T

100x65x20/2x1/18 = 3600 T

13600 Tons

Sample No.	Thickness	oz. Ag	%Pb	%Zn	oz. Au
401	2'	1.74	.21	.21	.016
2	2'	.48	.07	.12	.010
3	3'	11.57	1.34	.15	.056
4	2'	Tr	.07	.25	.006
5	3'	Tr	.02	.20	.004
6	5'	33.11	6.08	.92	.012
7	5'	.19	.01	.25	.004
8	2'	2.86	.50	.90	.010
9	2'	19.95	1.38	.24	.026
10	2'	4.91	.22	.36	.008
11	3'	7.11	.41	.30	.024
12	3'	6.90	.88	.88	.020
13	2'	2.98	.75	.16	.022
14	4'	25.68	1.06	2.92	.368
<u>Average Grade</u>		<u>10.30</u>	<u>1.23</u>	<u>.67</u>	<u>.05</u>

Dump at Tailings Ponds (Trucked from #3 Dump)

Representing 106'x28'x12'x1/18

2000 Tons

Sample No.	oz. Ag	%Pb	%Zn	oz. Au
543	32.96	1.77	.60	.038
544	3.08	.59	.34	.010
545	10.80	4.63	.35	.018
546	6.62	.90	.34	.096

<u>Average Grade</u>	<u>13.37</u>	<u>1.97</u>	<u>.41</u>	<u>.04</u>
----------------------	--------------	-------------	------------	------------

Transfer Dump

Representing 98'x48'x16/2x1/18

2000 Tons

Sample No.	Thickness	oz. Ag	%Pb	%Zn	oz. Au
0295	6'	3.17	.66	.16	.037
96	5'	3.09	.51	.10	.024
97	4'	2.43	.77	.20	.024
98	4'	2.49	3.98	.56	.040
99	4'	2.95	.96	.22	.026
300	4'	Tr	1.88	.61	.014

<u>Average Grade</u>		<u>2.44</u>	<u>1.37</u>	<u>.29</u>	<u>.03</u>
----------------------	--	-------------	-------------	------------	------------

Mill Dump

Representing 45x12x55/2x1/18

800 Tons

Sample No.	Thickness	oz. Ag	%Pb	%Zn	oz. Au
0289	5'	3.73	3.15	1.41	.010
90	6'	1.77	.54	.41	.004
91	4'	1.31	.56	.93	.020
92	4'	3.20	.78	.74	.010

<u>Average Grade</u>		<u>2.49</u>	<u>1.28</u>	<u>.85</u>	<u>.01</u>
----------------------	--	-------------	-------------	------------	------------

Lardeau Creek Dump

Representing 43+25 x 40 x 82+12 x 1/18  
 2 2 3500 Tons  
 40 x 18 x 10 x 1/18 400 Tons

Sample No.	Thickness	oz. Ag	%Pb	%Zn	oz. Au
0276	4'	1.98	.55	.08	.018
77	4'	.16	.27	.23	.004
78	4'	.10	.06	.11	.010
79	4'	5.39	2.35	.16	.032
80	4'	1.74	.42	.06	.036
81	4'	6.81	1.44	.12	.028
82	4'	1.59	.41	.06	.010
83	4'	1.98	.42	.08	.016
84	4'	2.75	.60	.08	.042
<u>Average Grade</u>		<u>2.50</u>	<u>.72</u>	<u>.11</u>	<u>.02</u>

#6 Dump - East Side

Representing 110x20x3x1/18 300 Tons

Sample No.	oz. Ag	%Pb	%Zn	oz. Au	
944	3.85	1.61	.17	.018	
45	18.88	2.72	1.00	.108	
46	16.52	2.58	1.04	.071	
47	13.91	2.18	1.26	.058	
<u>Average Grade</u>		<u>13.29</u>	<u>2.27</u>	<u>.87</u>	<u>.06</u>

## #7 Dump

Samples from upper cut in the dump.

Representing 90x10x200x1/18

10000 Tons

Samples arranged by layers.

## A - 2500 Tons.

Sample No.	Thickness	oz.Ag	%Pb	%Zn	oz.Au
901	2'	1.22	.57	.25	.010
03	2'	1.28	.81	2.10	.004
06	2'	2.70	1.23	.32	.082
Average Grade		1.73	.87	.89	.030

## B - 2500 Tons

902	2'	2.45	1.02	.34	.004
03	2'	1.28	.81	2.10	.004
07	2'	3.45	1.18	.26	.048
Average Grade		2.39	1.00	.90	.020

## C - 2500 Tons

904		1.09	.22	.60	.004
08		2.58	1.95	.24	.010
Average Grade		1.84	1.09	.42	.010

## D - 2500 Tons

905		11.40	1.96	4.38	.108
09		2.07	0.74	.24	.038
Average Grade		6.74	1.35	2.31	.070

Average Gr. for Total		3.18	1.08	1.13	.030
-----------------------	--	------	------	------	------

#7 Dump

Samples from lower cut in the dump.

Representing 95x10x310x1/18

16000 Tons

Samples arranged by layers.

A - 3200 Tons Av. Thickness 2'

Sample No.	oz. Ag	%Pb	%Zn	oz. Au
917	1.22	.41	1.44	.032
37	16.86	.34	1.14	.090
38	1.41	.35	3.75	.014
Average Grade	6.50	.37	2.11	.05

B - 4000 Tons Av. Thickness 2½'

Sample No.	oz. Ag	%Pb	%Zn	oz. Au
926	3.08	1.02	.26	.026
27	1.11	.81	.54	.070
32	1.81	.78	.56	.038
Average Grade	2.00	.87	.45	.040

C - 4000 Tons Av. Thickness 2½'

Sample No.	oz. Ag	%Pb	%Zn	oz. Au
921	1.78	.52	.85	.064
22	2.54	.49	.76	.014
28	2.49	.42	.19	.024
29	3.24	.38	.34	.010
30	3.39	1.32	.23	.012
33	1.04	.18	.21	.010
34	3.01	.47	.73	.044
Average Grade	2.50	.54	.47	.03

D - 4800 Tons Av. Thickness 3'

Sample No.	oz. Ag	%Pb	%Zn	oz. Au
918	2.50	.64	.53	.024
19	5.68	2.08	.17	.13
23	15.25	.79	1.12	.024
24	8.27	2.62	.24	.042
25	10.71	.28	.34	.052
35	.94	.27	.10	.014
<u>Average Grade</u>	<u>7.23</u>	<u>1.11</u>	<u>.42</u>	<u>.05</u>
<u>Average Gr. for Total</u>	<u>4.59</u>	<u>.72</u>	<u>.86</u>	<u>.04</u>

Upper Cut - 7' Lower coarse layer (From initial 2000' cross-cut)

Representing 90 x 7 x 200 x 1/18

7000 Tons

Sample No.	oz. Ag	%Pb	%Zn	oz. Au
911	.83	.05	2.90	.010
12	1.29	.15	2.85	.016
13	.79	.22	.37	.004
14	2.68	.37	.60	.044
15	.91	.29	.48	.010
16	.08	.04	.32	.004
<u>Average Grade</u>	<u>1.10</u>	<u>.19</u>	<u>1.25</u>	<u>.02</u>

#7 Small Sorting Dump

Representing 55 x 20 x 2 x 1/18

100 Tons

Sample No.	oz. Ag	%Pb	%Zn	oz. Au
952	19.25	4.14	16.19	.270



#7 Large Sorting Dump

Representing 52 x 22 x 10 x 1/18

600 Tons

Sample No.	oz. Ag	%Pb	%Zn	oz. Au
953	32.75	3.83	4.20	.034
54	8.39	3.92	1.24	.134
55	24.27	4.70	13.43	.028
56	3.75	1.28	.50	.006

---

Average Grade    17.29       3.43       4.84       .05
Dump 400' East of #7 (Adit on parallel vein)

Representing 250 x 40 x 4 x 1/18

2200 Tons

Sample No.

951	.46	.10	.16	.018
-----	-----	-----	-----	------

Not well sampled - Low Grade

Toe of #7 Dump (Material scattered downhill)

Representing 300 x 200 x 3.5 x 1/18

11600 Tons

Not sampled - Low Grade

East side of #7 Dump (Coarse material scattered)

Representing 50 x 510 x 4 x 1/18

5600 Tons

Sample No.	oz. Ag	%Pb	%Zn	oz. Au
936	0.73	.30	.43	.014

Not well sampled - Low Grade

#8 Adit - Cross-cut Dump5000 Tons

Not sampled - Low Grade

#6 Dump - West side

Representing 110 x 40 x 5.5 x 1/18

1300 Tons

Not sampled - Low Grade

SUMMARY OF DUMP TONNAGESGroup 1.

	oz. Ag	% Pb	% Zn	oz. Au	
#3 Dump	12.87	2.26	2.31	.05	4700 Tons
#4 Dump	10.30	1.23	0.67	.05	13600 Tons
Dump at Tailings Ponds	13.37	1.97	0.41	.04	2000 Tons
#6 Dump	13.29	2.27	.87	.06	300 Tons
#7 Small Sorting Dump	19.25	4.14	16.19	.27	100 Tons
#7 Large Sorting Dump	17.29	3.43	4.84	.05	600 Tons
<u>Group 1 Total -</u>	<u>11.44</u>	<u>1.62</u>	<u>1.13</u>	<u>.05</u>	<u>21300 Tons</u>

Group 2.

#7 Dump- Upper	3.18	1.08	1.13	.03	10000 Tons
#7 Dump- Lower	4.59	.72	.86	.04	16000 Tons
<u>Group 2 Total -</u>	<u>4.05</u>	<u>.86</u>	<u>.96</u>	<u>.03</u>	<u>26000 Tons</u>

Group 1 & 2

<u>Total</u>	<u>7.37</u>	<u>1.20</u>	<u>1.07</u>	<u>.04</u>	<u>47300 Tons</u>
--------------	-------------	-------------	-------------	------------	-------------------

Group 3.

Transfer Dump	2.44	1.37	.29	.03	2000 Tons
Lardeau Cr. "	2.50	.72	.11	.02	3900 Tons
Mill Dump	2.49	1.28	.85	.01	800 Tons
<u>Total -</u>	<u>2.48</u>	<u>.98</u>	<u>.25</u>	<u>.02</u>	<u>6700 Tons</u>

Group 1, 2 & 3

<u>Total</u>	<u>6.52</u>	<u>1.17</u>	<u>.97</u>	<u>.04</u>	<u>54000 Tons</u>
--------------	-------------	-------------	------------	------------	-------------------

#7 Dump - Lower course layer

Group 4

	oz. Ag	% Pb	% Cu	oz. Au	
	1.10	.19	1.25	.02	7000 Tons
Total 1, 2, 3 & 4-	5.89	1.06	1.00	.04	61000 Tons

Group 5

Dump 400' East of #7	2200 Tons
Toe of #7 Dump	11600 Tons
East Side of #7	5600 Tons
#8 Dump	5000 Tons
#6 Dump - West side	1300 Tons
Total of Dumps not adequately sampled - thought to be low grade.	25700 Tons
<b>Total tonnage on Dumps</b>	<b>86700 Tons</b>

The tonnage that is given in the present report is based on the assumption that the dumps are of uniform depth. The fact that the dumps are of irregular depth is a fact which is not reflected in the present report. The writer believes that the tonnage given in the present report is probably too low. This is very easily done as the shape of the topography is deceivingly irregular. The depth has now been much better exposed by Cat Trenching, and the present tonnage are believed to be relatively accurate.

COMPARATIVE RESULTSPrevious Engineering Reports:

		oz. Ag	% Pb	% Zn	oz. Au
#1 (Now #3 Dump)	3000 T	10.98	1.78	2.28	.075
#2 (Now #4 Dump)	3000 T	12.61	2.15	1.03	.055
#3 (Now #7 Dump)	20000 T	4.51	1.36	1.18	.05
#4 (Now Lardeau Cr.)	15000 T	7.00	2.06	1.6	.09

Summarizing present

Tonnages and Grades

of the same dumps:

#3 Dump (including what has been moved to Tailings Ponds)	67000 T	13.02	2.17	1.74	.05
#4 Dump	13600 T	10.30	1.23	0.67	.05
#7 Dump	26000 T	4.05	.86	.96	.04
Lardeau Creek	3900 T	2.50	.72	.11	.02

The tonnages show significant differences.

The #3 and #4 Dumps were undoubtedly estimated too low and are now given considerably higher tonnages. The writer believes that this is probably due to previous reports giving insufficient depth to the dump. This is very easily done as the shape of the topography is deceptively irregular. The depth has now been much better exposed by Cat Trenching, and the present tonnages are believed to be relatively accurate.

The tonnage of the Lardeau Creek dump was given in previous reports as larger and better grade than what can be seen to-day. The writer is somewhat at a loss to explain this difference. It is possible that Lardeau Creek has since carried away part of this dump.

On the whole the grades are remarkably and gratifyingly close.

#### VALUE OF THE DUMPS

(Silver \$4.00/oz., Lead 20¢/lb., Zinc 30¢/lb., Gold \$100.-/oz.)

The Gross Value of contained metals in the best grade, - 47,300 Tons grading 7.37 oz. Ag, 1.20% Pb, 1.07% Zn and 0.04 oz. Au, gives \$42.- per ton or a total of 2 million dollars. The economics of treating these dumps will not be examined here as the most important question in the economics, that of expected mill recovery remains to be established. The above values show that the dumps are highly important and the writer will recommend that metallurgical recovery studies be carried out.

UNDERGROUND BROKEN ORE

The writer estimated in his last report that anywhere from 40,000 tons to 90,000 tons remain in the stopes as back-fill. No work was done underground to establish these figures better. The main raise between #7 and #4 Levels was located on #4 Level. It is in good shape, although loose material prevents safe access at the present time. The raise should be scaled and re-timbered and ladders put in. This work is considered to be very important as it will give access to measuring and sampling of part of the back fill as well as giving access to #5 and #6 levels, where disseminated mineralization which was not of interest to the old miners may be found on the extensions of the vein.

SOIL SURVEYING

Limited soil surveying was carried out last summer to find out if this could be a useful exploration tool. The hill-sides of both sides of Cup Creek are very steep, up to  $42^{\circ}$ , and it was thought that soil development would be extremely poor. This turned out not to be the case. Almost invariably there was easily discernible soil horizons. The organic layer was usually 1 to 4 inches thick, the A horizon about 4 to 6 inches, and the B horizon from 2 to 6 inches thick.

The main mine area south of Cup Creek is not suitable for soil testing due to contamination from mined material, but the area from Cup Creek and north is very well suited to soil testing and should give reliable results. It will be recommended that systematic soil testing be carried out.



Soil testing carried out east of the mine area gave rather low values, although 4 samples gave 2 PPM. or better in Silver.

These values may be anomalous and a more detailed survey should be carried out.

Respectfully submitted,

EGIL LIVGARD, B.Sc., P.Eng.

LIVGARD CONSULTANTS LTD.

COQUITLAM. B.C.

CERTIFICATE

I, EGIL LIVGARD, of 1990 King Albert Avenue, Coquitlam, British Columbia.

DO HEREBY CERTIFY:-

1. I am a Consulting Geological Engineer.
2. I am a graduate of the University of British Columbia, B.Sc., 1960. Geological Sciences.
3. I am a Member of the Association of Professional Engineers of the Province of British Columbia.
4. From 1960 to 1962 I was employed as Geologist with United Keno Hill Mines, Elsa. Yukon Territories.  
From 1962 to 1963 I was employed as geologist with the Geologic Survey of Norway.  
From 1963 to 1966 I was employed as Mine Geologist and Engineer at the Portage Mine, Chibougamau. Quebec.  
From 1966 to 1968 I was employed as Chief Geologist and Engineer at Utica Mines, Keremeos. B.C.  
From 1968 to 1970 I was employed by S & N Mine Management, Consultants, Vancouver. B.C.  
From 1970 to the present I have been self-employed as a Consultant in Vancouver. B.C.
5. I have not, directly or indirectly received, nor do I expect to receive, any interest, directly or indirectly in the properties here described, or in any company that has an interest in these properties, or in any affiliate, and I do not beneficially own, directly or indirectly, any securities in any such company.

DATED at Coquitlam, British Columbia, this 12 day of SEPT 1976



Egil Livgard, B.Sc., P.Eng.  
Coquitlam. B.C.

UNDERGROUND WORK  
ON THE  
SILVER CUP PROPERTY  
OCT. - NOV. 1976

Livgard Consultants Ltd.,  
E. Livgard, B.Sc., P.Eng.,  
Coquitlam. B.C.

December 9th, 1976.

INDEX

	<u>Page</u>
INTRODUCTION .....	1
SUMMARY AND CONCLUSIONS .....	2
RECOMMENDATIONS .....	3
ESTIMATED COST OF RECOMMENDATIONS .....	5
WORK PROGRAM .....	6
SUMMARY OF ASSAYS AND EVALUATION .....	8
SECOND HANGING WALL MINERALIZED ZONE .....	9
FIRST HANGING WALL MINERALIZED ZONE .....	10
FIRST FOOT WALL MINERALIZED ZONE .....	11
7 LEVEL HANGING WALL FRACTURE ZONE .....	12
<b>APPENDIX:</b>	

Certificate of Assay	No. 7611-2250
	7611-2351
	7611-2960
	7612-0350

CERTIFICATE.

INTRODUCTION

The writer, having supervised a Drifting Program on the Silver Cup property, was asked by Mr. R.F.J. Newsom, President of C.T. Exploranda Ltd., to prepare an evaluation of the program to date and to make recommendations as to the company's next course of action.

The program is not yet complete and full survey maps, assay maps and geology maps will not be available until the program is completed.

As can be seen from the Assay tabulations, the spacing between sample points (length) is irregular and occasionally quite large. This was caused because of the rapid advance of the drift, reaching six 6 foot rounds in 24 hours. It is the writers intention to fill in these gaps in the samples and in some cases to re-sample some sections when the program is completed. The writer does not believe that the results will change materially. In the cases where the mineralization has been extended some distance without available samples, this has been done based on visual examination and geology.

The mineralized areas so far discovered are very encouraging for future development. They cannot, however, be called ore as ore is that material which can be extracted at a profit. This will only be determined by a feasibility study. The geologic terminology is deficient in this regard and fails to supply terms with which to evaluate mineralized zones.

SUMMARY AND CONCLUSIONS

The work on the Silver Cup property over the past 1½ months has consisted of 935 feet of drifting and cross-cutting largely on the Yuill vein. Well mineralized vein has been opened up over 165 feet.

The vein over this distance graded 12.00 oz.Ag., 0.054 oz.Au., 2.96% Pb, and 3.17 % Zn over 3 feet. This constitutes 25% of the total vein drifting and the writer considers this result to be above expectations and potentially very important for the future of the property.

Little work had previously been done on the Yuill vein and the results are gratifying.

The recommended program in this report will advance the drift to near the Towser - Silver Cup Vein and this is in the writers opinion one of the most favourable targets on the property.

The work recommended here may disclose several mineralized zones and is of substantial importance to the property.



RECOMMENDATIONS

Underground Diamond Drilling should now be carried out from the Y1500 level, which is the drifting on the Yuill vein soon to be completed. All mineralized zones can be reached from the hanging or foot wall drifts and grade and outline of mineralization can be checked both up - dip and down - dip.

Hanging wall to foot wall drift		
Yuill to Towser vein	3 holes @ 100'	300'
Foot wall to hanging wall drift		
Down - and up-holes	6 holes @ 100'	600'
Yuill 1500 L to Silver Cup vein		
	4 holes @ 350'	1400'
Yuill 1500 L Hanging wall to Foot wall		
	4 holes @ 100'	400'
		<hr/>
	Total	2700'

Following the Diamond drilling the drift should be extended following the Towser vein, which is a cross-vein between the Yuill and Silver Cup veins, to a point past the downward projection of the mineralization in the old Towser Mine.

The Towser vein is a strong structure and the possibility of the mineralization extending down are considered good. This will require 800 feet of drifting.

From the position of the drift following the above drifting program several very good targets can be reached by Diamond Drilling. The drifting and follow-up drilling should not be seperated, but treated as one program, as the drifting alone checks only one of several available targets.

Diamond Drilling:

Towser to Silver Cup vein

4 holes @ 300' 1200'

Towser to Yuill vein

4 holes @ 250' 1000'

Towser to Hanging Wall Split

4 holes @ 100' 400'

Total 2600'

ESTIMATED COST OF RECOMMENDATIONS

Y 1500 Drift - Diamond Drilling	
2700' @ \$12.-/ft.	32,400
Supervision, Engineering	3,000
Assays, Supplies, Travel	5,000
	<u>40,400</u>
 Towser Vein - Drifting	
800' @ \$120.-/ft.	96,000
Diamond Drilling	
2600' @ \$ 12.-/ft.	31,200
Supervision, Engineering	9,000
Cat Work	
50 hrs. @ \$60.-/hr.	3,000
Assays, supplies, travel	6,000
	<u>145,200</u>
	<u>185,600</u>
Contingencies - 10%	18,600
	<u>204,200</u>
Total	<u><u>204,200</u></u>

WORK PROGRAM

The Drifting Program has in the period Oct. 20th, to Dec. 4th, put in a total of 275 feet in adit cross-cut, hanging wall and foot wall cross-cuts and slashes. 660 feet have been drifted on the vein. Of the drifting 25% has been in well mineralized vein. Further cross-cutting and drifting is being done on the level. The level is named Y1500 - the Y designates the Yuill vein and 1500 is metres above sea level. Another level is being established 50 metres lower and is named Y1450. The majority of the drifting is on the Yuill vein. The junction of the Yuill and Towser veins has been reached and it seems probable that all the mineralization encountered is in some way associated with this junction.

The Silver Cup vein lies parallel to the Yuill vein 300' distant. Three Cat trenches and surface blasting has been done on vein. Minor mineralization was encountered.

The road to 7 and 8 levels was improved. The 8 level portal was opened up and the entire level (1000') proved in good condition. The 7 level had previously been made accessible for about 250 feet and was now opened up to the end - a distance of about 2000 feet.

Examination of these two levels showed that three stopes had previously been worked about 200 feet inside the portal on 7 level. Assays last summer and this Fall show some very good grades. In projecting this mineralization down to 8 level it seems likely that the 8 level may have been on the wrong structure and no mineralization was encountered on the level. A re-survey of the levels was carried out to confirm their position. Diamond drilling would be required to locate the down-dip of the mineralization.

The 7 level was examined to the end. No sampling or mapping has as yet been done in the Old Silver Cup and Blind Vein stoping areas. Further re-habilitation must be carried out before the workings are safe. A large amount of backfill should be sampled. Remaining visible mineralization on the veins should also be sampled. The geology should be mapped and may lead to further exploration targets.

SUMMARY OF ASSAYS AND EVALUATION

(Silver - \$4.50/oz., Gold - \$100.-/oz., Lead-20¢/lb., Zinc - 25¢/lb.)

	<u>Length</u>	<u>Width</u>	<u>Oz.Ag</u>	<u>Oz.Au</u>	<u>%Pb</u>	<u>% Zn</u>
First H.W. Zone	30'	3'	20.69	.054	1.66	2.14
	Gross Metal Value per Ton			\$116.		
Second H.W. Zone	55'	3'	10.94	.031	2.01	5.36
	Gross Metal Value per Ton			\$ 87.		
F.W. Zone	80'	3'	9.48	.069	4.11	2.05
	Gross Metal Value per Ton			\$ 76.		
(H.W. Zone in addition	60'	3'	5.92	.018	1.00	1.53)
Total	165'	3'	12.00	.054	2.96	3.17
	Gross Metal Value per Ton			\$ 87.		

---

The Silver (oz.Ag) to Lead (%) ratio in the H.W. Zone is 8.88 while in the F.W. Zone it is 2.3. This only confirms what can be seen visually that the H.W. Zone has a larger % of "Grey Copper" which is argentiferous.

---

The Cadmium to Zinc Ratio is 0.0152 lbs Cd/% Zn.

---

The total drifting on the vein - foot wall or hanging wall - is 660 feet, of this 165 feet is well mineralizes. This is 25% of the total vein drifting and the writer considers this result to be above expectations and potentially very important for the future of the property.



SECOND HANGING WALL MINERALIZED ZONE

<u>Length</u>	<u>Sample No.</u>	<u>Width</u>	<u>Oz.Ag</u>	<u>Oz.Au</u>	<u>Pb%</u>	<u>Zn%</u>
25'	876	1.15'	6.23	.032	1.59	12.18
		3.0'	2.39	.012	0.61	4.67
2.5'	875	2.3'	28.36	.081	6.44	17.77
		3.0'	21.74	.062	4.94	13.62
2.5'	874	.5'	11.04	.024	8.10	5.06
		3.0'	1.84	.004	1.35	.84
5.0'	873	2.6'	24.61	.064	.27	10.45
		3.0'	21.33	.055	.23	9.06
10'	871	1.15	36.16	.112	7.81	7.91
		3.0'	13.48	.043	2.99	3.03
7'	872	1.15	9.35	.038	3.90	1.90
		3.0'	3.50	.015	1.50	.73
Re-Sample	877	.8'	23.41	.052	8.68	4.09
		3.0'	6.24	.014	2.31	1.09
3'	Average	3.0'	4.91	.014	1.91	.91
55' Average Width		3.0'	10.94	.031	2.01	5.36

FIRST HANGING WALL MINERALIZED ZONE

<u>Length</u>	<u>Sample No.</u>	<u>Width</u>	<u>Oz.Ag</u>	<u>Oz.Au</u>	<u>Pb%</u>	<u>Zn%</u>	<u>Cd%</u>
5'	855	0.2'	282.82	.299	14.94	17.0	.14
	856	0.8'	30.41	.064	5.45	8.24	.07
5'		3.0'	26.96	.037	2.45	3.33	
	857	0.5'	143.18	.181	5.50	6.13	.05
15'		3.0'	23.86	.030	.92	1.02	
	858	0.8'	1.03	.004	.18	.10	
5'	859	0.35	93.95	.109	13.33	17.43	.14
		3.0'	11.24	.014	1.60	2.06	
30'	Average Width	3.0'	20.69	.054	1.66	2.14	
10'	860	0.8	.93	.01	.33	.27	
	861	0.2	16.14	.156	2.79	27.53	.23
14'		3.0'	1.32	.013	.27	1.91	
	864	1.5'	27.16	.068	3.75	5.66	
3'		3.0'	13.58	.034	1.86	2.83	
	862	1.5'	1.52	.016	.34	1.16	
8'	863	1.5'	9.23	.040	2.18	1.49	.02
		3.0'	5.38	.028	1.26	1.33	
18'	865	3.0'	.65	.004	.27	.23	
		3.0'	.65	.004	.27	.23	
Re - Sample	866	.15'	53.21	.095	27.21	8.45	
	867	1.0	6.67	.024	.84	3.12	
7'		3.0'	4.88	.013	1.64	1.46	
	868	.8'	46.50	.044	3.91	4.78	
60'		3.0'	12.40	.012	1.04	1.27	
	Average	3.0'	8.67	.012	1.34	1.37	
60'	Average Width	3.0'	5.92	.018	1.00	1.53	

FIRST FOOT WALL MINERALIZED ZONE

<u>Length</u>	<u>Sample No.</u>	<u>Width</u>	<u>Oz.Ag</u>	<u>Oz.Au</u>	<u>Pb%</u>	<u>Zn%</u>
10'	818	3.5'	.97	.016	0.42	0.35
	819 (2.6')	3.0'	1.76	.026	0.89	0.83
	820	0.4'	106.51	.108	66.22	3.07
		3.0'	15.73	.037	9.60	1.13
8'	832	0.91	12.66	.06	7.7	9.09
		3.0	3.80	.078	2.31	2.73
5'	831	0.8'	50.59	.236	18.63	14.73
		3.0'	13.49	.063	4.97	3.93
5'	830	1.0'	59.56	.176	13.88	15.81
		3.0'	19.85	.059	4.63	5.77
5'	833	0.5'	35.76	.208	21.02	4.42
		3.0'	5.96	.035	3.50	.74
5'	810	2.0'	3.62	.016	.19	.28
	811	2.5'	1.17	.06	.69	1.44
	834	0.5'	4.49	.044	2.79	1.14
		3.0'	1.72	.057	1.04	1.39
5'	835	0.5'	6.71	.148	5.53	2.23
		3.0'	1.12	.025	.92	0.37
18'	804	2.0'	9.79	.388	8.46	1.44
		3.0'	6.53	.259	5.64	.96
10'	805	0.4'	123.66	.400	31.10	13.13
	806 (2.6')	5.0'	.77	.014	.30	.16
	807	3.0'	1.25	.03	1.34	1.32
		3.0'	17.16	.065	4.41	1.89
<u>7'</u>	80' Average Width	3.0'	9.48	.069	4.11	2.05
	Of this 25' averaged	3.0'	13.22	.044	5.38	3.27

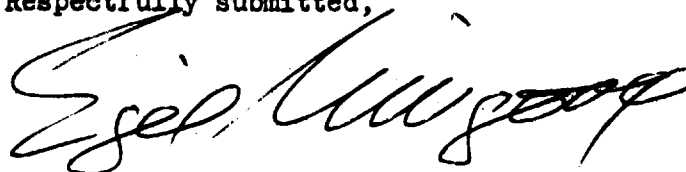
7 LEVEL HANGING WALL FRACTURE ZONE

<u>Sample No.</u>	<u>Width</u>	<u>Oz. Ag</u>	<u>Oz. Au</u>	<u>Pb%</u>	<u>Zn%</u>
822	.5'	8.66	.098	6.51	3.22
823	.33'	49.25	.004	19.42	32.47
824	.17'	11.38	.092	5.02	6.80
825	.33'	33.73	.164	9.77	35.09
886	2.0'	2.18	.008	1.32	2.66
887	4.0'	1.27	.066	.36	13.20
888	2.0'	1.80	.048	.22	17.3
829 Intern. rock	21.0'	1.20	.002	.27	.48

Total width of the fracture zone is:

30.0'	2.37	.016	.79	4.22
-------	------	------	-----	------

Respectfully submitted,



Egil Livgard, B.Sc., P.Eng.



# GENERAL TESTING LABORATORIES

DIVISION SUPERINTENDENCE COMPANY (CANADA) LTD.

1001 EAST PENDER ST., VANCOUVER, B.C., CANADA. V6A 1W2  
 PHONE (604) 254-1647 TELEX 04-507514 CABLE SUPERVISE

TO:  
 C. T. EXPLORANDA  
 440 - 890 West Pender Street  
 Vancouver, B.C.

## CERTIFICATE OF ASSAY

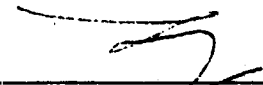
No.: 7611-2250      DATE: Nov. 30/76

We hereby certify that the following are the results of assays on:      Ore

MARKED	GOLD	SILVER	Lead	Zinc	XXXX	XXXX	XXX	XXXX
	OZ/ST OR/MT	OZ/ST OR/MT	Pb (%)	Zn (%)				
801 - D	0.004	6.43	5.94	6.06				
802	0.002	0.32	0.23	1.77				
803	0.004	0.10	0.08	0.11				
804	0.388	9.79	8.46	1.44				
805	0.400	123.66	31.10	13.13				
806	0.014	0.77	0.30	0.16				
807	0.030	1.25	1.34	1.32				
808	0.070	0.99	0.81	0.24				
809	0.002	0.02	0.09	0.14				
810	0.016	3.62	0.19	0.28				
811	0.060	1.17	0.69	1.44				
812	0.006	0.34	0.23	0.21				
813	0.004	0.07	0.08	0.12				
814	0.004	0.35	0.07	0.03				
815	0.004	0.89	0.06	0.02				
816	0.004	0.18	0.05	0.02				
817	0.004	0.19	0.07	0.04				
818	0.016	0.97	0.42	0.55				
819	0.026	1.76	0.89	0.83				
820	0.108	106.51	66.22	3.07				
821	0.008	1.55	0.99	1.33				
822	0.098	8.66	6.51	3.22				
823	0.004	49.25	19.42	32.47				
824	0.092	11.38	5.02	6.80				
825	0.164	33.73	9.77	35.09				
826	0.228	72.28	5.88	27.39				
827	0.086	16.33	0.40	25.13				
828	0.042	0.86	0.33	3.74				
829 - D	0.002	1.20	0.27	0.48				
886 - E	0.008	2.18	1.32	2.66				
887	0.066	1.27	0.36	13.20				
888	0.048	1.80	0.22	17.30				
889 - E	0.094	10.18	1.78	16.93				

NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS. ON REQUEST PULPS AND REJECTS WILL BE STORED FOR A MAXIMUM OF ONE YEAR.

ALL REPORTS ARE THE CONFIDENTIAL PROPERTY OF CLIENTS. PUBLICATION OF STATEMENTS, CONCLUSION OR EXTRACTS FROM OR REGARDING OUR REPORTS IS NOT PERMITTED WITHOUT OUR WRITTEN APPROVAL. ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED.

  
 L. WONG      PROVINCIAL ASSAYER

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER: American Society For Testing Materials • The American Oil Chemists' Society • Canadian Testing Association  
 REFEREE AND OR OFFICIAL CHEMISTS FOR: Vancouver Merchants Exchange • National Institute Of Oilseed Products • The American Oil Chemists' Society  
 OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Trade • Vancouver Merchants Exchange

# GENERAL TESTING LABORATORIES

DIVISION SUPERINTENDENCE COMPANY (CANADA) LTD.

1001 EAST PENDER ST., VANCOUVER, B.C., CANADA, V6A 1W2  
 PHONE (604) 254-1617 TELEX 04-507514 CABLE SUPERVISE

TO:  
**C. T. EXPLORANDA**  
 440 - 890 West Pender Street  
 Vancouver, B.C.  
 V6C 1J9

## CERTIFICATE OF ASSAY

No.: 7611-2351      DATE: Dec. 1/76

We hereby certify that the following are the results of assays on: **Ore**

MARKED	GOLD	SILVER	Lead	Zinc	Cadmium	Copper	XXX	XXX
	OZ/ST <del>99.99%</del>	OZ/ST <del>99.99%</del>	Pb (%)	Zn (%)	Cd (%)	Cu (%)		
830 - D	0.176	59.56	13.88	15.81	0.11	-		
831	0.236	50.59	18.63	14.73	0.11-	-		
832	0.060	12.66	7.70	9.09	0.07	-		
833	0.208	35.76	21.02	4.42	0.13	-		
834	0.044	4.49	2.79	1.14	0.01	-		
835	0.148	6.71	5.53	2.23	0.03	-		
836	0.148	30.52	12.55	17.53	0.13	-		
837	0.064	12.28	3.12	39.11	0.30	-		
838	0.080	13.03	0.18	44.94	0.35	-		
839	0.212	17.94	0.22	38.95	0.29	-		
840	0.044	24.91	2.09	32.00	0.23	-		
841	0.052	13.61	1.19	43.27	0.34	-		
842	0.220	14.63	11.99	9.67	0.07	-		
843	0.128	6.79	0.31	21.04	0.16	-		
851	0.048	16.89	4.56	3.83	-	-		
852	0.092	40.27	6.69	7.70	-	-		
853	0.120	89.82	8.70	21.79	-	-		
854 - D	0.238	61.44	12.26	33.36	0.25	0.65		

NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS. ON REQUEST PULPS AND REJECTS WILL BE STORED FOR A MAXIMUM OF ONE YEAR.

ALL REPORTS ARE THE CONFIDENTIAL PROPERTY OF CLIENTS. PUBLICATION OF STATEMENTS, CONCLUSION OR EXTRACTS FROM OR REGARDING OUR REPORTS IS NOT PERMITTED WITHOUT OUR WRITTEN APPROVAL. ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED.

*B. Given*  
**B. GIVEN**

PROVINCIAL ASSAYER

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER American Society For Testing Materials • The American Oil Chemists' Society • Canadian Testing Association  
 REFEREE AND OR OFFICIAL CHEMISTS FOR Vancouver Merchants Exchange • National Institute Of Oilseed Products • The American Oil Chemists' Society  
 OFFICIAL WEIGHMASTERS FOR Vancouver Board Of Trade • Vancouver Merchants Exchange





# GENERAL TESTING LABORATORIES

DIVISION SUPERINTENDENCE COMPANY (CANADA) LTD.

1001 EAST PENDER ST. VANCOUVER, B.C., CANADA, V6A 1W2  
 PHONE (604) 254-1647 TELEX 04-507514 CABLE SUPERVISE

TO:  
**C. T. EXPLORANDA**  
**440 - 890 West Pender Street**  
**Vancouver, B.C.**  
**V6C 1J9**

## CERTIFICATE OF ASSAY

No.: **7611-2960**      DATE: **Dec. 2/76**

We hereby certify that the following are the results of assays on: **Ore**

MARKED	GOLD	SILVER	Lead	Zinc	Cadmium	XXX	XXX	XXX
	OZ/ST	OZ/ST	Pb (%)	Zn (%)	Cd (%)			
855 - D	0.299	282.82	14.94	17.00	0.14			
856	0.064	30.41	5.45	8.24	0.07			
857	0.181	143.18	5.50	6.13	0.05			
858	0.004	1.03	0.18	0.10	-			
859	0.109	93.95	13.33	17.43	0.14			
860	0.010	0.93	0.33	0.27	-			
861	0.156	16.14	2.79	27.53	0.23			
862	0.016	1.52	0.34	1.16	-			
863	0.040	9.27	2.18	1.49	0.02			
864	0.068	27.16	3.75	5.66	-			
865	0.004	0.65	0.27	0.23	-			
868	0.044	46.50	3.91	4.78	-			
869	0.034	4.61	0.87	2.66	-			
870 - D	0.024	12.52	3.91	1.31	-			

NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS. ON REQUEST PULPS AND REJECTS WILL BE STORED FOR A MAXIMUM OF ONE YEAR.

ALL REPORTS ARE THE CONFIDENTIAL PROPERTY OF CLIENTS. PUBLICATION OF STATEMENTS, CONCLUSION OR EXTRACTS FROM OR REGARDING OUR REPORTS IS NOT PERMITTED WITHOUT OUR WRITTEN APPROVAL. ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED.

*B. Given*

**B. GIVEN**

PROVINCIAL ASSAYER

**COPY**

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER: American Society For Testing Materials • The American Oil Chemists' Society • Canadian Testing Association  
 REFEREE AND OR OFFICIAL CHEMISTS FOR: Vancouver Merchants Exchange • National Institute Of Oilseed Products • The American Oil Chemists' Society  
 OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Trade • Vancouver Merchants Exchange



# GENERAL TESTING LABORATORIES

DIVISION SUPERINTENDENCE COMPANY (CANADA) LTD.

1001 EAST PENDER ST., VANCOUVER, B.C., CANADA V6A 1W2  
 PHONE (604) 254-1647 TELEX 04-507514 CABLE SUPERVISE

TO:  
**C.T. EXPLORANDA**  
 440 - 890 West Pender Street  
 Vancouver, B.C.  
 V6C 1J9

## CERTIFICATE OF ASSAY

No.: **7612-0350**      DATE: **Dec. 8/76**

We hereby certify that the following are the results of assays on: **Ore**

MARKED	GOLD	SILVER	Lead	Zinc	Cadmium	Copper	XXX	XXXX
	OZ/ST GR/MT	OZ/ST GR/MT	Pb (%)	Zn (%)	Cd (%)	Cu (%)		
866 - D	0.095	53.21	27.71	8.45	0.07	0.40		
867	0.024	6.67	0.84	3.12	-	-		
871	0.112	35.16	7.81	7.91	0.07	-		
872	0.038	9.35	3.90	1.90	-	-		
873	0.064	24.61	0.27	10.45	-	-		
874	0.024	11.04	8.10	5.06	-	-		
875	0.081	28.36	6.44	17.77	0.13	-		
876	0.032	6.23	1.59	12.18	-	-		
877 - D	0.052	23.41	8.68	4.09	-	-		
No Tag	0.059	5.31	1.27	5.54	-	-		

NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS. ON REQUEST PULPS AND REJECTS WILL BE STORED FOR A MAXIMUM OF ONE YEAR.

REPORTS ARE THE CONFIDENTIAL PROPERTY OF CLIENTS. PUBLICATION OF STATEMENTS, CONCLUSION OR EXTRACTS FROM OR REGARDING OUR REPORTS IS NOT PERMITTED WITHOUT OUR WRITTEN APPROVAL. ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED.

**I. WONG**

PROVINCIAL ASSAYER

**COPY**

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers.

MEMBER: American Society For Testing Materials • The American Oil Chemists Society • Canadian Testing Association  
 REFEREE AND OR OFFICIAL CHEMISTS FOR: Vancouver Merchants Exchange • National Institute Of Oilseed Products • The American Oil Chemists' Society  
 OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Trade • Vancouver Merchants Exchange

LIVGARD CONSULTANTS LTD.

VANCOUVER. B.C.

CERTIFICATE

I, EGIL LIVGARD, of 1990 King Albert Avenue, Coquitlam.

British Columbia:

1. I am a consulting geological engineer.
2. I am a graduate of the University of British Columbia, B.Sc., 1960. Geological Sciences.
3. I am a Member of the Association of Professional Engineers of the Province of British Columbia.
4. From 1960 to 1970 I was engaged in mining and exploration geology in Canada and Norway for various companies, and since that time I have been a consultant to the Mining Industry in B.C.
5. My report is based on the personal examination of the property by myself, and on information compiled on the area and other material as referred to in the report.
6. I have not directly or indirectly received or expect to receive any interest, direct or indirect, in the properties of C.T. Exploranda Ltd. or any affiliate, and I do not beneficially own, directly or indirectly, any securities of C.T. Exploranda Ltd., or any affiliate

DATED at Vancouver, British Columbia, this 9th day of December, 1976.



EGIL LIVGARD, B.Sc., P.Eng.  
Vancouver. B.C.

C.T. EXPLORANDA LTD.  
(formerly Junex Resources Ltd.)

FINANCIAL STATEMENTS

FOR THE YEAR ENDED

FEBRUARY 28, 1976

**MacGillivray & Co.**  
Chartered Accountants

5. GIVE THE FULL NAME, HOME ADDRESS AND CHIEF OCCUPATION, THE NUMBER OF SHARES OF THE ISSUER BENEFICIALLY OWNED, DIRECTLY OR INDIRECTLY, BY EACH SENIOR OFFICER OR DIRECTOR OF THE ISSUER AND IF EMPLOYED DURING THE PAST FIVE YEARS, THE NAME OF EACH EMPLOYEE

NAME and ADDRESS	CHIEF OCCUPATION	NUMBER OF SHARES OF ISSUER BENEFICIALLY OWNED
RICHARD F. J. NEWSOM 440 - 890 West Pender Street, Vancouver, B. C. PRESIDENT/DIRECTOR	Rancher/Businessman	339,500
BRIAN J. HAGAN 1003 - East Toledo Street Bellingham, Washington DIRECTOR	Chemical Engineer	18,000
RON W. BREGOLISS Box 620, Kamloops, B. C. DIRECTOR	Secretary-Bregoliss Construction Ltd.	20,000
THOMAS A. DERBYSHIRE, 479 Wintergreen Richmond, B. C. DIRECTOR/SECRETARY	Airline Pilot	333,900
DONALD WINES Bellingham, Washington DIRECTOR	Chemical Engineer	12,000

6. PARTICULARS OF THE CORPORATE STANDING OF THE ISSUER

The Issuer was incorporated in British Columbia on July 15, 1969.

The last annual report was filed with the Registrar of Companies for the Province of British Columbia on August 9, 1976.

The latest audited financial statements of the Issuer were dated February 28, 1976 and were placed before the members of the Issuer at its Annual General Meeting held on June 18, 1976.

There is no business which the Issuer is restricted from carrying on.

7. THE AUTHORIZED AND ISSUED SHARE CAPITAL OF THE ISSUER

The authorized capital of the Issuer consists of 5,000,000 shares without par value, of which 1,534,456 shares have been issued as fully paid.

8. THE PRICES AT WHICH SECURITIES OF THE ISSUER HAVE BEEN ISSUED DURING THE PAST YEAR.

In February 1976, 56,500 shares were issued at 25¢ and 8,000 shares were issued at 26¢ each. These shares were issued prior to the consolidation of the company's shares on a one for four basis. In June of 1976 200,000 shares were issued at 85¢ each and in October 1976 200,000 shares were issued at 95¢ each.

30,000 shares were issued to Susan Hillier, 63 Wellesley Street East, Toronto, Ontario, pursuant to an Agreement dated December 10, 1975 whereby the Company acquired an Option to acquire nineteen (19) located mineral claims situate in the Mayo Mining Division, Yukon Territories. See items 10 and 11 hereof.

750,000 Escrowed shares were issued in consideration of the Company acquiring a group of mineral claims being the "Cindy Fraction 1 and 2" and "Sandy 6 - 9" and "Cindy 7 and 8", situate in the Revelstoke Mining Division, in the Province of British Columbia. The Escrowed shares were issued to the following individuals:

<u>NAME OF SHAREHOLDER</u>	<u>NUMBER OF SHARES</u>
Sea to Sea Investments Ltd. 202 - 900 West Pender Street, Vancouver, B. C.	332,500
Ron Bregoliss Box 620 Kamloops, B. C.	15,000
Thomas A. Derbyshire 479 Wintergreen Avenue Richmond, B. C.	332,500
Scotchvest Holdings, 2063 Lakeshore Blvd. West, Toronto, Ontario.	10,000
Brian Hagan 1003 East Toledo Street, Bellingham, Washington	15,000
Ivan Thompson 302 - 3420 Aeuchinachie, Duncan, B. C.	15,000