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REPORT ON  
THE EXPLORATION OF THE WAYSIDE PROPERTY  
GOLD BRIDGE AREA  
LILLOOET MINING DIVISION, B.C.

for

CARPENTER LAKE RESOURCES  
Box 466  
Lillooet, B.C.

by

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January 21st, 1980

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REPORT ON THE EXPLORATION  
OF THE WAYSIDE MINE PROPERTY  
GOLD BRIDGE AREA, LILLOOET MINING DIVISION, B.C.

SUMMARY

The Wayside Mine property consisting of 27 reverted Crown Granted claims and two located claims is situated on Carpenter Lake near Gold Bridge, B.C. in the Lillooet Mining Division.

The mine dates from the early 1960's and had two periods of production, 1915 to 1937 and 1949 to 1952, and the property was acquired by the present company in 1971.

Exploration work from that time to the present has consisted of mapping and sampling of the old workings and surface vein exposures, bulldozer trenching, some soil sampling and magnetic surveys, and diamond drilling. The 1975 drilling program delineated a small but high grade shoot of gold bearing quartz in the Commodore vein, and one hole probed the "New Discovery" zone which consisted of an outcropping of heavy pyrite associated with a belt of greenstone about 1000 feet to the south of the intrusive stock which was the host for the Wayside gold-quartz veins. This hole intersected massive pyrite with low gold values. The 1979 drilling program continued the exploration of the Commodore vein along strike towards Carpenter Lake, but without conclusive results, and several short holes were drilled in the vicinity of the 'O' adit which intersected some sections of gold bearing vein quartz.

The most important hole drilled in this period was 79-S6 which was a further investigation of the "New Discovery" zone. This hole cut a wide section of disseminated to massive sulphides consisting of pyrite, pyrrohotite, chalcopyrite, and sphalerite, and a weighted average of a 50 foot section of the best mineralization assayed Cu 0.89%, Zn 1.51%, Ag 0.18 oz/ton. A second hole, parallel to this and at the same declination is now in progress, and being drilled 158 feet to the south.

Although insufficient drilling has been done to delineate this zone, it is believed that it could represent a major copper-zinc sulphide deposit, and should be given the first priority for exploration, and future drilling should be concentrated on this area with the exception of one hole to probe the extension of the Wayside Main Vein to the southeast beyond the end of the 9th level.

A first phase budget of \$245,000 is recommended to cover the initial drill program of 6500 feet together with some surface trenching, with an additional \$400,000 being allowed for follow-up drilling.

## INTRODUCTION

This report on the Wayside Mine property covers a description and appraisal of the results of the exploration work carried out on the property since 1974 to date. The early history of the property up to the time of its acquisition by the present company is fully covered in a report by the writer dated April 21st, 1971, and will be dealt with very briefly in this report as will the detailed geology, etc. The more recent work, consisting mainly of diamond drilling and some trenching has been covered in a number of progress reports submitted by the writer from time to time, and the essence of these will be covered in this present report.

The report was prepared for Carpenter Lake Resources Ltd. Box 466, Lillooet, B.C.

## LOCATION AND ACCESS

The property, which consists of 27 reverted Crown Granted claims and some recently located claims lies mainly on the west side of Carpenter Lake with some of the claims being underneath the lake.

Access is by way of the Lillooet Bralorne highway for a distance of approximately 100 km. from Lillooet, the highway passing through the claims with old adits both above and below the highway. From the highway, the company has constructed several bulldozer roads up the hillside to the west to reach the upper adits, and also below the highway to the #5 adit on the edge of the lake. Goldbridge is the nearest settlement about 6 km. to the south. The B.C. Hydro power line crosses the property, paralleling the highway.

A location map accompanies this report.

PROPERTY

The property consists of 27 reverted Crown Granted claims and two located claims in the Lillooet Mining Division. Details are as follows:-

Reverted Crown Grants

<u>Claim</u>	<u>Lot No.</u>	<u>Acres</u>	<u>Mineral Lease No.</u>	
Wayside	3036	51.65	M-57	
Argon	3037	49.86		
Radium	3038	39.00		
Helium	3039	51.63		
Queen City Fr.	3040	8.27		
Rodeo	5471	48.01		
Commodore Fr.	5503	20.00		
Lodge	5504	51.65		
Alpha	5505	51.63		M-48
Beta	5506	50.20		
Gamma	5507	37.70		
Cabinet	5509	44.41		
Counsel	5510	48.79		
Newport	5511	49.36		
Wayside B. Fr.	5512	2.57		
Camp Denison	5513	36.45		
Port Fr.	5514	4.05		
Sun	5515	49.57		
City No.1	5912	42.71		
Spring A	5913	51.39		
Spring Fr.	5914	41.74		
Spring B	5915	51.62		
Spring C	5916	29.82		
Lodge B	5917	37.64		
Rodeo Fr.	5918	41.32		
Wayside No.2	6955	51.60		
Lodge No.2 Fr.	6956	49.42		
		<u>1098.06</u>		

Located Claims

<u>Name</u>	<u>Record No.</u>
Wayside Ext. #2 (18 units)	1089
Wayside Fr.	1086

The position of these claims according to the government claim map and staking plan is shown on the Location Map.

### EARLY HISTORY

This is fully covered in the report of April 1971 but in summary, the property, previously to being acquired by the present company had two periods of activity, the first being from about 1900 to 1937 when a major part of the underground workings were completed, and government records show a total production from 1915 to 1937 of 43,094 tons with a recovery of 5341 oz. Au and 842 oz. Ag. The second period of activity was from 1949 to 1952 when the shaft was sunk to the 9th level and some drifting, cross-cutting and raising was done on the 9th level. Also 5808 feet of diamond drilling was reported. 900 tons of development ore were milled, but the results of this are not known.

### RECENT EXPLORATION HISTORY

The Crown Granted claims covering the Wayside Property which had reverted, were acquired by Dawson Range Mines Ltd. N.P.L. (the predecessor company to Carpenter Lake Resources Ltd.) in 1971, the No.5 adit was repaired to the shaft and the mine was de-watered to the 8th level. The 6th, 7th and 8th levels were found to be in fairly good condition, and some good gold values were obtained from pillars and stope remnants, but mining had been more extensive than indicated on the old plans and there was virtually no mineable ore remaining above the 8th level to the extent of the development.

The cost of maintaining the levels dewatered became excessive with the equipment in use and the mine was allowed to flood to the 5th level as it was decided for the time being to concentrate work on the workings above the adit level in the main mine, and to explore some of the other vein showing to the south of the main shear.

During 1972, 1973 and 1974 some bulldozer stripping, x-ray drilling, soil sampling, and magnetic surveying was carried out, and in September and November of 1974, Chas. A.R. Lammle, P.Eng. conducted a program of geological mapping and check sampling, and prepared a geological report and maps dated 27th November, 1974. This report designated eight targets for exploration both on the surface and from the underground workings, the surface targets including the 3T vein, Commodore vein, and the "New Discovery" zone which will be discussed in later sections of this report.

Diamond drilling was carried out on the Commodore vein in 1975, and during 1976, 1977 and 1978 a certain amount of stripping and trenching was completed for assessment purposes with the drilling program being resumed in 1979. During that year 8 holes for a total of 2688 feet were completed and one hole (No.79-S6) was stopped in mineralization at a depth of 801 feet. This program of drilling is being continued in 1980.

#### GENERAL AND ECONOMIC GEOLOGY

The geology of the Wayside Mine area is covered in the report of 1971 which is based on mapping by C.E. Cairnes, C.W.Drysdale, and others, but briefly, the claim area is underlain by the Ferguson series of sediments and volcanics and remnants of the Hurley River and Pioneer formations which have been intruded by two stocks of the Bralorne Intrusive consisting of augite diorite and soda granite.

Up to the present, the main area of economic interest has been the quartz veins striking northwesterly and dipping at 50° - 60° to the northeast which follow shear zones in the augite diorite-soda granite intrusive, and carry erratic, but sometimes very rich values in gold associated with arsenopyrite and also



all occur in the eastern most stock, but the western stock which is separated from the eastern stock by a band of Ferguson and Pioneer volcanics has also been extensively explored.

Recent drilling has disclosed a previously unknown body of mineralization lying wholly within the volcanics, and consisting of a wide zone of massive to disseminated sulphides, mainly pyrite with chalcopyrite and sphalerite. Only one hole has partially penetrated the zone to date so its size and potential is still unknown, but it is unique for the area, and could be of great economic importance. This zone known as the "New Discovery" will be discussed in more detail in a later section.

A regional Geological Map accompanies this report.

#### DISCUSSION OF EXPLORATION

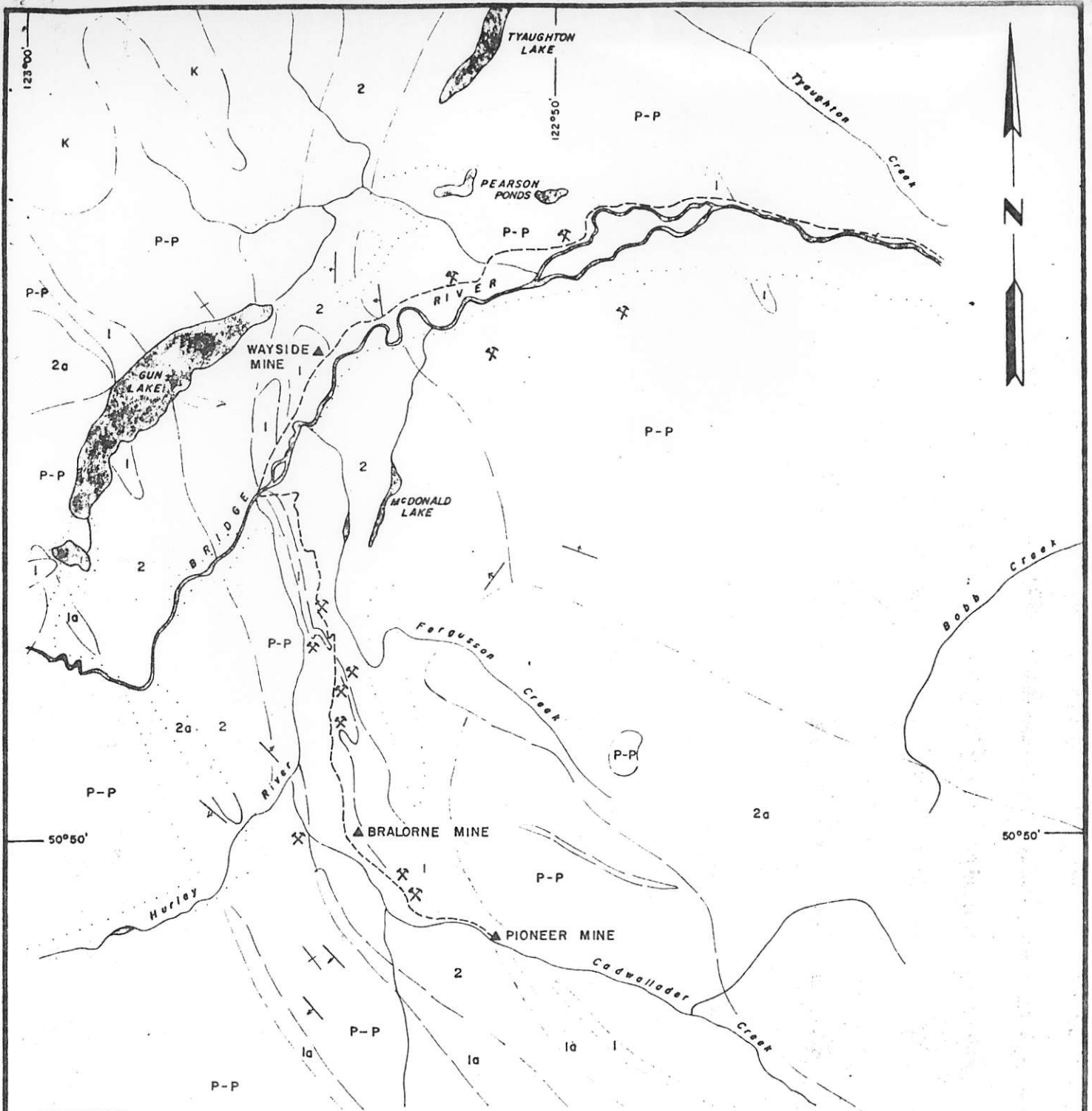
This section of the report is a summary of the results of the 1975 and 1979 drilling, part of which has already been reported in various progress reports which are on file, but complete logs and sections of the significant drill holes are included with this report.

##### Holes 75-A1 and 75-A5

These holes were drilled to explore the Commodore vein and indicated the vein to have a dip of about  $65^{\circ}$  and a true width of five feet. Hole 75-A1 assayed 0.955 oz/ton Au over 7 feet, and Hole 75-A5 averaged 9.818 oz/ton Au over 6 feet. (See 1" to 100' plan and 1" to 20' section included with this report).

##### Hole 75-A2

This hole was drilled on the "New Discovery" zone on a bearing of  $225^{\circ}$  and a dip of  $-55^{\circ}$  to a depth of 185 feet. Where it was stopped in massive sulphides. Two sections of heavy



**LEGEND**

- 2a BENDOR BATHOLITH (Quartz Diorite)
- K ELDORADO SERIES
- 1 BRALORNE STOCK (Augite Diorite)
- 2 HURLEY RIVER FORMATION (Limy Seds.)
- 1a SHULAPS VOLCANICS (Serpentine)
- P-P FERGUSSON SERIES (Argil. Seds. & Greenstone)

▲ MINE

⌘ PROSPECTS

NOTE: TRACED FROM BRIDGE RIVER GEOLOGY MAP BY C.W. DRYSDALE 1915.

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**GEOLOGY  
OF  
WAYSIDE-BRALORNE AREA**

SCALE: 1" = 2 MILES

J. P. ELWELL P.Eng.  
CONSULTING MINING ENGINEER

mineralization were submitted for assay and averaged 0.02 oz/ton Au. The location of this hole is shown on the 1" to 100' plan and a complete log of this hole is attached to this report.

Holes 79-S1 and 79-S2

These holes were drilled from the same site as 75-A1 on the bearings and dips shown on the 1" to 100' scale plan, the purpose being to check the high gold values encountered in holes 75-A1 and 75-A5.

Complete logs and assays of these holes accompany this report, but in summary, hole 79-S1 cut 7 feet assaying 0.695 oz/ton Au and 0.54 oz/ton Ag, and hole 79-S2 cut 4.5 feet assaying 0.066 oz/ton Au.

x Holes 79-S3, 79-S4, 79-S5

These holes were drilled from the bench above Carpenter Lake (see 1" to 100' plan), with the objective of cutting both the Commodore vein and 3T veins at depth and along strike to the southeast. Hole 79-S3 was abandoned in overburden, but holes 79-S4 and S5 were completed to depths of 764 feet and 716 feet respectively, both on a bearing of 240° and an inclination of -60°.

The complete logs and assay results of these holes are included in the Appendix to this report, but in summary, the entire length of both holes was in augite diorite and soda granite cut by numerous greenstone and aplite dikes and a number of quartz veins and stringers, some of which showed mariposite alteration, and occasional minor sulphides. A number of sections were split and sampled, but returned only low values in gold and silver, the best section in 79-S5 being 4 feet from 216 feet to 220 feet which assayed 0.012 oz/ton Au and 0.06 oz/ton Ag.

*(only 1.5' recovered from interval. [37.5%])*

Holes 79-S7, 79-S8 and 79-S9

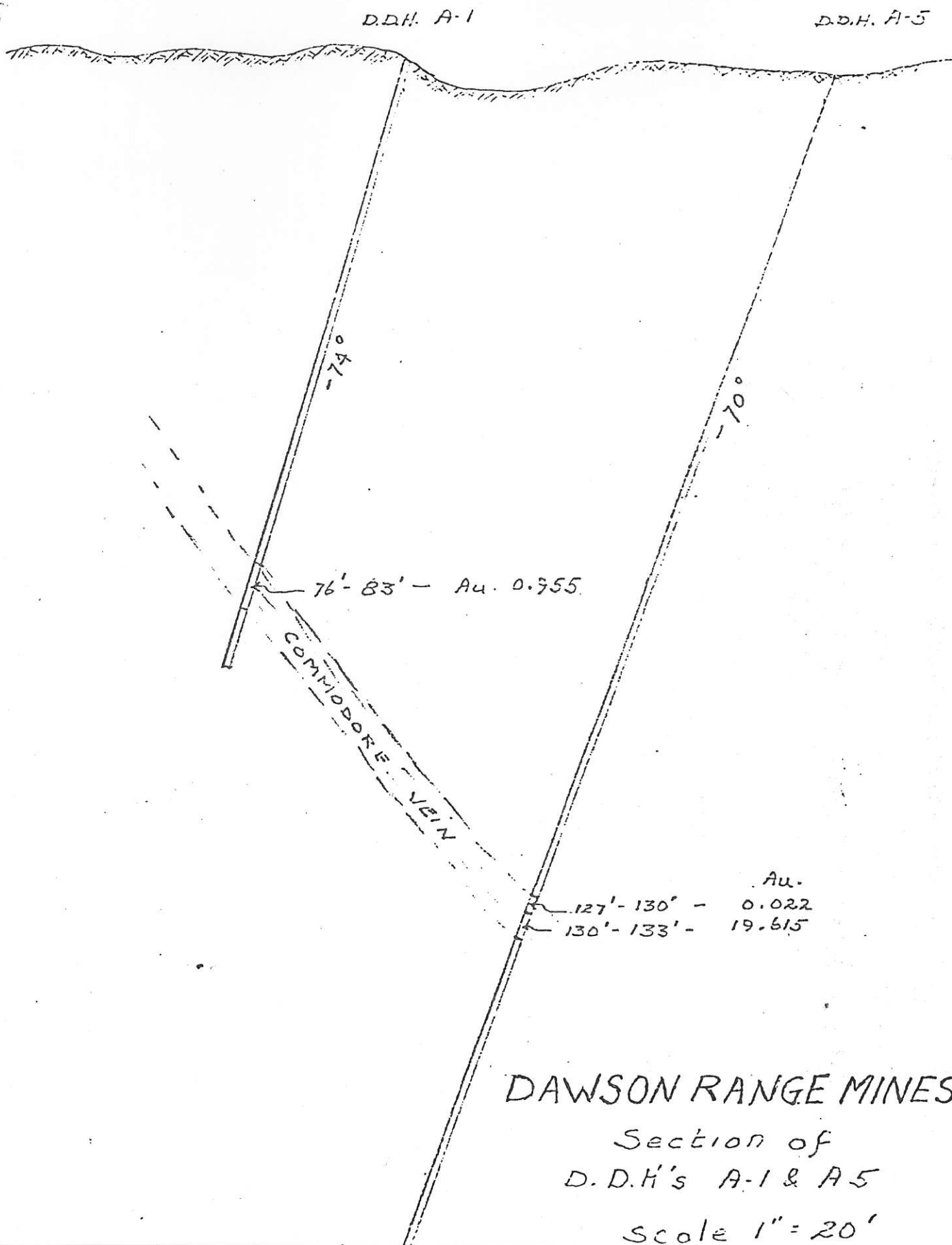
These were three short holes drilled to explore the vein exposed in the old 'O' level of the Wayside Mine. The locations, bearings, and dips of these holes are shown on the 1" to 100' scale plan, and their depths were 54 feet, 71 feet, and 88 feet respectively. The complete logs and assays of these holes are included in the Appendix to this report, but in general they were disappointingly low except for a 3 foot section from 55' to 58' in hole 79-S9 which assayed 0.52 oz/ton Au, and 0.14 oz/ton Ag, and 2 feet from 82'-85' which assayed 0.15 oz/ton Au and 0.09 oz/ton Ag.

\* 2 Zones  
in 1 Hole

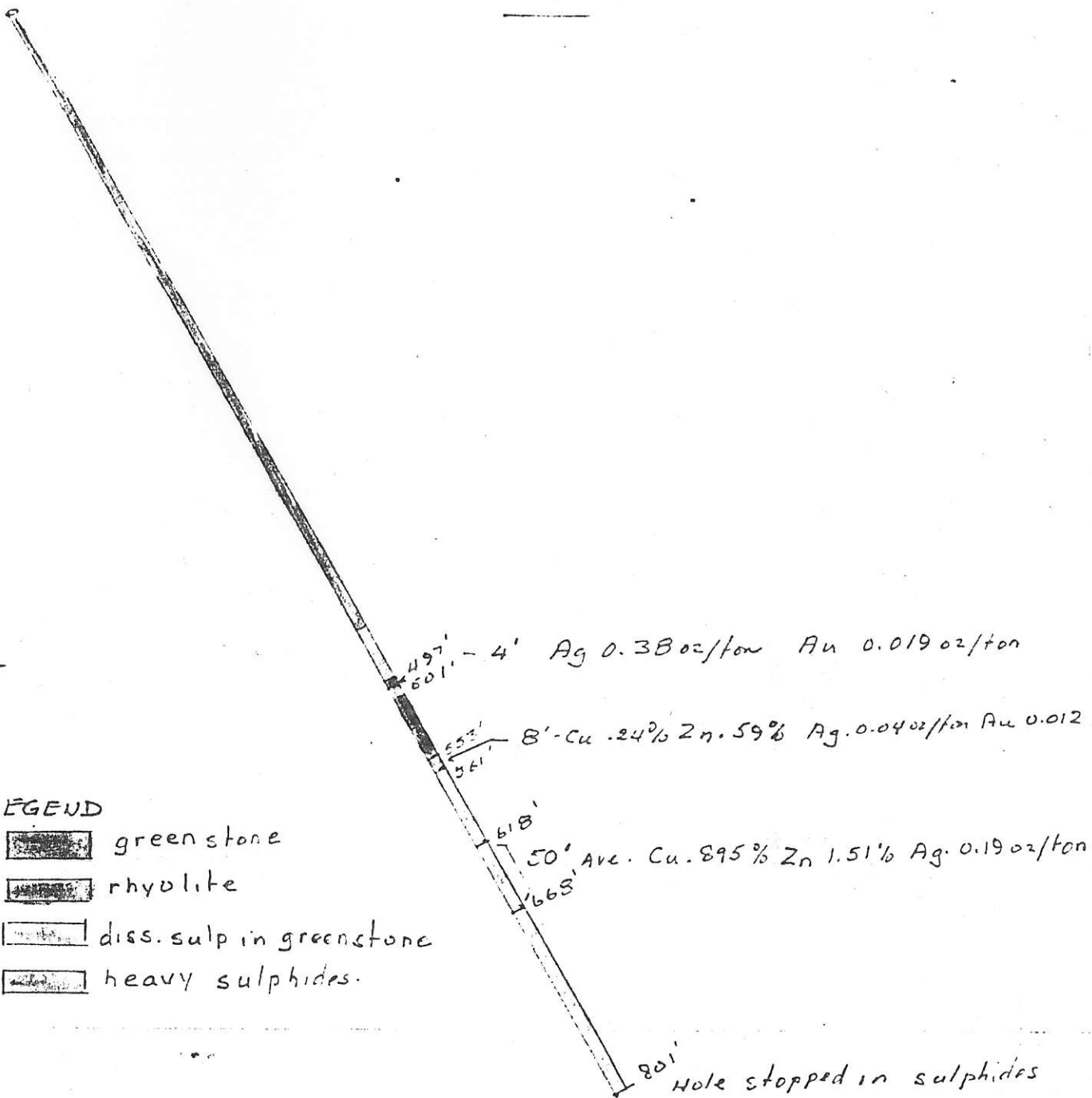
Hole 79-S6

This is the second hole to probe the "New Discovery" sulphide zone (see hole 75-A2). The hole was started from the roadside and drilled on a bearing of  $240^{\circ}$  at a dip of  $-60^{\circ}$  to be nearly parallel to hole 75-A2 but to cut the ground at a greater depth. (See 1" to 100' plan).



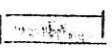
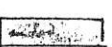
The detailed log of this hole to 791 feet together with assay results of the mineralized sections appear in the Appendix to this report, but in brief, the country rock for the entire hole consists of volcanics classified the Pioneer Greenstone Formation. Disseminated to massive pyrite with very minor chalcopyrite was encountered from 450 feet to 501 feet. A rhyolite dike was intersected from 505 feet to 553 feet followed by greenstone with increasing amounts of disseminated pyrite and minor chalcopyrite. Heavy to massive sulphides with noticeable amounts of chalcopyrite and sphalerite were cut from 618 feet to 668 feet followed by minor disseminations but the last foot of core to 801 feet where the hole was stopped (not seen by the writer) is reported to show an increase in sulphides.



DAWSON RANGE MINES LTD  
 Section of  
 D.D.H.'s A-1 & A-5  
 Scale 1" = 20'



LEGEND

-  greenstone
-  rhyolite
-  diss. sulph in greenstone
-  heavy sulphides.

CARPENTER LAKE RESOURCES LTD  
 Section Through D.D.H. 79-56  
 scale 1" = 100'

sulphide mineralization were split and assayed for gold and silver, and all the core from 551 feet to 791 feet was split and assayed for copper, zinc, gold and silver. All this latter core showed minor copper and zinc mineralization with very low gold and silver values, but significant values which could be economic for a large body were encountered in the 50 feet from 618 feet to 668 feet. These and other assays are reproduced with the drill hole log in the Appendix of this report.

At the time of writing, hole 80-S1 is being drilled parallel to 79-S6 on the same declination 158 feet to the south. The writer has not seen any of the core, but the company reports that the rhyolite dike was intersected, and the section 485 feet to 518 feet showed sulphide mineralization as pyrite, chalcopyrite, and sphalerite.

The position of the rhyolite dike in the two holes tends to confirm the apparent strike of this sulphide zone.

#### EVALUATION OF THE EXPLORATION RESULTS

The diamond drilling program carried out during 1975 and 1979 in the intrusive rocks and vein structures of the Wayside property together with the stripping and trenching done in 1977 and 1978 has delineated some small, but high grade gold ore shoots on the Commodore vein, but has failed to locate the continuation of this vein with any certainty along strike to the southeast, although several narrow quartz veins were intersected in hole 79-S5 which might be a "horse tailing" of the Commodore vein.

The bulldozer stripping done higher up below the old 'O' adit has disclosed some wide, weakly mineralized shears with low gold values which might be considered ore grade at the present price of almost \$1000/oz (Can). However, the gold market has

been so volatile lately that it is the writer's opinion that it would be unwise to select a price in this range to determine potential ore and therefore, evaluation of the gold potential of this part of the property should be deferred until there is some indication of price stability.

The only additional drilling for this area is the drill hole recommended by Lammle to probe the extension of the vein on the 9th level under the lake. This hole should be drilled during the winter when the water is low and the ground frozen.

The exploration target for the immediate future appears to be the "New Discovery" zone which has been partially intersected by three drill holes. There is still insufficient data to determine the nature of this zone of massive sulphides, as the deposit is unique to the area, all previous exploration having been done on gold bearing veins, but the preliminary drilling indicates that the apparent strike is almost north-south, which, if projected across the lake would connect with the old B.R.X. ground where there are reports of sulphide mineralization in drifts on the lower levels. Whether there is any relation between these two occurrences will depend on considerable more exploration work, but the indications are from the results to date that a very substantial body of copper-zinc sulphide mineralization could exist which justifies a comprehensive exploration program, the outline of which is given below.

#### RECOMMENDATIONS

1. Drilling should be continued on the "New Discovery" zone. The positioning of the holes will depend on the results achieved from each, but in the initial phase, at least 4 more  $-60^{\circ}$  holes should be drilled along strike, each bearing at  $240^{\circ}$ , and



three holes drilled at  $-45^{\circ}$  on the same bearing directly above the  $-60^{\circ}$  holes to establish the dip of the mineral zone. Each hole will probably average about 800 feet in length.

2. From the roadside above the original sulphide outcrop, some backhoe trenches should be cut upslope on a southwesterly direction to uncover the copper zinc zone if it outcrops to the surface.

3. Some trial lines of I.P. survey should be run normal to the apparent strike of the sulphide zone, the lines being run over or near the drill hole intersections. If the response is good, this geophysical method should be employed to trace the trend of the zone ahead of the drilling and trenching.

4. One hole should be drilled from the lake bottom at  $250^{\circ}$  and  $-60^{\circ}$  dip to probe for the extension of the Wayside shear on the 9th level. If successful, further drilling would be in order.

5. Further recommendations will be made after an evaluation of the above.

#### ESTIMATE OF COSTS

##### Phase I

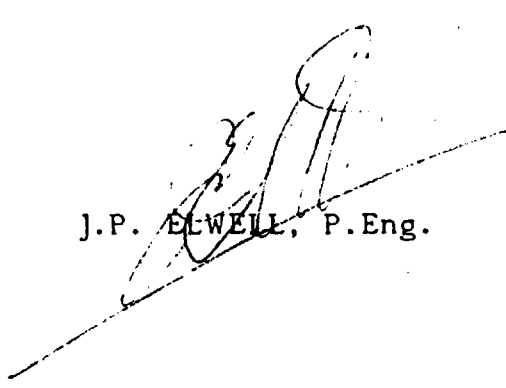
- |   |              |
|---|--------------|
| 1. Diamond drilling - allow 6500 ft.<br>@ \$25.00/ft. | \$162,500.00 |
| 2. Backhoe trenching, drilling                        |              |

6. Travel and administration	\$ 8,000.00
7. Contingencies, approximately 12% of above total	<u>22,500.00</u>
Total	<u>\$245,000.00</u>

Phase II

If the results of Phase I work prove successful, then the property will require an expanded exploration program involving further diamond drilling, drifting, etc. for which an additional budget of \$400,000 should be provided.

January 21st, 1980

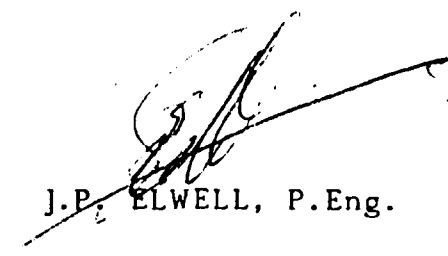
  
J.P. ELWELL, P.Eng.

CERTIFICATE

I, James Paul Elwell, of 4744 Caulfield Drive, West Vancouver, B.C. do hereby certify that:

1. I am a Consulting Mining Engineer residing at 4744 Caulfield Drive, West Vancouver, B.C., and with an office at 1030-510 West Hastings Street, Vancouver, B.C. V6B 1L8
2. I am a graduate in Mining Engineering from the University of Alberta in 1940, and am a Registered Professional Engineer in the Province of British Columbia.
3. I have no personal interest, directly or indirectly in the properties or in Carpenter Lake Resources, nor do I expect to receive directly or indirectly any interest in such property or securities.
4. The findings in this report are from data obtained from the reports and maps referred to and numerous examinations of the property from 1975 to 1980.

DATED at VANCOUVER, B.C. this 21st day of January, 1980.

  
J.P. ELWELL, P.Eng.

APPENDIX

Logs and Assays of  
Diamond Drill Holes  
1975 to 1979

D.D.H. 79-S2

Bearing 200°

Dip - 70°

<u>Footage</u>		<u>Description</u>
<u>From</u>	<u>To</u>	
0	- 22	casing
22	- 26	soda granite, inclusions augite diorite
26	40	augite diorite
40	42	soda granite
42	61	greenstone, inclusions soda granite, minor veins albite
61	69	soda granite
69	80	greenstone with inclusions soda granite
80	81.5	minor qtz. soda granite
81.5	84	albite "horse", minor sulph.
84	86	vein qtz., minor soda granite, albite
86	89	soda granite, albite, mariposite
89	95	augite diorite
End of hole		

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Assay</u>	
			<u>Au oz/ton</u>	<u>Ag oz/ton</u>
69516	81.5	84	0.046	0.01
69517	84	86	0.090	- 0.03
69518	86	88	0.003	0.01
	Ave. 4.5'		0.066	

D.D.H. 79-S4

Bearing 240°

Dip - 60°

<u>Footage</u>		<u>Description</u>
<u>From</u>	<u>To</u>	
0	- 59	overburden
59	- 61	soda gran., minor greenstone dike
61	- 90	mainly augite diorite, minor qtz. stringers, minor dikes
90	- 112	augite diorite
112	- 114	albite dike
114	- 115	soda granite
115	- 144	augite diorite, minor qtz. stringers shearing 60° to core at 120' and 142'
144	- 149	soda granite
149	- 150	greenstone dike
150	- 162	soda granite
162	- 165	greenstone dike
165	- 170	soda granite
170	- 184	greenstone dike, incl. soda granite at 173', shearing at 181'
184	- 193	soda granite, becoming silicious
193	- 215	- fine grained rhyolite dike
* 215	- 219	- qtz. breccia, mariposite alter., minor sulphides
219	- 223	- silicious breccia, soda gran. augite diorite
* 223	- 228	- augite diorite, shearing and alt. at 226' - 228'
228	- 233	- grey rhyolite dike
233	- 250	- augite diorite grading to soda granite
250	- 254	soda granite
254	- 282	very coarse gr. augite diorite, minor qtz. stringers
282	- 285	greenstone dike
285	- 292	augite diorite
292	- 297	soda granite
297	- 302	albite dike, minor qtz. veins
302	- 367	augite diorite with random qtz. stringers, some shearing and brecciation
367	- 380	augite diorite, shearing axially to core some brecciation
380	- 380.5	qtz. veinlet
380.5	- 426	soda granite, random qtz. stringers
426	- 445	augite diorite, coarse gr., massive
445	- 447	augite changing to greenstone
447	- 497	soda granite, minor augite diorite
447	- 449	augite diorite
449	- 497	soda granite, minor augite diorite
497	- 502	grey felsite dike
502	- 555	soda granite, fine gr., silicious zone at 530' - 533', minor py.

<u>Footage</u>		<u>Description</u>
<u>From</u>	<u>To</u>	
590	- 600	augite diorite and soda granite
600	- 602	augite diorite some rusty alteration
602	- 608	18" core recovered - silicious zone minor qtz.
608	- 632	augite diorite and soda granite mixed
632	- 636	- fault zone poor core rec.
636	- 650	- soda granite grading into augite diorite
650	- 683	massive augite diorite, minor faulting
683	- 687	albite dike
687	- 691	augite diorite, shearing at 689'
691	- 700	soda granite
700	- 764	massive augite diorite, minor qtz. stringers
End of hole		

Assays

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Feet</u>	<u>oz. Au/ton</u>	<u>oz. Ag/ton</u>
37823	363	365	2	0.003	0.01
37824	215	219	4	0.003	0.10
37825	391	374	3	0.003	0.04
37826	531	533	2	0.003	0.04
37827	549	552	3	0.003	0.01
37828	564	566	2	0.003	0.07
37829	574	575	1	0.003	0.01

D.D.H. 79-S5

Bearing 240°

Dip - 60°

<u>Footage</u>		<u>Description</u>
<u>From</u>	<u>To</u>	
0	- 55	Overburden
55	- 82	augite diorite, banded, minor soda gran., minor albite stringers at random angles
82	- 91	coarse to fine gr. augite diorite
91	- 96	augite diorite, numerous albite dikes, 2' dike 94' - 96'
96	- 106	augite dior. and soda gran., shearing at 98'-99'
106	- 127	soda granite
127	- 133	greenstone dike
133	- 138	broken core - mainly soda granite
138	- 162	soda granite
162	- 188	augite diorite cut by numerous minor dikes of albite, qtz. carbonate
188	- 195	soda granite with incl. augite diorite
195	- 206	coarse to fine gr. augite diorite
206	- 216	massive soda gran.
216	- 240	soda gran., mariposite alteration 216' - 220' and 222' - 224'
240	- 265	coarse to fine gr. augite diorite, minor veinlets of qtz., albite
295	- 324	augite diorite, core broken up 300' - 314'
324	- 414	massive augite diorite, minor shearing at 332', minor dikes
414	- 415	- greenstone dike
415	- 476	- fine gr. augite diorite
476	- 477	- white qtz. vein
477	- 500	- augite diorite
500	- 528	- augite diorite, bands and stringers of albite at random directions to core
528	- 560	medium to coarse gr. augite diorite, minor albite dikes
560	- 575	soda granite, minor qtz. veins
575	- 600	augite diorite, some fract. and alt.
600	- 610	mainly massive soda gran. with some augite diorite
610	- 640	augite diorite
640	- 668	augite diorite and soda granite major shearing at 650' - 660'
668	- 675	coarse to fine gr. augite diorite, 8" qtz. vein at 675'
675	- 697	soda granite, mariposite alteration 677' - 678'
697	- 716	augite diorite
End of hole		



Assays

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Feet</u>	<u>oz Au/ton</u>	<u>oz Ag/ton</u>
37831	476	477	1	0.005	0.05
37832	677	678	1	0.005	Tr.
37833	216	220	4	0.012	0.06
37834	222	224	2	0.005	0.20
37848	228	230	2	0.020	0.02
37849	438	447	9	0.002	0.06

Bearing 240°

Dip - 60°

<u>Footage</u>		<u>Description</u>
<u>From</u>	<u>To</u>	
0	32	casing
32	60	Andesite, minor epidote alt. minor diss. sulph.
60	83	andesite, porph. and non-porph., minor dikes, qtz. carb. stringer at 80'
83	106	greenstone, minor diss. sulph.
106	139	greenstone porph., diss. sulph., qtz. stringer at 114' and 139'
139	154	albite? dike, phenocrysts of mafic mineral
154	211	greenstone, minor qtz. stringers diss. sulph. shearing at 190' - 192'
211	236	sheared, serpentized greenstone epidote alt.
236	245	fine gr. dike
245	281	epidotized greenstone, minor diss. sulph, py.
281	290.5	albite - frac. with mafic min. in fractures also mauposite and minor sulph. Qtz. veinlets at 290.5'
290.5	346	greenstonewith diss. py.
346	391	same, shearing at 351' - 352', 362' - 363', minor diss. py.
391	420	greenstone with epidote alt. shearing at 411'W. minor qtz. also at 418'
420	451	greenstone - shattered zone 428' - 431', qtz. string. at 438' W. minor py.
451	458	greenstone, minor diss. py.
458	472	greenstone with diss. to massive py., minor cpy., mariposite
472	480	greenstone
480	497	greenstone, epidote alt.
497	501	massive, fine gr. pyrrho., py, minor cpy., in greenstone
501	505	greenstone
505	533	light grey rhyolite dike
533	545	volcanics
545	553	volcanics - minor diss. py.
553	561	increase in py. to massive, coarse grained, cubic
561	563	sparse to massive py. - silicious vol.
563	568	greenstone dike - sparse diss. py.
568	573	diss. to heavy py. in sil. vol. - shearing.
573	578	diss. to mass. py. - shearing at 60° to core - blebs cpy. at 577-578 - sph? cuprite?
578	588	mainly diss. py. in sil. vol. 2' dike at 586
588	600	2' dike at 588' - sheared vol. with diss. to heavy py. minor cpy.
600	607	sheared sil. vol., diss. to heavy py., minor cpy.
607	635	greenstone dike 607' - 616', sheared and altered vol., minor cpy. diss. py.

<u>Footage</u>		<u>Description</u>
<u>From</u>	<u>To</u>	
635	- 642	- increase in py. and cpy. to massive bands in sil. vol.
642	- 648	- massive sulphides - py., cpy., sph.
648	- 656	- diss. to massive cpy. py., sph. in silicious vol.
656	- 663	- diss. to mass. py., also veinlets in sil. vol.
663	- 675	- diss. to mass. py., cpy.
675	- 683	- sparse diss. py. amygdaloidal vol.
683	- 733	- fine gr. diss. py., minor cpy. in silicious vol.
733	- 766	- very sparse diss. py.
766	- 776	- increase in diss. py., minor cpy.
776	- 786	- fine gr. py., cpy. as diss. and small blebs, silicious vol.
786	- 791	- minor diss. py. cpy. sph.

Assays

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Feet</u>	<u>Cu %</u>	<u>Zn %</u>	<u>Ag oz/ton</u>	<u>Au oz/ton</u>
70211	497	501	4	-	-	0.38	0.019
71406	553	561	8	0.24	0.59	0.04	0.012
71414	<u>618</u>	628	10	1.2	0.12	0.10	0.003
71415	628	635	7	1.26	0.18	0.14	0.003
71416	635	642	7	17.92	2.56	1.48	0.003
71417	642	648	6	6.36	1.06	3.58	0.005
71418	648	656	8	12.48	1.56	2.50	0.010
71419	656	663	7	2.03	0.29	0.48	0.005
71420	663	<u>668</u>	5	3.50	0.70	2.53	0.003
70221	786	791	5	43	0.26	0.03	0.003

The weighted average of the section 618' to 668' is Cu 0.895%, Zn 1.51% Ag 0.19 oz/ton, Au 0.004 oz/ton/

50'  
 21'  
 635 - 656 1.75% Cu 2.47% Zn 0.32 Ag 0.0006 Au/ton  
 6.9  
 0.96  
 10.36  
 21.48  
 70.76  
 3.76  
 17.75

D.D.H. 79-S7

Bearing 240°

Dip - 55°

<u>Footage</u>		<u>Description</u>
<u>From</u>	<u>To</u>	
0	- 2	altered vein material qtz. carb.
2	- 50	augite diorite
50	- 52	vein material - mariposite, qtz., albite, shearing and oxidation on fractures
52	- 54	qtz. vein
54	- 56	augite diorite
End of hole		

Assays

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Feet</u> -	<u>oz Au/ton</u>	<u>oz Ag/ton</u>
37835	0	2	2	0.002	Tr. (.01)
37836	52	54	2	0.002	Tr. (.03)
37837	50	52	2	0.005	0.05(.01)

D.D.H. 79-S8

Bearing 240°

Dip - 80°

<u>From</u>	<u>To</u>	<u>Description</u>
0	- 9	casing
9	- 12	gabbro, minor qtz. stringers
12	- 13	minor vein - shearing
13	- 15	gabbro
15	- 17	Qtz. vein, shearing
17	- 38	gabbro, minor faulting at 28', vert mov.
38	- 39	qtz. stringers in gabbro
39	- 47	med. to fine gr. gabbro, qtz. stringers
47	- 48	Basalt dike
48	- 54	coarse gr. gabbro
54	- 56.5	fine gr. gabbro, qtz. stringers
56.5	- 61.5	vein qtz. with gabbro, minor sulph.
61.5	- 66	mixture of qtz. vein and mafic rock
66	- 67.5	gabbro
67.5	- 69.5	qtz. vein
69.5	- 71	gabbro
End of hole		

Samples

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Feet</u>	<u>oz Au/ton</u>	<u>oz Ag/ton</u>
37838	15	17	2	.002	.01
37839	56.5	61.5	5	.002	.01
37840	61.5	66	4.5	.003	.02
37841	67.5	69.5	2	.005	.11

D.D.H. 79-S9

Bearing 270°

Dip - 80°

<u>Footage</u>		<u>Description</u>
<u>From</u>	<u>To</u>	
0	13	casing
13	20	gabbro, minor qtz. stringers
20	22.5	vein - qtz. and sheared wallrock, oxide
22.5	55	gabbro
55	56.5	qtz. vein, mariposite alt.
56.5 -	60	altered and bleached wallrock
60 -	68	gabbro
68 -	74	vein - qtz. with minor sulph., incl. of gabbro
		wall rock, some mariposite
74 -	79	vein - white qtz. minor sulph. free gold
79 -	82	gabbro
82 -	85	vein - minor sulph. blue and white qtz.
85 -	88	gabbro
End of hole		

SAMPLES

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Feet</u>	<u>oz Au/ton</u>	<u>oz Ag/ton</u>
37842	20	22.5	2.5	0.01	0.01
37843	55	58	3	.002	.01
37844	58 -	60	2	0.52	0.14
37845	68	74	6	0.03	0.03
37846	74	79	5	0.035	0.13
37847	82	85	3	0.15	0.09