

JAMES P. ELWELL, P. ENG.  
CONSULTING MINING ENGINEER

PHONE: 682-2120  
RES: 922-2551

1030 - 510 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6B 1L8

September 3, 1979

Carpenter Lake Resources Ltd.  
Lillooet, B. C.

Dear Sirs:

PROGRESS REPORT - DIAMOND  
DRILLING ON WAYSIDE PROPERTY

On August 16th, 1979 I examined the boxes of diamond drill core marked as being from holes 79-S1 and 79-S2 drilled on the Wayside property near Gold Bridge, B. C. This drilling is a continuation of the program started in 1975 to test the mineralization of the Commodore Vein, and to corroborate the high gold values encountered in hole 75-A1. The cores were stored in Lillooet, there being no safe storage at the drill site, but the site was inspected by me on August 17th.

The sections of vein from each core were split, with the sample being submitted to Chemex Labs Ltd. for assay. The detail logs of each hole and the assay results are attached, with the holes being shown in plan on the accompanying maps.

DIAMOND DRILL HOLE LOG

Hole #79-S-1

Bearing <sup>230° R8t</sup> 23°  
Dip -74°

<u>Footage</u>		
<u>From</u>	<u>To</u>	
0	19	casing
19	24	augite diorite
24	34	soda granite, inclusions of augite diorite, minor veins albite
34	35	same as above with minor qtz.
35	50	soda granite, some augite diorite alteration at 38'.
50	60	fine grained greenstone porph. dike
60	82	soda granite, inclusions augite diorite, minor veins albite
82	84	qtz. vein - 50% core rec.
84	86	albite "horse", minor diss. sulph.
86	89	vein material, qtz., mariposite, inclusions soda granite 50% rec.
89	97	soda granite, minor alt. at 96'
end of hole		<i>projected</i>

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Assay</u>	
			<u>Au oz/ton</u>	<u>Ag oz/ton</u>
69513	82	84	0.048	0.02
69514	84	86	0.014	0.70
69515	86	89	1.580	0.54
	Ave. 7'		0.695	

Carpenter Lake Resources Ltd.  
September 4, 1979  
Page Three

CONCLUSIONS

1. The grade and vein width intersected by DDH 79-S1 correlates well with the results of 75-A1.
2. Hole 79-S2 intersected 4.5 feet of vein material about 15 feet along strike to the southeast. The discrepancy in gold values between the two holes indicates the very erratic distribution of gold in this type of vein, and the necessity for a large number of samples at close intervals to provide a realistic evaluation of the vein.
3. The upper tunnels of the mine should be cleaned and systematically sampled, as there is a good possibility that there may be blocks of vein material ignored by the previous operators which at today's gold prices would constitute ore.

Yours truly



J. P. ELWELL, P.Eng.

JPE:ddh

Hole # 75-A1

DIAMOND DRILL HOLE  
LOGBearing 230°  
Dip -74°

<u>Distance Ft.</u>		<u>Description</u>	<u>Sample No.</u>	<u>Footage</u>		<u>Assay Oz. Au./ton</u>
<u>From</u>	<u>To</u>			<u>From</u>	<u>To</u>	
0	17	Casing				
17	22	Augite diorite - broken core				
22	35	Augite diorite, soda granite				
45	52	Fine grained andesite dike, inclusions of soda granite				
52	61.5	Augite granite with quartz stringers				
61.5	64	Andesite dike, minor quartz stringers				
64	66	Augite - numerous qtz. stringers				
66	69	Andesite dike				
69	76	Augite with qtz. stringers - some alteration				
76	83	Silicified augite, vein quartz		76	83	0.955
83	85	Albite dike, quartz				
85	90	Augite diorite, soda granite, qtz. stringers				

End of hole

DIAMOND DRILL HOLE  
LOG

Hole 75-A3

Bearing 215°  
Dip -60°

<u>Distance Ft.</u>		<u>Description</u>	<u>Sample No.</u>	<u>Footage</u>		<u>Assay</u> <u>or Au/ton</u>
<u>From</u>	<u>To</u>			<u>From</u>	<u>To</u>	
0	60	Overburden				
60	86	Augite diorite				
86	129	Serpentinized rock, altered				
129		Hole caved and abandoned				

DIAMOND DRILL HOLE  
LOG

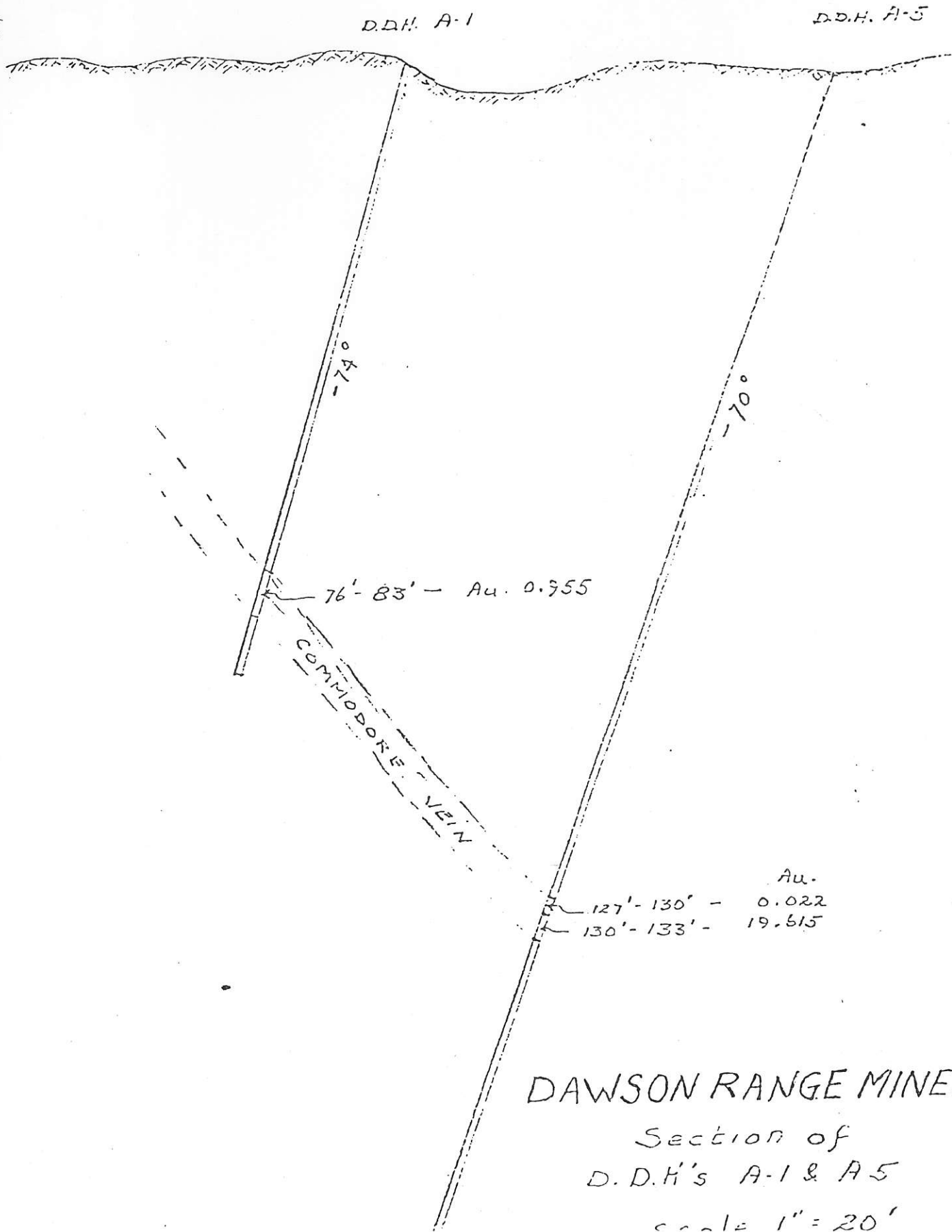
Hole 75-A5

Bearing 220°  
Dip -70°

<u>Footage</u>		<u>Description</u>	<u>Sample No.</u>	<u>Footage</u>		<u>Assay</u> oz Au/ton
<u>From</u>	<u>To</u>			<u>From</u>	<u>To</u>	
0	29	Overburden				
29	31	Soda granite				
31	40	Augite diorite, qtz. veins.				
40	45	Andesite dike				
45	47	Augite diorite				
47	56	Soda granite				
56	63	Fine gr. dikes py.				
63	65	Soda granite				
65	74	Fine gr. dike w. qtz., Py.				
74	97	Augite diorite, qtz. at 83'				
97	101	Andesite dike				
101	127	Augite diorite, bands	13903	127	130	0.022
		soda granite at 101'	13904	130	133	19.615
127	133	Quartz vein				
133	136	Albitite dike				
136	164	Soda granite, rusty at 144'-146'				
164	165	Albitite dike				
165	167	Soda granite, qtz. at 172'				
167	196	Altered augite diorite, qtz.				
196	203	Sand				
203	214	Soft, altered augite diorite				
214	-	End of hole				

— ASSAY? —

? FAULT





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DIAMOND DRILL HOLE LOG

Hole #79-S-1

Bearing  $23^{\circ}$  *230° R81*  
Dip  $-74^{\circ}$

Footage		
From	To	
0	19	casing
19	24	augite diorite
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34	35	same as above with minor qtz.
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60	82	soda granite, inclusions augite diorite, minor veins albite
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86	89	vein material, qtz., mariposite, inclusions soda granite 50% rec.
89	97	soda granite, minor alt. at 96'
end of hole		

Sample No.	From	To	Assay	
			Au oz/ton	Ag oz/ton
69513	82	84	0.048	0.02
69514	84	86	0.014	0.70
69515	86	89	1.580	0.54
	Ave. 7'		0.695	



D.D.H. 79-52

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	4x 1.5' sec'd	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		

216-220 = .012 oz/T.

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

APPENDIX 1. GEOLOGIC CORE LOGS

Drill Hole 83-B-1

Collar location: Commodore vein, 60 metres south 60 degrees east of  
portal of Commodore adit, near collar of D.H. 75-A-1

Bearing - due West

Inclination - -55 degrees

Length - 32.3 metres

Core size - BQ

Core recovery - 94.4%

Begun: December 15, 1983

Completed: December 16, 1983

Logged and sampled by E. Ostensoe

From (metres)	To	Description
0	4.37	Overburden
4.37	5.79	White crystalline sodic granite - mostly comprised of white feldspar with traces of pale green sericite and fine grained pyrite. Cut by fractures with white feldspar (albite?) and by black chloritic shears.
5.79	9.14	3 cm of epidotic alteration transitional to coarse grained mafic diorite - augite, in part altered to hornblende. Rock is 50% mafic minerals. Occasional veinlets of feldspar 2 to 5 cm wide.
9.14	9.30	Dull yellow-green coloured alteration.
9.30	10.50	Mixture of white vein quartz and diorite, minor amounts (3%) of fine grained brown biotite. Core is very broken: recovery is about 33%.
10.50	11.28	Dense greenish coloured clayey alteration with mariposite. Appearance is mottled. About 1/2% pyrite.
11.28	32.30	Coarse grained augite diorite with 50 - 60% mafic minerals, numerous thin seams of white feldspar. Gabbroic appearance. Rock is weakly foliated and is serpentinous where sheared. From 15.79 to 17.68 rock is finer grained and may be a partially absorbed dyke or a xenolith. From 17.68 to 18.29 rock is strongly albitized and is in part strongly sheared parallel to core axis. From 27.28 to 27.73 rock is dense, dark green, fine grained - altered andesite dyke From 27.73 to 28.13 very fine grained pale green epidotic and clayey

Drill Hole 83-B-2

Collar location: Commodore vein, 78 metres south 80 degrees east of  
portal of Commodore adit  
Bearing: 240 degrees azimuth  
Inclination: -55 degrees  
Length: 35.3 metres  
Core size: BQ  
Core recovery: 96.5%

Begun: December 18, 1983  
Completed: December 20, 1983

Logged and sampled by E. Ostensoe

From (metres)	To	Description
0	9.75	Overburden
9.75	25.30	Gabbroic diorite with acidic intrusive phases. Numerous short sections of pale green alteration and veinlets of albite and quartz. Few calcite veins up to 4 cm wide. Section of very siliceous granite with brown biotite flakes from 17.07 to 18.10 metres and feldspar porphyry dyke from 22.5 to 23.5
25.30	30.78	At 25.30 sharply defined contact between gabbroic diorite and leucocratic granite with fine grained brown coloured biotite. From 29.70 increased amount of vein quartz, appearance of pyrite, traces of arsenopyrite
30.78	31.09	Fine grained grey rhyolite with calcite on fractures and light green clay-like alteration.
31.09	31.70	Strongly brecciated mixture of augite diorite and siliceous gougy sheared rock
31.70	35.30	Mixed gabbroic and siliceous phases gradational into very dark green gabbro

Drill Hole 83-B-3

Collar location: Commodore vein, 79 metres south 80 degrees east of  
portal of Commodore adit  
Bearing: 225 degrees azimuth  
Inclination: -75 degrees  
Length: 43.9 metres  
Core size: BQ

Sample No.	From	To	Width	From	To	Width	Gold	Silver	Rec
	(feet)			(meters)			(oz. per ton)		
<b>838-1</b>									
<u>DH 1</u>									
45279	30.0	34.5	4.5	9.14	10.50	1.36	.005	.01	33
45280	34.5	37	2.5	10.50	11.28	0.78	<.003	.01	8'
45281	91	95	4	27.73	28.95	1.22	.003	.04	100
<b>838-2</b>									
<u>DH 2</u>									
45282	97.5	100	2.5	29.72	30.48	0.76	.014	.12	66
45283	100	103	3	30.48	31.39	0.91	.010	.13	66
<u>Sludge Samples</u>									
<u>DH 2</u>									
8382 1	97	101	4	29.56	30.78	1.22	.064	.18	
2	101	106	5	30.78	32.31	1.52	.014	.12	
3	106	111	5	32.31	33.83	1.52	.012	.05	
4	111	116	5	33.83	35.35	1.52	.003	.01	
<b>8383</b>									
<u>DH 3</u>									
45284	123	126	3	37.49	38.40	0.91	<.003	.01	90
45285	126	127	1	38.40	38.71	0.31	<.003	.02	60
45286	127	128	1	38.71	39.01	0.31	<.003	.01	80
45287	128	129	1	39.01	39.32	0.31	.018	.01	100
45288	129	133	4	39.32	40.54	1.22	<.003	.01	95
<u>Sludge Samples</u>									
<u>DH 3</u>									
8383 1	106	111	5	32.31	33.83	1.52	<.003	.02	
2	111	113	2	33.83	34.44	0.61	<.003	.01	
3	113	114	1	34.44	34.75	0.31	<.003	.02	
4	114	116	2	34.75	35.35	0.60	<.003	.01	
5	116	121	5	35.35	36.88	1.53	<.003	.01	
6	121	126	5	36.88	38.40	1.52	<.003	.02	
7	126	127	1	38.40	38.71	0.31	.016	.06	
8	127	128	1	38.71	39.01	0.30	.016	.06	
9	128	129	1	39.01	39.32	0.31	.022	.04	
10	129	133	4	39.32	40.54	1.22	<.003	.04	
11	133	138	5	40.54	42.06	1.52	<.003	.02	
12	138	141	3	42.06	42.97	0.91	<.003	.01	

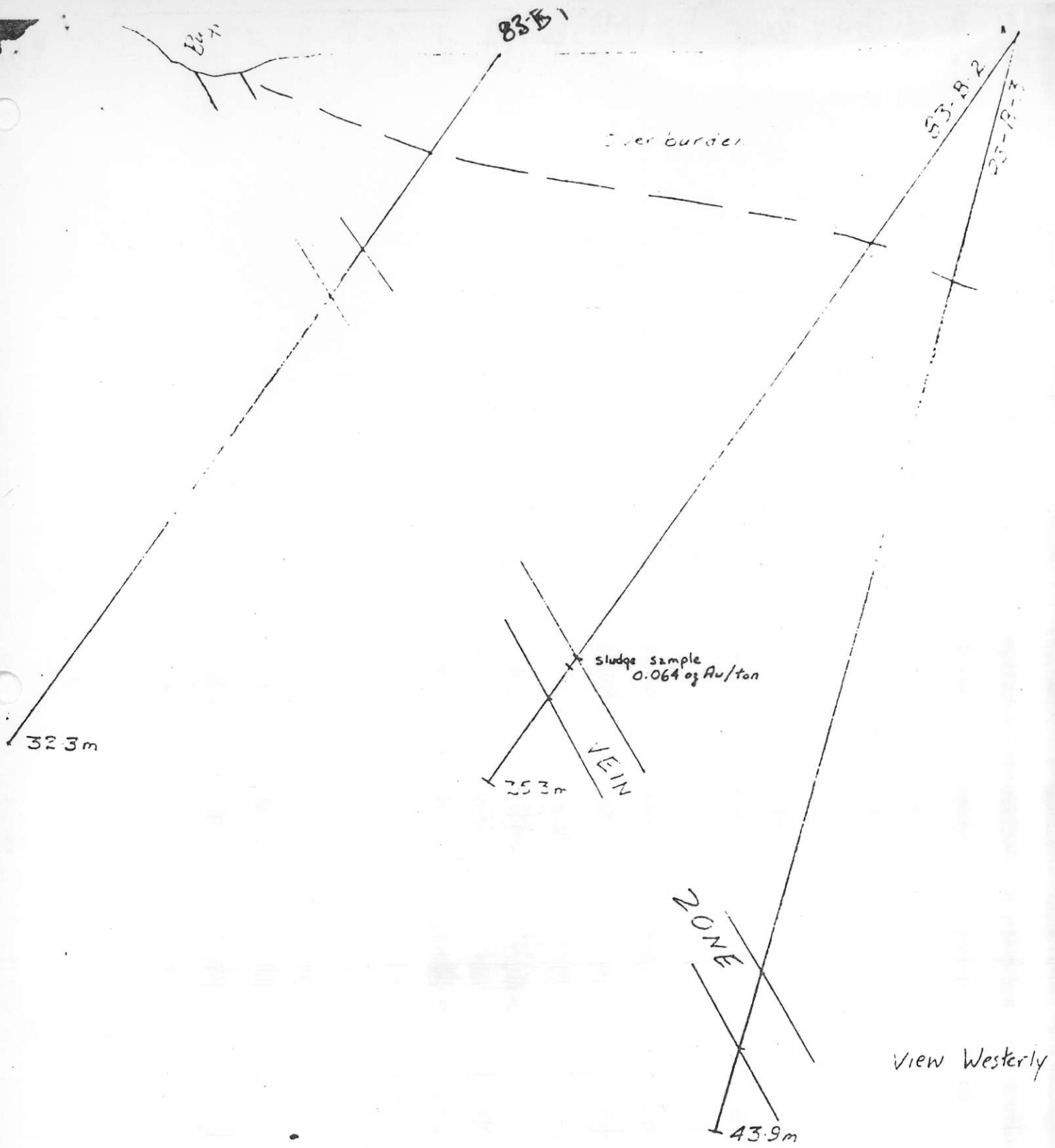


Begun: December 22, 1983  
Completed: December 23, 1983

Logged and sampled by E. Ostensoe

From To  
(metres)

0	9.14	Overburden
9.14	14.32	Augite diorite
14.32	15.24	Sodic granite
15.24	20.42	Augite diorite
20.42	22.40	Fine grained, altered andesite dyke with 12 cm calcite vein
22.40	23.16	Augite diorite
23.16	24.01	Andesite, similar to above
24.01	27.00	Sodic granite
27.00	29.10	Varied medium grained augite gradational to andesite
29.10	37.49	Dark green diorite with few albite veinlets
37.49	40.54	Vein quartz with carbonate and much albitic alteration, narrow graphitic gouge sections, some may be sheared sulphide mineralization
40.54	43.90	Dark green augite diorite with few albite and quartz stringers



December 1983 Drill Holes  
 COMMODORE VEIN  
 WAYSIDE PROPERTY  
 BRIDGE RIVER MINING DISTRICT  
 GOLD BRIDGE, B.C.  
 Scale 1:200