

MINNOVA

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MEMORANDUM

DATE: June 1, 1990
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 DE FROM: G. S. Wells
 SUBJECT: Progress Report - Vancouver Island/Coast Projects - May, 1990

1. Mt. Sicker PN 205

Highlights:

NE Copper Area

1. MTS-88 py-cp stringers enriched in Au:
 30.3 g/T Au over 0.35 m
 7.56 g/T Au over 0.3 m
2. pyritic exhalite and semi-massive sulphides in MTS-89, 90:
 MTS-89: 0.51% Cu over 3.3 m
 MTS-90: 0.60% Cu over 0.45 m
3. chert horizon MTS-93 anomalous Au, Cu:
 0.31% Cu, 1800 ppb Au over 0.75 m

The spring drill program on Mt. Sicker was completed in May. Six holes were drilled for a monthly total of 734.9 m (YTD: 2394 m - 14 holes). Assays from previous drilling and a summary of the details and highlights of May's drilling are included in the attached table.

Assays have been received from holes MTS-88 and 89 which were drilled in the Northeast Copper area last month. The chalcopyrite-pyrite stringer zones have anomalous copper content (MTS-88: 0.10% Cu over 11.0 m; MTS-89: 0.10% Cu over 5.35 m) and are locally enriched in gold. One thin (0.35 m) pyritic zone in MTS-88 has gold contents varying between 30.3 and 61.0 g/T Au. The pyritic exhalite intersected in MTS-89 assayed 0.51% Cu over 3.3m.

In May, four drill holes tested the extent of the MTS-88,89 mineralization and DEEPEM/geochemical anomalies. Holes MTS-90 and 93 intersected the same sequence, hole MTS-91 collared in the footwall QP tuffs and hole MTS-92 was entirely in diorite. The stringer zones in MTS-90 and 93 have anomalous copper contents (MTS-90: 0.11% Cu over 11.35 m; MTS-93: 0.47% Cu over 3.05 m). A thin semi-massive pyrite zone in MTS-90 which assayed 0.60% Cu over 0.45 m is thought to correlate with the pyritic exhalite in MTS-89. Hole MTS-93 intersected a thin chert horizon which has anomalous copper and gold values (0.31% Cu, 1800 ppb Au over 0.75 m).

Although there is abundant copper and gold noise in the Northeast Copper area, it appears that the shallow potential is somewhat limited. A plug-like diorite intrusion which was intersected in MTS-92 and at the bottom of all other holes cuts off the mineralization to the north. Some deep drilling will be required to follow-up the NE Copper mineralization to the north of the diorite.

Two holes, MTS-94 and MTS-95, attempted to test the NE Copper sequence in the vicinity of the Fortuna adit. Unfortunately both holes had to be abandoned due to the presence of a major fault zone (Fortuna fault).

2. Lara Project PN 242

Highlights:

262 Intersections:

90-272:	2.37% Cu over 0.71 m = semi-massive pyritic/cherts
90-276:	1.45% Cu over 1.68 m = semi-massive pyrite/pyritic ash
90-286:	pyritic cherts, ashes (10% py, tr cp) over 8.3 m
90-288:	pyritic cherts, ashes (10% py, tr cp) over 16.3 m.

Drilling on the Lara property continued in May with two machines. Seventeen (17) holes were completed for a monthly total of 3732.4 m (YTD: 4099.3, 19 holes). Drilling details and results are summarized in the attached table and figures.

The bulk of the drilling concentrated on evaluating the CZ felsic package in the vicinity of the Road showing. Eleven widely spaced holes tested the felsic sequence and most of them intersected zones of weak zinc mineralization. Assays are still awaited for most of the drilling but the best result to date is associated with a thin sphalerite zone that occurs at the contact between QFP tuffs and sericitic felsic ashes in hole 90-275. This mineralization assayed 0.36% Cu, 1.0% Pb, 1.63% Zn, 20.8 g/T Ag and 0.37 g/T Au over 0.3 m.

Holes 90-278, 280 and 282 intersected weak zinc mineralization that is thought to occur in a structurally lower felsic sequence than the CZ felsics. This would imply a north-northeasterly trending fault to the east of the Road showing which would have left lateral movement. The significance of this new mineralized zone will be evaluated by drilling planned to the east of Humbird Creek.

The remaining six holes drilled in May tested the 262 felsic sequence. All holes intersected an intensely altered felsic ash, crystal and lapilli tuff package. A zone of semi-massive pyrite, pyritic chert and ash was intersected in hole 90-276. It assayed 1.45% Cu over 1.68 m. In addition, holes 90-286 and 90-288 intersected wide zones of cherty and pyritic ash. The pyrite in these zones is very fine grained and well layered both of which are characteristic of distal exhalites. The presence of good hydrothermal alteration, pyritic exhalites and three massive sulphide intersections with anomalous copper values (262: 1.4% Cu over 1.14 m; 272: 2.37% Cu over 0.7 m; 276: 1.45% Cu over 1.68 m) suggests that the 262 felsics could host a VMS deposit. Additional drilling will test this sequence this spring and again during our fall program.

A soil survey is being carried out over well-defined IP anomalies (chargeability: 30-40 msec) located at the eastern end of the Lara property and immediately north of our Canamera option. Preliminary results indicate an superb Cu-Zn anomaly (300 - 500 ppm) which is coincident with the IP anomaly. This excellent target will be drilled early in June.

3. Fleck - Britannia PN 614

A budget proposal was prepared for the Britannia project and will be submitted to Fleck Resources early in June. The bulk of the \$360,000 budget will be used to drill VMS targets in the Furry Creek valley. Drilling will test the Watershed alteration zone and sulphide muds, geochemical anomalies and anhydrite alteration in the Cyrtina Creek area and VLF-Mag-geochem targets elsewhere in the valley. We hope to start drilling around July 15th.

Lara and Mt. Sicker Drilling

Results from April Drilling

<u>Hole</u>	<u>Location</u>	<u>Mineralization</u>
1. <u>Lara</u>		
90-272	160 m east of 89-262	57.0-59.05: 0.92% Cu, 2.99 ppm Ag over 2.05 m = <u>262 Zone</u> includes: 2.37% Cu, 158 ppm Zn, 6.4 ppm Ag, 170 ppb Au over 0.71 m = semi-massive py- cp
2. <u>Mt. Sicker</u>		
MTS-84	Postuk-Fulton zone	196.50-199.30: 885 ppm Cu, 0.35% Zn over 2.8 m
MTS-88	NE Copper	31.10-42.10: 0.10% Cu over 11.0 m - py-cp stringer zone in andesite ash 42.1-43.6: 0.08% Cu, 1.6 g/T Au over 1.5 m - py- cp stringers 48.60-50.85: 0.11% Cu, 600 ppb Au over 2.25 m - py-cp stringers in chloritic andesite ash 111.45-111.8: 30.3 g/T Au over 0.35 m - 5% diss. py in Felsic Tuff (different splits have assayed up to 61 g/T Au) 168.95-169.25: 7.56 g/T Au over 0.3 m - chlorite-py stringer in Felsic Tuff
MTS-89	NE Copper	20.65-26.0: 0.10% Cu over 5.35 m - py-cp stringers in chloritic andesite ash 26.0-29.3: 0.51% Cu over 3.3 m - semi-massive sulphides, chert, pyritic ash = exhalite 102.0-108.0: 476 ppm Zn over 6.0 m - disseminated sph. in QP Lithic Tuff

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MT. SICKER DRILLING - MAY 1990

Hole #	Location	Collar			Final Depth	Significant Results	
		Elev.	Azimuth	Dip			
MTS-90	24+00E; 1+20S	548 m	200	-50	147.5 m	11.1-11.55	0.60% Cu, 375 ppm Zn, 98 ppb Au over 0.45 m -semi-massive sulphides = equivalent to exhalite in MTS-89
						11.55-22.90	.11% Cu over 11.35 m - py-cp stringers in strongly chloritic ash
						30.85-31.7	1.92% Cu, .11% Zn over 0.85 m - qtz-py-cp stringer in Felsic Tuff
						33.45-34.1	1.68% Cu, .07% Zn over 0.65 m - py-cp stringers in Felsic Tuff
						22.9-28.0	chert, tr py - awaiting assays
MTS-91	26+00E; 1+96S	540 m	200	-45	122.2 m		no significant sulphides - collared in footwall QP Tuffs
MTS-92	25+00E; 1+13S	535 m	0	-90	172.5 m		no significant mineralization - diorite to north of NE Cu plug-like rather than flat lying sheet
						88.0-88.5	0.48% Cu, 289 ppb Au over 0.5 m - qtz-cp vein in diorite
						106.05-106.35	0.54% Cu, 268 ppb Au over 0.3 m - qtz-cp vein in diorite
MTS-93	23+30E; 0+70S	542 m	211	-44	72.1 m	27.7-30.75	0.47% Cu, 274 ppm Zn over 3.05 m - py-cp stringers in chloritic ash
						39.9-40.65	0.31% Cu, 1900 ppb Au over 0.75 m = chert horizon
MTS-94	18+00E; 0+70N	530 m	180	-70	85.9 m		hole abandoned in Fortuna fault
MTS-95	15+38E; 0+50N	544 m	190	-45	134.7 m		hole abandoned in fault before target area
			Monthly Total		734.9 m		
			YTD Total		2394 m 14 holes		

LARA DRILLING - MAY 1990

Hole #	Location	Collar			Final Depth	Significant Results
		Elev.	Azimuth	Dip		
90-273 (P-18)	83+50W; 106+54N	648 m	208	-50	197.2 m	95.8-96.3 Argillite = CZ horizon
90-274 (P-17)	83+00W; 108+80N	675 m	208	-70	425.8 m	36.9-95.4 pyritic (2-5%) Felsic Ash and Chert (262 Felsics) no significant assays
90-275 (P-16)	81+60W; 106+84N	660 m	208	-60	175.9 m	101.40-101.70 0.36% Cu, 1.0% Pb, 1.63% Zn, 20.8 g/T Ag; 0.37 g/T Au over 0.3 m = sphalerite zone at contact between QFP Tuff and sericite F Ash (CZ Felsics)
						101.7-109.66 906 ppm Zn over 7.96 m
						139.1-140.65 730 ppm Zn, 1400 ppb Au over 1.55 m (sph stringers in sheared FP Tufts)
90-276 (P-15)	81+00W; 109+30W	722 m	208	-75	193.5 m	69.0-71.06 556 ppm Zn over 2.06 m: stringers in Felsic Lapilli Tuff
						87.0-100.0 404 ppm Cu, 118 ppm Zn over 13.0 m: stringers in Felsic Lapilli Tuff
						130.2-136.1 424 ppm Cu, 98 ppm Zn over 5.95 m: stringers in Felsic Ash Tuff
						140.66-142.34 1.44% Cu, 373 ppm Pb, 378 ppm Zn, 4.28 ppm Ag, 141 ppb Au over 1.68 m = semi-massive py associated with pyritic ash (262 Zone)

Hole #	Location	Collar			Final Depth	Significant Results
		Elev.	Azimuth	Dip		
90-277 (P-15)	81+00W; 108+30N	690 m	208	-55	252.1 m	107.24-110.64 0.23% Cu, 131 ppm Zn over 3.41 m = stringers in Andesite Tuff 227.69-235.65 572 ppm Zn over 7.96 m: tr. cp, sph in fragments in Felsic Lapilli Tuff (CZ felsics)
90-278 (P-9)	69+00W; 108+67N	684 m	208	-45	163.7 m	54.85-61.3 374 ppm Zn over 6.45 m: 2-3% py, tr. sph in Felsic Ash
90-279 (P-14)	77+45W; 107+40N	695 m	208	-52	178.9 m	94.4-96.4 5-7% py, tr. -1% sph, cp, tr. galena in fragmented felsic lower contact = diorite (CZ Felsics)
90-280 (P-8)	68+00W; 109+27N	675 m	208	-55	148.4 m	86.75-93.57 239 ppm Cu, 577 ppm Zn 53 ppb Au over 6.82 m: 2-3% py, tr. sph in Felsic Tuff includes 93.37-93.57: .19% Cu, .12% Pb, .62% Zn, 273 ppb Au over 0.20 m = contact zone between Felsic Tuff and Intermediate Tuff
90-281 (P-13)	77+00W; 108+50N	720 m	208	-62	291.7 m	188.57-189.20 245 ppm Cu, 620 ppb Pb, 0.54% Zn over 0.63 m; 2-3% py, 1% sph in QP Tuff 218.90-224.70 104 ppm Pb, 492 ppm Zn, 60 ppb Au over 5.80 m: 1-3% py, tr. -1% sph in Felsic Lap Tuff: (CZ Felsics) 245.0-257.3 F. Lithic Tuff with local abundant arsenopyrite? stibnite? <i>between 248.40 + 255.02 m 1.09% As</i>
90-282 (P-7)	67+00W; 109+10N	661 m	208	-45	93.6 m	74.75-74.95 3-4% sph, 2-3% py, tr. cp in siliceous zone at contact with I Tuff (CZ Felsics?) <i>1.15% Zn, 0.19% Pb, 0.07% Cu, 5.6 g/TAg</i> 84.6-84.7 3-4% sph in narrow siliceous zone in F Tuff

Hole #	Location	Collar			Final Depth	Significant Results
		Elev.	Azimuth	Dip		
90-283	72+00W; 110+90N	716 m	208	-61	348.4 m	304.32-304.65 1% Zn 0.11% Cu 0.09% Pb 9.7g T Ag 1-2% sph, tr. cp, felsic Lapilli Tuff 324.5-327.4 mineralized fragments tr. sph in felsic Lap Tuffs (CZ felsics) 303 ppm Zn 70 ppm Cu 147 ppm Pb 95 g/T Ag
90-284 (P-12)	76+00W; 107+59N	699 m	208	-70	212.5 m	114.9-116.5 2-3% py, tr.-1% sph, tr. cp, galena (CZ felsics) 0.02% Cu 0.02% Pb 0.18% Zn 2.36g T Ag 0.22g Ba
90-285 (P-11)	74+00W; 109+46N	716 m	208	-70	335.6 m	272.0-284.56 tr. sph, cp, galena over 12.56 m (CZ felsics) 87 ppm Cu 51 ppm Pb 509 ppm Zn 0.87 ppm Ag 43 ppb Au 1928 ppm Ba
90-286 (P-23)	74+00W; 111+11N	730 m	208	-75	175.6 m	39.7-43.2 chert, silicified felsic ash 56.9-61.85 chert, silicified felsic ash 94.3-102.6 pyritic cherts, ashes 5-10% py, tr. cp (262 felsics) 94.30-102.40 → 367 ppm Cu 25 ppm Pb 84 ppm Zn 1.29 ppm Ag 9 ppb Au 94.30-97.80 811 ppm Cu, 10 ppm Pb 84 ppm Zn 1.74 ppm Ag 14 ppb Au
90-287 (P-6)	66+33W; 113+46N	711 m	208	-55	172.5 m	117.5-128.9 1-5% py stringers, tr. cp in felsic tuff (262 felsics) 117.15-128.90 196 ppm Cu, 24 ppm Pb 83 ppm Zn .96 ppm Ag 5.61 ppb Au 163.20-169.92 665 ppm Cu 24 ppm Pb 81 ppm Zn .95 ppm Ag 5.00 ppb Au
90-288 (P-22)	76+00W; 110+74N	739 m	208	-75	191.1 m	108.9-125.2 pyritic ash, chert (10% v.f.g py, tr. cp) 117.90-125.20 → 880 ppm Cu; 108.90-115.60 → 645 ppm Cu 17 ppm Pb 138 ppm Zn 1.06 ppm Ag 10.70 ppb Au 25 ppm Pb 330 ppm Zn 0.99 ppm Ag 147.65-151.85 pyritic ash, chert (3-7% py) (262 felsics) 6.51 ppb Au 151.85-157.40 → 782 ppm Cu 31 ppm Pb 147.65 ppm Zn 1.22 ppm Ag 15.23 ppb Au 147.60-151.85 → 206 ppm Cu 22 ppm Pb 144 ppm Zn 0.51 ppm Ag 4.42 ppb Au
90-289 (P-25)	67+00W; 110+24N	668 m	208	-60	175.9 m	no significant mineralization (CZ felsics)
Monthly Total:					3732.4 m	17 holes
YTD Total:					4099.3 m	19 holes



