826362

Summary of Exploration Work 1987-1989

Canamera Option

PN 226

Victoria Mining Division

NTS 92B/13W

Minnova Inc.
Vancouver, B.C.

G. S. Wells
February 15, 1990

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Summary of Exploration Work 1987 - 1989
Canamera Option PN 226

1. Introduction

Minnova acquired an option on the Canamera property in June, 1986 to evaluate the strike extent of the Coronation Zone. This report summarizes the results of Minnova's exploration work on the property up until the end of 1989.

A. Location and Access

The Canamera claims are located on southern Vancouver Island, 12 km northwest of Duncan. The six claim property occurs midway between Minnova's Mt. Sicker and Lara properties (Figure 1). Access to the property is excellent using MacMillan Bloedel's Chemainus River logging road which intersects Highway 1 at Chemainus.

B. Property Status

The property consists of three reverted crown grants and three 2-post claims. Specific details for each claim are presented below:

Copper Canyon Group

Claim Name	Record No.	No. of Units	Expiry Date
Copper Canyon	1113	1	Nov. 17, 1997
Victoria	1114	1	Nov. 17, 1997
Elmore Fraction	1115	1	Nov. 24, 1997
Copper Mint No. 1	17566	1	Aug. 8, 1998
Copper Mint No. 2	17567	1	Aug. 8, 1998
Copper Mint No. 3	17568	1	Aug. 8, 1998

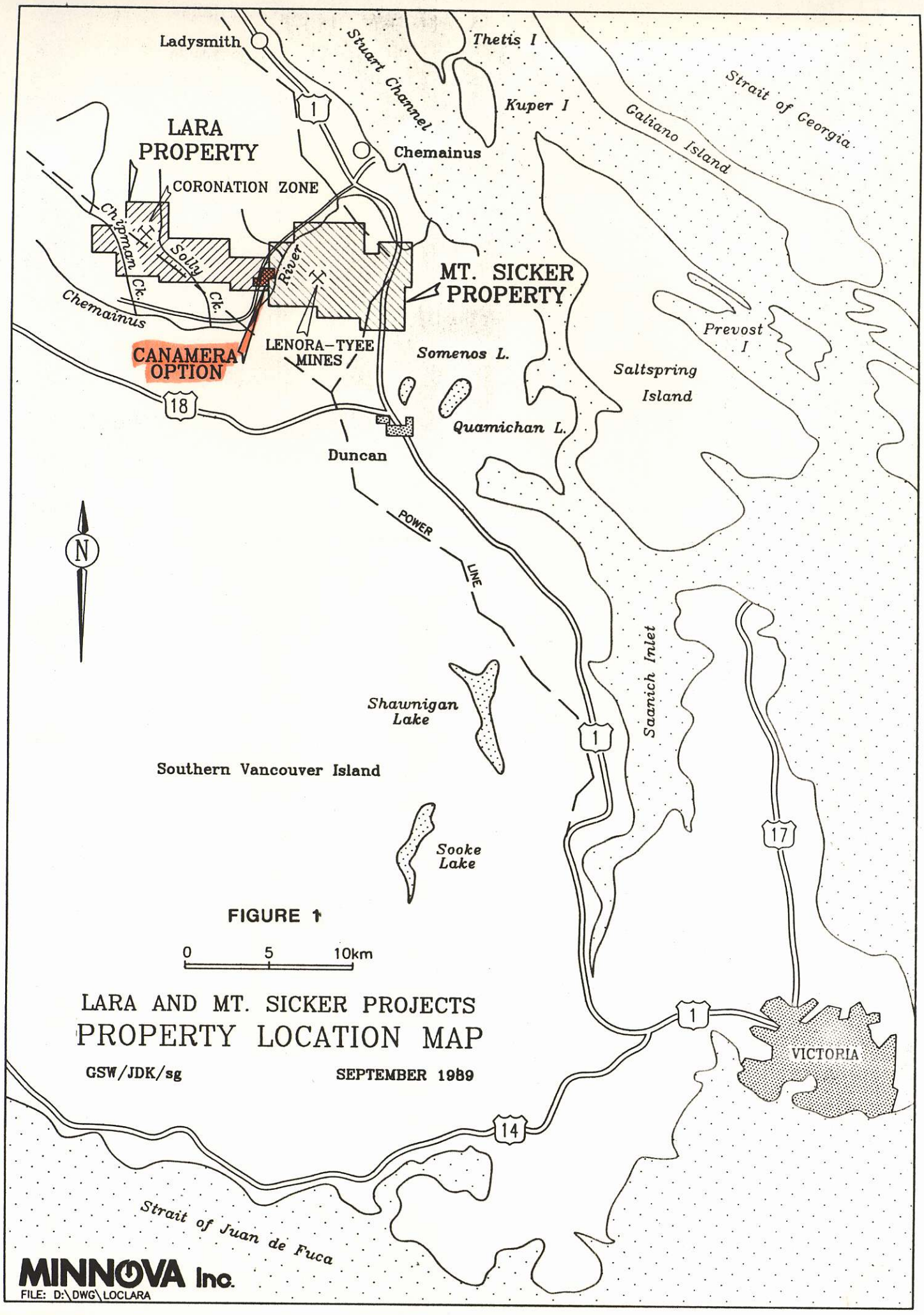

FIGURE 1

0 5 10km

LARA AND MT. SICKER PROJECTS

PROPERTY LOCATION MAP

GSW/JDK/sg SEPTEMBER 1989

MINNOVA Inc.

FILE: D:\DWG\LOCLARA

C. Previous Work

Initial work was done on the claims following the discovery of the Lenora-Tyee ore-bodies in 1897. Pits and adits were driven on two showings - the Copper Canyon showing located on the western side of the Chemainus River and the Victoria showing located in the center of the Victoria claim. The latter occurrence is reported to have yielded 120 tons of ore grading 4% Cu and 79 tons grading 0.05 oz/T Au. Little work was done on the property between the turn of the century and 1970 when it was acquired by a group of people who subsequently formed Viva Ventures. Between 1971 and 1973 they carried out soil geochemical, geological and geophysical surveys (JEM, VLF, magneties, IP, seismic, gravity, SP). Umex acquired the property in 1979 and they conducted soil sampling, VLF and magnetic surveys. Canamera optioned the claims in 1985 and they did linecutting, a limited amount of IP, soil sampling, a "Genie" EM survey, three trenehes and five diamond drill holes totalling 670 m. No significant zones of mineralization were located.

In June 1986 Canamera and Minnova Inc. entered into a joint venture agreement to explore the property with Minnova as the operator.

D. Regional Geology

The Canamera property is located in the Cowichan-Horne Lake uplift which is one of three fault - bounded areas that expose the Paleozoic Sicker Group on Vancouver Island. Müller (1980) subdivided the Sicker Group, as follows, in order of increasing age:

1. Buttle Lake Formation - consists of recrystallized crinoidal limestone interbedded with calcareous siltstone and chert.

2. Sediment - Sill Unit - thinly bedded to massive argillite, siltstone and chert interlayered with diabase sills.

3. Myra Formation - basic to rhyodacitic banded tuff breccia and lava with interbedded argillite, siltstone and chert.

4. Nitinat Formation - basaltic lavas and agglomerates with minor to massive banded tuff layers.

Recent mapping by Massey (1988) has resulted in the following revised nomenclature and stratigraphy of the Sicker Group.

Müller (1980)	Massey (1988)
Buttle Lake Formation	Mount Mark Formation
Sediment - Sill Unit	Fourth Lake Formation
Myra Formation	McLaughlin Ridge Formation
Nitinat Formation	Nitinat Formation

Cretaceous sediments of the Nanaimo Group unconformably overly the Sicker Group. The contact is commonly marked by a basal conglomerate containing volcanic fragments derived from the Sicker Group.

The structure of the Sicker Group is characterized by southwest verging, asymmetric and vertical, open and isoclinal folds. (Müller, 1980). West-northwest and northeast trending faults dissect the Sicker group in the Cowichan-Horne Lake uplift into a number of fault blocks. Movement along these faults is interpreted to have been mostly Tertiary in age.

The Sicker volcanics have been the focus for mineral exploration because they host polymetallic volcanogenic massive sulphide deposits. Westmin's H-W (15.0 mT @ 2.2% Cu, 0.3% Pb; 5.3% Zn; 38 g/T Ag; 2.4 g/T Au) and Myra-Lynx-Price orebodies (6.0 mT @ 1.5% Cu; 1.0% Pb; 7.6% Zn; 106 g/T Ag, 2.0 g/T Au) occur in the Buttle Lake uplift of Sicker volcanics. The Cowichan-Horne uplift hosts the former Lenora-Tyee mines (300,000 tons @ 3.3% Cu, 7.5% Zn, 94 g/T Ag, 4.5 g/T Au) and the recently discovered Coronation

Zone (583,000 tons @ 1.01% Cu, 1.22% Pb; 5.87% Zn; 100 g/T Ag; 4.7 g/T Au). The other major exploration play in the Sicker volcanics is the Debbie project located in the Port Alberni area. Gold mineralization is associated with Tertiary structures that crosscut the Sicker stratigraphy.

2. Work Done

Since acquiring the property, Minnova has completed the following work on the Canamera property:

1. 15 diamond drill holes totalling 2622.2 meters
2. 10.6 km of MAG-VLF surveys
3. Geological, litho and soil geochemical surveys

3. Results

A. Diamond Drilling

A diamond drill program was carried out in each of the three years that Minnova has had the property. Location of the holes is given in Figures 2 and 3. Drilling details and significant results are presented in Table 1 and a complete set of drill logs is included in Appendix I. These drill holes tested the extent of known zones of mineralization on the property and VLF-IP anomalies.

Five holes (CM-4, 5, 6, 12, 13) tested the extent of zinc stringers intersected previously in Canamera hole 85-3. No significant mineralization was encountered but an argillite horizon that was found in each hole is interpreted to correlate with the argillite that occurs in the footwall to the Coronation Zone. In hole CM-5, the argillite is 16.2 meters thick but in holes down dip and along strike it is substantially thinner and generally less than 1.0 meters thick. No massive sulphide are associated with this horizon.

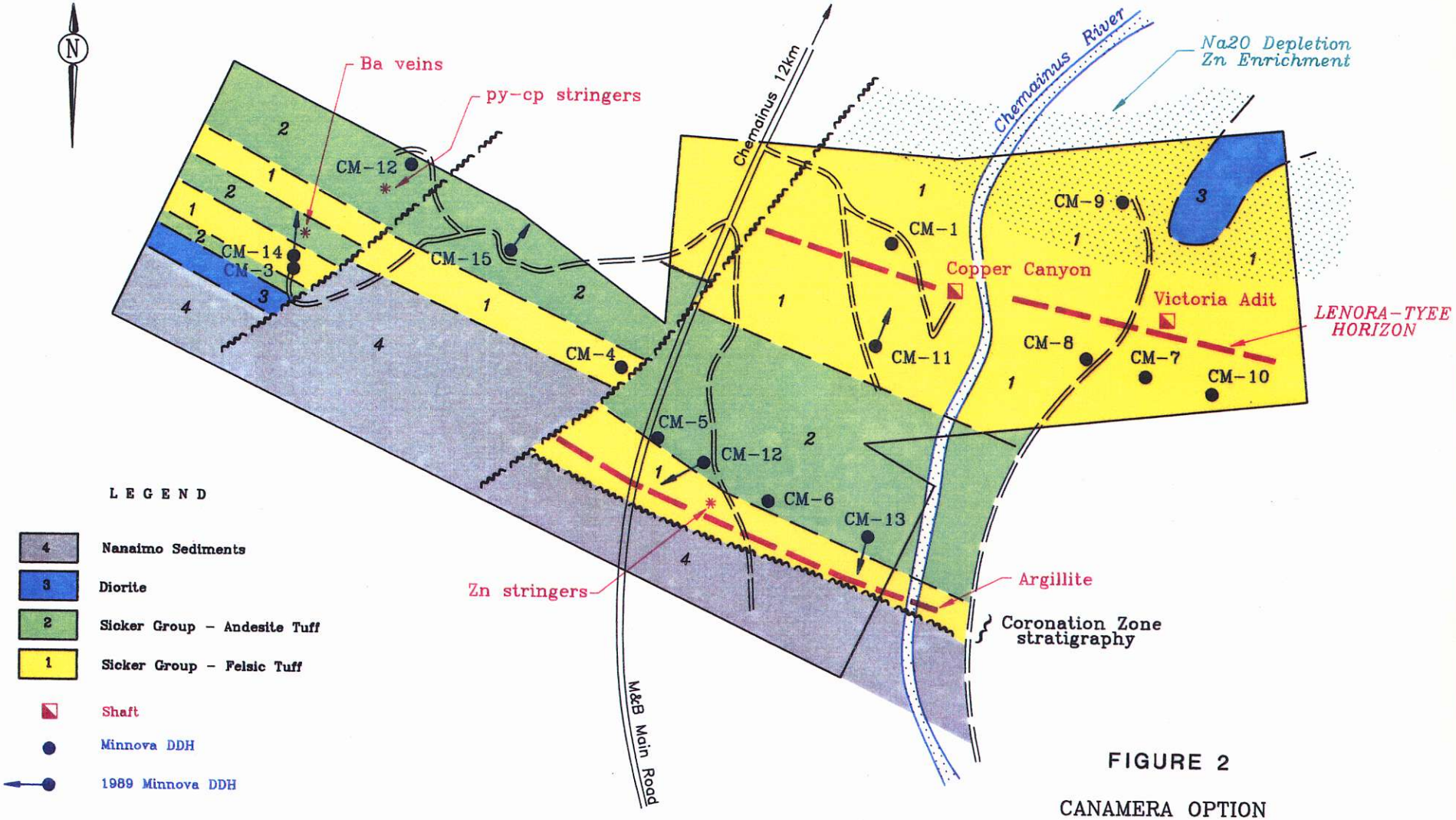

FIGURE 2

CANAMERA OPTION

GENERALIZED GEOLOGY & 1989 DRILLING

MINNOVA Inc.

FILE: D:\DWG\CANN

0 250 500m

SCALE: 1:10,000

GSW/sg NTS 92B/13 SEPTEMBER 1989

Table 1: Summary of Diamond Drilling Results – Canamera Project PN 226

Hole #	Location*	Elev.	Azimuth	Collar Dip	Final Depth	Significant Results	Comments
1. 1987							
CM–1	18+87W; 4+96S	178	210	–45	175.6 m	87.1–92.4: 30 ppm Cu, 25 ppm Zn, 1 ppm Ag over 5.3 m	py stringer zone
CM–2	27+62W; 4+04S	387	210	–45	193.8 m	no significant results	
CM–3	29+54W; 5+88S	407	210	–45	114.0 m	no significant results	
CM–4	23+56W; 7+32S	217	186	–50	312.7 m (94.4 m drilling)	272.35–272.70: cherty argillite; no significant values	deepening of hole 86–5
CM–5	22+85W; 8+52S	195	210	–45	147.8 m	102.9–119.0: cherty argillite, no significant values	
CM–6	20+80W; 9+56S	170	210	–45	166.4 m	108.2–108.25: argillite; no significant values	
				subtotal	892.0 m		
2. 1988							
CM–7	14+48W; 7+00S	235	020	–45	194.8 m	111.2–111.9: 0.33% Cu over 0.7 m	py–cp stringer
CM–8	15+52W; 6+68S	202	020	–45	227.1 m	131.3–131.7: 0.33% Cu, 0.26% Zn over 0.4 m	pyritic felsic tuff
CM–9	14+96W; 4+40S	209	020	–45	150.9 m	no significant results	
CM–10	13+20W; 7+40S	252	020	–45	190.7 m	118.9–120.3: 64 ppm Cu, 355 ppm Zn over 1.4 m	pyritic mud/chert
				subtotal	763.5 m		

Table 1: Summary of Diamond Drilling Results – Canamera Project PN 226

Hole #	Location*	Elev.	Azimuth	Collar Dip	Final Depth	Significant Results	Comments
3. 1989							
CM-11	18+98W; 7+14S	160	030	-45	227.1 m	181.0-191.4: intermediate ashes, cherts, 1% py, no significant values	
CM-12	21+98W; 8+76S	182.5	240	-60	303.0 m	281.45-282.1: cherty argillite; no significant results	
CM-13	19+38W; 10+35S	150	210	-44	124.1 m	39.35-43.2: interbedded felsic ash + argillite; no significant results	
CM-14	29+48W; 5+82S	407	010	-44	277.4 m	significant results	
CM-15	25+76W; 5+74S	355	030	-45	35.1 m	hole abandoned in overburden	
				subtotal	966.7 m		
			TOTAL	15 holes	2622.2 m		

* Location with respect to Mt. Sicker Grid

Hole CM-2, 3, 14 and 15 tested the extent of barite veins and the significance of VLF-IP anomalies in the western part of the claim group. Hole CM-15 was abandoned in overburden due to water circulation problems. The remaining three holes intersected a dominantly andesitic package. The VLF-IP anomalies are caused by zones of disseminated pyrite (2-5% py) which have low base and precious metal contents. No barite veins were intersected in the holes which indicates that those exposed in the surface trenching have limited lateral and down-dip extents.

Two holes (CM-1, CM-11) tested a VLF anomaly associated with the Copper Canyon mineralization. Hole CM-1 intersected a 5.25 meter wide pyritic stringer zone which has low base and precious metal values. Hole CM-11 was drilled 100 meters west of CM-1 and intersected a 10.0 meter wide zone of intermediate ash and pyritic chert near the bottom of the hole. This zone is interpreted as a potential exhalitive horizon and may correlate with cherts and argillites intersected in the Victoria adit area. No significant assays are associated with this horizon.

Three holes (CM 7, 8, 10) evaluated a VLF-IP anomaly associated with the Victoria adit mineralization. Thin pyritic argillites occur at the contacts between andesitic crystal tuffs and felsic ashes and tuffs. In addition, thin (0.4 - 0.5 m), coarse-grained massive pyrite stringers occur in the felsic units. These sulphide zones are locally enriched in Cu, Zn and Ba but the host rocks are relatively unaltered both visually and geochemically.

Hole CM-9 tested a weak VLF-IP anomaly that occurs in altered felsic tuffs on the northern edge of the Victoria claim. Although there is sufficient disseminated pyrite to explain the VLF anomaly, no zones of economic mineralization were intersected.

B. Geology

The Canamera property is underlain by Cretaceous Nanaimo sediments and Paleozoic Sicker volcanics. Outcrop density is less than 5% and the geological picture presented in Figures 2 and 3 is based largely on diamond drill hole information.

The Nanaimo sediments underly the bottom half of the Coppermint claims. They consist of interbedded sandstones, argillites and conglomerates. The conglomerate occurs near the northern contact and contains rounded fragments of Sicker felsic volcanics. The contact between the Nanaimo sediments and the Sicker volcanics is marked by a prominent gully so the exact nature of the contact is unclear.

The Sicker volcanics exposed on the property consist of interlayered andesitic and felsic tuffs of the McLaughlin Ridge formation. Andesitic rocks consist of fine ashes, crystal tuffs and lapilli tuffs. The latter unit is characterized by 10 to 15% epidotized fragments and good exposures of these units occur along the Chemainus River. Locally the crystal tuffs are well-bedded with relatively flat dips. Andesitic pillow breccias were noted in drill holes CM-2 and 3.

The felsic sequence consists primarily of ash and tuff. Massive aphyric felsic rocks are exposed in the Chemainus River valley and it is unclear whether these are flows, intrusives or thick ash beds. Siliceous fragments have been noted in some of the drill holes.

Several argillite and chert horizons occur within the McLaughlin Ridge volcanics that are exposed on the claim group. Although they represent a minor portion of the volcanic stratigraphy, their presence implies a break in the volcanism during which a volcanogenic massive sulphide deposit could have formed.

The Copper Canyon and Victoria showings which occur in the northeastern part of the property were discovered near the turn of the century. The mineralization at each is characterized by quartz-pyrite-chalcopyrite stringers with subeconomic grades.

C. Geochemistry

A limited amount of soil geochemistry was carried out over the western part of the claim group (Figure 4, Appendix II). It confirmed a broad copper anomaly that had previously been defined by Canamera. It is unclear whether this anomalous zone is an indicator of bedrock mineralization or is a result of downslope contamination from the Sharron Copper showing.

Lithogeochemical samples were taken from outcrops of Sicker volcanics (Figure 3, Appendix II) and at regular intervals from all diamond drill holes. These samples were sent to Min-En Labs in North Vancouver and analyzed for major and trace elements (SiO_2, TiO_2, Al_2O_3, CaO, Na_2O, K_2O, MgO, Fe_2O_3, MnO_2, Ba, S, Ag, Cu, Zn, Pb, Au, Sb, As) using ICP and atomic absorption methods. Results indicated that most of the Sicker volcanics exposed on this property are unaltered. A zone of Na_2O depletion and barium enrichment occurs in felsic volcanics that outcrop in the northern half of the Victoria claim (Figure 2,3).

D. Geophysics

Magnetic and VLF surveys were carried out by Al Scott Geophysics Ltd. in 1987 and 1988. The magnetic data was useful in defining northeasterly trending structures (Figure 5) and several VLF anomalies were outlined (Figure 3). The conductors are due to faults or disseminated pyrite zones. All of the VLF anomalies have been drill tested.

4. Conclusions and Recommendations

Geological, geochemical (soils and lithos) and geophysical (VLF-MAG) surveys have been completed on the Canamera property. Fifteen diamond drill holes totalling 2622.2 meters have tested geophysical anomalies and the extent of mineralization exposed at the Copper Canyon and Victoria showings. No zones of significant mineralization have been intersected. The VLF anomalies are a result of zones of disseminated pyrite which are hosted in andesitic or felsic units of the McLaughlin Ridge formation. The drilling also identified zones of pyritic argillites and cherts which are interpreted as distal exhalites. The only zone of anomalous geochemistry occurs in the northern half of the Victoria claim where felsic tuffs have depleted Na_2O and enriched Ba values. The relatively unaltered nature of the Sicker volcanics on the Canamera claims implies that there is no hydrothermal alteration system and volcanogenic massive sulphide zone present.

In light of the low massive sulphide potential on the Canamera property no further work is recommended.

5. References

Massey, N. W. D., Friday, S. J., 1988: Geology of the Alberni-Nanaimo Lakes Area, Vancouver Island, BCDM 1988 Summary of Geological Field Work, p. 61-74.

Müller, J. E., 1980: The Paleozoic Sicker Group of Vancouver Island, B.C., GSC paper 79-30, pp. 22.

Appendix I

Diamond Drill Logs

HOLE NUMBER: CM-1

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: CANAMERA
PROJECT NUMBER: 326
CLAIM NUMBER: COPPER CANION
LOCATION: NTS : 92 B/13

PLOTTING COORDS GRID: MTS
NORTH: 496.00S
EAST: 1887.00W
ELEV: 178.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -45° 0' 0"
LENGTH OF THE HOLE: 175.56m
START DEPTH: 0.00m
FINAL DEPTH: 175.56m

COLLAR GRID AZIMUTH: 210° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 210° 0' 0"

DATE STARTED: May 25, 1987
DATE COMPLETED: May 27, 1987
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: YES
HOLE SIZE: NQ

CONTRACTOR: F. BOISVENU
CASING: 37.8 M LIH
CORE STORAGE: 6722 LAKES RD DUNCAN

PURPOSE: TO TEST VLF ANOMALY WEST OF COPPER CANYON

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
44.50	-	-44°30'	ACID	OK	
74.98	-	-43°30'	ACID	OK	
105.46	-	-45°30'	ACID	OK	
132.89	-	-45°30'	ACID	OK	
163.37	-	-45° 0'	ACID	OK	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 37.80	«OB»					
37.80 TO 65.75	«FT,QFP»			«W ser»		
65.75 TO 69.60	«AND ASH»	bedding 67.5 m -	35	«W chl»		
69.60 TO 85.50	«F ASH»			«W ser»		
85.50 TO 87.10	«F LITH T»			«W ser/chl»		
87.10 TO 92.40	«STRINGER ZONE»				«3-5% py» 87.35-88.25 «20% py» 90.30-91.15 «10% py»	
92.40 TO 103.00	«F LAP T»			«W ser»		
103.00 TO 118.00	«F LAP T,» «F BX»					
118.00 TO 175.56	«F LAP T,» «F LITH T»	128.4-130.2 «FAULT»				

Sample	From (m)	To (m)	Length (m)	ASSAYS CU %	ZN %	PB %	AG gm/T	AU gm/T	GEOCHEMICAL CU ppm	ZN ppm	PB ppm	AG ppm	AU ppb	BA ppm		COMMENTS
6351	86.55	87.10	0.55						34	32		1.2	10			
6352	87.10	88.25	1.15						54	17		1.0	30			
6353	88.25	89.25	1.00						22	37		.9	5			
6354	89.25	91.15	1.90						32	16		1.2	5			
6355	91.15	92.35	1.20						12	36		1.0	5			

Sample	From (m)	To (m)	Length (m)	SIO2 %	AL2O3 %	CAO %	MGO %	NA2O %	K2O %	FE2O3 %	MNO2 %	TIO2 %	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	AS PPM	SB PPM	SR %	ZR %	TOTAL %
6398	41.55	44.55	3.00	71.59	14.48	1.36	1.85	0.36	3.30	2.84	.08	.30	.121	13	30	10	0.8	15	5	1	.01	.009	96.30
6399	65.70	68.70	3.00	58.30	17.97	1.02	4.55	3.49	1.69	7.69	.22	.66	.046	68	72	4	1.0	10	10	1	.01	.005	95.65
6400	89.25	90.30	1.05	70.56	12.54	1.10	2.43	0.19	2.80	5.83	.09	.29	.088	6	37	6	0.8	5	9	1	.01	.006	95.95
3951	108.00	111.00	3.00	71.54	12.77	2.52	1.56	2.25	1.92	2.04	.08	.14	.117	8	14	4	0.7	5	4	1	.01	.005	94.96
3952	136.00	139.00	3.00	69.64	14.73	0.49	2.85	2.63	2.20	3.84	.13	.32	.117	26	32	9	0.7	10	2	1	.01	.005	96.98
3954	157.50	159.00	1.50	68.06	14.79	0.76	2.10	4.38	1.62	3.89	.13	.32	.085	15	47	9	0.9	5	7	2	.01	.005	96.15
3953	163.00	166.00	3.00	67.92	14.44	1.02	2.27	4.23	1.36	3.47	.15	.29	.066	34	46	10	1.0	5	8	1	.01	.005	95.26

HOLE NUMBER: CM-2

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: CANAMERA
PROJECT NUMBER: 326
CLAIM NUMBER: COPPERMINT III
LOCATION: NTS 92 B/13

PLOTTING COORDS GRID: MTS
NORTH: 404.00S
EAST: 2762.00W
ELEV: 387.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -45° 0' 0"
LENGTH OF THE HOLE: 193.85m
START DEPTH: 0.00m
FINAL DEPTH: 193.85m

COLLAR GRID AZIMUTH: 210° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 210° 0' 0"

DATE STARTED: May 28, 1987
DATE COMPLETED: May 31, 1987
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: F.BOISVENU
CASING: 3.0 M LIH
CORE STORAGE: 6722 LAKES RD DUNCAN

PURPOSE: TO TEST A STRONG IP ANAMOLY AND THE STRATIGRAPHY ABOVE A PY-CP STRINGER ZONE

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
30.48	-	-45° 0'	ACID	OK		-	-	-	-	-	
64.01	-	-45° 0'	ACID	OK		-	-	-	-	-	
88.39	-	-46° 0'	ACID	OK		-	-	-	-	-	
128.02	-	-45° 0'	ACID	OK		-	-	-	-	-	
160.32	-	-46° 0'	ACID	OK		-	-	-	-	-	
182.88	-	-46° 0'	ACID	OK		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
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-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 7.32	«OB»					
7.32 TO 26.30	«AND TUFF»			«W chl,ep»		
26.30 TO 36.00	«AND ASH»			«W chl»	«5% py»	
36.00 TO 38.00	«F TUFF»					
38.00 TO 47.00	«M PBR,» «QFP FRAGS»			«Wchl,ep»		
47.00 TO 54.80	«MTUFF,ASH»			«Wchl»	«3-4% py» ⎨53.3-54.3⎬ «5% py»	
54.80 TO 59.95	«F FLOW»					
59.95 TO 69.90	«M TUFF»	massive ⎨65.6-67.4⎬ «DIOR»		«Wchl,ep»	«1-3% py»	
69.90 TO 72.00	«QTZ VEIN»				⎨69.9-70.35⎬ «10% py»	
72.00 TO 117.40	«AND TUFF»			«Wchl,W-M ep»	⎨86.50-94.50⎬ «2-4% py»	
117.40 TO 119.50	«FAULT»					

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
119.50 TO 120.40	«DIOR»					
120.40 TO 124.90	«AND TUFF»			«W chl»		
124.90 TO 130.10	«DIOR»					
130.10 TO 140.10	«M DIKE»			«S carb»		
140.10 TO 168.10	«AND TUFF»			«W chl» {166.5-168.1} «S chl»		
168.10 TO 173.20	«F FLOW»			«W ser,M sil»		
173.20 TO 187.00	«M PBR»			«patchy M-S chl»	{173.2-174.9} «2-3% py» {182.0-182.7} «5-7% py»	
187.00 TO 193.85	«F TUFF»			«W ser»		

Sample	From (m)	To (m)	Length (m)	ASSAYS CU %	ZN %	PB %	AG gm/T	AU gm/T	GEOCHEMICAL CU ppm	ZN ppm	PB ppm	AG ppm	AU ppb	BA ppm	COMMENTS
6358	31.62	31.75	0.13						272	127	4	1.1	10	770	
6359	33.58	33.83	0.25						1974	155	18	1.4	10	520	
6360	53.70	54.30	0.60						1054	63	11	1.4	20	1870	
6361	75.33	75.48	0.15						1492	55	11	1.0	5	870	
6362	91.75	91.95	0.20						163	26	15	0.7	10	700	

Sample	From (m)	To (m)	Length (m)	SIO2 %	AL2O3 %	CAO %	MGO %	NA2O %	K2O %	FE2O3 %	MNO2 %	TIO2 %	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	AS PPM	SB PPM	SR %	ZR %	TOTAL %
6376	13.00	16.00	3.00	55.84	16.76	4.03	7.08	2.56	0.73	9.82	0.52	0.64	.060	80	111	20	0.3	5	1	4	.02	.005	98.07
6377	29.00	32.00	3.00	55.13	19.12	1.09	6.69	4.96	1.02	8.71	0.46	0.63	.092	104	213	25	0.5	10	34	1	.02	.005	97.92
6378	32.00	35.00	3.00	55.18	16.96	2.98	7.88	2.66	0.74	10.16	0.60	0.62	.070	427	191	16	0.9	5	29	5	.02	.005	97.86
6379	36.00	37.00	1.00	70.94	14.67	1.00	1.99	2.25	2.94	3.65	0.13	0.32	.221	9	34	6	0.1	5	2	1	.02	.005	98.13
6380	51.00	54.00	3.00	58.09	16.38	3.43	5.94	3.08	1.20	8.386	0.29	0.97	.126	422	677	7	0.7	50	33	21	.02	.006	97.93
6381	54.90	58.60	3.70	73.21	14.44	0.36	1.71	3.13	2.58	2.27	0.09	0.17	.115	25	23	3	0.1	5	4	1	.01	.005	98.08
6382	70.10	71.80	1.70	76.06	12.82	0.74	0.88	1.74	3.00	2.27	0.03	0.19	.366	12	6	4	0.2	5	2	1	.01	.005	98.11
6383	86.50	89.50	3.00	57.65	16.78	1.92	6.62	2.82	1.35	9.60	0.26	0.63	.160	101	75	24	0.8	5	23	1	.02	.006	97.91
6384	110.00	113.00	3.00	57.67	16.57	1.69	6.12	3.36	1.07	10.51	0.32	0.62	.097	8	57	4	1.0	5	32	3	.02	.005	98.05
6385	125.00	128.00	3.00	48.83	15.62	10.99	6.05	1.20	0.01	12.70	0.30	1.86	.005	180	37	4	1.5	10	25	2	.04	.009	97.61
6386	149.50	152.50	3.00	61.94	16.27	2.40	4.21	4.06	1.14	7.09	0.25	0.51	.088	5	40	18	0.6	5	11	3	.02	.005	97.96
6387	169.00	172.00	3.00	70.36	14.78	0.75	1.65	5.67	0.97	3.52	0.08	0.32	.071	8	15	5	0.6	5	11	1	.02	.005	98.19
6390	174.25	174.35	0.10	71.06	13.22	0.85	2.36	3.50	1.44	5.01	0.09	0.30	.138	8	20	8	0.6	5	12	2	.02	.005	97.99
6388	182.00	185.00	3.00	57.27	16.74	1.47	6.66	4.23	0.45	10.11	0.29	0.65	.029	56	50	10	0.9	5	21	1	.01	.005	97.93
6389	191.50	193.85	2.35	70.29	14.24	1.13	2.51	5.89	0.38	3.25	0.08	0.34	.022	13	14	9	0.5	5	9	1	.02	.005	98.16

HOLE NUMBER: CM-3

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: CANAMERA
PROJECT NUMBER: 326
CLAIM NUMBER: COPPERMINT III
LOCATION: NTS 92 B/13

PLOTTING COORDS GRID: MTS
NORTH: 588.00S
EAST: 2954.00W
ELEV: 407.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -45° 0' 0"
LENGTH OF THE HOLE: 114.00m
START DEPTH: 0.00m
FINAL DEPTH: 114.00m

COLLAR GRID AZIMUTH: 210° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 210° 0' 0"

DATE STARTED: May 31, 1987
DATE COMPLETED: June 1, 1987
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: F.BOISVENU
CASING: 9.1 M LIH
CORE STORAGE: 6722 LAKES RD DUNCAN

PURPOSE: TO TEST VOLCANIC STRATIGRAPHY SOUTH OF TRENCH #1

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
30.48	-	-45°30'	ACID	OK		-	-	-	-	-	
60.96	-	-46°30'	ACID	OK		-	-	-	-	-	
91.44	-	-47° 0'	ACID	OK		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 9.10	«OB»					
9.10 TO 25.20	«QFP FLOW, TUFF?»					
25.20 TO 41.45	«AND TUFF»					
41.45 TO 50.00	«AND LAP T»			«W chl»		
50.00 TO 70.10	«M PBR»					
70.10 TO 78.70	«M DIKE»					
78.70 TO 91.00	«M PBR»					
91.00 TO 114.00	«DIOR»					

Sample	From (m)	To (m)	Length (m)	SIO2 %	AL2O3 %	CAO %	MGO %	NA2O %	K2O %	FE2O3 %	MNO2 %	TIO2 %	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	AS PPM	SB PPM	SR %	ZR %	TOTAL %
3955	19.00	22.00	3.00	69.51	15.20	0.98	0.79	2.35	5.75	2.71	0.08	0.39	.102	16	22	4	0.2	5	2	1	.02	.009	97.96
3956	47.00	50.00	3.00	52.54	18.12	9.99	1.75	4.81	0.67	6.17	0.19	0.84	.027	83	24	11	1.2	5	1	2	.06	.010	95.19
3957	78.00	81.00	3.00	48.37	17.45	5.35	4.55	4.98	0.17	13.18	0.30	1.64	.011	60	74	16	1.8	5	19	5	.03	.015	96.04

HOLE NUMBER: CM-4

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: CANAMERA
PROJECT NUMBER: 326
CLAIM NUMBER: COPPERMINT II
LOCATION: NTS 92 B/13

PLOTTING COORDS GRID: MTS
NORTH: 732.00S
EAST: 2356.00W
ELEV: 217.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -50° 0' 0"
LENGTH OF THE HOLE: 312.70m
START DEPTH: 0.00m
FINAL DEPTH: 312.70m

COLLAR GRID AZIMUTH: 186° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 186° 0' 0"

DATE STARTED: June 2, 1987
DATE COMPLETED: June 2, 1987
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: F.BOISVENU
CASING:
CORE STORAGE: 6722 LAKES RD DUNCAN

PURPOSE: TO TEST EXTENT OF ARGILLITE/CHERT AND ZN STRINGERSIN 85-3

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
243.84	-	-48°30'	ACID	OK		-	-	-	-	-	
274.32	-	-50°30'	ACID	OK		-	-	-	-	-	
304.80	-	-49°30'	ACID	OK		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 218.30						
218.30 TO 259.30	«QFP TUFF»			«W chl»		
259.30 TO 271.60	«F LAP T»	⌊264.25-271.6⌋ «ARG FRAGS»		«W ser»		
271.60 TO 272.35	«CHT,CHTBX»				«1-2% py»	
272.35 TO 272.70	«ARG,CHT»				«1-2% py»	
272.70 TO 274.80	«F ASH»			«S ser»		
274.80 TO 289.95	«AND ASH,» «TUFF»			«W ep»		
289.95 TO 312.70	«DIOR»					

HOLE NUMBER: CM-5

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: CANAMERA
PROJECT NUMBER: 326
CLAIM NUMBER: COPPERMINT I
LOCATION: NTS 92 8/13

PLOTTING COORDS GRID: MTS
NORTH: 852.00S
EAST: 2285.00W
ELEV: 195.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -45° 0' 0"
LENGTH OF THE HOLE: 147.80m
START DEPTH: 0.00m
FINAL DEPTH: 147.80m

COLLAR GRID AZIMUTH: 210° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 210° 0' 0"

DATE STARTED: June 4, 1987
DATE COMPLETED: June 6, 1987
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: F.BOISVENU
CASING: 16.5 M LIH
CORE STORAGE: 6722 LAKES RD DUNCAN

PURPOSE: TO TEST EXTENT OF ARGILLITE/CHERT AND ZN STRINGERSIN 85-3

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
47.55	-	-45° 0'	ACID	OK		-	-	-	-	-	
78.03	-	-45° 0'	ACID	OK		-	-	-	-	-	
91.44	-	-42°30'	ACID	OK		-	-	-	-	-	
121.92	-	-42° 0'	ACID	OK		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 16.50	«OB»					
16.50 TO 34.00	«AND LAP T»			«W ep»		
34.00 TO 34.80	«F TUFF,QP»			«W ser»		
34.80 TO 35.40	«FAULT»					
35.40 TO 36.30	«AND TUFF»					
36.30 TO 39.60	«F LAP T»					
39.60 TO 48.85	«AND LAP T»			«W ep,chl»		
48.85 TO 102.90	«F LAP T, ARG»	{53.3-54.5} «AND ASH, CHT» {57.2-60.1} «AND ASH, ARG» {65.0-65.4} «ARG, CHT» {97.7-98.4} «ARG,AND ASH» {99.9-100.3} «ARG» {101.0-102.0} «AND ASH, ARG» {102.4-102.9} «AND ASH, ARG»				
102.90 TO 119.00	«ARG,CHTY ARG»					
119.00 TO 140.00	«AND TUFF»			«patchy M ep»	{128.25-128.75} «3-5% py»	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
140.00 TO 147.80	«DIOR»					

Sample	From (m)	To (m)	Length (m)	SIO2 %	AL2O3 %	CAO %	MGO %	NA2O %	K2O %	FE2O3 %	MNO2 %	TIO2 %	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	AS PPM	SB PPM	SR %	ZR %	TOTAL %
3958	20.00	22.50	2.50	52.02	19.55	5.85	4.89	3.51	0.91	9.55	0.21	0.98	.027	114	66	3	0.8	10	13	2	.06	.009	97.57
3959	49.00	52.00	3.00	68.34	14.72	2.89	1.29	2.11	3.96	2.42	0.07	0.29	.071	33	62	7	0.6	5	1	1	.02	.005	96.17
3960	66.00	69.00	3.00	70.75	14.24	1.50	0.94	3.44	3.38	2.40	0.07	0.20	.087	12	29	6	0.6	5	4	1	.02	.007	97.03
3961	90.00	93.00	3.00	70.72	14.68	1.60	1.01	3.00	3.29	2.41	0.08	0.26	.065	11	41	6	0.7	5	6	1	.01	.007	97.14
3064	105.50	107.00	1.50	73.36	10.07	2.67	0.88	0.20	3.07	4.13	0.07	0.31	.119	52	108	12	1.3	5	50	3	.01	.005	94.88
3062	119.30	122.30	3.00	44.04	15.45	9.76	6.41	2.63	0.84	10.39	0.40	0.83	.025	125	43	19	0.1	5	9	6	.02	.005	90.81
3063	136.50	139.50	3.00	52.65	19.01	5.09	3.82	3.37	1.68	8.55	0.18	0.94	.043	61	71	8	1.1	5	14	2	.04	.010	95.38

HOLE NUMBER: CM-6

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: CANAMERA
PROJECT NUMBER: 326
CLAIM NUMBER: COPPERMINT I
LOCATION: NTS 92 B/13

PLOTTING COORDS GRID: MTS
NORTH: 956.00S
EAST: 2080.00W
ELEV: 170.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -45° 0' 0"
LENGTH OF THE HOLE: 166.40m
START DEPTH: 0.00m
FINAL DEPTH: 166.40m

COLLAR GRID AZIMUTH: 210° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 210° 0' 0"

DATE STARTED: June 6, 1987
DATE COMPLETED: June 8, 1987
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: F. BOISVENU
CASING: 4.0 M LIH
CORE STORAGE: 6722 LAKES RD DUNCAN

PURPOSE: TO TEST EXTENT OF ARGILLITE/CHERT AND ZN STRINGERS150 M EAST OF MINERALIZATION IN HOLE 85-3

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
30.48	-	-46°30'	ACID	OK	
60.96	-	-45°30'	ACID	OK	
91.44	-	-45°30'	ACID	OK	
121.92	-	-44°30'	ACID	OK	
152.40	-	-44°30'	ACID	OK	

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 4.00	«OB»					
4.00 TO 31.75	«AND TUFF, LAP TUFF»					
31.75 TO 34.80	«QP TUFF»			«M chl,ep»		
34.80 TO 37.50	«DIOR»					
37.50 TO 42.45	«AND TUFF»			«patchy ep,W chl»		
42.45 TO 46.45	«DIOR»					
46.45 TO 60.30	«AND ASH, LAP TUFF»			«W chl»		
60.30 TO 108.20	«DIOR»					
108.20 TO 108.25	«ARGILLITE»					
108.25 TO 122.00	«F ASH,TUFF »	⎨108.2-111.35⎬ «FAULT»		⎨108.25-113.3⎬ «S ser» ⎨113.3-122.0⎬ «patchy M chl,ser»	⎨108.25-113.3⎬ «1% py»	
122.00 TO 155.00	«AND ASH, F TUFF/QP»			«W chl»		

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
155.00 TO 166.40	«CONGLOM» «CAMERON R»	⟨155.0-156.7⟩ «FAULT»				

Sample	From (m)	To (m)	Length (m)	SIO2 %	AL2O3 %	CAO %	MGO %	NA2O %	K2O %	FE2O3 %	MNO2 %	TIO2 %	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	AS PPM	SB PPM	SR %	ZR %	TOTAL %
6394	26.80	29.80	3.00	53.59	17.70	6.81	4.19	5.52	0.26	8.47	0.26	0.88	.010	32	50	13	1.4	10	9	2	.04	.007	97.73
6395	50.60	53.60	3.00	57.07	17.83	4.49	3.59	4.71	0.98	7.82	0.23	0.83	.011	62	63	17	1.4	5	17	4	.03	.007	97.60
6396	110.30	113.30	3.00	67.63	15.94	2.56	0.98	1.29	3.96	2.00	0.06	0.30	.154	29	127	28	1.0	15	3	1	.02	.005	94.90
6397	148.10	151.20	3.10	44.85	14.82	7.48	4.92	3.21	1.13	7.78	0.25	0.74	.065	68	46	12	1.4	5	17	2	.04	.005	85.29

HOLE NUMBER: CM-7

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: CANAMERA
PROJECT NUMBER: 326
CLAIM NUMBER: VICTORIA
LOCATION: NTS 92B/13

PLOTTING COORDS GRID: MTS
NORTH: 700.00S
EAST: 1448.00W
ELEV: 235.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -45° 0' 0"
LENGTH OF THE HOLE: 194.80m
START DEPTH: 0.00m
FINAL DEPTH: 194.80m

COLLAR GRID AZIMUTH: 20° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 20° 0' 0"

DATE STARTED: May 27, 1988
DATE COMPLETED: May 30, 1988
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: BURWASH ENTERPRISES
CASING: 9.1M
CORE STORAGE: 6722 LAKES ROAD, DUNCAN

PURPOSE: TO TEST A STRONG VLF ANOMALY BELOW THE VICTORIA ADIT.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
73.20	-	-44° 0'	ACID	OK	
158.20	-	-43° 0'	ACID	OK	

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 9.10	OVERBURDEN «OB»					
9.10 TO 43.30	INTERMEDIATE TUFF, CRYSTAL TUFF, ASH «I TUFF, ASH»	Colour - medium green. Grain Size - gine grained. Intermediate tuff, feldspar phyric crystal tuff beds with 2-4% mm feldspars, and finer ashier zones. Rare quartz eyes. Weakly foliated. Some greyish green zones with dark reddish hematite spots & weakly silicified. Zones characterisitically lighter then surrounding rock, with a distinctive spotty look. 14.6m (foliation) 38.6m (foliation) ⌈16.3 - 17.5⌋ «M Dyke, Qtz Vn» Dark green massive chloritic Mafic Dyke with 5-20cm quartz veins. 17.5m (contact) 37.8m 30cm of sericitic sand. Tan coloured. ⌈39.0 - 39.8⌋ «Chl A» ⌈40.0 - 40.6⌋ «Chl A» ⌈43.0 - 43.15⌋ «Cht» 15cm massive whitish green barren chert.	 55 60 80

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		Weakly foliated. 44..2m (foliation)	70	⟊43.3 - 45.2⟋ «M ser, sil» Moderately sericitic. Patchy silicified zones could also be cherts and cherty ashes. ⟊45.2 - 46.6⟋ «W ser, W chl» Weakly sericitic and weakly chloritic. Interval looks more intermediate in composition.		
46.60 TO 47.10	ANDESITIC ASH, CHERT «AND ASH, CHT»	Colour - dark green. Grain Size - fine grained. Massive andesitic ash, rare thin layers with 2-3% epidote altered feldspars. Very thin medium green cherts at top and base of unit. 46.7m (bedding)	80	«M chl, W ep» Moderately chloritic throughout, weak epidote alteration of feldspars.	«<1% py» <1% pyrite parallel to thin cherts at top of unit.	
47.10 TO 49.70	INTERMED-IATE TUFF, CHERT «ITUFF,CHT»	Colour - medium green, cream white. Grain Size - fine grained. Weakly foliated tuff, and minor ash, rare feldspar crystals. ⟊48.35 - 49.65⟋ «CHT» Massive, creamy white, weak mottled green chert. 49.65m (contact, bedding)	75	«M chl» Moderately chloritic throughout.	<1% pyrite.	
49.70 TO 57.80	FELSIC ASH «F ASH»	Colour - light green, light grey. Grain Size - fine grained. Weakly foliated becoming massive towards end of unit. Very fine ash, rare feldspar crystals, <1% <mm qtz eyes below 55m. Minor reddish metallic spots - altered pyrite? 50.7m (foliation) ⟊51.4 - 51.65⟋ «I TUFF»	60	«M ser» Moderately sericitic throughout. 51.4 - 51.65	Trace pyrite.	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		Moderately foliated, medium green intermediate tuff. 52.4m (Possible bedding) ⌈53.9 - 54.6⌋ «AND ASH» Massive dark green andesitic ash. Thin broken chert along lower contact. 54.6 - 54.8 Silicified or cherty ash. 57.5 - 57.7 Gougy milled core, distorted foliation. 57.8m (contact)	 75 70	Moderately chloritic. 53.9 - 54.6 Moderate to strongly chloritic.		
57.80 TO 61.40	INTERMEDIATE ASH «I ASH»	Colour - medium green, light green. Grain Size - fine grained. Massive to very weakly foliated. Tuffaceous layers with 2-3% mm feldspar crystals. First 7cm gougy very chloritic, moderately foliated. 60.6 - 61.4 Light grey colour, bleaching alteration.		«W-M chl, W ser» ⌈60.6 - 61.4⌋ «M ser, sil» Moderately sericitic. Patchy silicification.	Trace pyrite. ⌈59.2 - 59.4⌋ «10% py» 10% pyrite stringer mineralization.	Group with felsic ash of unit before.
61.40 TO 66.00	ANDESITIC TUFF, CRYSTAL TUFF «AND TUFF»	Colour - dark green. Grain Size - fine grained. Massive andesitic tuff, crystal tuff layers with 5% mm feldspar crystals, and minor andesitic ashes.		«W-M chl, W-M ep» Weak to moderately chloritic throughout, weak to moderate epidote alteration of feldspars. Rare epidote patches.	«<1-1% py» <1-1% disseminated pyrite. ⌈62.5 - 62.6⌋ «15% py, 1% cpy» 15% coarse brassy pyrite with 1% cpy.	
66.00 TO 80.20	INTERMEDIATE TO FELSIC ASH «I-F ASH»	Colour - light greyish green. Grain Size - fine grained. Weakly foliated, fairly homogeneous ash. Patches with distorted foliations.		«W chl, W ser»	«1% py» 1% disseminated pyrite and rare mm stringers.	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		Minor silicified or cherty ashes. Rare feldspar and quartz grains. 69.0m (foliation) 73.2 - 73.6 and 73.8 - 74.35 Massive pyrite stringers. ⟨77.9 - 79.5⟩ «AND TUFF» Medium green, massive andesitic tuff with 2-3% mm epidote altered feldspars.	70		⟨73.2 - 73.6⟩ «70% py» 70% massive coarse brassy pyrite. ⟨73.8 - 74.35⟩ «85% py» 85% massive coarse brassy pyrite.	
80.20 TO 87.20	ANDESITIC CRYSTAL TUFF «AND TUFF»	Colour - medium to dark green. Grain Size - fine grained. 5-10% mm epidotized feldspar crystals and 1-2% 1-2cm epidote balls (possibly altered fragments) in an andesitic tuff groundmass. Massive. 80.3 - 80.5 Milled and gougy core.		«W chl, M ep» Weakly chloritic throughout, moderate epidote alteration of feldspar crystals.	«1-2% py» 1-2% finely disseminated pyrite, rare 5mm blebs.	
87.20 TO 89.00	INTERMED-IATE TUFF «I TUFF»	Colour - medium green. Grain Size - fine grained. 3-5% <mm feldspar crystals and rare quartz grains. Very weakly foliated. 87.2 - 88.1 Very poor recovery, <15%. 88.1 4cm milled gougy zone. 88.1m (fault) Sharp lower contact. 89.0m (contact)	70 80	«M chl, W ep» Moderately chloritic throughout, weak epidote alteration of feldspars.	⟨87.2 - 88.1⟩ «2-3% py» 2-3% finely disseminated pyrite. ⟨88.1 - 89.0⟩ «1% py» 1% disseminated pyrite.	Could be end of andesitic unit.

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
89.00 TO 95.45	INTERMED-IATE TO FELSIC ASH AND TUFF «I-F ASH, TUFF»	Colour - light grey, light greenish grey. Grain Size - fine grained. Light grey and greenish grey feldspar phyric intermediate ash and tuff mixed with more felsic looking light grey ash. Feldspar phyric zones - 2-3% <mm epidotized feldspars. Some cherty ash zones or patchy silicification. Weak - moderately foliated. Patchy zones below 94m with distorted foliation, and weakly milled. 90.3m (foliation) 94.1m (foliation) ┤92.5 - 93.1├ «M ASH» Fine grained, dark green chloritic mafic ash. Sharp lower contact. 95.45m (contact)	 40 55 55	«W-Mod ser, W chl, W ep» Weak to moderately sericitic, weakly chloritic, weak epidote alteration of feldspars. ┤92.5 - 93.1├ «M-S chl» Moderate to strongly chloritic. ┤94.0 - 95.45├ «M-S ser» Increased sericite alteration down unit becoming moderate to strongly sericitic below 94.0m.	 ┤89.0 - 92.5├ «3-5% py, tr cpy» 3-5% disseminated pyrite and thin qtz pyrite stringers. 89.6 - 89.9 7-10% pyrite stringers with minor qtz veining. 92.5 - 93.1 3% finely disseminated pyrite. ┤93.1 - 95.45├ «1% py» 1% finely disseminated pyrite.	 Pseudofragmental look.
95.45 TO 95.70	FAULT GOUGE, ARGILLITE «FAULT,ARG»	Colour - dark grey. Grain Size - very fine grained. 100% grey clay gouge = clay altered argillite. Weakly evident layering (original laminations or shearing) towards base of unit. 95.6m (foliation, shearing) Sharp lower contact. 95.7m (contact)	 50 55	«100% clay gouge»	 <1% visible fine pyrite.	
95.70 TO 98.30	DIORITE «DIOR»	Colour - medium green. Grain Siz e - fine grained. 3-4% white, mm ragged feldspars in a fine grained groundmass.				

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
98.30 TO 103.60	QFP FLOW «QFP FLOW»	Colour - light grey, greenish grey. Grain Size - fine - medium grained. 7-10% 2-4mm whitish blue quartz eyes and 3-5% tannish green 1-2mm feldspars in a fine grained felsic groundmass. Fairly massive, becoming weakly foliated towards base of unit. Sharp lower contact. 103.6m (contact)	 45	«W chl, W-M ser, sil» Weak chlorite sericite alteration of groundmass. Moderate sericite alteration of feldspar grains. 98.3 - 102.3 Silicified.	Trace cpy in last 60cm.	
103.60 TO 118.80	ANDESITIC ASH, TUFF, CHERT «AND ASH, TUFF,CHT»	Colour - medium to dark green. Grain Size - fine grained. 103.6 - 104.5 Dark green andesitic ash. 103.6 - 104.1 argillaceous wisps and argillaceous rich ash. 104.5 - 110.8 Andesitic Tuff and Crystal Tuff: crystal rich layers with 10-15% mm feldspars. Minor zones with 3% 2-3cm epidote balls (fragments?) 110.8 - 118.8 Andesitic Ash and light green, medium green chert. Cherts occur as brecciated fragment, brecciated beds and intact beds. Rare patches with epidote balls and feldspar crystals. 112.3m (bedding) 117.8m (bedding) 118.6 - 118.8 Argillite layers mixed with andesite ash. 1.5cm thick argillite at very base of unit. 118.8m (contact, bedding)	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
118.80 TO 191.90	QP TUFF, FELSIC ASH «QP TUFF, F ASH»	Colour - light grey, greenish grey. Grain Size - fine grained. 1-3% mm clear quartz eyes, rare patches with mm feldspars. Weakly foliated.			«<1-1% py»	
		┤118.8 - 119.5├ «QP TUFF, ARG» QP tuff with argillite wisps and laminations.		┤118.8 - 129.0├ «M ser» Moderately sericitic throughout.	<1-1% disseminated pyrite, rare mm stringers parallel to foliation. ┤118.8 - 119.5├ «2-3% py» 2-3% pyrite disseminated parallel bedding.	
		120.8m (foliation)	60			
		┤122.5 - 124.5├ «F-I TUFF» Medium green, weakly foliated more intermediate looking unit. <1% dark quartz eyes. Different unit or same unit with greater groundmass alteration.		┤122.5 - 124.5├ «M-S chl» Moderate - strongly chloritic throughout.	┤122.5 - 124.5├ «2-3% py» 2-3% disseminated pyrite parallel to foliation.	
		122.5m (contact)	55			
					┤124.5 - 126.4├ «3-4% py» 3-4% disseminated pyrite parallel to foliation.	Stringer Zone.
		127.6m (foliation)	45			
		┤129.0 - 147.8├ «F-I QPT» Fine grained, medium grey more intermediate looking tuff. 1-2% dark quartz eyes. Spotty white appearance, possibly carbonate alteration. Weakly foliated.		┤129.0 - 147.8├ «M chl» Moderately chloritic throughout.	┤129.0 - 133.5├ «1-2% py» 1-2% disseminated pyrite parallel to foliation. Locally 2-3% pyrite.	
		129.0m (contact)	40			
		129.0 - 129.3 Dark grey argillaceous wisps at upper contact of interval.				
		132.0 - 132.3 Quartz vein with brassy pyrite.			┤132.0 - 132.3├ «30% py» Quartz vein with 10% coarse brassy py.	
		133.5 Possible bedding from light grey medium grey tuff contact.			┤133.5 - 147.8├ «<1-1% py»	
		133.5m (bedding)	45			
		143.6m (foliation)	45			
					144.3m 7cm gougy pyrite stringer with 30%	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
					brassy pyrite.	
				⟨147.8 - 170.1⟩ «W-M ser, W chl» Weak to moderate sericite and weak chlorite alteration.		
		170.1 - 188.1 Mottled silicified look, result of alteration. Moderately foliated.		⟨170 - 188.1⟩ «M-S ser, sil» Moderate to strongly sericitic. Patchy brecciated silicified layers?/		
		173.6m (foliation)	50	zones.		
		180.3 - 180.8 Very cherty looking. Moderately brecciated.			⟨176.5 - 181.5⟩ «1-3% py» 1-3% disseminated pyrite parallel to foliation.	
		⟨187.8 - 188.1⟩ «Qtz Vn»			⟨187.8 - 188.1⟩ «10% py» 10% brassy pyrite stringers.	
				⟨188.1 - 191.9⟩ «W ser, W chl» Weak sericite chlorite alteration.		
		Sharp lower contact. 191.9m (contact)	55			
191.90 TO 194.80	MAFIC ASH «M ASH»	Colour - dark green. Grain Size - fine grained. Weakly foliated mafic ash. Rare, very fine ashy and cherty ash laminations at 194.6m.		«M-S chl» Moderate to strongly chloritic.	«<1-1% py» <1-1% disseminated pyrite. Very fine pyrite in ashy laminations @ 194.6m.	

Sample	From (m)	To (m)	Length (m)	ASSAYS CU %	ZN %	PB %	AG gm/T	AU gm/T	GEOCHEMICAL CU ppm	ZN ppm	PB ppm	AG ppm	AU ppb	BA ppm		COMMENTS
2236	73.20	73.60	0.40						148	37		1.6	10	680		
9237	73.80	74.35	0.55						187	26		1.5	30	840		
9238	95.45	95.70	0.25						320	275		1.5	5			
9239	103.55	104.00	0.45						390	128		0.6	5	2900		
9240	111.20	111.90	0.70						3300	320		2.9	10			
9241	118.60	119.50	0.90						240	119		1.0	10	790		
9242	129.00	129.30	0.30						87	215		1.2	5			
9243	131.90	132.30	0.40						645	36		1.3	5			
9244	187.80	188.10	0.30						495	24		1.0	5			

Sample	From (m)	To (m)	Length (m)	SIO2 %	AL2O3 %	CAO %	MGO %	NA2O %	K2O %	FE2O3 %	MNO2 %	TIO2 %	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	AS PPM	SB PPM	SR %	ZR %	TOTAL %
11001	21.00	24.00	3.00	64.93	15.49	1.95	1.62	4.00	1.61	4.60	0.25	0.33	0.069	30	111	33	1.7	5	20	4	.02	.012	95.67
11002	52.00	55.00	3.00	72.04	13.69	0.88	1.95	1.95	2.64	2.56	0.13	0.20	0.104	22	64	26	2.2	15	23	4	.01	.012	96.28
11003	69.00	71.00	2.00	70.04	13.77	0.93	1.31	2.38	2.47	4.00	0.08	0.28	0.096	6	37	20	2.5	5	23	4	.01	.012	96.64
11004	90.00	92.00	2.00	67.06	14.48	1.35	1.10	1.30	3.32	5.17	0.06	0.34	0.151	97	33	11	2.8	25	25	4	.01	.011	96.49
11005	112.50	115.50	3.00	48.91	18.36	6.38	5.10	3.92	0.40	8.98	0.48	0.68	0.064	101	226	21	1.4	5	13	5	.03	.006	93.77
11006	140.00	143.00	3.00	56.15	15.97	0.86	6.56	3.44	0.52	8.03	0.38	0.66	0.026	192	128	26	0.3	15	12	7	.01	.009	93.79
11007	176.50	179.50	3.00	72.17	12.47	0.38	1.28	0.80	2.78	4.16	0.05	0.16	0.160	57	39	8	2.5	5	23	4	.01	.009	96.54
11008	192.00	194.80	2.80	52.92	18.76	0.75	6.16	3.28	1.41	8.70	0.23	0.74	0.086	1	116	30	1.0	5	19	7	.01	.009	94.3

HOLE NUMBER: CM-8

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: CANAMERA
PROJECT NUMBER: 326
CLAIM NUMBER: VICTORIA
LOCATION: NTS 92B/13

PLOTTING COORDS GRID: MTS GRID
NORTH: 668.00S
EAST: 1552.00W
ELEV: 202.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -45° 0' 0"
LENGTH OF THE HOLE: 227.10m
START DEPTH: 0.00m
FINAL DEPTH: 227.10m

COLLAR GRID AZIMUTH: 20° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 20° 0' 0"

DATE STARTED: May 30, 1988
DATE COMPLETED: June 2, 1988
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: BURWASH ENTERPRISES
CASING: 6.7M
CORE STORAGE: 6722 LAKES ROAD, DUNCAN

PURPOSE: TO TEST A VLF ANOMALY 100 METRES WEST OF THE VICTORIA SHOWING.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
61.30	-	-45° 0'	ACID	OK	
133.20	-	-44° 0'	ACID	OK	
205.70	-	-43° 0'	ACID	OK	

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 6.70	OVERBURDEN «OB»					
6.70 TO 19.50	MAFIC ASH, CHERT «M ASH,CHT»	Colour - green to greyish green. Grain Size - fine grained. - massive ash beds with cherty interlayers - locally have 3-5% weakly epidotized fsp crystals - chert layers are well-bedded - 1cm to 0.1m thick with larger zones noted below: {12.1 - 12.9} «CHT» {15.2 - 16.2} «CHT» 15.8m (bedding) Contact marked by fault gouge.	 50	«W ep» - weak epidote in ashy layers	«Tr py» - trace pyrite in veinlets.	
19.50 TO 43.80	FELSIC ASH, TUFF ANDESITE CRYSTAL TUFF «F ASH, AND ASH»	Colour - grey with dark green andesite layers. Grain Size - fine grained. Interbedded felsic ash and tuff and andesitic crystal tuff with 1-2% weakly epidotized fsp crystals. Andesitic crystal tuff beds at: {23.2 - 26.5} «AND TUFF» {27.2 - 27.7} «AND TUFF» {34.4 - 35.2} «AND TUFF» {36.25 - 36.9} «AND TUFF» 36.25m 36.9m (bedding)	 55 80	- felsic ash, tuff generally unaltered- may be weakly silicified has cherty look locally - this may be a primary feature - andesitic tuff - feldspar crystals - weak epidote.	{23.2 - 26.5} «1-2% py»	
43.80 TO 51.05	PYROXENE AND FELDSPAR-RICH CRYSTAL TUFF «MTUFF,PX, FP»	Colour - green. Grain Size - medium grained. - generally massive with the odd ashy layer - 3-5% epidotized fsp crystals - 3-5% dark green, euqnt (2-3mm across) pyroxene crystals - 1-2% epidote-rich fragments (2-3cm X 1-2cm)		«W ep»	«Tr - 1% py» - occurs as disseminations and coarse grained stringers	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
51.05 TO 80.80	FELSIC FLOW? TUFF WITH INTERBEDS OF ANDESITE CRYSTAL TUFF «F FLOW?, F TUFF,» «AND TUFF»	Colour - greenish grey to grey. Grain Size - fine to medium grained. - felsic rocks, massive to weakly foliated. Andesitic crystal tuff layers at: ⌈62.3 - 64.4⌋ «AndT» ⌈69.1 - 74.8⌋ «AndT» 1-2% epidote patches ⌈76.45 - 77.0⌋ «M Ash, Chl» fault gouge associated with this zone ⌈79.3 - 79.7⌋ «M Ash, Chl» ⌈79.9 - 80.8⌋ «AndT» 78.0m (foliation)	45	Generally unaltered. - Andesitic crystal tuff - fsp crystals - weak epidote. - tr hematite specks locally.	⌈51.05 - 51.5⌋ «5% py» - pyrite occurs as medium to coarse grained blebs associated with qtz-carb veins.	
80.80 TO 81.05	CHERT «CHT»	Colour - grey. Grain Size - fine grained. Bedding irregular.			«5% py» - occurs as fine beds	- South L-T horizon?
81.05 TO 82.70	FELSIC FLOW «F FLOW»	Colour - grey. Grain Size - fine to medium grained. Quartz porphyritic immediately underlying above unit. - grades in to very fine grained massive unit - lower contact marked by blocky core		«W chl» - chloritic occurs as stringer within zone	«Tr py» - occurs as stringers	
82.70 TO 87.00	INTERMED-IATE ASH «I ASH»	Colour - grey. Grain Size - very fine grained. - Massive		«W chl, 1-2% carb v's» - weakly chloritic with 1-2% carb veins	«3-5% py» - pyrite occurs as very fine grained disseminations within unit - almost like a pyritic mud	Does this correlate with our Intermediate Ashes & interbedded cherts seen as the footwall to the S Lenora-Tyee Zone?

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
87.00 TO 93.75	FELSIC ASH «F ASH»	Colour - light grey. Grain Size - fine grained. - well-foliated but foliation crenulated - minor fault gouge within this unit - fine grained ash, locally has a cherty look 88.0m (foliation)	60	«W ser, chl»	«1% py» - pyrite occurs as disseminations and stringers - generally parallel to foliation	
93.75 TO 106.10	INTERMED-IATE ASH, MINOR CHERT? «IASH,CHT?»	Colour - grey. Grain Size - fine grained. Massive to weakly foliated. - possibly some minor chert intermixed with ash ┤96.0 - 97.4├ «FAULT» - fault gouge and blocky core ┤103.3 - 106.1├ «FAULT» - chloritic gouge zones gives unit a fragmental look - bottom 0.2m of gouge zone = dark grey/black mud		«W chl» - weakly chloritic. 1% carb veinlets.	«tr - 1% py» - tr - 1% very fine grained pyrite as disseminations and stringers ┤102.8 - 106.1├ «5% py» - 5% pyrite as disseminations & the odd rounded fragment in fault zone	
106.10 TO 115.20	FELSIC LAPILLI TUFF/FLOW «F LAP T, F FLOW?»	Colour - greenish grey. Grain Size - fine grained. - unit has fragmental look - fragment boundaries are poorly defined - lapilli tuff or flow breccia? - unit well-foliated 108.3m (foliation)	50	«W chl» - matrix between fragments is weakly chloritic	┤108.15 - 108.6├ «2-3% py» - 2-2% fine grained pyrite as stringers parallel to foliation	
115.20 TO 119.50	INTERMED-IATE TO MAFIC ASH «I-M ASH»	Colour - dark grey. Grain Size - very fine grained. Massive to weakly foliated.		«W-M chl»	«1-2% py» - 1-2% very fine grained disseminated pyrite	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
119.50 TO 131.30	FELSIC TUFF/ LAPILLI TUFF «F TUFF,LAP TUFF»	Colour - grey. Grain Size - fine to medium grained. Massive to weakly foliated. 1-2% fine grained grey fragments in matrix of same composition.		«W chl» - weakly chloritic	«Tr py»	
131.30 TO 131.70	PYRITIC FELSIC TUFF «PY F TUFF»	Colour - light grey. Grain Size - fine grained. - well-foliated - sulphides parallel to foliation - interbedded with chert and quartz vein 131.5m	 50	 Siliceous.	«10-15% py» - sulphides medium - coarse grained - look more like stringer - type mineralization	
131.70 TO 132.20	MUD / FAULT GOUGE «FAULT»	Colour - dark greenish grey. Grain Size - fine to medium grained. - pyrite fragments (2-3mm diameter), qtz-carb vein fragments set in fine grained dark greenish-grey to black mud - possibly argillite?		«W chl» - chloritic wisps	«1-2% py» - occur as fine disseminations and fragments	
132.20 TO 211.65	FELSIC FLOW,TUFF? «F FLOW, F TUFF?»	Colour - greenish grey. Grain Size - fine grained. - massive to weakly foliated, featureless - possibly a flow - aphyric 162.25m (foliation) 170.0m (foliation)	 50 60	«W ser - chl» - weak sericite - chlorite alteration gives unit a mottled and pseudo-breccia look - looks quite siliceous locally. Quartz veins at: 135.5 - 135.9 «Qtz Vein» 136.0 - 136.9 «Qtz Vein» 137.2 - 137.5 «Qtz Vein»	 135.5 - 135.9 «Tr - 1% py» 136.0 - 136.9 «1-2% py» 137.2 - 137.5 «3-5% py» 162.25 - 162.4 «10-15% py» - pyrite occurs as stringers parallel to foliation 178.1 - 178.6 «25% py» - medium grained pyrite in quartz vein and as stringer type mineralization	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		⟦185.3 - 211.65⟧ «FP» 1-2% feldspar crystals with the odd quartz crystal. 192.5m (foliation) 201.0m (foliation)	 65 55	⟦185.3 - 211.65⟧ «M chl» - unit becoming moderately chloritic - does not look as siliceous, loses mottled look	 207.85 - 207.95 Pyrite stringer. 10-15% pyrite - associated with quartz vein.	
211.65 TO 220.90	INTERMEDIATE TUFF/ ASH «I TUFF, ASH»	Colour - greenish grey. Grain Size - fine grained. Weakly foliated. - locally have 10% mm sized fsp crystals 213.0m (foliation) 219.0m (foliation)	 80 85	«patchy M-S chl» - patches are moderately to strongly chloritic	 ⟦211.65 - 212.05⟧ «5% py» - pyrite in quartz vein - stringer-type mineralization	
220.90 TO 225.80	QP TUFF «QP TUFF»	Colour - light grey. Grain Size - fine grained. Quartz porphyritic tuff 5% mm-sized quartz crystals. - unit weakly foliated		Relatively unaltered.	None.	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
225.80 TO 227.10	INTERMED-IATE ASH, CHERT «1 ASH,CHT»	Colour - dark grey. Grain Size - fine grained. Interbedded ash and light grey chert.		«W-M chl» - ashy parts are weakly to moderately chloritic	«1% py» - very fine grained disseminated pyrite	

Sample	From (m)	To (m)	Length (m)	ASSAYS CU %	ZN %	PB %	AG gm/T	AU gm/T	GEOCHEMICAL CU ppm	ZN ppm	PB ppm	AG ppm	AU ppb	BA ppm	COMMENTS
11026	51.05	51.50	0.45						665	62		0.9	5		
11027	80.80	81.05	0.25						290	14		1.6	100	1920	
11028	85.50	87.00	1.50						31	68		0.9	5	1000	
11029	102.80	104.30	1.50						72	151		1.0	5	950	
11030	104.30	106.10	1.80						195	240		0.8	10	810	
11031	108.15	108.60	0.45						17	118		0.2	5		
11032	131.30	131.70	0.40						3300	2650		1.8	20		
11033	131.70	132.20	0.50						1290	890		1.5	10		
11034	135.50	136.90	1.40						52	76		0.3	10		
11035	137.20	137.50	0.30						59	38		0.2	5		
11036	178.10	178.60	0.50						1300	43		1.9	5		
11037	211.65	212.05	0.40						106	55		0.8	5		

Sample	From (m)	To (m)	Length (m)	SIO2 %	AL2O3 %	CAO %	MGO %	NA2O %	K2O %	FE2O3 %	MNO2 %	TIO2 %	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	AS PPM	SB PPM	SR %	ZR %	TOTAL %
11014	27.70	31.70	4.00	66.33	13.91	1.6	2.5	2.93	1.76	3.65	0.21	0.30	0.073	112	120	38	0.7	5	6	16	.01	.011	93.78
11015	45.20	48.20	3.00	51.88	16.23	7.11	6.15	3.34	0.12	9.32	0.41	0.62	0.008	146	74	28	0.3	5	10	15	.03	.006	95.51
11016	89.00	92.00	3.00	64.53	14.23	0.74	3.04	2.09	1.99	5.47	0.14	0.37	0.072	53	182	34	0.2	10	1	23	.01	.010	94.07
11017	116.30	119.20	2.90	56.70	16.74	1.38	5.00	3.41	0.88	8.96	0.27	0.58	0.050	3	78	27	0.5	5	8	3	.02	.010	95.63
11018	123.40	126.30	2.90	71.43	13.04	0.57	2.52	2.34	1.56	3.88	0.09	0.28	0.075	7	48	15	1.0	5	5	8	.01	.010	96.88
11019	166.10	169.20	3.10	73.03	13.24	0.34	1.23	4.15	1.23	1.82	0.06	0.15	0.170	7	49	20	1.0	5	8	9	.01	.009	96.56
11020	215.10	218.10	3.00	62.30	16.08	1.68	4.13	2.58	1.67	4.96	0.21	0.35	0.086	2	105	35	0.2	5	9	3	.02	.012	94.48

HOLE NUMBER: CM-9

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: CANAMERA
PROJECT NUMBER: 326
CLAIM NUMBER: VICTORIA
LOCATION: NTS 92B/13

PLOTTING COORDS GRID: MTS GRID
NORTH: 440.00S
EAST: 1496.00W
ELEV: 209.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -45° 0' 0"
LENGTH OF THE HOLE: 150.90m
START DEPTH: 0.00m
FINAL DEPTH: 150.90m

COLLAR GRID AZIMUTH: 20° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 20° 0' 0"

DATE STARTED: June 2, 1988
DATE COMPLETED: June 4, 1988
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: BURWASH ENTERPRISES
CASING: 6.1M
CORE STORAGE: 6722 LAKES ROAD, DUNCAN

PURPOSE: TO TEST A VLF ANOMALY ASSOCIATED WITH BA AND ZN ENRICHED FELSIC TUFFS.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
42.70	-	-44° 0'	ACID	OK		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 6.10	OVERBURDEN «OB»					Casing
6.10 TO 102.90	FELSIC ASH, TUFF «F ASH,TUFF»	Colour - greenish grey to light grey. Grain Size - fine grained. Well-foliated in altered patches. 3-5% mm-sized quartz crystals & 1-2% white specks= fsp? - unit fairly homogeneous 17.0m (foliation) 48.2 - 102.9 - have patches with 5-10% epidotized fsp crystals (subrounded) (1-2m across) 73.0m (foliation) 85.0m (foliation) 101.0m (foliation)	 45 45 45 45	«W chl, W-M ser» - weak to moderate sericite with weakly chloritic patches - commonly chlorite associated with pyritic stringers 74.4 - 76.1 2-3% hematized specks	⟨6.1 - 35.1⟩ «1-2% py» - pyrite occurs as stringers and disseminations - larger stringers noted below ⟨33.95 - 34.15⟩ «30% py» - coarse grained pyrite in stringer ⟨35.1 - 102.9⟩ «Tr py» - tr pyrite in stringers & as disseminations ⟨76.4 - 77.9⟩ «10% py» - 10% coarse grained pyrite in stringer type mineralized zone	
102.90 TO 113.90	MAFIC ASH, TUFF «MASH,TUFF»	Colour - dark green. Grain Size - fine grained. Generally massive to weakly foliated. 102.9m (contact) 105.8m 4-5cm wide cherty layer 105.8m (bedding) 111.0 - 111.1	 60 65	«S chl» - strongly chloritic	«1-2% py, tr cp» - 1-2% finely disseminated pyrite, trace cp	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		Fault gouge			⟦113.45 - 114.2⟧ «2-3% py, tr cp» - sulphide-rich, disseminated zone spans contact between mafic & felsic units	
113.90 TO 150.90	FELSIC ASH, TUFF «FASH,TUFF»	Colour - grey. Grain Size - fine grained. Similar to unit in upper part of hole. 3-5% mm-sized qtz crystals. ⟦117.3 - 117.8⟧ «M ASH, DIKE?» - dark green, fine grained, strongly chloritic mafic ash/dyke?		«W-M ser, W chl» - weakly to moderately sericitic ⟦122.0 - 123.4⟧ «qtz-chl vein» Chloritic stringers at: 147.45 - 147.7 149.5 - 150.0	«tr py» - tr disseminated pyrite ⟦147.45 - 147.7⟧ «5% py» ⟦149.5 - 150.0⟧ «1-2% py»	

Sample	From (m)	To (m)	Length (m)	ASSAYS CU %	ZN %	PB %	AG gm/T	AU gm/T	GEOCHEMICAL CU ppm	ZN ppm	PB ppm	AG ppm	AU ppb	BA ppm		COMMENTS
11038	76.40	77.90	1.50						152	28		0.6	5			
11039	113.45	114.20	0.75						510	147		1.1	10			

Sample	From (m)	To (m)	Length (m)	SIO2 %	AL2O3 %	CAO %	MGO %	NA2O %	K2O %	FE2O3 %	MNO2 %	TIO2 %	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	AS PPM	SB PPM	SR %	ZR %	TOTAL %
11009	29.20	32.20	3.00	72.18	13.63	1.42	0.67	0.78	3.17	3.02	0.04	0.26	0.175	13	22	11	1.1	5	4	2	.01	.016	96.43
11010	65.40	68.40	3.00	75.75	12.87	0.90	0.89	0.95	3.09	1.75	0.04	0.14	0.094	51	31	8	1.1	5	9	2	.01	.011	97.17
11011	93.00	96.00	3.00	75.43	12.39	0.37	1.60	0.11	3.23	2.27	0.06	0.15	0.128	5	34	17	0.9	10	12	1	.01	.010	96.86
11012	108.20	111.20	3.00	54.70	17.51	0.93	7.75	1.78	1.30	9.43	0.43	0.65	0.055	5	51	23	0.9	15	12	5	.01	.006	95.87
11013	143.30	146.30	3.00	71.99	13.16	0.39	1.90	1.31	2.71	2.75	0.07	0.15	0.181	56	116	34	0.4	5	11	5	.01	.014	95.07

HOLE NUMBER: CM-10

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: CANAMERA
PROJECT NUMBER: 326
CLAIM NUMBER: VICTORIA
LOCATION: NTS 92B/13

PLOTTING COORDS GRID: MTS
NORTH: 740.00S
EAST: 1320.00W
ELEV: 252.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -45° 0' 0"
LENGTH OF THE HOLE: 190.70m
START DEPTH: 0.00m
FINAL DEPTH: 190.70m

COLLAR GRID AZIMUTH: 20° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 20° 0' 0"

DATE STARTED: June 5, 1988
DATE COMPLETED: June 7, 1988
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: BURWASH ENTERPRISES
CASING: 9.3M
CORE STORAGE: 6722 LAKES ROAD, DUNCAN

PURPOSE: TO TEST A VLF ANOMALY ASSOCIATED WITH A CONTACT BETWEEN ANDESITIC CRYSTAL TUFFS AND FELSIC TUFFS,

DIRECTIONAL DATA: 100 METRES EAST OF THE VICTORIA SHOWING.

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
27.40	-	-44° 0'	ACID	OK	
152.40	-	-42° 0'	ACID	OK	

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 9.30	OVERBURDEN «OB»					Casing
9.30 TO 54.20	INTERMED-IATE CRYSTAL TUFF «I TUFF,FP»	Colour - greenish grey. Grain Size - fine to medium grained. - Weakly foliated - feldspar - phyric layers (5-10%) interbedded with more ashy layers - tr qtz crystals 27.0m (foliation)	70	«W chl, ep» - feldspar crystals - weak epidote; matrix is weakly chloritic	«tr - 1% py» - pyrite occurs as disseminations and stringers	
54.20 TO 81.60	FELSIC ASH/ TUFF «F ASH,T»	Colour - greenish grey to light grey. Grain Size - fine grained. Weakly foliated. 54.2 - 65.2 Unit has a siliceous/cherty look. 62.0m (foliation) 65.2 - 81.6 3-5% mm-sized, weakly epidote feldspar crystals. Fault gouge at: 76.05 - 76.2 79.6 - 81.2	65	⎨65.2 - 81.6⎬ «W ser, ep» - feldspar crystals - weak epidote; matrix is weakly sericitic	«tr py»	
81.60 TO 83.25	«FAULT»	Colour - green to dark grey. - fault gouge 81.6 - 82.4 - dark green in colour with 1 or 2 pyrite +/- cp fragments 82.4 - 83.25 - 5-10% grey chert fragments in dark grey to black matrix - argillitic			⎨82.4 - 83.25⎬ «3-5% py» - 3-5% fine grained pyrite in matrix & as fine disseminations in fragments	Looks similar to "Mud Flow" in MTS-56.

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
83.25 TO 87.30	FELSIC TUFF «F TUFF»	Colour - grey. Grain Size - fine to medium grained. Foliated. - fine grained ash with the odd siliceous patch and qtz crystal 83.25 - 84.0 - 1% argillite wisps parallel to foliation 83.9m (foliation) - lower contact sharp	60	«W-M ser» - weakly to moderately sericitic	«tr py»	
87.30 TO 113.50	MAFIC TO INTERMED-IATE ASH/ TUFF «M-IASH,T»	Colour - dark grey to green. Grain Size - fine to medium grained. - fine grained ashy beds interlayered with layers that have 1-2% qtz crystals - have fine wisps (<1.0cm wide) of argillite and very fine grained sulphides (py) occurring throughout unit. 88.0m (foliation) ⌊94.65 - 97.3⌋ «DIOR» - fine to medium grained diorite, feldspar-porphyritic in centre with fine grained chl-carb chilled margins. 104.2m (bedding/foliation) ⌊111.3 - 113.5⌋ «1-2% CHT FRAGS» - 1-2% chert fragments - angular - up to 1cm across	50 50	«M-S chl» - ashy layers are strongly chloritic; more intermediate tuffs are moderately chloritic	«5% py» - pyrite occurs as very fine grained disseminations and blebs throughout unit - very fine grained pyrite looks syngenetic - distinct from coarse grained stringers ⌊103.05 - 103.7⌋ «10% py» - 10% py blebs in chloritic zone - dark green metallic mineral = sph?? or very fine grained pyrite	
113.50 TO 118.90	QP TUFF «F TUFF,QP»	Colour - light grey. Grain Size - fine grained. Well-foliated. - 5% mm-sized quartz crystals		«M ser» - moderately sericitic	«tr py» - trace disseminated pyrite; pyrite stringers as noted below. ⌊116.55 - 116.8⌋ «20-25% py»	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
					- coarse grained pyrite in stringer	
118.90 TO 120.30	PYRITIC MUD/CHERT «PyMud,CHT»	Colour - brownish grey to grey. Grain Size - very fine grained. Well-bedded mud with chert fragments and cherty layer at 119.3 - 119.5. - contact with above unit + chert irregular 120.0m (bedding) - lower contact sharp	50		«5% py» - very fine grained pyrite associated with sediment	- possible horizon - North or South?
120.30 TO 162.70	FELSIC TUFF «F TUFF»	Colour - greenish grey. Grain Size - fine grained. Foliated - cherty layers - alteration or primary feature? 124.0m (foliation) {132.15 - 132.55} «M DIKE» Fine grained mafic dyke. 151.0m (foliation)	60 50	«W-M chl, patchy sil» - weak to moderate chlorite; patchy silicified areas Sulphide-rich qtz veins at: 157.7 - 157.9 158.5 - 159.3	«1% py» - pyrite as disseminations {157.7 - 157.9} «5% py» {158.5 - 159.3} «10-15% py»	
162.70 TO 183.70	DIORITE «DIOR»	Colour - green. Grain Size - medium grained. - chilled margins - edges of diorite fine grained-chl-carb rich - centre is fsp-porphyritic, 5-10% "ragged" fsp crystals - unit massive 183.7m (contact)	75	Chl-carb margins. Fsp crystals - weak epidote.	None.	
183.70 TO 190.70	FELSIC TUFF «F TUFF,QP»	Colour - grey. Grain Size - fine grained. - massive to weakly foliated - 5% mm-sized, rounded qtz crystals		«W chl, ser»	«tr - 1% py» - occur as coarse grained blebs in stringers	

Sample	From (m)	To (m)	Length (m)	ASSAYS CU %	ZN %	PB %	AG gm/T	AU gm/T	GEOCHEMICAL CU ppm	ZN ppm	PB ppm	AG ppm	AU ppb	BA ppm	COMMENTS
11040	81.60	82.40	0.80						630	125		0.9	10		
11041	82.40	83.25	0.85						325	107		0.7	5		
11042	83.25	84.00	0.75						475	56		0.6	5		
11043	88.20	89.70	1.50						410	185		1.0	5		
11044	89.70	91.20	1.50						670	265		1.4	5		
11045	93.60	94.65	1.05						94	143		1.1	10		
11046	103.05	103.70	0.65						68	220		1.1	5		
11047	118.90	120.30	1.40						64	355		0.9	5		
11048	158.50	159.30	0.80						39	121		0.4	5		

Sample	From (m)	To (m)	Length (m)	SIO2 %	AL2O3 %	CAO %	MGO %	NA2O %	K2O %	FE2O3 %	MNO2 %	TIO2 %	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	AS PPM	SB PPM	SR %	ZR %	TOTAL %
11021	35.10	38.10	3.00	66.24	15.91	1.54	2.21	3.99	1.56	4.75	0.24	0.33	0.83	4	7	7	2.1	10	2	2	.02	.014	97.17
11022	70.70	73.80	3.10	65.41	15.62	1.92	2.97	1.69	2.90	3.63	0.20	0.35	0.092	21	113	37	0.7	10	9	5	.02	.012	95.36
11023	98.80	101.80	3.00	57.58	15.45	0.72	5.76	1.92	1.28	8.89	0.27	0.63	0.056	318	215	39	0.1	5	5	32	.01	.011	94.26
11024	135.60	138.70	3.10	69.37	13.99	0.62	2.60	1.59	2.36	3.62	0.08	0.30	0.108	3	98	28	0.8	5	1	5	.01	.012	95.95
11025	186.40	189.40	3.00	74.60	12.84	0.36	1.29	2.49	2.01	2.28	0.06	0.14	0.090	14	37	18	0.9	5	1	4	.01	.010	96.93

HOLE NUMBER: CM-11

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: CANAMERA
PROJECT NUMBER: 226
CLAIM NUMBER:
LOCATION: NTS 92 B/13

PLOTTING COORDS GRID: MTS
NORTH: 714.00S
EAST: 1898.00W
ELEV: 160.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -45° 0' 0"
LENGTH OF THE HOLE: 227.10m
START DEPTH: 0.00m
FINAL DEPTH: 227.10m

COLLAR GRID AZIMUTH: 30° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 30° 0' 0"

DATE STARTED: April 4, 1989
DATE COMPLETED: April 6, 1989
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: FRONTIER DRILLING
CASING: 15.90 m
CORE STORAGE: CHEMAINUS

PURPOSE: TEST 2 VLF ANOMALIES ASSOCIATED WITH CU CANYON MINERALIZATION

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
127.10	-	-42° 0'	ACID	OK		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 15.90	Overburden «OB»					
15.90 TO 23.40	Andesite Crystal Tuff «AND TUFF»	Colour: Dark green Grain size: Fine grained Massive; 10-12% mm epidotized feldspar crystals; first 1.3m 5% mm dark green squant pyroxene crystals altered almost 100% to chlorite; last 1.4m lacking fsp crystals = ash.		«M Ep, Patchy S Chl» Moderate epidote alteration of feldspars. Strong alteration of pyroxene crystals to chlorite. Rare epidote patches.	«tr py» last 1.4m 1% fine diss. pyrite.	Lithogeochem BCD 6747, 17.4m - 20.4m.
23.40 TO 27.80	Felsic Ash, Tuff «F ASH, TUFF»	Colour: Light grey Grain size: Fine grained Massive to weakly foliated; patchy siliceous pseudo - fragmental appearance.		«W Ser» 27.1m - 27.6m Barren white qtz. vein.	«1% py» 1% fine diss. pyrite.	Rubbly broken core.
27.80 TO 29.90	Intermed. Tuff «I TUFF»	Colour: Medium green Grain size: Fine grained Weakly foliated; very weak fine white speckled appearance = calcite specks; felsic frags. at base of unit; 1cm qtz. vein at sharp lower contact. 28.7m foliation 29.9m contact	 50 50	«W-M Chl, W Ep» Weak to moderate chlorite alteration throughout. Patchy weak epidote.	«<1-1% py»	
29.90 TO 49.70	Felsic Tuff «F TUFF»	29.9m - 37.8m Distinctive spotted siliceous appearance. Spots = green translucent sericite. Spots round in massive zones, stretched and flattened in foliated areas. 37.8m to end of unit weak to moderately foliated. Stronger foliation in sheared zones with minor gouge development. 39.7m foliation 44.9m foliation 44.8m - 45.85m moderate gouge development. 45.85m - 48.05m Mafic tuff? Dyke? Massive, abundant carbonate veinlets. 45.85m - 46.8m	 55 45 	«W Ser/Chl» Weak sericite/chlorite alteration. 29.9m - 37.8m moderately silicified, possibly primary. 45.85m - 48.05m Weakly chloritic.	tr py	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		abundant fault gouge with sharp lower contact at 30 degrees. Colour: Light grey Grain size: Fine grained				
49.70 TO 62.65	Mafic Tuff, Lapilli Tuff. Felsic interbeds «M TUFF, LAP TUFF»	Colour: Dark green Grain size: Fine grained Overall, unit composed of thick mafic beds with thinner interbeds of felsic tuff. Detailed breakdown as follows: 49.7m - 55.0m Mafic tuff, Lapilli tuff: weakly foliated, indistinct mafic frags., epidote patches = frags., patchy feldspar rich zones. Irregular LC, erosional? 55.0m - 57.4m Felsic tuff, flow?: fairly massive, weakly siliceous appearance possible very indistinct fragments, sharp lower contact. 57.4m contact 57.4m - 58.8m Mafic tuff: felsic frags. at top of unit, weak to moderately foliated. 58.6m foliation 58.8m contact 58.8m - 60.1m Felsic tuff. 60.1m - 61.15m Mafic tuff: felsic frags. at top of unit. 61.15m contact 61.15m - 62.65m Felsic tuff/flow?: massive siliceous appearance.	 45 40 35 50	«W-M Chl, Patchy Ep» Weak to moderately chloritic, patchy epidote. 49.7m - 55.0m Abundant calcite veinlets Weakly sericitic.	«2-4% py» Overall, unit contains 2-3% very fine syngenetic pyrite. Greater sulfide concentrations as follows: 50.3m - 50.45m 5% pyrite. 55.0m - 57.4m <1-1% py. 2% pyrite. 61.15m - 62.65m 2% very fine py.	Lithogeochem BCD 6748, 50.9m - 53.9m.
62.65 TO 66.60	Argillite Conglo-merate «ARG CONG»	Mafic and felsic fragments in a very fine, dark grey muddy groundmass. 62.65m - 63.05m Felsic frags. in a dark grey green pyritic argillaceous mud. 63.05m - 63.6m Felsic tuff: last 5cm fault gouge. 63.6m - 66.6m Mafic lapilli tuff: felsic and			«3-5% py» 3-5% very fine syngenetic pyrite within argillaceous mud groundmass.	62.65m - 66.6m Good pyntx horizon, abundant very fine syngenetic pyrite, and pyritic mud.

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		mafic fragments. Some felsic fragments up to 25cm 63.6m - 64.0m black pyritic mud approx. parallel to core axis. 66.2m - 66.6m 80% pyritic mud with minor fault gouge at base.				
66.60 TO 69.80	Felsic Flow? Dyke? «F FLOW, DYKE?»	Massive, strong siliceous appearance. Distinctive patchy spotted red appearance = hematite. Patches with hematite spots also contain abundant <1mm qtz. eyes.			66.6m - 69.8m tr py	
69.80 TO 96.80	Andesite Crystal Tuff «AND TUFF»	Colour: Dark green Grain size: Fine grained Massive; up to 25% 1-2mm epidote altered grains, 1-3mm epidote balls and larger irregular epidote patches; patches with abundant mm translucent feldspars some showing good twinning. 82.15m - 82.6m Mixing of mafic and felsic material Fragments of felsics. ┤82.6m - 87.75m├«F TUFF» Felsic tuff: massive, pervasive silicified appearance. <1% <1mm qtz. eyes, locally 5% qe. in very siliceous material.		«M Ep» ┤82.6m - 87.75m├«W-M Sil» Weak to moderately silicified.	tr <1% py, tr cpy 82.15m - 82.7m 1-2% py. 91.8m - 92.25m 5% py, <1% cpy as disseminations and very fine veinlets.	Lithogeochem BCD 6749, 92.25m - 94.8m.
96.80 TO 124.30	Felsic Tuff Flow? «F TUFF, FLOW?»	Colour: Light grey Grain size: Fine grained Massive; very weakly brecciated with fine calcite; patchy mottled pseudo breccia; rare 1mm quartz eyes. 108.35m - 110.1m Andesite crystal tuff: dark green, massive, epidote clots and altered grains. 110.1m - 111.7m Spotted appearance, round mm greenish tan sericitized spots also containing hematite. ┤117.6m - 121.4m├«AND TUFF» Andesite tuff:		«M-S Sil» Moderate to strongly silicified. Possible primary feature. 108.35m - 110.1m mod. ep. ┤117.6m - 121.4m├«W Ep»	««<1% py» <1% very fine diss. py. 101.4m 7cm of semi-massive hematite with 3-5% diss. pyrite. Minor quartz veining in this interval. <1% py. 110.1m 1% hematite disseminated forming spotted appearance. <1% py	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		massive, weakly abundant carb. veinlets, hematitic fracture coatings. 121.4m - 122.6m Felsic tuff: fine grained, fragmental appearance of felsic flow unit.				
124.30 TO 124.95	«FAULT»	Colour: Medium grey Grain size: Fine grained Massive, dark grey fault gouge. Layered shearing at top and base of fault zone. 124.9m shearing	55			
124.95 TO 126.80	Andesite Tuff «AND TUFF»	Colour: Dark green Grain size: Fine grained Patchy sheared appearance, 5% epidote patches up to 2cm. 125.7m - 126.3m Fine pyritic muddy groundmass possibly result of shearing.		«W-M Patchy Ep» 126.55m - 126.8m Barren white quartz vein.	<1% py	
126.80 TO 132.15	Felsic Dyke «F DIKE»	Colour: Greenish-grey Grain size: Fine grained 5-7% 1-2mm greenish epidote grains (fsp?) and <1% whitish-blue siliceous fragments in a strongly silicified greyish felsic groundmass. 131.7m - 132.15m Andesite tuff: sheared appearance with 2cm pyritic mud (fault material?) at base. 131.9m shearing Sharp lower contact. 132.15m	 50 50	«S Sil, Patchy Ep» Strongly silicified, patchy epidote.	<1% py	Lithogeochem BCD 6750, 127.0m - 129.4m.
132.15 TO 160.90	Felsic Lapilli Tuff «F LAP, TUFF»	Colour: Light grey Grain size: Fine to medium grained Massive to weakly foliated in fragment poor areas; abundant siliceous felsic fragments stretched, flattened, often indistinct in outline; rare rounded quartz eyes; patchy areas with folded and kinked foliations from:		«W Ser» Weak sericitic alteration of groundmass Fragments siliceous. 133.05m - 133.3m Qtz. vn.	«2% py» 2% disseminated pyrite within groundmass. 133.05m - 133.3m 10-15% brassy pyrite.	Top of unit fine py. and argillaceous component in groundmass.

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		141.6m - 142.3m 149.8m - 149.0m 151.6m - 152.7m Foliation angles: 141.2m 145.5m 150.4m 157.5m Fragments decreasing down hole. Gradational lower contact.	 45 70 65 50			
160.90 TO 181.00	Felsic Tuff «F TUFF»	Colour: Light grey Grain size: Fine grained Weakly foliated; <1% mm quartz eyes, locally 2% qe; rare felsic fragments. 170.5m - 176.2m Unit becoming massive with weak pervasive silicified appearance and spotty weak greenish sericite, patches with possible feldspars Interval possibly a flow? Mm quartz spots with hematite. Fault gouge at lower contact. 165.1m foliation 170.0m foliation	 55 60	«W Ser» Weakly sericitic.	«1% py» 1% disseminated pyrite.	Lithogeochem BCD 11507, 163.0m - 166.0m
181.00 TO 191.40	Intermed. Ash, Tuff, Chert «I ASH, TUFF, CHERT»	Colour: Medium greenish-grey Grain size: Aphan. to fine grained Fine ash mixed with coarser tuff containing patchy distorted chert bands and fragments. 181.4m bedding 188.3m - 189.9m <2cm grey chert beds giving good bedding angles as follows: 189.05m 189.25m 189.6m Weakly foliated, broken lower contact.	 70 40 45 37	«Patchy W Chl»	«<1% py» <1% pyrite. Chert horizons barren of sulfides.	Lithogeochem BCD 11508, 182.4m - 185.4m
191.40 TO 227.10	Diorite «DIOR»	Colour: Medium to dark green Grain size: Fine grained Massive feldspar porphyritic diorite and weakly sheared calcareous mafic dykes. Screens of		Pervasive calcite veinlets throughout mafic dykes. Occassion <20cm white	tr py	Diorite may account for mag anomaly in this area.

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		intermediate tuff and chert as follows:		quartz veins.		
		214.75m - 215.45m «I ASH, CHERT» Fine ash and thin barren greenish chert beds.		214.75m - 215.45m Weakly sericitic.	214.75m - 215.45m <1% diss py.	
		216.3m - 219.7m «I TUFF» Intermediate tuff: patchy more felsic areas, weakly foliated. 10cm fault gouge at lower contact.		216.3m - 219.7m Weak sericite/chlorite.		

Sample	From (m)	To (m)	Length (m)	ASSAYS CU %	ZN %	PB %	AG gm/T	AU gm/T	GEOCHEMICAL CU ppm	ZN ppm	PB ppm	AG ppm	AU ppb	BA ppm		COMMENTS
11489	62.65	63.05	0.40						520	343		1.4	20			
11490	63.60	64.00	0.40						219	289		1	5			
11491	66.20	66.60	0.40						323	387		1.1	5			
11492	82.15	82.80	0.65						491	80		0.7	5			
11493	91.80	92.25	0.45						1800	73		1.8	110			
11494	101.20	101.60	0.40						69	29		1	10			
11495	133.05	133.30	0.25						2700	22		1.8	20			
11496	181.00	182.40	1.40						221	76		0.8	5	430		
11497	188.30	189.30	1.00						159	72		1	5	440		
11498	189.30	191.15	1.85						58	63		0.7	5	360		

Sample	From (m)	To (m)	Length (m)	SIO2 %	AL2O3 %	CAO %	MGO %	NA2O %	K2O %	FE2O3 %	MNO2 %	TIO2 %	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	AS PPM	SB PPM	SR %	ZR %	TOTAL %	S %
6747	17.40	20.40	3.00	51.73	16.64	6.76	5.43	3.95	0.87	9.11	0.33	0.63	0.035	138	100	24	1	5	27	2			95.68	0.07
6748	50.90	53.90	3.00	50.97	14.83	4.99	6.57	1.31	0.82	12.06	0.36	0.6	0.027	174	86	29	1.2	5	14	2			93.83	1.18
6749	92.25	94.80	2.55	54.87	17.12	3.61	5.28	4.25	0.43	8.92	0.19	0.59	0.029	31	52	28	0.8	5	16	2			95.66	0.31
6750	127.00	129.40	2.40	70.1	13.84	2.07	1.36	5.91	0.71	2.62	0.06	0.26	0.024	17	13	13	0.2	5	39	1			96.99	0.06
11507	163.00	166.00	3.00	69.39	13.19	0.72	3.1	1.84	2.15	4.62	0.1	0.29	0.082	74	42	19	0.4	5	31	2			96.7	1.17
11508	182.40	185.40	3.00	55.74	16.76	2.84	4.85	4.16	0.96	8.63	0.19	0.64	0.036	71	63	24	0.9	5	27	2			95.58	0.64

HOLE NUMBER: CM-12

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: CANAMERA
PROJECT NUMBER: 226
CLAIM NUMBER:
LOCATION: NTS 92 B/13

PLOTTING COORDS GRID: MTS
NORTH: 876.00S
EAST: 2198.00W
ELEV: 182.50

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -60° 0' 0"
LENGTH OF THE HOLE: 303.00m
START DEPTH: 0.00m
FINAL DEPTH: 303.00m

COLLAR GRID AZIMUTH: 240° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 240° 0' 0"

DATE STARTED: April 6, 1989
DATE COMPLETED: April 9, 1989
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: FRONTIER DRILLING
CASING: 18.30 m
CORE STORAGE: CHEMAINUS

PURPOSE: TEST DOWN DIP OF ZN STRINGERS IN HOLE 85-3 AND A 14 m THICK ARGILLITE IN CM-5

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
111.90	-	-61° 0'	ACID	OK	
198.10	-	-62° 0'	ACID	OK	
271.30	-	-62° 0'	ACID	OK	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 18.30	Overburden «OB»					
18.30 TO 36.30	Mafic Tuff, Lapilli Tuff? Flow Bx? «MT, FLOW Bx?»	Colour: Dark green Grain size: Fine grained From 18.3 to approx. 23m massive, abundant hematite along fracture planes. Patches with <1mm epidote grains = fsp. some round white spots qtz. = amygdules? After 23m wispy appearance with fine mafic lapilli and rare block size fragments. Patches with 10% 3-4mm round qtz. and epidote filled visicles. ie. 25.55m - 27.3m		«W-M Chl, Patchy Ep»	tr - <1% py	18.3m - 23m Mafic flow? 25.55m - 27.3m Vesicular flow. Lithogeochem BCD 11509, 32.4m - 35.4m
36.30 TO 81.40	Felsic Tuff «F TUFF»	Colour: Light tan grey Grain size: Medium grained Massive to weakly foliated, occassional areas with 1% <1mm quartz eyes. Weakly pervasive granular appearance caused by 1-2mm siliceous grains. Rare large lapilli containing green sericite spots and siliceous grains up to 3-4mm with disseminated hematite. 62.9m - 63.75m Mafic dyke: dark green, fine grained, massive, fine calcite stockwork, rare possible feldspars at top of interval. Sharp lower contact.	45	Patchy weak chlorite.	NVS	Lithogeochem BCD 11510, 69.1m - 72.1m
81.40 TO 87.05	Fault Breccia «FAULT Bx»	Colour: Dark green Grain size: Coarse grained 0.5cm - 2cm and up to 25cm fragments of foliated mafic and felsic composition, diorite, and rare argillite with a dark green mafic? groundmass. Very angular fragments.		«W Chl»	Nil	Healed fault breccia.

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
87.05 TO 194.50	Felsic Tuff, Lithic Tuff, Crystal Tuff «F TUFF»	Colour: Light grey, green-grey Grain size: Medium to coarse grained Massive, patchy weak foliation. Patchy fsp. and qtz. phyric areas. Patches with 1-3mm rounded siliceous felsic grains some appear to be shattered quartz eyes, and some feldspars. Some fragmental zones with fine felsic lithic fragments. Rare mafic frags. 95.7m - 98.9m Mixing of felsic and mafic material. Angular <1cm felsic lithic fragments and fine mafic frags. in mainly a mafic groundmass. Patchy more felsic groundmass. 102.8m foliation 103.4m - 105.7m Weakly developed clay gouge. 107.9m - 114.8m Broken rubbly core. Numerous thin massive mafic dykes with irregular contacts cutting felsic unit. 132m - 134m Kinked and distorted foliation some parallel to core axis. 126.5m - 129.2m Large QFP lapilli. 129.2m - 153.7m «QP TUFF» 1-3% and locally 5% <1-1mm quartz grains. Occassional fragments. Below 153.7m coarse granular appearance, quartz phyric occassional fine felsic lithic fragments. 183.6m - 184.4m QFP TUFF 184.4m - 185.45m Coarse felsic fragments, wispy groundmass.	30	«W Ser» Weakly sericitic.	tr py 188.9m - 189.7m Three 3-4mm massive pyrite fragments.	Lithogeochem BCD 11511, 115.0m - 118.0m Lithogeochem BCD 11512, 150.0m - 153.0m
194.50 TO 223.20	(Q)FP Crystal Tuff «(Q)FP TUFF»	Colour: Light grey Grain size: Fine grained		194.5m - 223.2m «S Sil» Pervasive strong silicification.		Very similar to Lara Footwall.

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		Light grey, massive, pervasive silicified appearance up to 10% <5mm subhedral fresh white feldspars and occassional patches with 1% mm quartz eyes. 223.2m - 223.5m Fault zone minor gouge, distorted foliation. 223.3m shearing	 50			Lithogeochem BCD 11513, 203.3m - 206.3m
223.20 TO 281.45	Felsic Lithic Tuff, Crystal Tuff «F TUFF»	Colour: Light grey Grain size: Fine to medium grained 223.5m - 235.3m Coarse granular appearance, 2-4mm rounded whitish grains. Some appear to be fsp. others siliceous felsic grains, possible qtz. eyes 235.3m - 269.5m Finer granular appearance. Patchy zones with 1-3% mm quartz eyes and siliceous grains. Some speckled appearance caused by fine white disseminated calcite. 237m foliation 247.5m foliation Occassional zones with 1% feldspars. 250m - 250.8m Weakly distorted foliations, minor gouge. Possible breaks in deposition marked by darker wispy like hematitic or ashy layering at 238.0m and 249.6m. 238.0m layering? 249.6m layering? 239.6m - 239.9m <1cm of fine green ash? possible healed fault. Weak sheared look to fine grained material. 269.5m - 269.9m Dark grey weakly fragmental appearance, possible mafic input. Still fairly siliceous. Rubbly core. 277.9m - 280.65m Coarse granular appearance, weakly fragmental towards base.	 30 50 50 65		269.5m - 269.9m 3% pyrite as fine wisps within groundmass. 270.6m - 273.7m <1% pyrite as a very fine weak pyrite stockwork.	Lithogeochem BCD 11514, 240.7m - 243.7m Lithogeochem BCD 11515, 274.0m - 277.0m

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		280.65m - 280.8m Argillite. Black no bedding, broken core. 280.8m - 281.0m Fault: gougy core.		280.65m - 280.8m <1% py		
281.45 TO 282.10	Cherty Argillite «CHTY ARG»	Colour: Black Grain size: Fine grained Fairly massive, no bedding, moderately brecciated with a white calcite stockwork, carbonaceous, rubbly core. Lower contact not sharp, mixing with lower unit.			«<1% py» <1% py as thin wisps and fracture coatings.	
282.10 TO 282.90	Mafic Ash «M ASH»	Colour: Medium green Grain size: Fine grained Weakly foliated, ash very broken and rubbly core obscuring any textures. First 30cm mixing with argillite.		«W Chl, S Calc» Weakly chloritic, pervasive calcite.		
282.90 TO 287.60	Cherty Felsic Ash, Chert «CHTY F ASH, CHERT»	Colour: Mottled grey Grain size: Aphan. to fine grained Very fine ash. Brecciated with a distinct fine grey, green-grey pyrite +/- sericite stockwork. Some chert horizons giving good bedding, otherwise chert fairly massive. 283.8m bedding 284.05m - 286.1m Mafic tuff, lapilli tuff: grey-green, fine grained with occassional rounded 1-4cm cherty felsic ash fragments. Lower contact slightly irregular, possible erosion. 286.1m contact Lower contact to main unit slightly irregular.	 30 30 65	«Patchy Ser»	«1-2% py» 1-2% pyrite as a very fine stockwork.	
287.60 TO 294.00	Mafic Flow Breccia? Lapilli Tuff? «M FLOW Bx?»	Colour: Dark green Grain size: Fine grained Moderate foliated appearance, foliation greatly distorted and folded. Some folations could be pillow selveges. Patchy fragmental appearance. Minor wisp hematite stockwork. 293.2m contact	 30	«W-M Chl» Weak to moderately chloritic. 293.2m - 294.0m Barren white quartz vein.	tr py	Lithogeochem BCD 11551 290.0m - 293.0m

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
294.00 TO 298.80	Diorite «DIOR»	Colour: Speckled green Grain size: Medium grained Massive, equigranular texture with intergrown white feldspars and dark green amphiboles. Finer grained and locally sheared margin 50cm at upper margin and 1.3m at lower margin.				
298.80 TO 303.00	Mafic Tuff «M TUFF»	Colour: Dark green Grain size: Fine to medium grained Massive, patchy weak foliation. Patchy granular appearance caused by 2mm siliceous grains and minor epidote grains. Some <1cm epidote patches which = fragments. 303.0m EOH		«Perv Hem, W Ep» Pervasive hematite stockwork, weak epidote alteration.	Nil	

Sample	From (m)	To (m)	Length (m)	ASSAYS CU %	ZN %	PB %	AG gm/T	AU gm/T	GEOCHEMICAL CU ppm	ZN ppm	PB ppm	AG ppm	AU ppb	BA ppm		COMMENTS
11499	269.50	269.90	0.40						102	118		1.3	5			
11500	281.45	282.10	0.65						49	101		0.7	5	1430		
12726	282.90	284.05	1.15						42	42		0.6	5	1700		
12727	286.10	287.60	1.50						52	28		0.5	5	940		

Sample	From (m)	To (m)	Length (m)	SIO2 %	AL2O3 %	CAO %	MGO %	NA2O %	K2O %	FE2O3 %	MNO2 %	TIO2 %	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	AS PPM	SB PPM	SR %	ZR %	TOTAL %	S %
11509	32.40	35.40	3.00	51.6	18.57	3.32	4.71	3.23	3.76	7.58	0.12	0.87	0.094	38	43	23	0.8	5	26	2			94.14	0.05
11510	69.10	72.10	3.00	68.78	14.67	0.86	1.52	3.76	3.96	3.35	0.08	0.35	0.082	22	36	16	0.3	5	40	1			97.5	0.05
11511	115.00	118.00	3.00	69.64	14.82	1.48	1.25	3.38	2.61	3.15	0.06	0.3	0.079	31	22	13	0.2	5	43	1			96.87	0.06
11512	150.00	153.00	3.00	69.56	14.55	1.71	1.79	2.87	2.52	3.07	0.05	0.32	0.064	31	38	15	0.4	5	35	1			96.57	0.06
11513	203.30	206.30	3.00	71.29	13.28	2.04	0.51	2.9	3.3	2.36	0.02	0.25	0.095	26	107	28	0.2	5	48	1			97.45	1.4
11514	240.70	243.70	3.00	65.99	14.22	3.28	1.23	2.67	4.7	3.34	0.1	0.35	0.079	13	22	11	0.6	5	39	1			96.04	0.06
11515	274.00	277.00	3.00	70.8	14.37	0.82	0.81	2.05	6.1	1.67	0.03	0.19	0.117	13	27	15	0.3	5	55	1			97.03	0.07
11551	290.00	293.00	3.00	40.51	14.28	12.64	6.53	3.47	0.58	9.42	0.22	0.73	0.016	120	41	15	1.3	5	20	2			88.68	0.07

HOLE NUMBER: CM-13

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: CANAMERA
PROJECT NUMBER: 226
CLAIM NUMBER:
LOCATION: NTS 92 B/13

PLOTTING COORDS GRID: MTS
NORTH: 1035.00S
EAST: 1938.00W
ELEV: 150.00

ALTERNATE COORDS GRID: FIELD
NORTH: 4+53S
EAST: 1+15W
ELEV: 0.00

COLLAR DIP: -44° 0' 0"
LENGTH OF THE HOLE: 124.10m
START DEPTH: 0.00m
FINAL DEPTH: 124.10m

COLLAR GRID AZIMUTH: 210° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 210° 0' 0"

DATE STARTED: April 9, 1989
DATE COMPLETED: April 10, 1989
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: FRONTIER DRILLING
CASING: 12.2 m
CORE STORAGE: CHEMAINUS

PURPOSE: TEST VLF ANOMALY 300 m EAST OF ZN STRINGERS IN HOLE 85-3

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
36.60	-	-43° 0'	ACID	OK	
124.10	-	-42° 0'	ACID	OK	

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 12.20	«OB»					
12.20 TO 37.15	Andesite Tuff, Crystal Tuff «AND TUFF»	Colour: dark green Grain size: fine to medium grained -massive, putchy sheared and gougy zones. 12.2 - 15.2: 5-7% 3-5mm epidote altered crystals with dark green pyroxene? cores. 15.2 - 18.2: more mafic appearance with 1-3% chlorite clots (fragments) up to 1.5cm. 18.2 - 18.75: Fault zone, moderate gouge development. Brecciated inclusions of mafic tuff and quartz veins. 18.75 - 19.7: Mafic tuff with felsic tuff fragments, minor quartz veining. 19.7 - 22.35: Felsic tuff green grey, weak foliation with a milled texture. Sharp lower contact. 22.35 - 23.15: Strongly sheared, minor gouge. Mafic ash with some sediment component giving greenish brown coloration. 23.15 - 37.15: Fine to medium grained, granular tuff with 5-10% 2-3mm fresh fsp and/or siliceous grains and patches with epidotized mm grains. 35.0 - 35.2: Gougy milled core.	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-Below 43.2 weakly fragmental with occassional argillite fragments and rare felsic fragments. Thin fragments aligned parallel to foliation. 45.6 - 49.2: Andesite Tuff: medium green, fine grained, massive patches with 2-3% mm translucent feldspars. Occassional mm epidote grains and rare 5mm epidotized fragments 7cm muddy ash at base of interval. contact 49.2m 49.2 - 50.65: Rare 2-3 mm distorted argillite laminations, 50.1 - 50.65: fine interlaminated ash beds distorted and folded. 50.65 - 52.3: Andesite tuff, crystal tuff. 54.8 - 55.0: Argillite wisps and thin ash beds. bedding @54.9m 55.85 - 57.5: Andesite tuff	60 50 70	45.6 - 49.2: Patchy very weak epidote within goundmass.		
57.50 TO 64.35	Felsic Tuff «F TUFF»	Colour: light grey green Grain Size: fine grained contact @ 64.35m -weakly foliated. -a coarser appearance then previous unit. -minor argillite at top of unit. -fine whitish grey siliceous granules. -rare 5cm mafic ash beds.	35	NIL	NIL	
64.35 TO 124.10	Andesite Tuff, Crystal Tuff, Ash «AND TUFF»	Colour: medium to dark green Grain Size: fine to medium grained -Massive, patchy weak foliation. -Finer andesite tuffs mixed with coarser granular tuffs with 2-5% 2-4mm translucent fsp and/or siliceous grains. -Quiet periods in sedimentation marked by finely laminated ash, cherts, and cherty ashes as follows: 71.3 - 72.6: Cherty and ashes		«Patchy ep, chl» Some areas with weak epidote and chlorite patches.	«tr py»	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		bedding @71.8m	50			
		94.3 - 94.5: Brecciated cherts				
		97.4 - 97.5: Brecciated cherts				
		101.9 - 102.0: Fine ash				
		bedding @102m	40			
		107.8 - 109.0: Fine ash and chert				
		bedding @107.8	50			
		-Fining up-hole noted at 72.35m. 97.5m, 102.0m				Tops to the north
		bedding @108.9	30			
		78.65 - 79.6: Mafic and andesite lapilli tuff. <1.5cm subangular green chert fragments.				
		80.6 - 82.4: <2cm felsic fragments.				
		82.4 - 82.6: Green fault gouge.		82.6 - 86.95: Weakly sericitic, minor wormy quartz veining	86.8 - 86.95: 1% disseminated pyrite.	
		82.6 - 86.95: Felsic tuff: light grey, grey green, weakly foliated. Indistinct fragments, possibly pumice as flattened green fragments.				
		-Gougy core at 84.6-85.0 and 86.6-86.8.				
				99.1 - 101.9:Moderately abundant barren white irregular quartz-chlorite veins.		
		102.0 - 117.0: Andesite lithic crystal tuff. Abundant <1cm weakly epidotized andesitic fragments and abundant 1-3mm translucent feldspar crystals some showing good twinning.				

Sample	From (m)	To (m)	Length (m)	ASSAYS CU %	ZN %	PB %	AG gm/T	AU gm/T	GEOCHEMICAL CU ppm	ZN ppm	PB ppm	AG ppm	AU ppb	BA ppm		COMMENTS
12728	39.35	40.60	1.25						18	145		0.6	5	1400		
12729	40.60	41.90	1.30						24	94		0.7	5	1360		
12730	41.90	43.20	1.30						27	95		0.7	5	1220		

Sample	From (m)	To (m)	Length (m)	SIO2 %	AL2O3 %	CAO %	MGO %	NA2O %	K2O %	FE2O3 %	MNO2 %	TIO2 %	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	AS PPM	SB PPM	SR %	ZR %	TOTAL %	S %
11516	30.00	33.00	3.00	51.3	18.04	5.65	4.71	4.36	1.34	8.46	0.12	0.86	0.054	72	65	20	1.2	5	21	2			95.21	0.08
11517	59.00	62.00	3.00	64.32	16.25	2.62	2.03	2.84	3.42	3.07	0.07	0.29	0.108	19	29	13	0.4	5	45	1			95.17	0.06
11518	91.40	94.40	3.00	51.31	16.57	8.79	4.22	3.52	1.26	7.69	0.18	0.78	0.089	83	55	22	0.6	5	26	2			94.78	0.09
11519	119.00	122.00	3.00	48.52	14.48	13.52	3.62	2.86	0.89	6.98	0.11	0.81	0.04	42	37	26	0.9	5	13	1			92.29	0.28

HOLE NUMBER: CM-14

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: CANAMERA
PROJECT NUMBER: 226
CLAIM NUMBER:
LOCATION: NTS 92B/13

PLOTTING COORDS GRID: MTS
NORTH: 582.00S
EAST: 2948.00W
ELEV: 407.00

ALTERNATE COORDS GRID: MTS
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -44° 0' 0"
LENGTH OF THE HOLE: 277.40m
START DEPTH: 0.00m
FINAL DEPTH: 277.40m

COLLAR GRID AZIMUTH: 10° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 10° 0' 0"

DATE STARTED: April 11, 1989
DATE COMPLETED: April 14, 1989
DATE LOGGED: April 14, 1989

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: Frontier Drilling
CASING: 3.00m
CORE STORAGE: 9398 TransCanada Hwy

PURPOSE: To test an IP anomaly associated with felsic/ andesite contacts and a Ba enriched,Na depleted

DIRECTIONAL DATA: zone.

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
195.10	-	-44° 0'	ACID	OK	
232.10	-	-44° 0'	ACID	OK	
256.00	-	-44° 0'	ACID	OK	

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 3.00	Overburden «OB»					
3.00 TO 63.45	Felsic Dyke «F DIKE»	Colour: Light grey Grain size: Aphan. to fine grained Massive, very siliceous appearance especially within aphanitic areas. Pervasive brecciated appearance with a very fine calcite stockwork. Patches with 1% 1-2mm epidotized feldspars and up to 5% 1-5mm rounded bluish-white quartz grains (silica grains). Screens of andesite tuff as follows: 8.2m - 10.4m Andesite tuff, ash: fine grained, weakly foliated, 1-5% epidotized feldspars, fragments and epidote patches. 8.2m - 8.9m finer ashier zone. 12.25m - 14.35m Andesite tuff as described above. 12.25m contact 43.45m - 47.3m Andesite tuff as above. 43.45m contact 47.3m contact 47.3m - 52.2m Up to 10% epidotized feldspars and blue-white quartz patches. 62.05m - 62.6m Andesite tuff as described earlier. 62.05m contact	 55 70 30 65	«S Sil» Strongly siliceous, primary feature. 8.2m - 10.4m Weak epidote and chlorite	Trace pyrite along fracture planes and near andesite screens. 8.2m - 10.4m 1-3% pyrite disseminated and wisps parallel to foliation. 43.45m - 47.3m <1-1% diss. pyrite.	Rubbly core, questionable recovery to 8.2m.
63.45 TO 159.45	Andesite Tuff «AND TUFF»	Colour: Dark green Grain size: Fine to medium grained Massive, patchy weak foliation in finer ashier zones. Up to 10-15% epidote altered patches and sharp outlined fragments. Abundant <1-1mm translucent crystals some = fsp. showing good twinning. Fine ash beds sometimes showing thin bedding with grading fining down-hole at 95.6m and 96.6m. 77.2m bedding 96.5m bedding	 45 30	«W Ep, Patchy W Chl» Weak epidote as altered fragments and patches. Weak chlorite alteration of fine grained ash zones.	«<1-1% py» <1-1% pyrite however some fine grained ash zones contain 2-4% disseminated pyrite parallel to bedding.	Lithogeochem BCD 11520, 64.6m - 67.6m. Down-hole fining indicates tops to the

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		96.7m bedding	45			north.
		95.6m bedding	30			
		96.6m bedding	45			
		85.3m 20cm felsic block.				
		85.5m - 85.8m Argillite wisps thin laminations at 30-35 degrees to core axis.				
		86.6m - 88.1m Felsic dyke: light grey, massive, strongly siliceous, <1-1% mm epidotized feldspars, 3cm clay gouge at upper contact.				
		86.6m contact	40			
		91.4m - 93.35m Felsic dyke: light grey, massive, siliceous, fine brecciated appearance.				
		93.35m contact	40			
		Below 93.35m andesite crystal tuff, up to 15% mm epidotized feldspars with ashy interbeds giving good bedding angles.				Lithogeochem BCD 11521, 105.4m - 107.5m
		103.0m bedding	45			
		117.5m bedding	30			
		119.1m bedding	20			
		129.0m bedding	45			
		132.9m bedding	45			
		133.1m bedding	45			
		Massive, medium green, magnetic mafic dykes from 107.5m - 108.0m and 124.8m - 126.6m.				
		124.8m contact	35			
		126.6m contact	40			
		139.7m - 141.0m Felsic tuff: light grey, fine grained. 140.2m - 141.0m mixing of felsic and andesitic material.				
				140.2m - 143.5m Patchy quartz +/- chlorite veining.	140.2m - 143.5m 1-2% pyrite.	Lithogeochem BCD 11522, 143.5m - 146.5m
		157.65m - 159.45m Andesite ash, minor felsic component.			157.65m - 159.45m «7-10% py» 7-10% brassy, fairly coarsly diss. pyrite.	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
159.45 TO 178.10	Felsic Lapilli Tuff «F LAP TUFF »	Colour: Light to medium grey Grain size: Fine grained Massive, distinctive mottled appearance. Ghosted outlines of light grey felsic fragments in a very fine groundmass. Below 172.7m less fragmental appearance, very rubbly core. 165.2m - 169.2m Andesite ash: dark green, fine grained, fairly uniform. 30cm very dark massive chert from 164.9m - 165.2m.		«W Ser» 173.75m - 173.95m Minor quartz veining. 165.2m - 169.2m Moderately chloritic.	«<1% py» <1% disseminate pyrite. 173.75m - 173.95m 3% chalcopyrite, 3% pyrite. 165.2m - 169.2m <1-1% fine diss. pyrite	Lithogeochem BCD 11523, 160.6m - 162.9m
178.10 TO 198.90	Diorite «DIOR»	Colour: Dark green Grain size: Fine grained Massive, feldspar porphyritic with 1-3% white ragged feldspars. 178.1m - 181.0m Fine grained margin pervasive fine disseminated calcite. 187.8m - 190.8m Inclusion of Int.-And? tuff: fine grained, some fine distorted banding. 188.3m - 190.8m may be a fine grained phase of diorite with pervasive calcite. 196.0m - 197.55m Sheared margin pervasive calcite. 196.0m contact 60 197.5m contact 45 197.55m - 198.9m Dyke or and. tuff?? Pervasive calcite, fine grained, weakly foliated.		197.9m - 198.2m Carbonate - chlorite - quartz vein.		
198.90 TO 205.30	Felsic Ash, Tuff «F ASH, TUFF»	Colour: Light grey, light green Grain size: Fine grained Weakly foliated, patchy quartz phyric with 1-2% 1-2mm rounded shattered quartz eyes. 203.2m - 204.2m Possible reworking of felsic ash with an andesite component. Medium green up to 10-15% <1mm quartz grains in a more mafic		«W-M Ser/Chl» Weak to moderate sericite-chlorite alteration.	«1-2% py» 1-2% finely disseminated pyrite.	Lithogeochem BCD 11524 200.0m - 202.5m.

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		groundmass. 205.3m Lower contact slightly irregular-not sharp-weakly gradational.				
205.30 TO 217.40	Andesite Ash, Tuff «AND ASH, TUFF»	Colour: Medium to dark green Grain size: Fine grained 205.3m to approx. 211.3m finer andesite ash, rare fine bedding. 205.3m - 207.45m some reworking and mixing with felsic material - rare QP tuff fragments and some zones with 10% fine quartz grains. 207.6m bedding Below 211.3m andesite becoming coarser grained. Below 213.0m up to 5% epidotized feldspars. 212.4m foliation	40 50	«M Chl» Moderately chloritic.	«<1-1% py» <1-1% disseminated pyrite. 206.8m - 208.2m 2-4% fine disseminated pyrite. 1mm bedded pyrite at 208.2m.	
217.40 TO 277.40	Felsic Lapilli Tuff «F LAP TUFF »	Colour: Light to medium grey Grain size: Fine grained Massive, pervasive mottled appearance with indistinct ghosted felsic fragments up to 7cm. Strong siliceous appearance. 233.7m - 238.2m QFP crystal tuff: massive, 1-2% rounded shattered quartz eyes, 2-3% faint whitish feldspars. Rare QP patches.		«W Ser, S Sil» Weakly sericitic, strong silicification 260.7m - 261.8m Weak quartz - epidote veining. 261.95m - 262.15m Quartz vein. 262.55m - 264.0m Moderate chlorite alteration of groundmass.	tr - <1% py. 258.9m - 259.05m 3-5% thin wispy magnetite. 261.95m - 262.55m <1% py, 2-3% magnetite, includes 261.95m - 262.15m 15-20% magnetite forming poor stockwork	228m - 233m, 237m - 239m very blocky and rubbly core. Poor recovery. Lithogeochem BCD 11525 245.0m - 248.0m 270.4m - 277.4m Rubbly broken core, especially 274.5m - 277.4m.

Sample	From (m)	To (m)	Length (m)	ASSAYS CU %	ZN %	PB %	AG gm/T	AU gm/T	GEOCHEMICAL CU ppm	ZN ppm	PB ppm	AG ppm	AU ppb	BA ppm		COMMENTS
12731	74.20	75.30	1.10						74	54		1.3	5			
12732	78.50	79.90	1.40						56	49		1	5			
12733	157.65	158.60	0.95						32	88		1.6	20	240		
12734	158.60	159.45	0.85						14	93		1.5	10			
12735	206.80	208.20	1.40						519	72		1.3	10			
12736	261.95	262.55	0.60						224	28		0.9	5			

Sample	From (m)	To (m)	Length (m)	SIO2 %	AL2O3 %	CAO %	MGO %	NA2O %	K2O %	FE2O3 %	MNO2 %	TIO2 %	BA %	CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	AS PPM	SB PPM	SR %	ZR %	TOTAL %	S %
11520	64.60	67.60	3.00	47.01	19.31	6.42	6.12	2.03	1.75	9.66	0.21	0.88	0.043	175	32	21	1	5	25	2			94.97	1.32
11521	105.40	107.50	2.10	53.8	15.64	6.18	5.71	2.45	0.11	10.12	0.31	0.59	0.013	194	75	25	1.2	5	12	2			95.75	0.7
11522	143.50	146.50	3.00	53.84	15.68	4.76	5.66	2.29	0.74	10.41	0.26	0.57	0.05	60	59	28	0.8	5	21	2			95.82	1.4
11523	160.60	162.90	2.30	69.71	13.68	0.78	3.26	2.41	2.23	3.72	0.1	0.3	0.112	14	30	20	0.4	5	33	2			96.42	0.07
11524	200.00	202.50	2.50	70.8	12.81	0.62	1.59	2.61	2.05	5.02	0.04	0.31	0.111	17	18	11	0.4	5	46	1			98.66	2.7
11525	245.50	248.00	2.50	65.82	14.84	2.62	2.52	4.16	1.33	4.18	0.04	0.35	0.1	25	21	13	0.5	5	34	1			96.79	0.76

HOLE NUMBER: CM-15

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: CANAMERA
PROJECT NUMBER: 226
CLAIM NUMBER: COPPERMINT II
LOCATION: NTS 92 B/13

PLOTTING COORDS GRID: MTS
NORTH: 574.00S
EAST: 2576.00W
ELEV: 355.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -45° 0' 0"
LENGTH OF THE HOLE: 35.10m
START DEPTH: 0.00m
FINAL DEPTH: 35.10m

COLLAR GRID AZIMUTH: 30° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 30° 0' 0"

DATE STARTED: April 14, 1989
DATE COMPLETED: April 17, 1989
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: YES
HOLE SIZE: NQ

CONTRACTOR: FRONTIER DRILLING
CASING: REMOVED
CORE STORAGE: NO CORE

PURPOSE: TO TEST A WEAK VLF/MAG ANOMALY ON NORTHERN EDGE OF CLAIM

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-		-	-	-	-	-	
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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 35.10	«08»	HOLE ABANDONED IN OVERBURDEN DUE TO LARGE BOULDERS AND LOSS OF CIRCULATION				

Appendix II

Geochemical Data: Soils, Litho

ACME ANALYTICAL LABORATORIES
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: APRIL 27 1987
DATE REPORT MAILED: Apr. 30/87

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE CA P CR MG BA TI B AL NA K W SI ZR CE SN Y NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOILS -80 MESH AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

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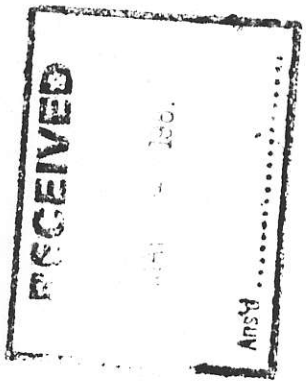

SAMPLE#	CU PPM	PB PPM	ZN PPM	AG PPM	AS PPM	AU* PPB
14+00W 2+25N	142	10	49	.1	11	10
14+00W 2+00N	163	12	93	.2	8	5
14+00W 1+75N	181	8	92	.1	7	4
14+00W 1+50N	64	12	82	.1	7	8
14+00W 1+25N	99	7	91	.1	6	2
14+00W 1+00N	36	10	118	.1	12	3
14+00W 0+75N	110	22	104	.1	10	4
14+00W 0+50N	74	14	88	.1	5	3
14+00W 0+25N	129	8	86	.1	6	2
14+00W 0+00S	201	17	120	.1	8	8
14+00W 0+25S	122	17	137	.1	7	3
14+00W 0+50S	114	19	146	.1	8	6
14+00W 0+75S	134	14	145	.1	7	5
14+00W 1+00S	197	13	148	.1	10	4
14+00W 1+25S	91	19	98	.1	7	3
14+00W 1+50S	79	12	114	.1	4	1
14+00W 1+75S	145	11	149	.1	9	7
14+00W 2+00S	133	8	124	.1	5	12
13+00W 0+00S	169	12	129	.1	8	2
13+00W 0+25S	132	11	130	.1	6	11
13+00W 0+50S	163	13	121	.1	9	3
13+00W 0+75S	127	16	122	.2	11	1
13+00W 1+00S	155	12	126	.2	9	4
13+00W 1+25S	170	12	123	.1	16	3
13+00W 1+50S	100	18	201	.1	12	2
13+00W 1+75S	201	16	99	.1	13	1
13+00W 2+00S	86	10	150	.2	7	2
5+00W 2+25N	526	16	149	.1	5	1
5+00W 2+00N	217	18	136	.1	5	3
5+00W 1+75N	407	17	163	.1	6	6
5+00W 1+50N	138	9	128	.4	9	2
5+00W 1+25N	292	10	150	.3	9	1
5+00W 1+00N	2130	13	239	.1	10	4
5+00W 0+75N	2342	13	353	.1	5	3
5+00W 0+50N	1753	11	652	.1	6	5
5+00W 0+25N	625	8	356	.1	2	21
STD C/AU-S	56	38	127	7.2	39	50

SAMPLE#	CU PPM	PB PPM	ZN PPM	AG PPM	AS PPM	AU* PPB
5+00W 0+00N	669	4	274	.1	5	7
5+00W 1+00S	76	5	64	.1	4	1
5+00W 1+25S	25	4	43	.2	4	4
5+00W 1+50S	41	7	64	.1	5	1
5+00W 1+75S	72	13	72	.1	6	3
5+00W 2+00S	24	7	91	.2	7	3
3+00W 0+00S	180	12	93	.2	9	73
3+00W 0+25S	278	4	127	.1	9	9
3+00W 0+50S	166	7	109	.2	11	2
3+00W 0+75S	324	6	132	.2	14	1
3+00W 1+00S	385	6	159	.1	9	2
3+00W 1+25S	273	4	117	.1	7	1
3+00W 1+50S	177	8	66	.1	12	4
3+00W 1+75S	262	15	108	.1	8	3
3+00W 2+00S	299	10	99	.2	8	4
3+00W 2+25S	196	5	149	.2	11	1
3+00W 2+50S	272	9	123	.1	10	1
3+00W 2+75S	101	4	133	.1	13	1
3+00W 3+00S	275	10	169	.5	12	2
3+00W 3+25S	1416	5	378	.1	9	1
3+00W 3+50S	86	9	62	.1	7	1
3+00W 3+75S	135	9	130	.2	8	2
3+00W 4+00S	51	3	70	.3	6	4
3+00W 4+25S	30	5	40	.1	2	1
3+00W 4+50S	28	9	72	.3	7	3
3+00W 4+75S	16	7	55	.3	6	1
3+00W 5+00S	26	3	51	.1	4	1
3+00W 5+25S	44	7	102	.2	7	2
3+00W 5+50S	59	7	51	.1	4	2
3+00W 5+75S	19	8	38	.1	4	2
3+00W 6+00S	28	2	66	.1	7	3
2+00W 2+50N	28	3	38	.2	4	1
2+00W 2+25N	19	7	30	.1	4	1
2+00W 2+00N	70	12	104	.1	5	4
2+00W 1+75N	18	5	36	.1	4	2
2+00W 1+50N	35	2	54	.1	6	3
STD C/AU-S	56	37	127	6.9	40	49

SAMPLE#	CU PPM	PB PPM	ZN PPM	AG PPM	AS PPM	AU* PPB
2+00W 1+20N	24	2	31	.1	3	1
2+00W 1+00N	56	8	40	.1	2	1
2+00W 0+75N	31	3	58	.1	2	1
2+00W 0+50N	42	7	41	.1	2	1
2+00W 0+25N	49	5	61	.1	3	1
2+00W 0+00S	68	8	69	.1	4	1
2+00W 0+25S	102	8	50	.1	6	1
2+00W 0+50S	98	7	66	.1	8	1
2+00W 0+70S	32	11	44	.1	2	1
2+00W 1+00S	71	8	85	.1	2	1
2+00W 1+25S	73	3	89	.1	2	1
2+00W 1+50S	129	8	64	.1	2	2
2+00W 1+80S	191	7	44	.2	6	4
2+00W 2+00S	79	2	50	.2	4	1
2+00W 2+50S	66	7	52	.1	4	9
2+00W 2+75S	147	8	77	.1	4	1
2+00W 3+00S	33	19	39	.4	4	1
2+00W 3+25S	96	10	65	.3	3	2
2+00W 3+50S	98	10	85	.1	6	1
2+00W 3+75S	108	7	51	.1	7	5
2+00W 4+00S	117	13	82	.2	7	1
2+00W 4+25S	70	8	91	.1	4	1
2+00W 4+50S	48	2	113	.1	5	2
2+00W 4+75S	99	5	87	.1	2	1
2+00W 5+00S	57	4	76	.3	6	1
2+00W 5+25S	38	5	69	.2	2	2
2+00W 5+50S	130	8	97	.2	6	1
2+00W 5+75S	121	13	152	.3	6	1
2+00W 6+00S	95	11	119	.2	4	1
1+00W 2+50N	22	12	55	.1	5	1
1+00W 2+25N	29	9	67	.1	2	1
1+00W 2+00N	26	6	37	.1	2	3
1+00W 1+75N	41	5	36	.1	2	1
1+00W 1+50N	57	5	49	.1	2	1
1+00W 1+25N	43	2	65	.1	2	2
1+00W 0+65N	60	7	74	.1	3	3
STD C/AU-S	57	39	129	6.8	38	50

SAMPLE#	CU PPM	PB PPM	ZN PPM	AG PPM	AS PPM	AU* PPB
1+00W 0+50N	18	6	80	.1	2	1
1+00W 0+25N	40	6	81	.3	8	1
1+00W 0+00S	65	11	57	.1	4	1
1+00W 0+25S	64	11	94	.1	9	1
1+00W 0+50S	88	9	90	.2	9	1
1+00W 0+75S	60	7	70	.2	2	1
1+00W 1+00S	91	11	87	.1	10	1
1+00W 1+25S	68	9	109	.2	9	1
1+00W 1+50S	57	11	101	.2	6	9
1+00W 1+75S	49	15	107	.2	6	3
1+00W 2+00S	68	9	132	.2	4	1
1+00W 2+25S	63	12	86	.2	2	1
1+00W 2+50S	71	5	40	.2	2	1
1+00W 2+75S	121	8	73	.1	5	1
1+00W 3+00S	69	8	57	.1	6	181
1+00W 3+25S	108	5	78	.3	8	3
1+00W 3+50S	90	8	83	.2	11	5
1+00W 3+75S	127	9	96	.1	9	1
1+00W 4+00S	106	11	90	.1	6	2
1+00W 4+25S	41	7	90	.1	5	9
1+00W 4+50S	50	8	71	.1	11	1
1+00W 4+75S	75	10	78	.3	8	3
1+00W 5+00S	29	4	120	.1	6	1
1+00W 5+25S	47	11	127	.1	8	1
1+00W 5+50S	43	8	96	.2	4	1
1+00W 5+75S	62	7	86	.1	11	3
1+00W 6+00S	41	10	99	.1	6	1
0+00W 2+50N	144	8	48	.1	2	2
0+00W 2+25N	146	7	48	.1	4	1
0+00W 2+00N	132	10	45	.1	6	1
0+00W 1+75N	95	2	44	.1	4	2
0+00W 1+50N	74	6	40	.1	2	1
0+00W 1+25N	68	5	44	.1	3	1
0+00W 1+00N	81	2	41	.1	4	1
0+00W 0+50N	59	7	51	.1	5	3
0+00W 0+45N	87	6	42	.1	7	1
STD C/AU-S	56	38	129	6.9	41	48

SAMPLE#	CU PPM	PB PPM	ZN PPM	AG PPM	AS PPM	AU* PPB
0+00W 0+25N	54	5	60	.1	5	1
0+00W 0+25S	51	12	61	.1	11	2
0+00W 0+50S	63	2	56	.1	5	1
0+00W 0+75S	78	9	58	.1	3	2
0+00W 1+00S	43	28	236	.1	3	29
0+00W 1+25S	53	6	72	.1	3	6
0+00W 1+50S	102	12	69	.1	6	3
STD C/AU-S	57	39	128	6.9	38	51

COMPANY: CORP.FALONBRIDGE COPPER — MIN-EN LABS ICP REPORT — (ACT:LI26) PAGE 1 OF 1

PROJECT NO: 326 — 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 — FILE NO: 7-319

ATTENTION: M.GRAY/H.GIBSON — (604)980-5814 OR (604)988-4524 — * TYPE ROCK GEOCHEM * — DATE:APRIL 24, 1987

(VALUES IN %)	AL203	BA	CAO	FE203	K20	MGO	MNO2	NA20	SIO2	SR	TIO2	ZR	TOT(%)
CT1-1	16.65	.309	.31	8.82	2.65	8.52	.58	.62	58.60	.01	.69	.005	97.77
CT1-2	16.73	.134	.55	9.11	1.19	8.42	.65	2.49	57.90	.01	.69	.005	97.89
CT1-3	13.16	.267	.01	13.90	1.66	6.57	.28	.81	60.69	.01	.61	.005	97.98
CT1-4	.87	35.546	.01	.76	.17	.22	.04	.01	33.73	.42	.02	.005	71.78
CT1-5	12.24	.624	.32	2.05	3.79	1.08	.05	.63	76.74	.01	.16	.005	97.71
CT1-6	12.27	.421	.44	2.16	3.23	1.25	.05	1.40	75.76	.01	.15	.005	97.15
CT1-7	14.26	.048	5.82	13.89	.03	7.40	.48	.09	53.33	.04	2.19	.010	97.59
CT1-8	9.53	7.205	.28	1.87	3.08	.74	.05	.11	74.78	.05	.13	.005	97.82
CT1-9	14.42	.386	1.14	2.13	5.64	1.16	.07	3.70	68.28	.02	.38	.006	97.33
CGL-3	13.52	.200	.19	.93	4.76	.89	.06	.11	77.19	.01	.19	.005	98.05
CGL-5	17.45	.159	.44	8.60	2.15	8.56	.43	1.86	57.60	.01	.80	.005	98.07
CGL-10	17.47	.021	8.80	9.37	.19	4.99	.35	4.52	50.94	.06	.96	.005	97.69
CGL-11	13.28	.100	.29	2.89	2.57	1.91	.09	2.84	73.79	.02	.27	.007	98.04
CGL-12	14.49	.023	8.19	11.29	.38	7.49	.29	2.94	51.05	.03	1.59	.005	97.77
CGL-14	14.29	.019	10.45	12.03	.37	6.40	.28	2.44	49.46	.02	1.89	.009	97.66
CGL-15	16.02	.102	.30	3.57	3.29	2.58	.12	3.19	68.51	.01	.37	.005	98.07
CGL-18	17.38	.042	1.32	8.44	.77	3.32	.24	7.25	58.17	.02	.91	.005	97.87
CGL-19	14.85	.014	9.11	12.82	.32	5.56	.31	2.31	49.17	.04	2.71	.014	97.24
CGL-20	15.24	.174	.05	3.43	3.23	3.89	.12	1.28	69.89	.01	.47	.005	97.79

COMPANY: MINNOVA INC. MIN-EN LABS ICP REPORT (ACT:LI2S) PAGE 1 OF 1

PROJECT NO: 326 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 FILE NO: 7-359/P1

ATTENTION: M.GRAY/H.GIBSON (604)980-5814 OR (604)988-4524 * TYPE ROCK GEOCHEM * DATE: APRIL 29, 1987

(VALUES IN %)	AL2O3	BA	CAO	FE2O3	K2O	MGO	MNO2	NA2O	SIO2	SR	TIO2	ZR	TOT(%)
CT1-12	13.23	.120	1.12	1.72	3.67	1.16	.05	.23	76.72	.01	.16	.005	98.20
CT1-13	16.18	.022	4.91	11.53	.30	6.87	.51	1.36	55.65	.02	.64	.005	98.03
CT1-14	19.32	.026	4.86	9.50	.77	5.62	.23	3.58	53.02	.04	.82	.005	97.79
CT1-15	19.14	.007	8.07	10.17	.13	5.05	.32	2.99	50.96	.06	.93	.005	97.79
CT1-16	19.81	.007	7.51	10.42	.08	6.45	.29	2.56	49.67	.06	.94	.005	97.79
CT1-17	15.02	.019	1.14	2.29	.15	1.11	.06	6.79	71.33	.02	.29	.005	98.23
CT1-18	19.34	.041	3.13	11.65	.50	5.57	.19	3.76	52.62	.04	.89	.005	97.73
CT1-19	14.05	.030	1.89	1.76	.30	.75	.06	5.43	73.56	.02	.24	.005	98.09
CT1-20	14.24	.036	.96	3.61	.29	2.06	.06	5.27	71.46	.02	.29	.005	98.30
CT2-1	15.61	.036	5.23	11.55	.45	6.56	.65	.39	56.64	.03	.70	.005	97.85
CT2-2	17.74	.070	3.81	10.58	.83	7.32	.61	2.18	53.86	.02	.70	.005	97.72
CT2-3	16.44	.026	3.17	9.91	.27	6.57	.56	2.81	57.62	.02	.63	.005	98.04
CT3-1	18.47	.042	3.96	8.83	.98	5.06	.17	3.97	55.34	.03	.94	.005	97.91
CT3-2	14.64	.006	9.06	14.08	.14	6.12	.31	2.18	48.26	.03	2.66	.012	97.49
CSL21	15.61	.080	.17	3.27	3.24	1.19	.06	5.11	69.15	.02	.37	.005	99.26

COMPANY: MINNOVA INC. MIN-EN LABS ICP REPORT (ACTIVLI24) PAGE 1 OF 1

PROJECT NO: 326 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 FILE NO: 7-34

ATTENTION: M.GRAY/H.GIBSON (604)980-5814 OR (604)988-4524 * TYPE ROCK GEOCHEM * DATE:APRIL 30, 1997

(VALUES IN %)	AL2O3	BA	CAO	FE2O3	K2O	MGO	MNO2	NA2O	SIO2	SR	TIO2	U3O8	TOT(%)
CGL-22	12.42	.202	.66	3.83	3.71	1.22	.05	.07	75.66	.01	.15	.005	97.99
CGL-23	12.86	.201	1.19	2.25	3.57	1.16	.06	.12	76.55	.01	.15	.005	98.12
CGL-24	9.90	.270	.01	6.59	3.27	.61	.01	.06	77.27	.01	.11	.005	98.11
CGL-25	16.37	.160	1.02	6.11	1.45	5.66	.28	3.37	63.14	.02	.54	.005	98.1[illegible]
CGL-26 ✓	14.75	.007	10.85	14.09	.04	7.09	.33	1.93	46.18	.04	2.37	.011	97.71
CGL-27 ✓	15.87	.099	7.80	5.77	2.25	3.16	.18	1.76	60.54	.02	.47	.005	97.92
CGL-28 ✓	12.61	.220	4.72	5.55	1.39	2.28	.16	2.97	67.56	.02	.50	.005	97.99
CGL-29 ✓	14.73	.085	2.60	3.85	2.32	2.18	.16	2.55	69.26	.03	.25	.005	98.03
CGL-30	19.38	.121	2.18	2.78	4.60	2.02	.08	3.51	62.94	.03	.39	.011	98.03

COMPANY: MINNOVA INC. MIN-EN LABS ICP REPORT (ACT:LI26) PAGE 1 OF 1

PROJECT NO: 326'& 305 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 FILE NO: 7-573

ATTENTION: M.GRAY/G.WELLS (604)980-5814 OR (604)988-4524 * TYPE ROCK GEOCHEM * DATE:JUNE 18, 1987

(VALUES IN %)	AL2O3	BA	CAO	FE2O3	K2O	MGO	MNO2	NA2O	SIO2	SR	TIO2	ZR	TOT(%)
CGL-31-PN326	13.54	.050	1.76	2.80	1.59	.93	.11	4.05	70.80	.02	.28	.009	95.94
CGL-32-PN326	16.41	.005	4.24	13.65	.04	7.03	.46	2.19	53.00	.03	.66	.005	97.72
CGL-33-PN326	15.16	.022	2.10	4.03	.66	.78	.08	5.84	68.90	.02	.33	.007	97.93
CGL-34-PN326	14.58	.078	.58	3.74	2.56	2.62	.15	2.51	70.95	.01	.32	.006	98.12
CGL-35-PN326	17.87	.049	3.03	9.37	1.31	5.50	.36	3.05	56.73	.03	.66	.005	97.95
CT4-1-PN326	15.08	.076	.05	3.41	2.93	1.15	.04	4.95	70.01	.02	.37	.006	98.10
CT4-2-PN326	18.30	.025	3.95	7.52	.53	1.91	.16	7.36	57.21	.03	.85	.007	97.87
GGL24-PN305	12.81	.071	.42	7.94	1.13	2.73	.11	3.11	68.64	.02	.62	.005	97.60
GGL26-PN305	15.27	.095	3.28	2.92	2.54	1.97	.10	3.47	64.51	.02	.26	.007	94.44
GGL27-PN305	16.32	.070	1.14	7.67	.36	3.01	.11	6.36	61.57	.03	.65	.005	97.28
GGL28-PN305	18.70	.054	3.57	8.43	1.87	4.87	.20	3.52	55.15	.03	.99	.010	97.39
HG87-21(EX)PN305	18.40	.009	9.59	10.28	.07	5.98	.27	3.61	47.46	.05	.92	.005	96.63

COMPANY: MINNOVA INC. MIN-EN LABS ICP REPORT (ACT:F26) PAGE 1 OF 1

PROJECT NO: 326+305 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 FILE NO: 8-528L/P1+2

ATTENTION: GARY WELLS (604)980-5814 OR (604)988-4524 * TYPE ROCK GEOCHEM * DATE:MAY 20, 1988

(VALUES IN %)	AL203	BA	CAO	FE203	K20	MGO	MNO2	NA20	SIO2	SR	TIO2	ZR	TOT(%)
CM 1000	10.42	.058	.01	2.85	1.16	.76	.03	2.24	79.26	.01	.22	.010	94.17
CM 1001	13.14	.092	.16	5.41	2.22	3.86	.15	.14	71.78	.01	.27	.009	91.85
CM 1002	15.35	.317	.01	2.37	4.17	.95	.01	.28	73.59	.01	.32	.009	95.01
CM 1003	17.49	.080	.39	9.51	1.47	8.33	.52	1.47	57.19	.01	.72	.009	87.68
CM 1004	13.77	.059	.80	4.24	1.37	1.87	.15	3.60	70.83	.01	.30	.010	92.77
CM 1005	15.05	.140	.01	6.62	2.69	4.03	.20	1.52	66.80	.01	.33	.011	90.80
CM 1006	13.45	.047	.50	4.00	1.01	1.77	.17	4.02	71.74	.01	.29	.010	93.03
CM 1007	14.51	.039	.69	3.86	.73	2.03	.25	4.80	69.87	.01	.30	.010	93.23
CM 1008	15.31	.105	.01	4.33	1.85	2.09	.18	3.75	69.46	.01	.34	.011	93.13
CM 1009	15.79	.041	.29	4.60	.74	1.92	.37	5.39	67.73	.01	.34	.012	92.63
CM 1010	14.48	.051	1.13	7.20	1.02	2.14	.27	3.81	65.96	.01	.35	.011	89.23
CM 1011	16.16	.027	1.16	5.14	.99	2.03	.35	4.86	65.75	.01	.35	.011	91.71
CM 1012	18.12	.012	5.09	9.79	.23	4.56	.51	3.38	53.59	.04	.62	.005	86.16
CM 1013	15.77	.028	2.33	4.71	.92	1.49	.17	5.00	65.28	.01	.34	.010	91.35
CM 1014	15.72	.039	1.20	4.73	.76	1.60	.23	5.19	67.09	.02	.36	.010	92.21
CM 1015	13.84	.209	.01	2.69	3.77	.70	.04	.17	75.99	.01	.16	.008	94.90
CM 1016	12.29	.193	.01	1.56	3.42	.60	.01	.13	79.25	.01	.14	.009	96.05
CM 1017	10.88	.128	.48	2.34	2.57	1.52	.06	.11	79.18	.01	.12	.008	95.07
CM 1018	17.76	.012	3.68	9.37	.26	4.25	.54	4.34	54.51	.03	.66	.006	86.04
CM 1019	18.52	.039	4.17	10.23	.53	4.88	.38	4.68	51.76	.03	.69	.007	85.68
BCD 9324	12.15	.152	.72	7.08	2.59	2.24	.07	.27	71.57	.01	.27	.007	90.04
BCD 9325	13.45	.159	.97	3.52	1.92	3.57	.10	1.39	71.26	.01	.27	.008	93.11
BCD 9276	14.78	.143	1.45	4.57	2.68	3.40	.08	.30	68.76	.01	.29	.009	91.90
BCD 9277	13.37	.119	2.71	4.86	2.36	.98	.04	1.33	69.64	.02	.29	.012	90.87
BCD 9278	15.42	.049	2.40	3.94	1.66	1.60	.06	4.14	66.50	.02	.35	.010	92.21
BCD 9279	16.96	.019	7.30	9.30	.42	4.84	.25	3.79	50.63	.04	.75	.008	85.01
BCD 9280	16.42	.097	2.35	7.05	1.85	4.40	.20	4.10	59.23	.02	.60	.008	89.27
BCD 9281	17.16	.040	4.19	7.96	1.55	3.43	.14	4.78	55.02	.03	.64	.011	86.99
BCD 9282	13.78	.061	2.35	4.48	2.00	2.73	.09	3.31	66.95	.02	.37	.009	91.67
BCD 9283	15.87	.072	2.04	5.72	2.14	3.29	.09	3.76	62.84	.01	.57	.008	90.70
BCD 9284	19.05	.022	2.76	8.08	.57	5.89	.20	5.42	52.87	.01	.69	.012	95.58
BCD 9285	18.24	.031	5.25	10.76	.51	4.95	.25	4.31	50.39	.03	.79	.008	95.51
BCD 9286	16.87	.084	.93	8.87	.89	6.42	.48	3.26	57.80	.01	.72	.010	96.33
BCD 9287	15.23	.103	2.38	4.40	1.24	2.31	.15	3.90	65.83	.01	.30	.009	95.87
BCD 9288	14.97	.030	3.37	3.85	1.68	1.92	.05	3.58	65.63	.02	.43	.012	95.55
BCD 9289	17.08	.028	5.81	9.06	.42	5.87	.24	4.61	51.07	.03	.75	.008	94.98
BCD 9290	17.40	.026	1.53	9.60	.98	9.86	.24	3.19	51.39	.01	.77	.008	95.01
BCD 9291	17.77	.064	4.07	8.31	1.86	4.24	.18	4.56	52.93	.02	.74	.010	94.76
BCD 9292	16.74	.046	4.37	5.59	1.55	2.36	.12	4.79	59.74	.02	.60	.010	95.94
BCD 9293	19.02	.012	2.58	8.54	.44	5.66	.20	5.33	54.17	.01	.71	.012	96.69
BCD 9294	16.47	.079	.63	4.07	1.22	4.61	.10	4.42	64.58	.01	.40	.011	96.61
BCD 9295	14.99	.156	.90	4.58	1.88	2.77	.15	2.62	68.22	.01	.33	.013	96.63

COMPANY: CORP.FALCONBRIDGE COPPER | MIN-EN LABS ICP REPORT | (ACT:GE027) PAGE 1 OF 1

PROJECT NO: 326 | 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE NO: 7-319/P1

ATTENTION: M.GRAY/H.GIBSON | (604)980-5814 OR (604)988-4524 | * TYPE ROCK GEOCHEM * | DATE:APRIL 24, 1987

(VALUES IN PPM)	AG	AS	B	CU	PB	SB	ZN	AU-PPB
CT1-1	.6	1	29	237	16	1	201	20
CT1-2	.6	1	30	272	12	1	239	5
CT1-3	1.3	1	25	386	18	8	109	60
CT1-4	.2	10	1	20	4	3	10	5
CT1-5	.2	7	5	39	3	2	24	5
CT1-6	.3	4	8	14	4	2	33	5
CT1-7	1.7	1	30	102	20	1	185	5
CT1-8	.2	4	9	258	6	3	18	5
CT1-9	.6	1	7	5	6	1	26	10
✓CGL-3	.1	6	6	63	4	2	14	10
✓CGL-5	1.5	1	27	38	12	1	132	5
✓CGL-10	1.3	1	20	41	8	1	51	10
✓CGL-11	.4	6	10	39	2	3	40	5
✓CGL-12	1.0	1	20	141	8	1	67	5
✓CGL-14	.9	1	23	114	14	5	68	10
✓CGL-15	.4	2	13	9	4	3	36	5
CGL-18	1.0	1	17	54	6	2	65	10
✓CGL-19	1.0	1	23	173	12	1	72	5
CGL-20	.3	5	11	4	4	2	37	5

COMPANY: MINNOVA INC. MIN-EN LABS ICP REPORT (ACT:GE027) PAGE 1 OF 1

PROJECT NO: 326 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 FILE NO: 7-327

ATTENTION: M.GRAY/H.GIBSON (604)980-5814 OR (604)988-4524 * TYPE ROCK GEOCHEM * DATE:APRIL 29, 1987

(VALUES IN PPM)	AG	AS	B	CU	PB	SB	ZN	AU-PPB
CT1-12	.4	1	50	23	2	1	17	5
CT1-13	.8	1	29	27	24	1	103	15
CT1-14	1.0	1	20	44	16	1	39	5
CT1-15	1.1	1	18	103	17	1	42	10
CT1-16	1.0	1	23	36	21	1	49	10
CT1-17	.5	1	9	11	2	1	14	10
CT1-18	.6	1	21	44	25	4	53	5
CT1-19	.4	1	2	14	4	1	10	5
CT1-20	.4	1	7	8	6	2	19	5
CT2-1	.8	1	15	74	20	1	234	5
CT2-2	1.2	1	19	896	25	1	130	10
CT2-3	.8	1	15	50	19	1	111	3
CT3-1	1.1	1	13	75	20	1	71	3
CT3-2	1.0	1	14	220	20	1	68	10
CGL21 ✓	.4	1	2	8	5	2	29	3

COMPANY: MINNOVA INC. MIN-EN LABS ICP REPORT (ACT:902027) PAGE 1 OF 1

PROJECT NO: 326 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 FILE NO: 7-341

ATTENTION: M.GRAY/H.GIBSON (604)980-5814 OR (604)988-4524 * TYPE ROCK GEOCHEM * DATE:APRIL 30, 1987

(VALUES IN PPM)	AG	AS	B	CU	PB	SB	ZN	AU-PPB
CGL-22	.4	1	9	19	4	1	23	5
CGL-23	.1	1	4	71	4	1	25	10
CGL-24	.3	1	3	96	2	7	9	10
CGL-25	.3	1	15	98	18	1	77	5
CGL-26	1.3	1	17	172	22	1	64	5
CGL-27	.7	1	15	43	16	1	58	5
CGL-28	1.0	1	7	61	16	1	74	3
CGL-29	.4	1	8	14	6	1	46	5
CGL-30	.4	1	6	6	8	1	48	5

COMPANY: MINNOVA INC. MIN-EN LABS ICP REPORT (ACT:GE027) PAGE 1 OF 1

PROJECT NO: 326 & 305 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 FILE NO: 7-573

ATTENTION: M.GRAY/G.WELLS (604)980-5814 OR (604)988-4524 * TYPE ROCK GEOCHEM * DATE:JUNE 18, 1987

(VALUES IN PPM)	AG	AS	B	CU	PB	SB	ZN	AU-PPB
CGL-31 PN-326	.1	3	5	97	7	1	30	5
CGL-32 PN-326	1.1	14	21	320	27	4	83	5
CGL-33 PN-326	.2	8	7	32	6	2	20	5
CGL-34 PN-326	.3	9	10	8	7	2	54	5
CGL-35 PN-326	1.0	4	26	191	7	4	69	5
CT4-1 PN-326	.3	10	5	11	4	2	35	5
CT4-2 PN-326	1.0	21	9	62	7	2	11	5
GGL-24 PN-305	1.0	10	14	66	12	7	75	10
GGL-26 PN-305	.6	2	9	7	18	1	59	15
GGL-27 PN-305	1.4	17	10	72	14	6	52	5
GGL-28 PN-305	1.1	2	18	51	12	4	69	5
HG-8721 PN-305	1.3	17	14	77	8	3	27	5

COMPANY: MINNOVA INC. MIN-EN LABS ICP REPORT (ACT:F31) PAGE 1 OF 1
PROJECT NO: 326+305 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 FILE NO: 8-528/P1+2
ATTENTION: GARY WELLS (604)980-5814 OR (604)988-4524 * TYPE ROCK GEOCHEM * DATE:MAY 20, 1988

(VALUES IN PPM)	AG	AS	B	CU	PB	SB	ZN	AU-PPB
CM 1000	1.0	39	4	7	18	3	54	5
CM 1001	.3	11	4	13	11	1	110	5
CM 1002	1.4	37	3	15	16	4	20	10
CM 1003	.3	12	4	35	4	4	348	5
CM 1004	.6	23	4	16	13	2	219	5
CM 1005	.4	26	4	15	14	1	176	5
CM 1006	.4	18	4	26	14	2	136	5
CM 1007	.4	9	4	26	16	2	211	5
CM 1008	.5	17	4	57	14	2	159	5
CM 1009	.3	3	4	226	22	4	461	10
CM 1010	.7	30	4	867	17	2	451	5
CM 1011	.3	6	4	56	30	1	374	5
CM 1012	.6	11	4	5	17	5	109	5
CM 1013	.3	57	4	21	18	3	154	15
CM 1014	.6	18	4	549	24	4	169	5
CM 1015	.9	28	3	38	13	3	30	5
CM 1016	1.0	37	3	14	12	3	16	5
CM 1017	.8	41	3	6	13	2	37	10
CM 1018	.7	23	4	56	20	5	250	5
CM 1019	.7	28	4	44	15	4	325	5
BCD 9324	.5	9	4	4	12	1	42	5
BCD 9325	.5	6	4	37	14	1	58	5
BCD 9276	.6	9	4	76	15	1	43	5
BCD 9277	2.6	47	4	78	31	2	564	810
BCD 9278	.7	21	4	3	12	2	41	5
BCD 9279	.3	18	4	37	9	4	87	5
BCD 9280	.5	28	4	3	15	4	72	5
BCD 9281	.4	27	4	5	16	4	60	5
BCD 9282	.6	16	5	11	11	1	62	5
BCD 9283	.4	30	5	32	17	1	48	5
BCD 9284	.3	34	3	12	10	4	73	5
BCD 9285	.1	26	4	82	16	3	96	5
BCD 9286	.2	31	3	336	33	5	290	5
BCD 9287	.8	41	3	433	22	5	55	5
BCD 9288	.8	32	4	2	22	3	39	5
BCD 9289	.7	34	3	56	16	5	101	5
BCD 9290	.3	27	3	82	22	4	65	5
BCD 9291	.2	18	5	3	16	2	55	10
BCD 9292	.2	5	4	64	21	1	75	5
BCD 9293	.6	18	3	2	24	3	61	5
BCD 9294	.7	22	3	509	26	3	81	5
BCD 9295	.6	22	3	508	25	3	82	5

LEGEND

5	Nanaima Group: Conglomerate, Shale, Sandstone
McLaughlin Ridge Formation	
3	Felsic Ash, Crystal Lapilli Tuffs, Minor Cherts – Cherty Tuffs
2	Intermediate Ash, Crystal Tuff, Minor Interbedded Cherty Tuffs
2.5	Argillite, Cherty Argillite
1	Andesite Ash, Crystal & Lapilli Tuffs
Intrusives	
4	Diorite Sills & Dykes

	Geochem Sample Location
CT-5	Trench
CM-7	Diamond Drill Hole
	Geologic Contact
	Fault
	Foliation
	Bedding
	Survey Claim Post (inferred,located)
	Road,Trail
	Canamera Claim Outline
	Internal Claim Line
	VLF anomaly.

MINNOVA Inc.

CANAMERA OPTION

GEOLOGY

0 50 100 150 200 250

SCALE: 1:2500

inches 0 1 2
centimetres 0 1 2 3 4 5

This reference scale bar has been added to the original plan. Use the scale of the same unit as the image, therefore it may not be the reference for the original size.

N.T.S. 92B/13		MAP: 3
DRAWN BY: GSW/PTB		
DATE: MAY 90		

M-B Chemainus River Logging Road

CHEMAINUS RIVER

KLONDIKE C.G.

SUSAN C.G.

VICTORIA FRAC.

COPPER CANYON C.G.

ELMORE FRAC.

MURIEL FRAC.

VICTORIA C.G.

COPPER MINT III

COPPER MINT II

COPPER MINT I

BLO

2+00S

5+00S

8+00S

16W

15W

14W

13W

12W

11W

10W

9W

8W

7W

6W

5W

4W

3W

2W

1W

2S

1S

BL

1N

2N

3N

4N

5N

6S

LEGEND

- Survey Claim Post (inferred, located)
- Road
- CANAMERA Claim Outline
- Internal Claim Line

Cu ppm / Zn ppm

- Minnova Soils
- Canamera Soils
- Minnova & Canamera Soils

MINNOVA Inc.

CANAMERA OPTION

SOIL GEOCHEMISTRY
Cu ppm, Zn ppm

0 50 100 150 200 250

SCALE: 1:2500

N.T.S. 92B/13		MAP: 4
DRAWN BY: PTB		
DATE: MAY 90		

inches 1 0

centimetres 0 1 2 3 4 5

This reference scale bar applies to the original map. It will scale at the same rate if the map is reduced and can be used as a reference for the original size.

M+B Chemainus River Logging Road

CHEMAINUS RIVER

KLONDIKE C.G.

SUSAN C.G.

VICTORIA FRAC.

VICTORIA C.G.

CU CANYON C.G.

ELMORE FRAC.

MURIEL FRAC.

COPPER MINT III

COPPER MINT II

COPPER MINT I

BLO

2N

5+00S

2+00S

8+00S

16W

15W

14W

13W

12W

11W

10W

9W

8W

7W

6W

5W

4W

3W

2W

1W

2S

6S

N

LEGEND

- Survey Claim Post (inferred,located)
- Road
- CANAMERA Claim Outline
- Internal Claim Line
- VLF Fraser Filtered Conductor Axis (Mag Base 56,000 γ)

Separate from above line

MINNOVA Inc.

CANAMERA OPTION

GEOPHYSICS
MAG,VLF

0 50 100 150 200 250

SCALE: 1:2500

Inches 0 1 2 centimetres 0 1 2 3 4 5

This reference scale bar has been added to the original image. It will change if the image is resized as the image, therefore it can be used as a reference for the original size.

N.T.S. 92B/13		MAP: 5
DRAWN BY: GSW/PTB		
DATE: MAY 90		