

825191

DETAILED DRILL LOGS FOR DUSTY MAC

1988





FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
				<p>66.3 - 69.7} «Tectonic Bx» - Tectonic bx with silica + carb infill matrix a black soft non-carb material with frags of calcite, QV, and green (Talc?) QV? with some chl in matrix - No apparent bleaching</p> <p>66.3 - 69.3 10% Tect. Bx</p> <p>69.3 - 69.7 30% Tect Bx - Carb veinlets - Bx along fract. @ 45 degrees to C.A.</p>	<p>66.3 - 69.7} «Avg. 10% f.g. py» - Average 10% extremely fine grained disseminated pyrite with occasional clot or veinlet - Trace blebs of pale sp?</p>	
69.70 TO 70.50	FAULT WITH QV BX «FLT W/» «QV BX»	<p>«10-15% carb frags, 30% QV frags» Colour - white - dark grey. Grain Size - fine grained. Mixture of Ang. frags. in a very broken fault. - moderate 10-15% carb frags 30% QV frags 10% Wallrock frags</p> <p>69.9 - 70.0} «Intense fault» Intense core to fault with carb rich clay. - some hematite + chl patches</p>		<p>- Matrix dark grey - black (almost Micaceous) - Frags spotted and pervasive, altered by soft apple green mineral</p>	Trace - .5% disseminated pyrite.	
70.50 TO 103.20	FP ANDESITE FLOW «FP AND.» «FLOW»	<p>Colour - light green - light brown. Grain Size - medium to coarse grained. Same as before with 1% altered Px crystals.</p>		<p>70.5 - 73.5} «2% carb veinlets» 2% fine carb veinlets on fract. - 1-2% QV Bx approx. 1cm along fract. @ 45 degrees to C.A. with white or black Qtz.</p> <p>79.8 - 87.6} «5% Qtz-carb veinlets» 5% Qtz-carb veinlets, 1mm-10mm @ 45 degrees to C.A. - some veinlets laminated - weak green (apple) alteration rim around veinlets 1cm on selvage</p>	<p>70.5 - 73.5} «5-8% f.g. py» Avg. 5-8% disseminated very fine grained pyrite + occasional bleb.</p> <p>73.5 - 92.4} «5% py» Avg. 5% disseminated pyrite.</p>	<p>79.8 - 87.6} «Mod. Fault Zone» Moderate Fault Zone with broken rock &amp; minor clay gouge.</p> <p>87.5 - 87.6} «Fault» Fault with 80% clay gouge.</p>
					92.4 - 103.2	



FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
				94.6 - 103.2 - Rock becomes bleached with a light grey - light green. - Appears fract. controlled but could be a basal fl-bx feature? - 1-2% calcite veinlets.	Pyrite decreasing to an average 1-2% finely disseminated.	
103.20 TO 109.90	ANDESITE LAHAR «AND.LAHAR»	Colour - apple green - medium grey. Grain Size - medium grained.  103.2 - 108.0 Apple green - (Epidote alteration) with an assortment of ang. frags. 1-10cm including coarse FP And. frags, light grey, fine grained felsic? frags, siltstone? frags. - Rock appears to have crude flow banding @ 45 degrees to axis.  108.0 - 109.9 Rock becomes grey (gradational with very fine grained pyrite).		- Matrix appears epidote altered with rims on frags but appears primary. - 1-2% carb with fract. + replacement of fp's	1% very fine grained disseminated pyrite.  ‡108.0 - 109.9‡ «5% py» 5% very fine grained disseminated pyrite.	
109.90 TO 119.20	FP ANDESITE FLOW «FP AND.» «FLOW»	Colour - medium green. Grain Size - medium grained. - Massive, medium green, fine grained matrix with 1-3mm plag. phenos. - Darker green (due to py content?) - Occasional px crystals. - Occasional fl-bx zone.		1% Qtz-Carb veinlets.	‡109.9 - 119.2‡ «5-8% py» Average 5-8% very fine grained disseminated pyrite.	
119.20 TO 134.10	QTZ-CARB STOCKWORK IN A FAULT ZONE «QTZ-CARB» «STKW» «FLT ZONE»	Colour - dark grey. Grain Size - fine grained. - Host rock, And. flow (FP) and Lahar with high pyrite content.		«5% Qtz-Carb»  - 5% Qtz-Carb veinlets (white) along tension gashes @ 30-70 degrees to CA. Avg. 45 degrees to CA (1-10mm). - Some talc on selvages on Qtz-Carb veinlets.	«10% py»  - Generally 10% fine grained dissem. syng. pyrite. - but some pyrite as veinlets along Qtz-Carb veinlets.	‡119.2 - 130.5‡ «Fault» Fault reactivated with rock very broken with clay gouge.

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		{133.3 - 134.1} «Qtz-Carb Bx» Qtz-Carb breccia similar to the pit area with multistage Qtz-Carb frags in a chl altered matrix.			{133.3 - 134.1} «tr cpy» Trace cpy blebs, trace fine grained grey mineral (tet?).	In places Qtz-Carb veinlets broken by younger fault.
134.10 TO 147.90	ANDESITE LAHAR WITH SEDIMENTS «AND.LAHAR» «W/ SEDS»	Colour - medium green. Grain Size - medium grained.  134.1 - 135.6 Gritty andesite siltstone.  136.7 - 138.1 Graphitic argillite.  Lahar a fine grained andesite matrix with a mixture of ang. And. frags 1-5cm +/- FP + occasional sed. frag + pale fine grained (Dacite?) frag. (Lower Lahar?)		- 2% Qtz-Carb fragments along tension gashes. - Occasional crystal of green mica. - 145.4 1cm Qtz-Carb vein has grain of purple fluorite. - Fractures + Faults generally @ 45 degrees to C.A.	«2-3% py»  Average 2-3% disseminated pyrite.	{137.1 - 137.6} «Fault zone» Fault zone with graphitic gouge, 60% recovery. Occasional 20cm fault with clay alteration.  {147.3 - 147.9} «S. Flt 45 deg. to CA» Strong fault with clay gouge 45 degrees to C.A.
147.90 TO 152.30	ANDESITE F+PX PORPH. FLOW «AND. F+PX» «PORPH.FLW»	Colour - light green. Grain Size - fine grained. - A light green competent matrix with 1-2mm phenos of plag + px. - Px crystals altered to a pale yellow colour. - Massive Flow.		«5% Qtz-Carb veinlets»  - Moderate interstit. carb with weak bleaching. - 5% Qtz-Carb veinlets (+/- Py) 1-10mm @ 45 degrees to C.A. - 1% green micas in matrix. - White Qtz-Carb veinlets cross-cut sulphide veinlets.	«10% f.g. py, Avg. 15% py»  - 10% fine grained pyrite in veinlets with trace sp? Pale mineral. - 5% fine grained disseminated pyrite  Avg. = 15% py	{151.5 - 152.3} «Mod. Fault» Moderate fault with clay gouge.
152.30 TO 168.70	ANDESITE LAHAR «AND.LAHAR»	Colour - medium green. Grain Size - fine grained. - A fine grained Andesite matrix with dominantly andesite frags, ang. 1-5cm with plag +/- px phenos, occasional sed. frag, and hematite rich and frags, fine grained and frags + occasional Qtz-Carb frag.		- 2-3% Qtz-Carb veinlets with moderate interstit. carb.	- 2-3% py blebs 1-4mm.	166.7 Intense fault with clay gouge, 10cm.

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
165.70 TO 191.40	AND. CONGL. W/ SEDS. «AND.CONGL» «W/ SEDS.»	Colour - dark green - dark grey. Grain Size - medium grained. 70% Lahar-Conglomerate Matrix, Andesite + siltstone +/- argillite with subrounded frags of Andesite +/- FP + Px crystals, occasional siltstone and dacite frags. (Lower Lahar Section) Coal seams @ 176.5 - 177.0 185.2 - 185.3 Sediments vary from coal-arg, siltstone, sandstone to conglomerate. Bedding @ 170.5m 175.3m 186.4m	70 70 70	1% Qtz-Carbonate veinlets.	Avg. 1-2% pyrite disseminations with occasional pyrite veinlet.	
191.40 TO 203.30	ANDESITE LAHAR «AND.LAHAR»	Colour - medium green. Grain Size - medium grained. - Andesite Lahar with a medium grained matrix has sub. ang. frags. .5-10cm of plag rich And. +/- Px, hematite rich And., occasional sed. frag.		{191.4 - 192.9} «10% Qtz-Carb veinlets» Zone brecciated with 10% 1-3mm Qtz-Carb veinlets. - Weakly bleached.  192.9 - 203.3 2-3% 1mm Qtz-Carb veinlets.	{191.4 - 192.9} «5% py» 5% fine grained finely disseminated pyrite.  192.9 - 203.3 1% disseminated pyrite.	
203.30 TO 215.20						

Sample	From (m)	To (m)	Length (m)	ASSAYS		GEOCHEMICAL		COMMENTS
				AG PPH	AU PPB	AU GM/T	AG GM/T	
12054	66.30	67.80	1.50	1.8	3			
12055	67.80	69.70	1.90	5.1	14			
12056	69.70	70.50	0.80	108.0	1020	1.02	109.4	
12057	70.50	72.00	1.50	27.1	12			
12058	72.00	73.50	1.50	3.3	13			
12059	81.30	82.80	1.50	2.5	4			
12060	84.30	85.80	1.50	3.0	11			
12062	100.90	102.40	1.50	1.8	2			
12065	119.20	120.70	1.50	1.2	3			
12066	120.70	122.20	1.50	.9	2			
12067	122.20	123.70	1.50	2.0	6			
12068	123.70	125.20	1.50	2.2	4			
12069	125.20	126.70	1.50	2.0	2			
12070	126.70	128.20	1.50	2.1	1			
12071	128.20	129.70	1.50	1.3	3			
12072	129.70	131.20	1.50	1.4	2			
12073	131.20	133.30	2.10	1.1	1			
12074	133.30	134.10	0.80	2.0	40	.04	2.3	
12075	134.10	135.60	1.50	.8	4			
12077	147.90	149.40	1.50	.4	2			
12078	149.40	150.90	1.50	.3	1			
12079	150.90	152.30	1.40	.4	3			
12081	191.40	192.90	1.50	.9	2			

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Sample	From (m)	To (m)	Length (m)	AG PPM	AU PPB
12051	19.40	22.40	3.00		5
12052	38.80	41.80	3.00		5
12053	63.10	66.10	3.00		10
12061	90.50	93.50	3.00		5
12063	105.50	108.50	3.00		5
12064	111.60	114.60	3.00		5
12076	142.40	145.40	3.00		5
12080	160.60	163.70	3.10		5
12081	200.30	203.30	3.00		10

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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 43.70	CASING «OB»					Casing
43.70 TO 67.70	SANDSTONE & CONGLOM. «SDST &» «CONGL.»	Colour - medium grey to medium green. Grain Size - medium to coarse grained. 2-6m beds of sandstone (volc. derive) with 10% argillite laminations interbedded with coarse 2-6m beds of conglomerate with 1-20cm pebbles + cobbles of various Andesite flows + 5% sediment fragments.  Bedding @ 43.8m 54.0m 64.0	65 70 80	43.7 - 67.7 «2-3% Qtz-Carb veinlets» - 2-3% Qtz-Carb veinlets, 1-4mm @ avg. 45 degrees to CA - Occasional wuggy veinlet. - Weak interstit. carb. alteration.  57.2 - 59.2 3 (2-3cm) Qtz-Carb vein breccia @ 45 degrees to CA with ang. Qtz-Carb chips trace hematite.	43.7 - 67.7 Trace disseminated pyrite.	445.3 - 46.2 «Fault zone» Fault zone with graph. clay gouge.
67.70 TO 81.20	ANDESITE LAHAR WITH QV FRAGS «AND.LAHAR» «QV FRAGS»	«5-7% ang. 1-5cm chalcedony fragments» Colour - medium green. Grain Size - medium grained. Andesite matrix with 1-15cm Sub Ang. fragments. 80-90% various Andesite frags +/- Plag. +/- Px +/- Hem. - Occasional frag of siltstone. - 5-7% angular 1-5cm chalcedony fragments. (Primary + cross-cut by Qtz-Carb veinlets.) with light green alteration on rims +/- py on rims.		«1-2% Qtz-Carb veinlets»  - 1-2% Qtz-Carb veinlets cross-cutting large stage @ all angles. - Matrix altered by a secondary? black (healed bx?) material (sulph. + f.g. black material).	«Avg. 3-4% py»  Avg. 3-4% fine grained pyrite as blebs + veinlets.	
81.20 TO 103.70	F.PORPHYRY ANDESITE FLOW «FP, AND.»	Colour - medium grey to medium green. Grain Size - medium grained. - 1-3mm Plag. phenos in a fine grained andesite matrix. - Occasional Px crystal and 1% Qtz-calcite filled vesicles. - Occasional Fl-Bx with sub-angular andesite frags.			«Avg. 2-3% f.g. py blebs»	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		81.2 - 92.2 Medium grey.		{81.2 - 92.0} «2-3% Qtz-Carb veinlets» Avg. 2-3% Qtz-Carb veinlets, 1-5mm @ 45 degrees to CA.		
		92.2 - 103.7 Medium green.		{92.0 - 103.7} «5% Qtz-Carb veinlets » «45 degrees to CA» Increase to 5% Qtz-Carb veinlets @ 45 degrees to CA.		
103.70 TO 115.30	FAULT ZONE (MODERATE) «FLT ZONE»	Colour - light green. Grain Size - medium grained. - Hematite rich Lahar Host, 10% Primary Hematite beds & frags. - 20% clay gouge @ 50-60 degrees to C.A. - appears as a reactivated fault with old healed fault with clay gouge @ 80-90 degrees to C.A.		«2-3% Qtz-Carb vniets, 1-2% ang. QV frag»  - 2-3% Qtz-Carb veinlets +/- talc on selvages - 1-2% Ang. QV frags.	«2-3% dissem. py»	
115.30 TO 137.70	ANDESITE LAHAR WITH ANDESITE TUFFS (LOWER) «AND.LAHAR» «AND.TUFFS»	Colour - dark to medium green - medium purple. Grain Size - medium grained. - Assortment of ang. frags 1-5cm in a fine grained to medium grained andesite matrix +/- hematite (80% andesite frags, 5% seds., 5% dacite) - Finely laminated light green tuff with sub-round 1cm andesite frags 20%. - Occasional 20-30cm siltstone and argillite bed.  Bedding @ 114.5m 134.0m	45 70	«1-2% Qtz-carb veinlets, occas. Qtz-» «carb bx, 30% ang. Qtz-carb frags»  Avg. 1-2% Qtz-Carb veinlets. Occasional 30-40 cm zone with Qtz-Carb breccia with 30% angular Qtz-carb frags	«5-8% py»  - Avg. 5-8% disseminated pyrite in matrix. - 1-2% pyrite blebs 1-4mm.	
137.70 TO 162.50	CONGLOMERATE «CONGLOM.»	Colour - dark green to dark purple. Grain Size - medium grained. - A medium grained matrix with strong andesite comp. +/- hematite. Sub-round - round pebbles 5-8% dacite frags. - 2-3% argillite laminations.  Bedding 147.3m	60	«2% Qtz-Carb veinlets»	«3-4% py»  Avg. 3-4% py blebs + veinlets.	141.5 - 143.8 Thin fault @ 0 degrees to CA with clay gouge.



HOLE NUMBER: DM-02

MINNOVA INC.  
DRILL HOLE RECORD

DATE: 21-November-1988

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
162.50 TO 164.50	FAULT GOUGE «FLT GOUGE»	Colour - black - light grey. Grain Size - fine grained. - A matrix of fine grained black material. - 40% 1-15mm ang. Dacite fragments. - 10% 5cm andesite (FP) frags (angular). - 45-60 degrees to C.A. - 10-15% clay gouge.		- trace Qtz-Carb - fragments bleached with minor talc	- trace disseminated pyrite	
164.50 TO 185.10	ANDESITE LAHAR HEMATITE RICH «AND.LAHAR» «HEM.RICH»	Colour - light red - light brown. Grain Size - medium grained. - Very distinctive unit. - Matrix fine - medium grained hematite rich andesite. - Sub-angular frags 5mm-10cm, 30% various and frags, 30% dacite fragments (bleached).		«2% Qtz-Carb veinlets»  - 2% Qtz-Carb veinlets, 1-10mm @ 45 degrees to C.A. +/- talc. - weak bleaching + strong hematite (10+%).	- trace disseminated pyrite. - 1% coarse pyrite around veinlets.	
185.10 TO 199.00	MARAMA DACITE DOME «MARAMA» «DAC.DOME»	Colour - light brown. Grain Size - fine grained. - Fault Contact. - Fine grained, light brown, felsic matrix with 1mm feldspar pheno and occasional 1mm Qtz eye. - Massive, quite competent.		«1% Qtz-Carb veinlets, 1% Talc veinlets»  - 1% Qtz-Carb veinlets, 1-2mm. - 1% Talc veinlets, 1-2mm on fract. @ 45 degrees to C.A. - Minor sericite.	- trace fine grained disseminated pyrite. - 1% coarse pyrite in veinlets.	

HOLE NUMBER: DM-02

DRILL HOLE RECORD

LOGGED BY: G. EVANS

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Sample	From (m)	To (m)	Length (m)	ASSAYS		GEOCHEMICAL		COMMENTS
				AG PPM	AU PPB	AU GM/T	AG GM/T	
12101	45.30	46.20	0.90	.8	2			
12102	57.20	59.20	2.00	.5	2			
12103	67.20	68.70	1.50	3.1	180			
12104	70.20	71.70	1.50	1.7	61			
12105	73.20	74.70	1.50	2.0	57			
12106	76.20	77.70	1.50	1.3	40			
12107	79.20	81.20	2.00	3.1	72			
12109	93.60	95.10	1.50	.1	8			
12110	101.20	102.70	1.50	.3	3			
12111	108.00	109.50	1.50	.6	12			
12112	111.00	112.50	1.50	.4	125			
12115	162.50	164.50	2.00	1.0	14			
12117	181.70	183.20	1.50	.6	2			

HOLE NUMBER: DM-02

GEOCHEM. SHEET

DATE: 21-November-1988

Sample	From (m)	To (m)	Length (m)	AG PPH	AU PPB
12108	84.30	87.40	3.10	1.5	5
12113	121.00	124.00	3.00	.2	5
12114	147.20	151.50	4.30	1.0	5
12116	169.80	172.80	3.00	.6	5
12118	187.80	190.80	3.00	1.0	5

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GEOCHEM. SHEET

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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 32.90	casing «OS»				casing (Lake Bed Silt)	
32.90 TO 62.40	«Andesite» «Lahar»	Colour: medium green, dark green, medium purple Grain Size: medium grained -Matrix a medium grained Andesite +/- hematite Fragments sub-angular 1-10cm, 60% various Andesite fragments +/- Felspar porphyry +/- Pyroxene +/- fgr 10% Dacite fragments 2-3% QV fragments -Occasional silty argillite lamination + occasional matrix becomes argillite rich	70	-4% Qtz-Carb veinlets @ 30 deg to CA  {32.9-51.2} «2-3% py» Avg. 2-3% disseminated pyrite {51.2-62.4} «Py 5-8%» Py increasing to 5-8% fgr dissem	{32.9-37.4} 65% recovery {44.3-45.0} «Fault (strong)(80 deg) «to CA» Fault (strong) with 50% Clay Gouge (80 deg to CA) {47.4-48.0} «Strong Fault» Strong Fault with clay gouge	
62.40 TO 70.40	«Fault» «zone»	-hosted in Andesite Lahar -40% broken core with minor clay gouge -Fract @ 50 deg to CA		«2% (Celadentie), 5% Qtz-Carb veins» «5% QV frags» -Alteration increasing with weak pervas. bleaching -2% light blue mod soft mineral (Celadentie) previously called Turq -5J% Qtz-Carb veins up to 10 cm -5% QV frags earlier stage	«Avg. 10% Py»  Avg 8% Py disseminated 2% blebs + veinlets very f.g. - primary? Avg. 10% Py	
70.40 TO 85.00	«Marama» «dacite» «dome»	Colour: light brown, light grey Grain Size: fine grained, medium grained -Massive f.g. Felsic Matrix 1 mm Feldspar phenos -Occasional 1mm QP		- 1-2% Qtz-Carb veinlets +/- talc alteration	«3-4% py»  -3-4% f.g dissem py	Rock generally mod broken in a broad fault zone.
85.00 TO 87.50	«Fault» «Zone»	Colour: medium green Grain Size: medium green -Matrix crushed with clay -Lahar is host		«5% Qtz-Carb»	2-3 % disem py	-2-3% dissem py

MINNOVA INC.  
DRILL HOLE RECORD

HOLE NUMBER: DM-03

DATE: 21-November-1988

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
87.50 TO 90.20	«Andesite» «Lahar» with sediments	Colour: medium green Grain Size: medium grained -medium grained green Andesite matrix with sub-angular 1-10 cm fragments 40% Andesite frags +/-Plag, +/-Px 20% Dacite fragments	45	{87.5-88.5} «5% Qtz-Carb veinlets» -5% Qtz-Carb veinlets with talc 88.5-98.2 - 2-3% Qtz-Carb veinlets except {93.0-94.5} «5% Qtz-Carb» 5% Qtz-Carb, wkly silicified talc fragments	{87.5-88.5} «15% Py» 15% f.g. Py in blebs + veinlets {88.5-98.2} «5% py» Avg. 5% dissem py except {93.0-94.5} «10% py» 10% f.g. py as blebs + veinlets	93.0-94.5 weak fault zone with minor clay gouge
98.20 TO 110.20	«Altered» «Andesite» «Lahar»	Andesite Lahar with fewer fragments 30% fp And 10% F + Px And medium Andesite Matrix		{98.2-100.4} «wkly silicified»  {104.40-107.3} «wkly silicified» «5% Qtz Bx» -wkly silicified -5% Qtz Bx zones 2-5 cm -tr. Qtz-Carb -some green micas? 107.3-110.2 -1% Qtz-Carb veinlets -wkly bleached + silicified -1% green micas	{98.2-100.4} «15% Py» Avg. 15% Py dissem, clots + veinlets {104.4-107.3} «10% py» Avg. 10% py disseminated blebs + veinlets  {107.3-110.2} «5-8% Py» 5-8% Py as blebs + cubes	
110.20 TO 123.40	«Andesite» «Tuff» «w/ Lahar»	Colour: dark green Grain Size: fine grained, medium grained -Dominantly well laminated tuff with occasional arg lamin -Occasional block 10-30 cm of FP rich Andesite Flow		-tr QV's @ 45 deg to CA -tr Qtz-Carb veinlets	Avg. 2-3% dissem py	

HOLE NUMBER: DM-03

DRILL HOLE RECORD

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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
123.40 TO 129.90	«FP» «Andesite» «Flow»	Colour: dark green Grain Size: medium grained		-dark f.g. matrix with 1-3 mm Plag Phenos, + chl altered px? crystals	-2% Qtz-Carb veinlets 1-4 mm @ 45 deg to CA +/- hem on selvage	tr. dissem py
129.90 TO 153.90	«Andesite» «Lanar» «tuff»	Colour: dark green Grain size: fine grained Often well laminated with occasional fragments sub-angular 3-20 cm of Andesite +/-FP +/-Px		{130.8-132.6} «5% QV's» 5% 5-10 cm QV'X -rk wkly silicified -tr green micas -generally 1% Qtz-Carb veinlets 1 mm @ 45 deg to CA	{130.8-132.6} «10% Py» -5% Py with QV's -5% Py dissem -Avg= 10% Py -generally 2-3% Py with occas, bed with 10% Py in matrix -(primary)	
153.90 TO 168.10	«Andesite» «Lanar»	Colour: dark green, medium red Grain Size: medium grained -f.g. Andesite matrix with subrounded-subangular 1-10 cm Andesite frags +/-FP +/-Px +/-Hematite		153.8-158.2 Pervas Hematite alteration with Hematite on selvages of Qtz-Carb vein- lets @ 45 deg to CA 158.2-168.1 -tr Qtz veinlets 1 mm @ 45 deg to CA -occasional green mica	153.9-158.2 1% dissem py  158.2-168.1 -average 1-2% dissem py	
168.10 TO 182.30	«Feld-Px» «Andesite» «Flow»	Colour: medium green, medium red Grain Size: medium grained f.g. Andesite matrix +/- Hematite -40% coarse FP Andesite frags -10% dacite frags -.5-30 cm sub-rounded -Dacite Fragments increasing to 40% 198.0-200.3		tr. Qtz-Carb	tr. disseminated py	

HOLE NUMBER: DM-03

## ASSAY SHEET

DATE: 21-November-1988

Sample	From (m)	To (m)	Length (m)	ASSAYS		GEOCHEMICAL		COMMENTS
				AG PPM	AU PPB	AU GM/T	AG GM/T	
BCD12119	35.70	37.40	1.70	.3	12			
BCD12121	51.20	52.70	1.50	.3	9			
BCD12122	62.40	63.90	1.50	1.3	1000			
BCD12123	63.90	65.40	1.50	.9	141			
BCD12124	65.40	66.90	1.50	.5	27			
BCD12125	66.90	68.40	1.50	.6	22			
BCD12126	68.40	70.40	2.00	1.3	130			
BCD12128	87.50	88.50	1.00	.6	23			
	93.00	94.50	1.50	1.5	49			
BCD12129	93.00	94.50	1.50	1.5	49			
BCD12130	98.20	100.40	2.20	.8	48			
BCD12131	104.40	105.90	1.50	1.4	56			
BCD12132	105.90	107.30	1.40	1.2	106			
BCD12133	107.30	108.80	1.50	1.4	81			
BCD12134	108.80	110.20	1.40	1.2	33			
BCD12136	130.80	132.60	1.80	1.1	26			
BCD12138	155.30	156.80	1.50	2.3	72			

HOLE NUMBER: DM-03

ASSAY SHEET

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HOLE NUMBER: DM-03

GEOCHEM. SHEET

DATE: 21-November-1988

Sample	From (m)	To (m)	Length (m)	AG PPM	AU PPB
	0.00	0.00	0.00		

HOLE NUMBER: DM-03

GEOCHEM. SHEET

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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 17.10	casing «OB»					
17.10 TO 20.20	«Dacite» «Flow»	Colour: light green Grain Size: medium grained -fine grained matrix chl alteration with 1mm FP's -slightly more mafic than most dacite -very well flow banded @ 45 deg to CA		1-2% Quartz-Carbonate veinlets cross-cutting flow bands	trace pyrite	
20.20 TO 32.70	«Andesite» «Lahar» «with QV» «frags»	Colour: medium green Grain Size: medium grained fine grained Andesite matrix -some black (healed Bx zones) -50% various angular 1-20 cm fragments of Andesite +/- feldspar porphyry -5% Dacite fragments (equivalent of NW showing?)		«5% Chalcopyrite fragments» «1% Quartz-Carbonate veinlets» «trace fluorite» 5% angular .5-5 cm Chalcopyrite fragments (laminated) -1% late stage Quartz-Carbonate veinlets @ 45 deg to CA -some fragments light pink alteration (K Felspar?) -1 % Chalcopyrite veinlets -trace purple fluorite	1% pyrite as veinlets	{32.1-32.6} «Mod Fault» Moderate Faulting with broken rock with hematite
32.70 TO 94.00	«Magma» «Dacite»	Colour: light brown Grain Size: fine grained  32.7-34.7 -Good flow banding 60-70 deg to CA (twisted) but Dacite appears to intrude Lahars! -Generally fine grained brown felsic matrix with 1-2 plagioclase phenocrysts + occasional 1-3 mm Quartz Pyrite -fine grained black greens (mica?) 92.0-94.0 Again Flourite banding @ 50-60 deg to CA with and content increasing in the matrix		«2% Qtz-Carb veinlets»  -weak pink pottasic? alteration -2% Qtz-Carb veinlets @ 45 deg to CA -Occasional talc bleb 5% seric grains	tr. disseminated py	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
94.00 TO 111.50	«Andesite» «Lahar»	Colour: medium green Grain Size: medium grained -a medium grained dirty brown volcanic-sediment matrix with angular Andesite fragments 30% +/-Feldspar Porphyry +/- Pyroxene +/-Hematite 10% Angular Dacite fragments 5% silt + Arg fragments -occasional siltstone, congl lamination + bedding  Bedding 104.0m 107.0m	55 50	«1-2% Quartz-Carbonate veinlets» «1% Chalcopyrite fragments» -1-2% Quartz-Carbonate veinlets @ 45 deg to CA -1 % Chalcopyrite fragments .5-1.0 cm ang.	«5% disseminated pyrite» 5% disseminated pyrite and pyrite blebs	{96.6-99.0} «Moderately faulting» «with clay gouge @ 45-50 deg to CA» Moderately faulting with clay gouge 30% @ 45-50 deg to CA {108.4-109.4} «Moderate faulting» «with clay + hematite alteration»  «@ 45 deg to CA»
111.50 TO 124.20	«Hematite» «rich» «Andesite» «Lahar»	Colour: medium red Grain Size: medium grained Pervasive hematite in matrix -fragments +/- hematite -mainly feldspar Porphyry rich Andesite fragments sub-angular .5-10 cm -Lahar is matrix rich		-trace Quartz-Carbonate veinlets		
124.20 TO 152.50	«Andesite» «Lahar»	Colour: medium green Grain Size: medium grained -A medium grained Andesite Matrix +/- Silt + argillite -Sub-angular Andesite fragments 50-60% 1-10 cm +/- Feldspar porphyry +/- Pyroxene -Occasional siltstone fragments		-Generally trace Quartz-Carbonate veinlets -.5% Chalcopyrite fragments	-Generally trace 1% disseminated pyrite	{124.2-125.0} «Moderately Faulting» «@ 45 deg to CA» Moderately Faulting with broken rock @ 45 deg to CA {128.9-130.9} «Moderately Faulting» «@ 45 deg to CA»

MINNOVA INC.  
DRILL HOLE RECORD

HOLE NUMBER: DM-04

DATE: 21-November-1988

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		131.1-136.1 Hematite matrix rich Lanar		{132.7-133.0} «Quartz Breccia» Quartz Breccia with .5-1.0 cm round Chalcopyrite fragments in a seric rich matrix @ 60 deg to CA	{132.7-133.0} «Average 5% Pyrite» Average 5% fine grained disseminated Pyrite in matrix	Moderately Faulting with broken rock @ 45 deg to CA
152.50 TO 180.20	«Andesite» «Lanar» EOH	Colour: medium green Grain Size: medium grained -Matrix a mixture of fine grained Andesite + Sediment -40% Andesite fragments sub-angular 1-10 cm +/-Felspar porphyry +/-Pyroxene +/-Hematite -10% Dacite fragments(same with coarse QP's)		- .5% Quartz-Carbonate veinlets (Occasionally vuggy) 1-5mm @ 45 deg to CA	trace disseminated Pyrite	

HOLE NUMBER: DM-04

DRILL HOLE RECORD

LOGGED BY: G. Evans

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HOLE NUMBER: DM-04

ASSAY SHEET

DATE: 21-November-1988

Sample	From (m)	To (m)	Length (m)	ASSAYS		GEOCHEMICAL		COMMENTS
				AG PPM	AU PPB	AU GM/T	AG GM/T	
BCD12142	20.20	21.70	1.50					
BCD12143	23.20	24.70	1.50					
BCD12144	26.20	27.70	1.50					
BCD12145	29.20	30.70	1.50					
BCD12148	96.60	99.00	2.40					
BCD12151	131.20	132.70	1.50					
BCD12152	132.70	133.00	0.30					
BCD12153	133.00	134.50	1.50					
BCD12156	175.90	177.40	1.50					

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ASSAY SHEET

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GEOCHEM. SHEET

DATE: 21-November-1988

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Sample	From (m)	To (m)	Length (m)	AG PPM	AU PPB
BCD12141	17.10	20.20	3.10		
BCD12146	35.70	38.70	3.00		
BCD12147	69.20	72.20	3.00		
BCD12149	102.10	105.30	3.20		
BCD12150	114.90	117.90	3.00		
BCD12154	142.30	145.30	3.00		
BCD12155	163.70	166.70	3.00		
BCD12157	193.70	196.90	3.20		

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HOLE NUMBER: DM-04

GEOCHEM. SHEET

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MINNOVA INC.  
DRILL HOLE RECORD

HOLE NUMBER: DM-05

DATE: 21-November-1985

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 18.40	casing «OB»					Lake silt
18.40 TO 41.40	«Andesite» «Tuff» «Andesite» «Lahar» «with DV» «fragments»	18.4-23.1 Andesite Lahar with sub-angular Andesite fragments +/- Hematite 40%, +/-20% Dacite sub-angular fragments (1-5 cm)  23.1-24.5 «8% Quartz-Carbonate + Chalcopyrite» «fragments» f.g. Pyritic Mud with Chalcopyrite + Quartz Carbonate fragments 24.5-34.0 Andesite Lahar, dark green with angular 1-4 cm fragments of Andesite, +/-Pyroxene, +/-Hematite on rims and pervasive alteration  34.0-41.4 Pyritic muddy matrix with occasional angular Andesite fragment		18.4-23.1 «8% Quartz-Carbonate frags» «3-5% Quartz-Carbonate veinlets» 8% Quartz-Carbonate fragments Angular 1-3 cm (white) 3-5% Quartz-Carbonate veinlets, 1-3mm @ 45 deg to CA trace green micas  24.5-34.0 «3-4% Quartz-Carbonate» «veinlets» 3-4% Quartz-Carbonate veinlets @ 45 deg to CA -occasional Quartz-Carbonate fragment 31.0-34.0 «8% Quartz-Carbonate» «veinlets + fragments» Increase to 8% Quartz-Carbonate veinlets + fragments  34.0-41.4 «10% Quartz-Carbonate frags» -10% Quartz-Carbonate angular fragments (1-2 cm) and occasional veinlets -1% disseminated green micas -veinlets occasionally vuggy	18.4-23.1 «5% Pyrite» Average 5% disseminated Pyrite in matrix  23.1-24.5 «15% Pyrite» 15% Pyrite fragments disseminated in matrix and as veinlets  24.5-34.0 average 1-2% disseminated Pyrite  34.0-41.4 «10-15% Pyrite» 10-15% fragments Pyrite disseminated +veinlets	33.9-34.0 Fault with clay gouge
41.40 TO 59.40	«Andesite» «Lahar» «Andesite» «Tuff»	Colour: dark green, dark grey Grain Size: fine grained -Mixture of Andesite Lahar with Andesite + Cactie fragments sub-angular 1-3 cm -to light grey tuff with sub-rounded fragments 1 cm of Andesite + Dacite +2% Quartz-Carbonate fragments				

HOLE NUMBER: DM-05

DRILL HOLE RECORD

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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		Bedding 53.5 m 57.0 m	70 60	41.4-49.8 1% Quartz-Carbonate veinlets feldspar Poohyry altered to a light green 49.8-50.3 5-8% light blue-white «chalcopyrite fragments» 5-8% light blue-white chalcopyrite fragments light green micas? trace 50.3-50.8 «QV bx» QV bx with light grey with Quartz fragments angular (1-2 cm), margins have 10% disseminated pyrite 50.8-53.3 3% Quartz-Carbonate frags» 1% Quartz-Carbonate, occasional green fl. clot 3% Quartz-Carbonate fragments 53.3-59.4 4% Quartz-Carbonate «veinlets» 4% Quartz-Carbonate veinlets @ 45 deg to CA (1-10mm)	41.4-49.8 trace pyrite dissemination 49.8-50.3 5% fine grained Pyrite» «5% fine grained Pyrite as veinlets» 50.8-53.3 5% fine grained pyrite» 5% fine grained disseminate pyrite in matrix 53.3-59.4 1-2% disseminated pyrite, fine grained	
59.40 TO 79.40	«Andesite» «Lahar»	Colour: dark green Grain Size: fine grained A dark green Andesite tuff with sub-rounded frag- ments of Andesite+/-Pyroxene+/-Hematite and Dacite fragments  Bedding 74.8 m	70	Average 1% Quartz-Carbonate veinlets  62.5-65.5 weakly silicified 5% «Quartz-Carbonate veinlets» weakly silicified with 5% Quartz- Carbonate veinlets @ 45 deg to CA	average trace to 1.0% disseminated pyrite	61.5-65.5 weak faulting» weak faulting with broken rock @ 45 deg to CA

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
79.40 TO 103.70	«Dacite» «Flow» «Fl-Bx»	Colour: light green, medium red Grain Size: fine grained light green, fine grained flow-banded matrix with zones of Flow Breccia with a fine grained hematite rich matrix with angular 1-5 cm fragments of twisted Flow-Banded Dacite  Bedding 93.0 m	60	Generally 2% Quartz-Carbonate veinlets 1-3 mm @ 45 deg to CA  83.9-86.9 «4% Quartz-Carbonate» «veinlets» 4% Quartz-Carbonate veinlets to 10 mm Average 45 deg to CA		
103.70 TO 111.30	«Dacite» «Flow» «Dome» EON	Colour: light brown, light green Grain Size: fine grained -fine grained flow banded Dacite with fine grained phenols -occasional Breccia zone with hematite alteration Bedding 110.0 m	60	1% Quartz-Carbonate veinlets minor talc on fracture		

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ASSAY SHEET

DATE: 21-November-1988

Sample	From (m)	To (m)	Length (m)	ASSAYS		GEOCHEMICAL		COMMENTS
				AG PPM	AU PPB	AU GM/T	AG GM/T	

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MINNOVA INC.  
DRILL HOLE RECORD

HOLE NUMBER: DM-06

DATE: 21-November-1988

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
TO 9.20	«OB»					
9.20 TO 16.10	«Altered» «Andesite» «flow?»	Colour: dark green. Grain Size: Medium grained MGr Porphyry with 1-2 mm FPxtals and chl altg Px xtals		«15% Qtz-Carb veinlets, wkly silicified»  -Matrix chl. altered 15% Qtz-Carb veinlets wkly silicified	«15% f.g. dissem. py»  At least 15% very fgr dissem py + occasional py veinlet	
16.10 TO 26.90	«Altered» «Pyritic» «Andesite» «Flow»	Colour: Dark Grey A fgr and matrix with occasional patches of 1-2mm FP Phenos (Possibly a healed fault zone with sharp contacts)		«15-20% Qtz-Carb veinlets + blebs» «5-10% silica blebs» 15-20% Qtz-Carb veinlets + blebs with mod. interstit carb. 5-10% Silica blebs + patches 1% grains of grn talc or fluorite Occas hem patch in veinlets  22.6-26.9 Alteration decreasing	«(20%) very f.g. py»  Avg. 15-25% (20%) very fgr py w/ occas dendritic veinlets occas pale sp? grain	{16.1-16.3} «Fault @ 50 deg to CA» Fault w/ clay gouge @50 to CA
26.90 TO 48.40	«FP And» «Flow w/» «occs» «Fl-Bx»	Colour: dark green, dark grey Grain Size: Medium grained -Feld porphyry(1-3mm) Andesite Flow -Occas ang 1-5cm frag monolithic fl-bx		Average 5-8% Qtz-Carb veinlets 1-15mm @ 45 to CA w/ occas grn mica  {29.5-32.0} «10% Qtz-Carb veinlets + wkly silic» Wk bleaching on sides of fault 10% Qtz carb veinlets + wk silicn within the fault -minor green micas  {37.8-39.3} «5% Qtz-Carb veinlets» «5% Qtz Frags» 2% Grn micas 10% Qtz-Carb veinlets 5% Qtz Frags	{29.5-32.0} «avg. 8% dissem py» Avg 8% dissem py  {37.8-39.3} «20% very f.g. py»  20+% fgr dissem py tv pale sp? xtals	{29.5-32.0} «Mod Fault»  Mod Fault w/ broken rock + fault gouge  {37.8-39.3} «Fault zone @ 45 deg to CA» Fault zone A 45 to CA w/ strong fabric + clay gouge

HOLE NUMBER: DM-06

DRILL HOLE RECORD

LOGGED BY: G. Evans

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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
48.40 TO 62.80	«Altered» «Pyritic» «Andesite» «Flow»	Colour: dark green, dark grey Grain Size: Medium grained A Mgr FPorphyry Andesite Flow which has a strong pyritic component		«5% Qtz-Carb veinlets + frags» «w/ly silicified»  -5% Qtz-Carb veinlets + fragments w/ly silicified 2% Grn Mica's (Alteration increases down the section -A mottled appearance	«20% very f.g. py»  -Generally 20% very fgr pyrite as disseminated blebs, and veinlets -some fgr black sulph. -tr yellow sp?	{49.8-50.14} «fault Zone (Mod)» Fault Zone (Mod) w/ clay gouge  {54.6-54.84} «fault (Mod) @ 50 deg to CA» Fault Zone (Mod) w/ clay gouge @ 50 to CA
62.80 TO 67.70	«Quartz» «Breccia»	«2% green micas, strongly silicified» «2% Qtz-Carb veinlets» Colour: medium grey Grain Size: dark grey Silicid Ang frags, Qtz Frags and bleached Andesite frags 1-4 cm in a matrix of laminated chalcidony veinlets (very similar to A zone high grade-except no malachite)		«10% f.g. py, 1% black, sulph»  -2% grn micas or talc -strongly silicid -2% Qtz-Carb veinlets overprinting	Avg 10% very fgr py dissem + clots w/ an overprint of coarser py veinlets + dendritic py veinlets 2-5% -tr 1% black very fgr sulph. tet?	
67.70 TO 76.20	«Altered» «Pyritic» «Andesite» «(Shear» « zone?)»	«10% silicified grey frags.» Possible Shear Zone w/ Fabric @ 45 to CA some clay + seric gouge -Host rock and FP rich flow?		«15-20% very f.g. py» -Fabric seric? altd + mmod silicid -1% grn micas or talc -10% silicid grey frags -1-2 % late stage x-cutting Qtz-Carb veinlets  {73.2-73.54} «QV Bx @ 60 deg to CA» A QV Bx w/ lt gry silicid frags (ang) in laminated QV @ 60 to CA	«"Shear Zone"» Avg 15-20% very fgr py w/ some py veinlets	"Shear Zone"
76.20 TO 100.60	«Andesite» «Lahar»	-Sub ang, sub rounded fragments 1-5 cm in a MGrn Andesite matrix		«2% Qtz-Carb veinlets @45-50 deg to CA»  2% Qtz-Carb veinlets @ 45-50 deg to CA	Avg. tr dissem py	

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MINNOVA INC.  
DRILL HOLE RECORD

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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-Fragments of Andesite FP rich +/- hematite, Tuff and Dacite				{83.5-83.7} «Fault (Mod)» Fault w/ clay gouge (Mod) w/ Qtz-Carb veinlets 10% @ 50 to CA

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DRILL HOLE RECORD

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HOLE NUMBER: DM-06

## ASSAY SHEET

DATE: 21-November-1988

Sample	From (m)	To (m)	Length (m)	ASSAYS		GEOCHEMICAL		COMMENTS
				AG PPM	AU PPB	AU GM/T	AG GM/T	
BCD12176	12.20	13.70	1.50					
BCD12177	15.00	16.10	1.10					
BCD12178	16.10	17.60	1.50					
BCD12179	17.60	19.10	1.50					
BCD12180	19.10	20.60	1.50					
BCD12181	20.60	22.10	1.50					
BCD12182	22.10	23.60	1.50					
BCD12183	23.60	25.60	2.00					
BCD12184	25.60	26.90	1.30					
BCD12185	29.50	31.00	1.50					
BCD12186	31.00	32.00	1.00					
BCD12187	34.60	37.80	3.20					
BCD12188	37.80	39.30	1.50					
BCD12189	48.40	50.40	2.00					
BCD12190	50.40	52.40	2.00					
BCD12191	52.40	54.40	2.00					
BCD12192	54.40	56.40	2.00					
BCD12193	56.40	58.40	2.00					
BCD12194	58.40	60.40	2.00					
BCD12195	60.40	62.80	2.40					
BCD12196	62.80	64.30	1.50					
BCD12197	64.30	65.80	1.50					
BCD12198	65.80	67.70	1.90					
BCD12199	67.70	69.20	1.50					
BCD12200	69.20	71.20	2.00					
BCD12201	71.20	72.70	1.50					
BCD12202	72.70	74.20	1.50					
BCD12203	74.20	76.20	2.00					
BCD12204	77.70	80.80	3.10					

HOLE NUMBER: DM-06

ASSAY SHEET

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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 6.10	casing «OB»					
6.10 TO 19.40	«feldspar» «Andesite» «Flow»	Colour: dark green Grain Size: fine grained -a fine grained chl altered Andesite matrix with 1-2 mm plagioclase 9.4-13.7 -weak silicification with bleaching 2-3% Quartz-Carbonate sub-rounded fragments 1-4 cm -1% talc or green micas		-Rock generally weakly sausseritized -very weak silicification 9.4-13.7 average 8% Pyrite average 8% Pyrite	-average 5% disseminated pyrite	9.4-10.7 weak fault weak fault with minor clay gouge on fracture @ 45 deg to CA
19.40 TO 45.70	«altered» «Pyritic» «Andesite» «Flow»	Colour: medium green Grain Size: fine grained Matrix is the same as above		«30% light gray silicified zones» «1% green micas, trace fluorite» «Patches 20-30 cm, 1-8 cm Quartz frags» «@ 45 deg to CA, minor sericite»  -Zone weak moderately silicified with strong silicified patches -30% light grey silicified zones -1% green micas -trace purple fluorite -1-2% Quartz-Carbonate veinlets -Patches 20-30 cm to sub-rounded 1-8 cm Quartz fragments -weakly sausseritized -zones generally @ 45 deg to CA -minor Sericite on fracture	«10% fine grained pyrite»  -average 10% fine grained disseminated pyrite around QV fragments pyrite forms blebs + veinlets -trace yellow sphalerite?	
45.70 TO 53.70	«Andesite» «Lahar»	Colour: medium green Grain Size: fine grained, medium grained -Feldspar rich Andesite matrix with brown Feldspar sub-angular, 2-10 cm fragments		«3-4% Quartz-Carbonate veinlets»  3-4% 1-3 mm Quartz-Carbonate veinlets -patches of weak silicification -2 sections, 10 cm wide @ 45 deg to CA -1% talc crystals	«2-3% disseminated pyrite»  2-3% disseminated Pyrite and as veinlets	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE ITO CA	ALTERATION	MINERALIZATION	REMARKS
53.70 TO 83.30	«altered» «Pyritic» «Andesite»	Colour: dark gray Grain Size: fine grained -50% fine grained gray matrix with a strong Pyrite presence -Some bleached sub-angular Andesite fragments but dominantly silicified fragments + QV frags approx 30%		«5% Quartz-Carbonate, veinlets» «weakly silicified»  5% late stage Quartz-Carbonate veinlets 1-3 mm @ 45-50 deg to CA -Rock is weakly silicified + minor seric -Talc on some fractures -some grey silicified patches 10-60 cm @ 45 deg to CA   73.2-83.3 «Quartz-Carbonate veinlets» «10%» Quartz-Carbonate veinlets increase to 10% (1-10 mm) @ 45-50 deg to CA	«20% fine grained disseminate Pyrite»  -average 20% fine grained disseminated Pyrite	<del> 63.7-64.7 </del> «moderate faulting @ 45 deg» «to CA» moderate faulting with clay gouge @ 45 deg to CA <del> 66.5-67.0 </del> «moderate faulting @ 45 deg» «to CA» moderate faulting with clay gouge @ 45 deg to CA  <del> 80.5-83.3 </del> «Mod-strong faulting» «45 deg to CA» moderately strong faulting with 30% clay gouge @ 45 deg to CA
83.30 TO 102.10	«Andesite» «Lahar» EOH	Colour: medium green Grain Size: medium grained -Almost a conglomerate -Matrix varies from a medium grained Feldspar rich Andesite to a fine grained silty matrix -Heterolithic sub-rounded fragments dominantly Andesite fine grained+/-Feldspar+/-Pyroxene +/-Hematite -Occasional flow banded Dacite fragments		Generally 1-2% Quartz-Carbonate veinlets @ 45 deg to CA  <del> 86.0-87.4 </del> «healed shear zone» «10% Quartz chips» Altered zone @ 45 deg to CA, healed shear zone with Seric-Pyrite matrix and some silicification with 10% Quartz chips	<del> 86.0-87.4 </del> «10% fine grained Pyrite» 10% fine grained Pyrite in matrix	<del> 93.6-95.1 </del> «moderate faulting @ 45 deg»

HOLE NUMBER: DM-07

MINNOVA INC.  
DRILL HOLE RECORD

DATE: 21-November-1988

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		Bedding	60			«to CA» moderate faulting with clay gouge @ 45 deg to CA -some black gouge

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HOLE NUMBER: DM-07

## ASSAY SHEET

DATE: 21-November-1988

Sample	From (m)	To (m)	Length (m)	ASSAYS		GEOCHEMICAL		COMMENTS
				AG PPM	AU PPB	AU GM/T	AG GM/T	
BCD12206	9.40	10.90	1.50					
BCD12207	10.90	12.40	1.50					
BCD12208	12.40	13.70	1.30					
BCD12209	19.40	20.90	1.50					
BCD12210	22.40	23.90	1.50					
BCD12211	25.40	26.90	1.50					
BCD12212	28.40	29.90	1.50					
BCD12213	31.40	32.90	1.50					
BCD12214	34.40	35.90	1.50					
BCD12215	37.40	38.90	1.50					
BCD12216	40.40	41.90	1.50					
BCD12217	43.40	44.90	1.50					
BCD12219	53.70	55.20	1.50					
BCD12220	55.20	56.70	1.50					
BCD12221	56.70	58.20	1.50					
BCD12222	58.20	59.70	1.50					
BCD12223	59.70	61.20	1.50					
BCD12224	61.20	62.70	1.50					
BCD12225	62.70	64.20	1.50					
BCD12226	64.20	65.70	1.50					
BCD12227	65.70	67.20	1.50					
BCD12228	67.20	68.70	1.50					
BCD12229	68.70	70.20	1.50					
BCD12230	70.20	71.70	1.50					
BCD12231	71.70	73.20	1.50					
BCD12232	73.20	74.70	1.50					
BCD12233	74.70	76.20	1.50					
BCD12234	76.20	77.70	1.50					
BCD12235	77.70	79.20	1.50					
BCD12236	79.20	80.70	1.50					
BCD12237	80.70	82.20	1.50					
BCD12238	82.20	83.30	1.10					
BCD12239	86.00	87.40	1.40					

HOLE NUMBER: DM-07

ASSAY SHEET

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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 2.90	Casing «OB»					
2.90 TO 14.40	«Feldspar Andesite Flow» «Flow Breccia»	Colour: medium green Grain Size: medium grained - A light green fine grained Andesite matrix with 1-2 mm Plagioclase phenocrysts -Occasional Flow-Breccia with angular Andesite fragments +/- Hematite		«Occasional 10-20 cm Quartz-Breccia»  -trace Quartz-Carbonate veinlets -Occasional 10-20 cm Quartz-Breccia zones @ 45 deg to CA with green Talc?	10% Pyrite with Quartz-Breccia's  -Generally trace Pyrite -average 10% Pyrite as fine grained blebs + veinlets with Quartz-Breccia	«moderate faults»   4.6-5.1  Broken rock + clay gouge  8.0-9.6  broken rock with clay gouge + broken rock @ 45 deg to Ca  13.3-13.7  broken rock + clay gouge
14.40 TO 38.10	«weak, altered Feldspar» «Andesite Flow»	Colour: light green, light brown Grain Size: -Same Feldspar and Flow as above but with weak pervasive bleaching		-Generally 10% QV's + Quartz-Breccia 20-30 cm  17.5-21.4  «10% Quartz and Quartz-» «Carbonate fragments» 10% Quartz and Quartz-Carbonate fragments with moderate silicification  29.5-38.1 silicification increasing  31.1-35.3  «1% Chalcedony veinlets» «with purple fluorite on selvages»	-average -5% Pyrite due to Pyrite in silicified zones  17.5-21.4  «15% fine grained» «disseminated pyrite» average 15% fine grained disseminated Pyrite in matrix and as fragments   31.0-31.8  «weak faulting 45 deg to CA» weak faulting with broken rock @ 45 deg to CA	17.5-19.4  «Strong fault» Strong fault zone with 30-4-% clay gouge   25.4-27.7  «weak fault @ 45 deg to CA» weak faulting with broken rock @ 45 deg to CA
38.10 TO 44.40	«Altered Feldspar-Andesite Flow»	Colour: medium grey, medium purple Grain Size: fine grained, medium grained 38.1-42.5 Pyritic fine grained matrix 42.5-44.4 purple Feldspar rich Andesite		38.1-42.5  «weakly silicified +/- seric» -2% Quartz veinlets -a weakly silicified matrix +/- seric strong shear fabric	38.1-42.5  «10-15% Pyrite» 10-15% fine grained disseminated Pyrite	40.3-41.3  «moderate fault» moderate fault with pyritic clay gouge



FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
				42.5-44.5 «15-20% SO <sub>4</sub> veinlets» stockwork	42.5-44.5 3-4% Pyrite in silicification patches	
44.40 TO 56.60	«Intense quartz-sericite breccia with Q8-clay stockwork»	«Complex Altered zone»  Colour: light grey Grain Size: fine grained -Complex Altered zone -matrix light grey silica + Pyrite with angular fragments of light grey Quartz, seric and Pyrite fragments		«Fabric @ 45 deg to CA» «late stage SO <sub>4</sub> veinlets 20-30%» cross cut zone in all directions -no carbonate -some green Talc -only rare purple Andesite fragment 53.3-56.6 SO <sub>4</sub> veinlet stk. wk. decreasing	average 10% fine grained disseminated Pyrite	
56.60 TO 62.10	«Pyritic altered andesitic»	«silicified matrix»  Colour: dark grey Grain Size: fine grained -A light grey silicified matrix (shear zone?) with lamination @ 40-45 deg to CA with Pyrite -occasional angular Andesite fragments 1-3 cm		«average 5-8% SO <sub>4</sub> veinlets»  -average 5-8% SO <sub>4</sub> veinlets cross cutting pyritic alteration -some Chalcopyrite + Talc alteration to fragments	«15-20% disseminated Pyrite»  -average 15-20% disseminated Pyrite	«Shear Zone 40-45 deg to CA»  Shear Zone 40-45 deg to CA
62.10 TO 76.30	«shear zone with quartz-seric clay breccia»	«Shear Zone with a clay matrix with Quartz-Seric» «fragments»  Colour: light brown Grain Size: fine grained fine grained Shear zone @ 45 deg to CA with a pyritic matrix with rounded fragments of grey QV Pyrite and Andesite (1-3 cm)		«weakly silicified»  weakly silicified	«10-15% fine grained Pyrite»  average 10-15% fine grained Pyrite	Fault  78.4-78.6 «Strong fault» Strong fault with clay gouge
76.30 TO 78.60	«pyritic altered andesite»  EOH	Colour: dark green, purple Grain Size: medium grained -fine grained Andesite Matrix with sub-angular fragments (1-8 cm) of Andesite +/- Feldspar +/- Hematite -some flow banded Dacite fragments		1% Quartz veinlets	trace disseminated Pyrite	81.0-81.8 weak fault with broken rock

HOLE NUMBER: DM-08

## ASSAY SHEET

DATE: 21-November-1988

Sample	From (m)	To (m)	Length (m)	ASSAYS		GEOCHEMICAL		COMMENTS
				AG PPM	AU PPB	AU GM/T	AG GM/T	
BCD12242	17.50	19.40	1.90					
BCD12243	19.40	21.40	2.00					
BCD12244	38.10	39.60	1.50					
BCD12245	39.50	41.10	1.60					
BCD12246	41.10	42.50	1.40					
BCD12247	42.50	44.40	1.90					
BCD12248	44.40	45.90	1.50					
BCD12249	45.90	47.40	1.50					
BCD12250	47.40	48.90	1.50					
BCD12251	48.90	50.40	1.50					
BCD12252	50.40	51.90	1.50					
BCD12253	51.90	53.40	1.50					
BCD12254	53.40	54.90	1.50					
BCD12255	54.90	56.60	1.70					
BCD12256	56.60	58.10	1.50					
BCD12257	58.10	59.60	1.50					
BCD12258	59.60	62.10	2.50					
BCD12259	62.10	63.60	1.50					
BCD12260	63.60	65.10	1.50					
BCD12261	65.10	66.60	1.50					
BCD12262	66.60	68.10	1.50					
BCD12263	68.10	69.60	1.50					
BCD12264	69.60	71.10	1.50					
BCD12265	71.10	72.60	1.50					
BCD12266	72.60	74.10	1.50					
BCD12267	74.10	76.30	2.20					
BCD12268	76.30	78.50	2.20					

HOLE NUMBER: DM-08

ASSAY SHEET

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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 3.10	casing «OB»					
3.10 TO 19.00	«Feldspar» «Andesite» «Lahar»	Colour: dark green Grain Size: medium grained medium grained feldspar rich with sub-angular Andesite fragments (1-10 cm) +/- Hematite		«3% Quartz veinlets»  3% Quartz veinlets + occasional 1 cm Quartz-Breccia -chl alteration to matrix -occasional 10-20 cm bleached zone	trace disseminated pyrite	4.6-10.7 weak fault with broken rock @ 45-60 deg to CA
19.00 TO 24.50	«altered» «Pyritic» «Andesite»	Colour: dark green Grain Size: fine grained -feldspar rich Andesite Lahar as above		«weakly silicified»  -Mixture of weakly silicified zones with Pyrite and veinlets of epidote (5-8%)	«15% fine grained disseminated Pyrite»  -50 - 100 cm patches, weakly silicified with 15% fine grained disseminated Pyrite	19.0-20.1 weak fault with broken rock + minor clay gouge
24.50 TO 30.40	«Altered» «Pyritic» «Andesite»	Colour: dark grey Grain Size: fine grained		«A Shear Zone» «10% Quartz-Carbonate fragments» «Fracture @ 45 deg to CA»  -a Shear Zone -fine grained muddy pyritic matrix -10% Ang .5-1.0 cm Quartz-Carbonate fragments -30-40% Angular 1.0 cm Pyrite fragments -Fracture @ 45 deg to CA	«average 15% Pyrite»	
30.40 TO 40.10	«Feldspar» «Andesite» «Flow» «with» «Flow» «Breccia»	Colour: dark green Grain Size: fine grained -fine grained, dark green Andesite matrix with 1-3 mm Feldspar -occasional sub-rounded 2-10 cm fragment of		«2% Quartz veinlets»  -Some Hematite on fracture -2% Quartz veinlets 1-4 mm @ 45 deg to CA		

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		Andesite (Monolithic?)		+/- purple fluorite on selvages	{30.4-34.5}«3% disseminated Pyrite» 3% disseminated Pyrite {34.5-40.1}«5-8% Pyrite» 5-8% Pyrite, weakly silicified 1% light yellow mineral trace green mica's	
40.10 TO 48.90	«altered» «Pyritic» «Andesite»	Colour: dark grey Grain Size: fine grained A shear zone Matrix clay-Pyrite with silicified rock and Andesite fragments angular .5-4.0 cm		«2-3% Quartz-Carbonate veinlets» «10% Quartz-Carbonate + Quartz frags.» «minor sericite» -2-3% Quartz-Carbonate veinlets with minor interstitial Carbonate -10% Quartz-Carbonate + Quartz frags. -light green talc? alteration -minor sericite	«15-20% fine grained Pyrite»  -average 15-20 % fine grained Pyrite with occasional Pyrite veinlet + fragment	{40.1-48.9}«Shear Zone» Whole zone is subject to post mineralization faulting with broken rock + clay gouge approx 30%
48.90 TO 59.50	«Feldspar» «Andesite» «Flow»	Colour: medium green Grain Size: medium grained Coarse Feldspar Flow (1-4 mm) in a fine grained green matrix		«10% Quartz veinlets» -Feldspars weakly saus -10% Quartz veinlets in places almost a "crackle Breccia" -5-15 mm silicified haloes around veinlets + minor epidote	-average 5% Pyrite as veinlets around Quartz veinlets	
59.50 TO 91.60	«Altered» «Pyritic» «Andesite» «Lahar»	Colour: dark green, dark grey Grain Size: fine grained Pyritic matrix with alteration in an Andesite Lahar +/-Hematite +/-Feldspar rich sub angular fragments 1-4 cm {59.5-61.9}«weak silicification with 2-3% Quartz» «veinlets @ 45 deg to CA»  {62.8-64.7}«Moderate silicified zone» -moderately silicified zone with some QV Breccia with 1-3 cm angular silicified fragments -weak green alteration -Quartz veinlet with purple fluorite		{59.5-61.9}«15% Pyrite» 15% Pyrite as disseminated + veinlets  {62.8-64.7}«20+% fine grained» «disseminated Pyrite» Average 20+% fine grained disseminated Pyrite {64.7-91.6}«weakly silicified» -weakly silicified with minor sericite -2% 1 cm Quartz-Carbonate veinlets @ 45 deg to CA with green + purple fluorite on selvages	{59.5-61.9}«Fault zone @ 45 deg to CA» Fault zone with clay gouge @ 45 deg to CA    {64.7-91.6}«5-8% Pyrite» Average 5-8% Pyrite disseminated very fine grained with occasional veinlet	

HOLE NUMBER: DM-09

MINNOVA INC.  
DRILL HOLE RECORD

DATE: 21-November-1988

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
				<del>79.0-81.6</del> «moderately silicified» Moderately silicified with sub angular silicified fragments -2-3% late stage -Quartz-Carbonate veinlets @ 45 deg to CA -minor sericite <del>88.6-91.6</del> «moderately silicified» -moderately silicified -2-3% Quartz-Carbonate veinlets @ 45 deg to CA	<del>79.0-81.6</del> «15% Pyrite» 15% very fine grained disseminated Pyrite  <del>88.6-91.6</del> «10-15% Pyrite» 10-15% very fine grained disseminated Pyrite	<del>79.0-81.6</del> «Fault (mod)» Fault (mod) with 30% clay gouge  <del>88.6-91.6</del> «Mod Fault» Moderate faulting with 30% clay gouge
91.60 TO 114.30	«Andesite» «Lahar» «(Lower)» EOH	Colour: medium green Grain Size: fine grained -A fine grained green matrix with angular fragments 1-10 cm of Andesite +/-feldspar +/-Hematite and Dacite Flow Banded Fragments		-2-3% Quartz-Carbonate veinlets	-average trace disseminated Pyrite	<del>109.6-110.4</del> «weak fault» weak fault with broken rock + minor clay gouge

HOLE NUMBER: DM-09

DRILL HOLE RECORD

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HOLE NUMBER: DM-09

## ASSAY SHEET

DATE: 21-November-1988

Sample	From (m)	To (m)	Length (m)	ASSAYS		GEOCHEMICAL		COMMENTS
				AG PPM	AU PPB	AU GM/T	AG GM/T	
BCD12271	23.00	24.50	1.50					
BCD12272	24.50	26.00	1.50					
BCD12273	26.00	27.50	1.50					
BCD12274	27.50	29.00	1.50					
BCD12275	29.00	30.40	1.40					
BCD12277	40.10	41.60	1.50					
BCD12278	41.60	43.10	1.50					
BCD12279	43.10	44.60	1.50					
BCD12280	44.60	46.10	1.50					
BCD12281	46.10	47.60	1.50					
BCD12282	47.60	48.90	1.30					
BCD12283	51.30	52.80	1.50					
BCD12285	59.50	61.90	2.40					
BCD12286	62.80	64.70	1.90					
BCD12287	67.80	69.30	1.50					
BCD12288	72.30	73.80	1.50					
BCD12289	73.80	75.20	1.40					
BCD12290	78.60	80.10	1.50					
BCD12291	80.10	81.60	1.50					
BCD12292	88.60	90.10	1.50					
BCD12293	90.10	91.60	1.50					

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ASSAY SHEET

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HOLE NUMBER: DM-10

MINNOVA INC.  
DRILL HOLE RECORD

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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 3.10	Casing «OB»					
3.10 TO 9.10	«Andesite» «Lahar»	Colour: dark purple Grain Size: fine grained -fine grained Hematite rich matrix with 1-cm Andesite fragments +/- Feldspar		2% 1-2 mm Quartz-Carbonate veinlets  2% 1-2 mm Quartz-Carbonate veinlets 30-45 deg to CA	trace disseminate Pyrite	‡3.1-6.6‡ «Fault zone, 30-45 deg to CA» -Fault zone with clay-seric gouge 30-45 deg to CA -Strong surface oxidation
9.10 TO 18.30	«Feldspar» «Andesite» «Flow»	Colour: medium green Grain Size: medium grained -fine grained Andesite matrix with coarse Feldspar (1-6 mm) -Occasional Flow-Breccia with angular (1-2 cm) Feldspar Andesite fragments in a Hematite matrix		-pervasive saus. to Feldspars -1% Quartz-Carbonate veinlets @ 20-30 deg to CA	-trace to disseminated Pyrite	
18.30 TO 53.00	«Andesite» «Lahar»	Colour: medium green Grain Size: fine grained -Dominantly Andsite fragments sub-angular 1-6 cm +/-Feldspar, +/-Hematite, + occasional Dacite fragments -fine grained Andesite matrix  32.4-35.6 Minor coal seams  Bedding		«1-2% Quartz-Carbonate veinlets 45 deg «to CA»  18.3-23.5 minor bleaching + seric  27.2-32.0 minor bleaching + seric  35.5-53.0 weak pervasive bleaching with no Quartz-Carbonate veinlets		‡18.3-23.5‡ «weak moderate fault» «@ 50 deg to CA» weak moderate fault with broken rock + 20% clay gouge @ 50 deg to CA  ‡27.2-32.0‡ «Fault weak to moderate» «@ 45 deg to CA» Fault weak to moderate with broken rock + 10% clay @ 45 deg to CA

HOLE NUMBER: DM-10

DRILL HOLE RECORD

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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		33.0m	65			
53.00 TO 59.80	«Pyritic» «altered» «Andesite» «Lahar»	Colour: Grain Size: fine grained Pyritic Andesite matrix with angular Andesite fragments +/-Feldspar (1-4 cm) +/- 2-3% QV fragments		«3% Quartz-Carbonate veinlets»  -moderately pervasive silicification -3% Quartz-Carbonate veinlets -weak interstit carb alteration	«10% fine grained disseminate Pyrite»  -average 10% fine grained disseminated Pyrite	
59.80 TO 72.10	«Andesite» «Lahar»	Colour: medium green Grain Size: fine grained fine grained green Andesite matrix with 1-4 cm sub-angular fragments +/-Feldspar +/-Hematite		«2% Quartz-Carbonate + Quartz veinlets @ 45 deg to CA»  2% Quartz-Carbonate + Quartz veinlets @ 45 deg to CA	-trace disseminated Pyrite	
72.10 TO 74.90	«Quartz» «Breccia» «A Zone»	Colour: white Grain Size: Aphan			«3-4% Pyrite»  3-4% very fine grained disseminated Pyrite in patches -trace disseminated Pyrite	-post mineralized Fault with broken rock + clay gouge
74.90 TO 88.20	«altered» «Feldspar» «Andesite» «Flow»	74.9-76.7 -bleached Feldspar Andesite Flow 76.7-81.2 «weakly silicified» weakly silicified with Breccia zones with a Hematite matrix with bleached sub-rounded Pyritic fragments 2-6 cm  Breccia @	45	76.7-81.2 «weakly silicified» 85.3-87.8 «weakly silicified» weakly silicified pyritic zone	76.7-81.2 «10% fine grained dissem» «Pyrite» -average 10% fine grained disseminated Pyrite 85.3-87.8 «15% fine grained» «disseminated Pyrite»	84.4-85.0 Moderate Fault with broken rock @ 30-45 deg to CA  86.1-86.4 Fault with clay gouge 87.6-88.1 Strong fault with clay gouge 50 deg to CA

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
88.20 TO 94.20	«Shear» «Zone»	Colour: medium green Grain Size: fine grained -Shear zone or Mafic Tuff with finely laminated bands -Original Rock was Feldspar rich Andesite.		«Sericite + clay bands» «weak silicified patches» «1-2% Quartz-Carbonate veinlets» «at 45 deg to CA»  -sericite and clay bands -weak silicified patches -minor Celadinite patches -Mod chl alteration -1-2% Quartz-Carbonate veinlets @ 45 deg to CA	-2-3% Pyrite as fragments	
94.20 TO 101.80	«Andesite» «Lahar» EOH	Colour: dark grey Grain Size: fine grained -a fine grained, grey matrix with sub-rounded Andesite fragments 1-3 cm +/-Feldspar +/-Pyroxene		-weak sericite alteration -average 1-2% Quartz-Carbonate veinlets -weakly sauss  100.0-101.8 8% sub-rounded QV fragments 1-4 cm	«average 3-4% disseminated Pyrite»  -average 3-4% disseminated Pyrite  ‡100.0-101.8‡«trace chalcopyrite,» «sphalerite, tetrahedrite in QV» «fragments» trace chalcopyrite, sphalerite, tetrahedrite in QV fragments	‡98.2-98.8‡«Moderate Fault @ 45 deg» «to CA» Moderate fault zone with clay gouge @ 45 deg to CA

HOLE NUMBER: DM-10

ASSAY SHEET

DATE: 21-November-1988

Sample	From (m)	To (m)	Length (m)	ASSAYS		GEOCHEMICAL		COMMENTS
				AG PPM	AU PPB	AU GM/T	AG GM/T	
BCD12296	28.40	29.90	1.50					
BCD12298	53.00	54.50	1.50					
BCD12299	54.50	56.00	1.50					
BCD12300	56.00	57.50	1.50					
BCD12301	57.50	59.80	2.30					
BCD12303	70.60	72.10	1.50					
BCD12304	72.10	73.60	1.50					
BCD12305	73.60	74.90	1.30					
BCD12306	74.90	76.70	1.80					
BCD12307	76.70	78.20	1.50					
BCD12308	78.20	79.70	1.50					
BCD12309	79.70	81.20	1.50					
BCD12310	85.30	86.80	1.50					
BCD12311	86.80	88.20	1.40					
BCD12312	91.00	92.50	1.50					
BCD12313	98.00	100.00	2.00					
BCD12314	100.00	101.80	1.80					

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ASSAY SHEET

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MINNOVA INC.  
DRILL HOLE RECORD

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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
47.10 TO 61.50	«silicified» «zone»	Colour: light grey Grain Size: Aphan -20% unaltered fine grained Andesite host		«strongly silicified zone, 2% fluorite»  -light grey strongly silicified zone (almost QV) altering Pyritic zone -light grey massive silicified material with 2% purple Fluorite veinlets @ 30-40 deg to CA -some Breccia zones with Pyritic matrix with light grey angular 1-2 cm fragments -minor Sericite in faults	«8% Pyrite veinlets»  -average 8% fine grained brassy Pyrite veinlets	to CA  {49.3-50.3}«Strong fault» «@ 45 deg to CA» Strong fault with clay gouge @ 45 deg to CA {52.0-59.8}«Strong fault» «@ 50 deg to CA» Strong fault with broken rock + clay gouge @ 50 deg to CA -only 70% recovery
61.50 TO 66.30	«altered» «Shear» «Zone»	Colour: medium green Grain size: fine grained Feldspar Andesite		«mod silicified and sericitized»  -patches mod silicified and sericitized -occasional QV angular 1-2 cm fragment in clay gouge	«5% Pyrite»  -average 5% Pyrite disseminate in matrix -occasional Pyrite rich fragments in the shear zone	«strong fabric @ 45 deg to CA»  -Stretched with a strong fabric @ 45 deg to CA -20-30% clay gouge
66.30 TO 88.00	«Lower» «Andesite» «Lahar»	Colour: medium green Grain Size: medium grained fine grained, green Andesite matrix with sub rounded 1-10 cm fragments -Dominantly Andesite fragments +/-Feldspar +/-Pyroxene -Flow Banded Dacite fragments increasing to 60% @ 88.0 m -Occasional lithic fragments (arg + sst)		«2% Quartz-Carbonate veinlets»  -2% Quartz-Carbonate veinlets 30-60 deg to CA, average 45 deg to CA	-trace disseminated Pyrite	

HOLE NUMBER: DM-11

DRILL HOLE RECORD

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MINNOVA INC.  
DRILL HOLE RECORD

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HOLE NUMBER: DM-11

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
88.00 TO 94.00	«Dacite» «Flow» «Breccia»	Colour: medium red Grain Size: fine grained Hematite rich Dacite matrix with light brown angular fragments 1-15 cm of flow banded Dacite		-Some Mn staining on fragments -1-2% late stage Quartz-Carbonate veinlets 45 deg to CA	-trace Pyrite veinlets	
94.00 TO 102.10	«Dacite» «Dome» EDH	Colour: light brown Grain Size: fine grained fine grained flow banded Dacite Bedding	65	-weak sericite alteration -1% late stage Quartz-Carbonate veinlets	-trace Pyrite veinlets	

HOLE NUMBER: DM-11

DRILL HOLE RECORD

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Sample	From (m)	To (m)	Length (m)	ASSAYS		GEOCHEMICAL		COMMENTS
				AG PPH	AU PPB	AU GM/T	AG GM/T	
BCD12316	36.50	37.20	0.70					
BCD12317	38.10	39.60	1.50					
BCD12318	39.60	41.10	1.50					
BCD12319	41.10	42.60	1.50					
BCD12320	42.60	44.10	1.50					
BCD12321	44.10	45.60	1.50					
BCD12322	45.60	47.10	1.50					
BCD12323	47.10	48.60	1.50					
BCD12324	48.60	50.10	1.50					
BCD12325	50.10	51.60	1.50					
BCD12326	51.60	53.10	1.50					
BCD12327	53.10	54.60	1.50					
BCD12328	54.60	56.10	1.50					
BCD12329	56.10	57.60	1.50					
BCD12330	57.60	59.60	2.00					
BCD12331	59.60	61.50	1.90					
BCD12332	61.50	63.00	1.50					
BCD12333	63.00	64.50	1.50					
BCD12334	64.50	66.30	1.80					
BCD12335	66.30	68.10	1.80					
BCD12336	68.10	69.90	1.80					
BCD12337	69.90	71.70	1.80					
BCD12338	71.70	73.50	1.80					
BCD12339	73.50	75.30	1.80					





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NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

**TIMMINS OFFICE:**  
33 EAST IROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

*Certificate of GEOCHEM*

Company: MINNDVA INC.  
Project: 235  
Attention: I. PIRIE/B. EVANS

File: 8-1060/F1  
Date: JULY 30/88  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	CU PPM	PB PPM	ZN PPM	AG PPM	AU-WET PFB
BCD12338	41	34	739	6.7	20
BCD12339	16	25	1580	0.6	15
BCD12340	20	22	293	0.9	40
BCD12341	20	20	751	0.6	10
BCD12342	18	15	163	1.4	90
-----					
BCD12343	23	32	328	42.0	3280
BCD12344	15	30	1690	2.2	15
BCD12345	23	27	3420	0.6	5
BCD12346	27	30	279	0.5	10
BCD12347	25	18	87	0.6	125
-----					
BCD12348	22	18	53	0.6	5
BCD12349	17	10	79	0.4	5
BCD12350	15	20	78	0.6	45
BCD12351	18	16	67	1.4	185
BCD12352	17	20	62	1.6	10
-----					
BCD12353	17	19	48	0.4	20

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TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

**TIMMINS OFFICE:**  
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P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

Certificate of ASSAY

Company: MINNOVA INC.  
Project: 235  
Attention: I. PIRIE/G. EVANS

File: 8-1060/P1  
Date: JULY 30/88  
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
BCD12343	52.5	1.53	3.62	0.106

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MIN-EN LABORATORIES LTD.

COMPANY: MINNOVA INC.

MIN-EN LABS ICP REPORT

(ACT-F31) PAGE 1 OF 1

PROJECT NO: 235

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: B-1000/95

ATTENTION: I.PIRIE/G.EVANS

(604)980-5814 OR (604)988-4524

\* TYPE ROCK GEOCHEM \*

DATE: JULY 23, 1995

(VALUES IN PPM)	AG	AS	BA	CU	PB	SB	ZN	AU-PFB
BCD12271	1.3	1	152	18	13	6	68	4
BCD12274	1.0	13	132	14	12	3	37	22
BCD12278	.7	4	206	15	27	2	54	19
BCD12281	1.9	14	129	16	28	3	51	34
BCD12283	1.7	23	121	19	20	3	51	1
BCD12285	1.7	37	93	13	17	3	63	32
BCD12287	.9	16	240	11	20	1	75	28
BCD12289	1.4	1	416	21	26	3	41	18
BCD12291	1.5	3	53	19	28	4	46	24
BCD12293	.6	15	48	18	18	1	55	21
BCD12296	.9	12	147	29	18	1	61	3
BCD12298	1.3	11	82	15	15	1	69	16
BCD12301	1.5	14	37	20	21	3	59	4
BCD12304	2.2	37	31	38	16	9	42	8
BCD12305	3.0	45	21	76	29	10	19	15
BCD12310	1.4	20	201	19	30	8	83	23
BCD12312	.6	19	90	26	15	2	52	6
BCD12314	3.2	5	60	47	40	3	73	269
BCD12318	1.4	31	38	22	21	4	78	14
BCD12320	.5	17	33	15	10	1	144	19
BCD12322	.8	25	274	12	28	2	48	26
BCD12325	1.8	40	254	36	37	13	25	34
BCD12327	1.9	66	264	31	46	11	13	23
BCD12329	1.5	39	158	27	44	7	8	43
BCD12331	1.3	28	348	20	14	10	19	16
BCD12333	.6	12	209	15	35	1	224	19

COMPANY: MINNOVA INC.

MIN-EN LABS ICP REPORT

(ACT:F31) PAGE 1 OF 1

PROJECT NO: 235

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-1000/P4

ATTENTION: I.PIRIE/G.EVANS

(604)980-5814 OR (604)988-4524

\* TYPE ROCK GEOCHEM \*

DATE: JULY 28, 1988

( PPM )	BCD12270	BCD12276	BCD12284	BCD12294	BCD12295	BCD12297	BCD12302	BCD12315	BCD12335	BCD12336	BCD12337
AG	.8	1.3	.5	.9	.9	1.7	.3	1.0	.6	1.3	1.6
AS	5	23	12	5	22	6	17	18	4	23	31
BA	348	221	108	385	69	41	47	36	55	78	90
CU	33	10	4	22	13	27	20	10	16	38	23
PB	28	24	18	15	21	16	25	17	21	16	16
SB	2	2	5	3	3	3	1	4	3	6	8
ZN	50	60	59	50	57	53	60	59	50	49	39
AU-PPB	5	5	5	5	10	5	5	5	5	5	5

COMPANY: MINNOVA INC.

MIN-EN LABS ICP REPORT

(ACT:F26) PAGE 1 OF 1

PROJECT NO: 235

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-1000L/P4

ATTENTION: I.PIRIE/G.EVANS

(604)980-5814 OR (604)988-4524

\* TYPE ROCK GEOCHEM \*

DATE: JULY 28, 1988

( % )	BCD12270	BCD12276	BCD12284	BCD12294	BCD12295	BCD12297	BCD12302	BCD12315	BCD12335	BCD12336	BCD12337
AL2O3	16.42	15.44	14.95	15.82	17.48	15.85	13.98	15.27	15.35	15.86	15.54
BA	.148	.191	.183	.157	.145	.122	.164	.122	.133	.079	.132
CAO	2.26	3.40	4.10	2.41	3.62	2.68	1.00	.73	3.21	2.89	2.23
FE2O3	3.78	5.98	6.97	4.66	4.34	4.56	5.68	5.15	5.06	2.63	2.84
K2O	4.54	5.54	5.74	3.90	3.84	3.26	6.84	5.09	3.75	2.81	3.75
MGO	2.32	2.66	3.63	1.63	1.71	1.80	2.90	2.89	1.92	1.07	.47
MNO2	.25	.29	.48	.32	.38	.19	.42	.31	.31	.22	.22
NA2O	.97	.53	.52	3.01	3.13	3.70	.24	.69	1.89	3.42	2.90
P2O5	.38	.46	.40	.25	.26	.20	.39	.31	.28	.20	.20
SI02	62.22	54.42	52.45	64.27	59.31	60.95	61.38	63.75	61.59	64.54	66.67
SR	.05	.12	.09	.06	.10	.08	.05	.04	.06	.05	.04
TIO2	.83	.88	.87	.64	.61	.58	.77	.72	.70	.44	.45
ZR	.017	.018	.016	.009	.016	.007	.015	.018	.011	.007	.005
S	.04	3.50	2.56	.03	.02	.41	.52	.46	.01	.01	.50
TOT(%)	94.22	93.42	92.95	97.16	94.95	94.38	94.33	95.54	94.28	94.24	95.94



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P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

***Certificate of GEOCHEM***

Company: MINNOVA INC.  
Project: 235  
Attention: I PIRIE/G EVANS

File: B-1000/P1  
Date: JULY 23/88  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

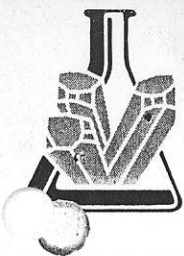
Sample Number	CU PPM	PB PPM	ZN PPM	AG PPM	AU-WET PPB
BCD 12272	28	36	58	0.9	5
BCD 12273	26	25	44	0.5	5
BCD 12275	25	32	51	1.0	5
BCD 12277	23	40	27	1.2	15
BCD 12279	24	27	43	1.6	10
-----					
BCD 12280	24	22	47	1.2	5
BCD 12282	22	31	68	1.6	5
BCD 12286	23	35	42	0.9	5
BCD 12288	25	34	40	0.6	5
BCD 12290	36	30	70	0.6	5
-----					
BCD 12292	23	36	75	0.8	200
BCD 12299	26	32	82	0.6	5
BCD 12300	23	31	75	0.8	5
BCD 12303	29	24	148	0.6	5
BCD 12306	18	25	68	0.6	5
-----					
BCD 12307	22	29	255	1.0	5
BCD 12308	21	26	68	1.4	5
BCD 12309	23	56	34	1.8	1950
BCD 12311	25	32	45	0.6	65
BCD 12313	26	30	80	0.8	230
-----					
BCD 12316	15	12	36	0.6	5
BCD 12317	28	19	74	0.6	110
BCD 12319	24	23	150	0.7	5
BCD 12321	27	24	94	0.6	5
BCD 12323	21	60	42	0.6	10
-----					
BCD 12324	19	43	75	0.6	5
BCD 12326	32	44	20	0.4	5
BCD 12328	11	10	6	0.2	5
BCD 12330	20	37	15	0.4	5
BCD 12332	21	34	194	0.8	5

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P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

Certificate of Geochem

Company: MINNOVA INC.  
Project: 235  
Attention: I PIRIE/G EVANS

File: B-1000/P2  
Date: JULY 23/88  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	CU PPM	PB PPM	ZN PPM	AG PPM	AU-WET PPB
BCD 12334	31	35	76	1.1	10

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TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

**Certificate of ASSAY**

Company: MINNOVA INC.  
Project: 235  
Attention: I. PIRIE/G. EVANS

File: 8-1000/P1  
Date: JULY 24/88  
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON	AG G/TONNE	AG OZ/TON
BCD 12309	3.25	0.095	2.2	0.06

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**TIMMINS OFFICE:**  
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P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

Certificate of GEOCHEM

Company: MINNOVA  
Project: 235  
Attention: G. EVANS

File: 8-938/P2  
Date: JULY 19/88  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	CU PPM	PB PPM	ZN PPM	AG PPM	AU-WET PPB
BCD12207	23	33	64	.8	5
BCD12208	28	31	49	.6	10
BCD12209	37	32	67	.6	5
BCD12211	31	35	47	1.0	5
BCD12213	33	42	53	.9	5
BCD12215	38	32	43	.7	10
BCD12217	39	40	50	.8	5
BCD12219	42	35	62	.9	5
BCD12220	17	32	36	.9	5
BCD12222	21	39	54	1.0	5
BCD12223	22	32	66	1.0	5
BCD12225	25	33	84	1.0	5
BCD12226	29	47	69	1.4	10
BCD12228	21	42	74	.9	5
BCD12230	15	30	63	.8	5
BCD12231	19	38	59	1.0	5
BCD12233	21	37	79	1.0	10
BCD12234	22	35	83	1.2	5
BCD12236	20	40	78	1.2	10
BCD12237	18	35	79	.8	5
BCD12239	19	33	55	.6	5
BCD12243	22	31	71	.8	5
BCD12245	23	42	83	1.1	15
BCD12246	11	23	8	.6	10
BCD12248	13	25	24	.6	5
BCD12250	12	25	9	.5	5
BCD12252	7	20	8	.6	5
BCD12254	8	20	7	.4	5
BCD12255	10	27	30	.5	5
BCD12256	19	64	81	1.2	5

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*Certificate of Geochem*

Company: MINNOVA  
Project: 235  
Attention: G. EVANS

File: 8-938/P3  
Date: JULY 19/88  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	CU PPM	PB PPM	ZN PPM	AG PPM	AU-WET PPB
BCD12258	22	41	99	1.0	5
BCD12259	10	33	29	.4	5
BCD12261	11	24	22	.4	5
BCD12262	10	21	8	.6	5
BCD12263	12	31	39	.5	10
-----					
BCD12265	10	23	26	.4	5
BCD12266	12	32	88	.5	5
BCD12268	17	42	51	.8	5

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COMPANY: MINNOVA INC.

MIN-EN LABS ICP REPORT

(ACT:F31) PAGE 1 OF 1

PROJECT NO: 235

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-938/P1

ATTENTION: G.EVANS I.PIRIE

(604)980-5814 OR (604)988-4524

\* TYPE ROCK GEOCHEM \*

DATE: JULY 19, 1988

(VALUES IN PPM )	AG	AS	BA	CU	PB	SB	ZN	AU-PFB
BCD12206	1.2	10	111	31	27	4	43	7
BCD12210	1.5	8	190	23	32	4	44	2
BCD12212	1.6	14	390	20	35	5	42	3
BCD12214	2.1	26	332	11	33	7	30	6
BCD12216	1.5	8	429	30	35	4	42	2
BCD12221	1.4	77	341	12	37	6	59	11
BCD12224	1.1	27	77	16	30	3	78	18
BCD12227	.6	1	291	7	34	3	57	4
BCD12229	.6	8	319	8	36	2	52	21
BCD12232	.4	18	245	7	37	4	46	23
BCD12235	.6	7	216	4	29	2	69	10
BCD12238	.8	15	349	9	32	3	40	38
BCD12242	1.3	17	327	24	33	5	34	17
BCD12244	.8	71	29	8	36	2	154	41
BCD12247	.9	15	196	4	22	5	50	5
BCD12249	1.1	25	128	4	33	8	11	7
BCD12251	1.0	30	83	4	26	7	9	3
BCD12253	.9	24	105	8	24	7	8	4
BCD12257	.7	8	310	4	24	6	52	2
BCD12260	.6	16	204	11	27	5	36	4
BCD12264	1.3	35	353	15	21	7	23	2
BCD12267	1.1	42	176	19	17	7	28	3

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COMPANY: MINNOVA INC.

MIN-EN LABS ICP REPORT

(ACT:F26) PAGE 1 OF 1

PROJECT NO: 235

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: B-938L/P4

ATTENTION: G.EVANS I.PIRIE

(604)980-5814 OR (604)988-4524

\* TYPE ROCK GEOCHEM \* DATE: JULY 19, 1988

( % ) BCD12218 BCD12240 BCD12241 BCD12269

AL2O3	16.01	14.76	16.01	15.59
BA	.164	.139	.178	.099
CAO	2.72	3.09	2.09	1.82
FE2O3	5.99	4.51	6.26	4.36
K2O	5.10	3.31	4.28	3.17

MGO	2.53	1.48	1.99	1.34
MNO2	.16	.13	.12	.11
NA2O	.66	2.63	1.42	3.00
P2O5	.40	.21	.36	.29
SI02	58.65	58.24	60.59	65.30

SR	.05	.08	.15	.05
TIO2	.90	.57	.91	.62
ZR	.017	.011	.017	.010
S	1.56	.08	1.17	.02
TOT(%)	94.89	89.25	95.55	95.78

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COMPANY: MINNOVA INC.

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(ACT: F31) PAGE 1 OF 1

PROJECT NO: 235

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: B-938754

ATTENTION: G. EVANS I. PIRIE

(604)980-5814 OR (604)988-4524

\* TYPE ROCK GEOCHEM \*

DATE: JULY 19, 1988

( PPM ) BCD12218 BCD12240 BCD12241 BCD12269

AG	1.6	.9	2.2	1.2
AS	8	18	10	14
BA	106	50	406	76
CU	22	17	22	21
PB	26	20	40	19

SB	4	6	18	4
ZN	52	54	44	53
AU-PPB	20	10	5	5

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NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

**TIMMINS OFFICE:**  
33 EAST IROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

*Certificate of ASSAY*

Company: MINNOVA  
Project: 235  
Attention: I.D. PIRIE

File: 8-910/P1  
Date: JULY 11/88  
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON	AG G/TONNE	AG OZ/TON
BCD 12152	.01	0.001	.6	0.02
BCD 12196	.10	0.003	1.8	0.05
BCD 12197	.05	0.001	2.2	0.06
BCD 12198	.20	0.006	4.6	0.13

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COMPANY: MINNOVA INC.

MIN-EN LABS ICP REPORT

(ACT:F31) PAGE 1 OF 1

PROJECT NO: 235

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-910R

ATTENTION: I. PIRIE G. EVANS

(604)980-5814 OR (604)988-4524

\* TYPE ROCK GEOCHEM \*

DATE: JULY 16, 1988

VALUES IN PPM )	AG	AS	BA	CU	PB	SB	ZN	AU-PFB
BCD12141	1.9	32	42	28	14	6	42	10
BCD12146	1.7	32	68	26	12	5	36	5
BCD12147	1.6	17	87	23	12	5	31	5
BCD12149	.9	1	116	17	18	1	53	5
BCD12150	1.3	11	263	9	27	2	59	5
BCD12154	1.8	12	60	8	22	1	82	5
BCD12155	1.7	13	71	11	20	1	52	5
BCD12157	1.6	25	46	15	26	1	68	5
BCD12160	.4	2	44	5	16	2	72	5
BCD12171	.3	6	344	32	16	1	65	5
BCD12173	1.3	13	233	31	8	2	45	10
BCD12174	1.6	25	157	17	11	5	52	5
BCD12187	1.4	8	58	12	17	1	56	5
BCD12204	.4	6	218	12	18	3	62	10
BCD12205	1.1	26	671	19	19	3	55	5

(VALUES IN PPM )	AG	AS	BA	CU	PB	SB	ZN	AU-PPB
BCD12143	1.8	1	70	11	28	2	60	197
BCD12145	2.1	19	46	12	23	2	61	74
BCD12148	1.1	30	43	14	25	4	55	38
BCD12151	1.4	20	114	14	27	2	61	18
BCD12153	2.3	13	141	7	22	5	53	24
BCD12159	2.3	5	46	8	40	3	38	22
BCD12164	.6	20	54	8	21	2	44	40
BCD12166	.8	1	42	10	21	2	41	10
BCD12167	1.7	28	216	9	19	6	25	21
BCD12170	.4	12	1380	12	22	3	43	16
BCD12172	.7	14	257	22	11	6	40	10
BCD12176	.9	3	63	12	19	1	58	5
BCD12179	1.5	25	99	15	28	2	50	2
BCD12181	1.4	23	194	14	30	4	51	3
BCD12185	.7	26	73	10	32	3	46	3
BCD12188	1.9	16	43	5	32	4	37	2
BCD12190	.2	2	151	9	32	7	72	4
BCD12192	1.3	27	96	6	29	1	51	8
BCD12194	1.4	92	27	6	24	4	60	20
BCD12200	1.2	15	143	10	28	5	33	4
BCD12202	1.4	74	192	8	24	5	38	22



COMPANY: MINNOVA INC.

MIN-EN LABS ICP REPORT

(ACT:F31) PAGE 1 OF 1

PROJECT NO: 235

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-910/P3

ATTENTION: G. EVANS I. PIRIE

(604) 980-5814 OR (604) 988-4524

\* TYPE ROCK GEOCHEM \* DATE: JULY 12, 1988

(VALUES IN PPM)	AG	AS	BA	CU	PB	SB	ZN	AU-PPB
BCD12142	1.8	3	66	18	17	4	52	5
BCD12144	1.2	12	71	21	14	2	49	10
BCD12156	1.0	2	66	7	21	1	49	5
BCD12158	.7	28	38	16	21	4	49	5
BCD12161	.8	12	32	4	24	2	38	20
BCD12162	.5	3	43	5	25	4	50	5
BCD12163	.2	30	68	8	22	4	53	10
BCD12165	.2	22	147	7	23	5	43	5
BCD12168	.7	28	88	11	18	3	48	5
BCD12175	.2	25	32	10	15	13	54	5
BCD12177	1.0	26	67	13	11	6	51	5
BCD12178	1.1	2	148	13	20	2	35	10
BCD12180	1.5	18	61	15	23	3	34	5
BCD12182	.9	24	67	12	18	5	56	5
BCD12183	1.3	8	76	17	28	2	48	5
BCD12184	1.0	33	53	19	32	6	54	5
BCD12186	.2	19	109	4	22	5	46	5
BCD12189	.6	25	290	10	22	6	43	5
BCD12191	.3	24	102	11	15	4	48	10
BCD12193	1.6	55	52	11	21	4	54	50
BCD12195	.2	10	48	10	13	5	54	40
BCD12199	1.2	4	155	9	21	4	40	10
BCD12201	.6	15	98	5	28	1	32	5
BCD21203	1.2	14	198	10	23	2	48	5
BCD12169	.2	4	43	11	19	3	68	10

COMPANY: MINNOVA INC.

MIN-EN LABS ICP REPORT

(ACT: F26) PAGE 1 OF 2

PROJECT NO: 235

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: B-910L

ATTENTION: I. PIRIE G. EVANS

(604)980-5914 OR (604)988-4524

\* TYPE ROCK GEOCHEM \* DATE: JULY 16, 1998

VALUES IN % )	AL2O3	BA	CAO	FE2O3	K2O	MGO	MNO2	NA2O	P2O5	SiO2	SR	TiO2
BCD12141	14.89	.120	1.55	2.46	4.08	.73	.12	2.90	.11	68.71	.07	.30
BCD12146	14.98	.092	2.12	2.46	3.34	.66	.14	3.37	.10	68.51	.04	.28
BCD12147	14.18	.082	2.91	2.23	2.91	.65	.13	3.31	.10	68.62	.04	.26
BCD12149	17.47	.167	1.94	4.90	4.06	1.59	.26	2.87	.27	61.48	.09	.66
BCD12150	17.41	.162	1.34	5.79	3.63	1.79	.39	3.40	.27	61.19	.17	.70
BCD12154	17.43	.205	1.99	6.25	4.29	2.48	.22	2.42	.37	58.42	.10	.82
BCD12155	17.89	.177	2.12	5.65	4.29	1.76	.27	3.42	.31	59.20	.13	.77
BCD12157	16.95	.166	2.00	5.86	4.23	2.26	.23	2.62	.29	59.90	.09	.78
BCD12160	15.48	.160	2.37	6.71	4.31	3.95	.39	1.62	.40	57.71	.06	.91
BCD12171	16.22	.092	3.23	6.46	3.02	3.86	.29	1.86	.43	57.13	.05	.81
BCD12173	15.01	.103	2.50	3.41	2.94	1.10	.21	2.94	.15	66.38	.04	.47
BCD12174	14.59	.119	2.59	3.34	3.33	.87	.13	2.72	.17	67.17	.05	.42
BCD12187	15.40	.186	4.38	6.08	4.35	3.30	.24	2.04	.32	54.63	.09	.95
BCD12204	16.60	.191	3.62	6.33	3.92	2.92	.30	1.62	.39	56.01	.06	.86
BCD12205	16.51	.215	1.85	4.83	3.88	1.61	.14	2.95	.22	62.92	.09	.67

COMPANY: MINNOVA INC.

MIN-EN LABS ICP REPORT

(ACT:F26) PAGE 2 OF 2

PROJECT NO: 235

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-910L

ATTENTION: I. PIRIE G. EVANS

(604)980-5814 OR (604)988-4524

\* TYPE ROCK GEOCHEM \* DATE: JULY 16, 1988

(VALUES IN % )	ZR	S	TOT(%)
BCD12141	.006	.04	96.08
BCD12146	.005	.07	96.16
BCD12147	.005	.03	95.45
BCD12149	.019	.03	95.80
BCD12150	.016	.06	96.31
BCD12154	.022	.14	95.38
BCD12155	.020	.01	96.02
BCD12157	.018	.08	95.46
BCD12160	.015	.03	94.11
BCD12171	.012	.02	93.47
BCD12173	.007	.02	95.44
BCD12174	.008	.01	95.50
BCD12187	.016	1.25	93.13
BCD12204	.017	.78	93.64
BCD12205	.012	.07	95.93



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**VANCOUVER OFFICE:**  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

**TIMMINS OFFICE:**  
33 EAST IROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

Certificate of ASSAY

Company: MINNOVA INC.,  
Project: 235  
Attention: G. EVANS/I. D. PIRIE

File: B-840/P1  
Date: JULY 5/88  
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
BCD 12122	1.6	0.05	1.07	0.031

Certified by \_\_\_\_\_

MIN-EN LABORATORIES LTD.

COMPANY: MINNOVA INC.

MIN-EN LABS ICP REPORT

(ACT:F31) PAGE 1 OF 1

PROJECT NO: 235

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-840/P1

ATTENTION: G. EVANS I. PIRIE

(604)980-5814 OR (604)988-4524

\* TYPE ROCK GEOCHEM \*

DATE: JULY 7, 1988

( PPM )	BCD12108	BCD12113	BCD12114	BCD12116	BCD12118	BCD12120	BCD12127	BCD12135	BCD12139	BCD12140	BCD12137
AG	1.5	.2	1.0	.6	1.0	.2	1.0	.2	1.0	1.3	1.2
AS	22	9	16	7	16	39	20	155	5	9	50
BA	54	66	50	431	636	123	837	141	75	421	85
CU	7	14	16	11	24	16	26	7	7	14	5
PB	28	17	18	29	17	14	17	23	11	50	19
SB	1	1	1	1	2	2	1	3	2	1	2
ZN	69	55	62	67	37	64	37	79	70	63	78
AU-PPB	5	5	5	5	5	10	5	15	65	10	35

COMPANY: MINNOVA INC.

MIN-EN LABS ICP REPORT

(ACT:F31) PAGE 1 OF 1

PROJECT NO: 235

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-840/P2

ATTENTION: G. EVANS I. PIRIE

(604) 980-5814 DR (604) 988-4524

\* TYPE ROCK GEDCHEM \* DATE: JULY 5, 1988

(VALUES IN PPM)	AG	AS	BA	CU	PB	SB	ZN	AU-PPB
BCD12101	.8	8	66	12	22	2	60	2
BCD12102	.5	21	71	12	22	1	58	2
BCD12103	3.1	38	93	22	24	1	53	180
BCD12104	1.7	40	39	20	27	1	58	61
BCD12105	2.0	23	83	19	19	1	66	57
BCD12106	1.3	11	34	12	17	2	69	40
BCD12107	3.1	48	31	21	24	1	62	72
BCD12109	.1	19	32	19	32	1	89	8
BCD12110	.3	11	46	12	18	1	76	3
BCD12111	.6	34	235	28	16	2	65	12
BCD12112	.4	33	51	11	19	2	65	125
BCD12115	1.0	9	143	10	36	1	65	14
BCD12117	.6	12	572	16	25	1	60	2
BCD12119	.3	1	88	14	25	1	65	12
BCD12121	.3	31	77	11	23	2	55	9
BCD12122	1.3	13	59	14	20	1	51	1000
BCD12123	.9	13	96	21	21	1	65	141
BCD12124	.5	6	123	24	15	2	69	27
BCD12125	.6	1	153	29	24	1	58	22
BCD12126	1.3	18	152	18	19	1	66	130
BCD12128	.6	2	79	3	27	2	69	23
BCD12129	1.5	21	75	12	23	2	56	49
BCD12130	.8	29	69	13	32	1	65	48
BCD12131	1.4	53	73	9	28	1	100	56
BCD12132	1.2	32	58	14	16	2	65	106
BCD12133	1.4	23	54	11	19	2	53	81
BCD12134	1.2	37	82	18	25	1	64	33
BCD12136	1.1	99	438	9	20	4	58	26
BCD12138	2.3	16	353	11	27	2	17	72

COMPANY: MINNOVA INC.

MIN-EN LABS ICP REPORT.

(ACT:F26) PAGE 1 OF 1

PROJECT NO: 235

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

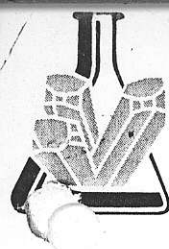
FILE NO: 8-840L/P1

ATTENTION: G.EVANS I.PIRIE

(604)980-5914 OR (604)989-4524

\* TYPE ROCK GEOCHEM \* DATE: JULY 7, 1988

( % )	BCD 1210	BCD 1211	BCD 1211	BCD 1211	BCD 1211	BCD 1212	BCD 1212	BCD 1213	BCD 1213	BCD 1214	BCD 1213
	8	3	4	6	8	0	7	5	9	0	7
AL2O3	17.49	14.62	15.68	16.11	14.29	16.36	14.51	17.05	15.75	19.68	14.64
BA	.244	.119	.158	.167	.132	.095	.182	.232	.150	.239	.080
CAO	1.67	4.47	1.79	1.83	1.95	4.72	2.09	.98	1.09	1.52	3.54
FE2O3	5.43	7.04	4.74	6.93	2.27	5.91	2.80	8.28	7.36	5.73	8.52
K2O	6.22	3.34	3.99	3.44	2.79	3.80	2.93	5.01	8.27	5.50	3.38
MGO	1.33	6.46	1.48	2.07	1.04	3.35	.63	2.33	3.45	1.74	2.84
MNO2	.12	.19	.07	.16	.06	.12	.07	.12	.19	.13	.18
NA2O	3.30	.91	2.69	2.55	2.29	.24	3.81	.16	.15	2.43	.05
P2O5	.33	.42	.23	.39	.18	.44	.12	.45	.47	.30	.50
SiO2	56.01	52.95	62.93	60.41	70.64	57.85	68.24	56.60	57.91	58.21	57.39
SR	.11	.11	.07	.10	.08	.04	.08	.05	.09	.12	.04
TiO2	.60	.74	.61	.73	.28	.80	.25	.94	.94	.77	.87
ZR	.025	.014	.017	.020	.008	.015	.011	.024	.017	.027	.018
S	2.50	.96	1.13	.02	.01	.03	.04	3.45	.07	.02	1.94
TOT(%)	95.38	92.35	95.59	94.91	96.01	93.78	95.77	95.68	95.91	96.42	93.99



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**TIMMINS OFFICE:**  
33 EAST IROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

*Certificate of ASSAY*

Company: MINNOVA INC.  
Project: 235 PENTICTON  
Attention: I. PIRIE G. EVANS

File: 8-795/P1  
Date: JUL 2 2/88  
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON	AG G/TONNE	AG OZ/TON
BCD 12056	1.02	0.030	109.4	3.19
BCD 12074	.04	0.001	2.3	0.07

Certified by \_\_\_\_\_

MIN-EN LABORATORIES LTD.



PROJECT NO: 235

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-795R

ATTENTION: I.PIRIE/G.EVANS

(604)980-5814 OR (604)988-4524

\* TYPE ROCK GEOCHEM \*

DATE: JULY 5, 1988

(VALUES IN PPM )	AG	AS	BA	CU	PB	SB	ZN	AU-PPB
BCD12051	2.4	32	40	13	28	1	74	5
BCD12052	1.7	42	41	8	13	2	32	5
BCD12053	2.1	24	40	10	18	2	57	10
BCD12061	2.0	21	41	6	25	1	65	5
BCD12063	2.2	21	61	10	70	2	97	5
BCD12064	1.6	19	96	9	30	2	60	5
BCD12076	1.1	27	61	14	26	1	71	5
BCD12080	.6	20	50	18	26	1	88	5
BCD12081	1.3	42	29	17	18	2	61	10
BCD12082	.8	30	83	13	26	1	80	5

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COMPANY: MINNOVA INC.  
 PROJECT NO: 235 PENTICTON  
 ATTENTION: I. PIRIE G. EVANS

MIN-EN LABS ICP REPORT  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

(ACT:F31) PAGE 1 OF 1  
 FILE NO: 8-795/P1  
 DATE: JULY 2, 1988

(VALUES IN PPM)	AG	AS	BA	CU	PB	SB	ZN	AU-FPB
BCD12054	1.8	25	41	13	33	1	107	3
BCD12055	5.1	11	206	14	43	1	156	14
BCD12057	27.1	22	47	26	47	2	184	12
BCD12058	3.3	30	44	5	38	2	100	13
BCD12059	2.5	31	46	5	31	1	67	4
BCD12060	3.0	25	43	6	29	2	67	11
BCD12062	1.8	24	44	14	21	2	44	2
BCD12065	1.2	15	121	12	46	1	46	3
BCD12066	.9	16	90	10	27	1	45	2
BCD12067	2.0	11	298	16	34	2	14	6
BCD12068	2.2	23	478	14	32	2	18	4
BCD12069	2.0	22	610	17	34	2	29	2
BCD12070	2.1	21	111	14	33	2	34	1
BCD12071	1.3	25	87	13	35	1	52	3
BCD12072	1.4	17	164	11	31	1	53	2
BCD12073	1.1	29	66	8	32	1	88	1
BCD12075	.8	34	181	19	35	1	193	4
BCD12077	.4	40	90	6	19	2	57	2
BCD12078	.3	32	93	19	9	1	75	1
BCD12079	.4	34	92	17	19	1	71	3
<del>BCD12081</del>	<del>.9</del>	<del>20</del>	<del>31</del>	<del>17</del>	<del>18</del>	<del>2</del>	<del>54</del>	<del>2</del>
BCD12056	108.0	11	50	58	125	1	211	1020
BCD12074	2.0	51	57	54	70	2	82	40

? what?  
 is it?

COMPANY: MINNOVA INC.

MIN-EN LABS ICP REPORT

(ACT:F26) PAGE 1 OF 2

PROJECT NO: 235 PENTICTON

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-795L/P2

ATTENTION: I. PIRIE G. EVANS

(604)980-5814 OR (604)988-4524

# TYPE ROCK GEOCHEM #

DATE: JULY 5, 1988

(VALUES IN % )	AL2O3	BA	CAO	FE2O3	K2O	MGO	MNO2	NA2O	P2O5	SI02	SR	TIO2
BCD 12051	16.71	.227	3.23	6.20	5.26	1.76	.13	2.15	.29	53.01	.12	.63
BCD 12052	15.33	.175	.86	4.44	7.21	.45	.06	1.44	.21	62.67	.06	.42
BCD 12053	17.52	.207	1.31	3.03	7.82	.59	.08	2.71	.21	58.62	.09	.54
BCD 12061	18.30	.212	2.49	3.85	7.36	1.18	.13	2.58	.25	55.69	.12	.56
BCD 12063	18.49	.214	2.06	4.31	5.96	1.10	.07	1.86	.19	56.77	.11	.57
BCD 12064	19.34	.320	2.54	4.66	6.39	1.34	.10	2.44	.29	52.94	.19	.70
BCD 12076	15.70	.086	2.61	5.57	3.46	2.81	.11	.74	.37	59.55	.06	.87
BCD 12080	15.92	.172	3.47	6.25	3.93	3.09	.13	1.44	.37	55.68	.08	.86
BCD 12082	15.80	.154	2.78	5.84	3.70	2.78	.12	2.36	.33	55.66	.09	.71

COMPANY: MINNOVA INC.

MIN-EN LABS ICP REPORT

(ACT:F26) PAGE 2 OF 2

PROJECT NO: 235 PENTICTON

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-795L/P2

ATTENTION: I.PIRIE G.EVANS

(604)980-5814 OR (604)988-4524

\* TYPE ROCK GEOCHEM \* DATE: JULY 5, 1988

(VALUES IN % )	ZR	S	TOT(%)
BCD 12051	.008	.48	90.20
BCD 12052	.010	.56	93.88
BCD 12053	.011	1.14	93.87
BCD 12061	.012	1.26	94.00
BCD 12063	.012	1.65	93.37
BCD 12064	.010	2.68	93.92
BCD 12076	.008	.37	92.31
BCD 12080	.008	.28	91.69
BCD 12082	.007	.02	90.34

COMPANY: MINNOVA INC.

MIN-EN LABS ICP REPORT

(ACT:F26) PAGE 1 OF 2

PROJECT NO: 235 PENTICTON

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: B-795L/P2A

ATTENTION: I. PIRIE G. EVANS

(604)980-5814 OR (604)988-4524

† TYPE ROCK GEOCHEM † DATE: JULY 5, 1988

(VALUES IN % )	AL2O3	BA	CAO	FE2O3	K2O	MGO	MNO2	NA2O	P2O5	SI02	SR	TIO2
BCD 12081	16.94	.116	3.91	4.65	2.76	1.81	.08	4.72	.18	79.01	.09	.55

COMPANY: MINNOVA INC.  
PROJECT NO: 235 PENTICTON  
ATTENTION: I. PIRIE G. EVANS

MIN-EN LABS ICP REPORT  
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
(604)980-5814 OR (604)988-4524

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\* TYPE ROCK GEOCHEM \* DATE: JULY 5, 1988

(VALUES IN % )	ZR	S	TOT (%)
BCD 12081	.005	.52	115.34