AYLWIN CREEK
GEOLOGY AND DRILLING

Slocan M.D. N.T.S. 82-F-14

49°53'N 117°22'W

D. C. Durgin March 9, 1981

Owner: Rio Tinto Canadian Exploration Limited Operators: Riocanex
BP Minerals Ltd.
P. Leontowicz & W. Wingert

Work performed on:	Record #	Expiry date
Ayl 1	1271	29 Jun 89
Ayl 2	1272	29 Jun 89
Rush	1263	26 Jun 89
Ent 1	1294	10 Jul 91
Ent 2	1313	11 Jul 91
Ent 3	1295	10 Jul 90
Ent 4	1296	10 Jul 90
Ent 5	1970	30 May 90
Ent 6	1971	30 May 90
Ayl 7	1312	11 Jul 91
Leona 7	1321	28 Jun 91
Leona 8	1322	28 Jun 91
Leona 9	1323	28 Jun 91
Leona 10	1324	28 Jun 91
Willa	18212	3 Jan 90
Rockland	18213	3 Jan 90
Rustler	18214	3 Jan 90
Trenton	1260	26 Jun 91
Last Chance II	1261	26 Jun 91
Silver Band	1262	26 Jun 90
Little Daisy	1327	4 Jan 91
Golden	1222	18 May 91
Idler	1223	18 May 91
Golden Fraction	1224	18 May 91

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INTRODUCTION

The Aylwin Creek Property, N.T.S. 82-F-14, is located 8 kilometres north of Silverton, and 3 kilometres northwest of Mt. Aylwin (Location Map, Appendix IV). It consists of 117 units made up of optioned crown grants and single unit claims, recent claims staked by Riocanex and recent claims staked by BP Minerals. These are being explored under a joint venture agreement. The claims were staked and the joint venture formed as a result of 1979 reconnaissance work described below.

PREVIOUS WORK

The original crown grants were staked in the 1980's by prospectors in search of gold and copper. The Willa, Little Daisy, and Rockland tunnels were driven during the next few decades. Little ore was discovered and there was no production. In 1965 Cominco drilled four short holes in the Willa Zone. In 1969-1970 the Rockland Mining Company conducted a program of soil geochemistry, geologic mapping and diamond drilling. The twelve holes drilled encountered interesting copper-gold mineralization near the Willa tunnels, but grades were too low for the metal prices at that time. Minor molybdenum values were also noted.

J. R. Woodcock Consultants Ltd., on behalf of Riocanex, conducted in 1979 a reconnaissance mapping and lithogeochemical sampling program in search of a deep porphyry molybdenum target. Coincident Cu, Mo, W and F geochemical anomalies, and a favourable geological environment compelled Riocanex to option the old crown grants and begin staking.

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Concurrently, reconnaissance work by BP Minerals caused them to stake in the same area, in pursuit of a similar target.

1980 WORK

Based on the results of the 1979 reconnaissance work, a program of 1:5000 scale geologic mapping, rock geochemical sampling, and diamond drilling was planned for the 1980 season. Expenses incurred are detailed in the attached cost summary (Appendix II). Drill logs are attached as Appendix IV.

In late April and early May, some 1.5 kilometres of access road were rehabilitated, including the building of a bridge and preparation of a drill site.

Under contract with Canadian Mine Services a drill was moved onto property on May 8th. A vertical hole was collared on the Rockland claim as indicated on the attached claim map on May 10th. Drilling proceeded to a depth of 812.5 metres where the hole was stopped June 10th. A second deep hole was collared June 13th and completed at 686.3 metres on July 6th. These holes encountered modest molybdenum mineralization in a quartz stockwork developed in intrusive rocks and metavolcanics. There were also several long intersections of intrusive breccia.

Assay results and geologic inferences developed from this program prompted a second more shallow drilling program. The first of six holes totalling 1127.3 metres was collared September 20th and the last was completed October 26th, 1980. Core for all eight drill holes totalling 2626 metres is stored in a garage rented from Mr. Paul Malkin, behind the Silverton Post Office.

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All holes were NQ except for the lower 218.9 metres of DDH 80-1.

In hole 80-1 every 5th two-metre interval was split and shipped to Vancouver for analysis for Cu, Mo, WO_3, and F. For the remaining seven holes the core was sampled every 4th two-metre interval. Later hole 80-1 was split completely in two-metre intervals to 210 metres and 80-2 to 272 metres. Holes 80-3 through 80-8 were split from top to bottom, with all samples sent to Vancouver and assayed for Ag, Au and Cu. Rocks encountered in these holes were similar to those in 80-1 and 80-2.

GEOLOGY

Geologic mapping at 1:5000 scale and rockchip geochemical sampling was carried out concurrent with the drilling, over an area of approximately 16 km^2. A baseline 550 metres long was surveyed and all drill collars and old workings were tied into it.

The Aylwin Creek project is centered on a large roof pendant of Rossland (?) volcanics in the Nelson Batholith. It is intruded by several porphyritic phases of latitic composition which are in part hydrothermally altered and pyritized. Some of these porphyry phases are distributed in a crudely concentric and radial pattern upon which are centered roughly coincident Cu, Mo, W and F geochemical anomalies. This season's sampling further delineated known anomalous areas and extended the area examined.

Drilling demonstrated the presence of weak molybdenum mineralization near the centre of the target area. Part of the mineralized zone has been cut out by a later body of intrusive breccia. Modest copper-gold-silver mineralization

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was noted in association with later structures.

REFERENCE

Aylwin Creek Assessment Report dated January 9, 1980.
Aylwin Creek Assessment Report dated December 1980.

APPENDIX I

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

Dana C. Durgin

ACADEMIC

1970 B.A. Earth Sciences	Dartmouth College
1972 M.Sc.Geology	University of Washington

PRACTICAL

June 1979-present	Rio Tinto Canadian Exploration Ltd. Vancouver, B.C. Geologist involved in various aspects of mineral exploration in Yukon and B.C.
1973-May 1979	Rioamex Inc. Denver, Colorado Geologist with experience in all phases of base and precious metal exploration and property examination in the western U.S.A.
1972 (Summer)	Texasgulf Inc. Geologist, uranium exploration Denver, Colorado, U.S.A.
1971 (Summer)	Humble Minerals Geologist, massive sulphide exploration Bangor, Maine
1970 (Summer)	The Anaconda Co. Geologist, uranium exploration Grants, New Mexico
1970 (Jan-Mar)	Institute Geographico Nacional de Guatemala Geologist, mapping for all the Gautemalan government Guatemala City
1969 (Summer)	Callahan Mining Co. Geologist, massive sulphide exploration Coastal Maine

APPENDIX II

COST STATEMENT

COSTS STATEMENT

B.C. AYLWIN CREEK JOINT VENTURE

GEOLOGY, DRILLING, PHYSICAL

19 MARCH THROUGH 31 OCTOBER 1980

GENERAL COSTS

Food & Accommodation		
7 Men, 19 Mar-31 Oct, 343 Man Days @ $34.75		$11,918
Supplies		2,612
Fuel		1,128
Fixed Wing		
Universal Travel (P.W.A.) 19 Mar-23 Oct, 43 Trips Van/Cas @ $62.98		2,708
Riocanex Equipment 343 Man Days @ $3		1,029
Contract Rentals		
Redhawk '79 FJ-40, 2May-22 Aug 113 Days @ $28.60	$3,232	
'80 4x4 12 Sep-3 Nov 53 Days @ $25.40	1,346	
Bowmac Pu 20-26 Oct. 7 Days @ $133 (Includes Damages)	929	
GMC 4x4 27-29 Aug 2 Days @ $84	167	
Tilden Firebird 20R 22023 May 2 Days @ $20	40	
Phoenix 4Dr 23-24 Oct 2 Days @ $30	60	5,774
Base Line Survey		
Ray Johnson & Assoc, 29 Sep-3 Oct.		3,728
TOTAL GENERAL COSTS		$28,897

GEOLOGY COSTS

Salaries & Wages				
7 Men, 5 May-31 Oct, 116 Man Days @ $60				$6,960
Benefits @ 20%				1,392
Helicopter				
Highland 206B, 20 Jun-15 Aug, 12.1 hrs @ $382.70				4,631
Base Map Production				2,030
Rock Assays and Analyses - Chemex Labs				
Assays 134	S @ $9		$1,206	
Analyses 26	Ag @ $165		43	
57	Au @ $5		285	
45	Au @ $7		315	
299	Cu, F, Mn, Mo, Sn, W	@ $15.80	4,724	
63	Cu, F, Mo, Sn, W	@ $15.10	951	
6	Cu, F, Mo, W	@ $11.85	71	
137	Cu, Mo	@ $ 2.35	322	
11	Cu, Mo, Pb, Zn	@ $ 3.75	41	
31	F	@ $9	279	
128	F, Mo, W	@ $ 9.15	1,171	
198	F, W	@ $ 7.50	1,485	
5	Pb, Zn	@ $ 2.35	12	10,905
Consultants Fees				
J.R. Woodcock			$6,642	
B.P. Minerals			2,500	9,142
Report Preparation				1,950
General Costs				
116/343 X $28,897				9,773
TOTAL GEOLOGY COSTS				$46,738

DIAMOND DRILLING COSTS

Salaries & Wages	
7 Men, 1 May-31 Oct, 201 Man Days @ $60	$12,060
Benefits @ 20%	2,412
Diamond Drilling	
Cameron McCutcheon, 1 May-31 Oct 2,626.1 m @ $90.53	237,732

Hole Directions Surveys			
Sperry-Sun 9 Jun 730m @ $2.68		$1,959	
5-6 Jul 648m @ $3.56		2,306	$4,265
Core Assays - Chemex Labs			
33	Ag @ $7	$ 231	
260	Ag, Au @ $9.50	2,470	
488	Ag, Au, Cu @ $15	7,320	
31	Au @ $7	217	
210	Cu @ $5.50	1,155	
64	Cu, Mn, Mo, S, Sn, Wo3 @ $47.50	3,040	
5	Cu, Mo, Pb, Wo3, Zn @ $32	160	
117	Cu, Mo, Wo3 @ $20.50	2,399	
156	F @ $12	1,872	
81	Wo3 @ $9	729	19,593
Core Assays Check - Bondar & Clegg Lab			
21 Ag, Au, Cu @ $15			315
Core Analysis - Riocanex Lab			
81 Cu, Mo @ $6			486
Core Shed Rental			
Paul Malkin, May-Dec, 8 Mos @ $55			440
Drill Moves			
R & S Holdings, D6 Cat, 12 Jun, 8-9 Jul 18-26 Sep, 47 Hrs @ $50		$2,350	
Cat Mob/Demob Lowbed 3 Trips @ 280		840	
Wesley Construction & Transportation Ltd D8H Cat 17-22 Oct 26 Hrs @ $85		2,210	
Low Bed & Pilot Car & Over Size Permit		895	
Red Mountain Ranch John Deere 450B Cat 28 Oct 4.5 Hrs @$31.50		146	6,441
Report Preparation			12,184
General Costs			
201/343 x $28,897			16,934
TOTAL DIAMOND DRILLING COSTS			312,862

PHYSICAL WORK COSTS

Salary & Wages	
7 Men, 19 Mar-31 Oct, 26 Man Days @ $60	$1,560

Benefits @ 20%		312
Contracted Work		
V & H Contracting		
'79 D8K Cat, 1-8 May, 52 Hrs @ $89.75	$4,667	
Power Saw & Labourer 39 Hrs @ $14.50	566	
Cat Mob/Demob Lowbed, Pilot, Oversize Permit	469	5,702
W. C. Wingert		
21 Apr-8 May, TD8 Cat, 45 Hrs @ $35	$1,575	
Labourer 48 Hrs @ 16	768	
Cat Mob/Demob Lowbed	249	
Pu Truck Rental	125	2,717
General Costs		
26/343 x 28,897		2,190
TOTAL PHYSICAL WORK COSTS		$12,481

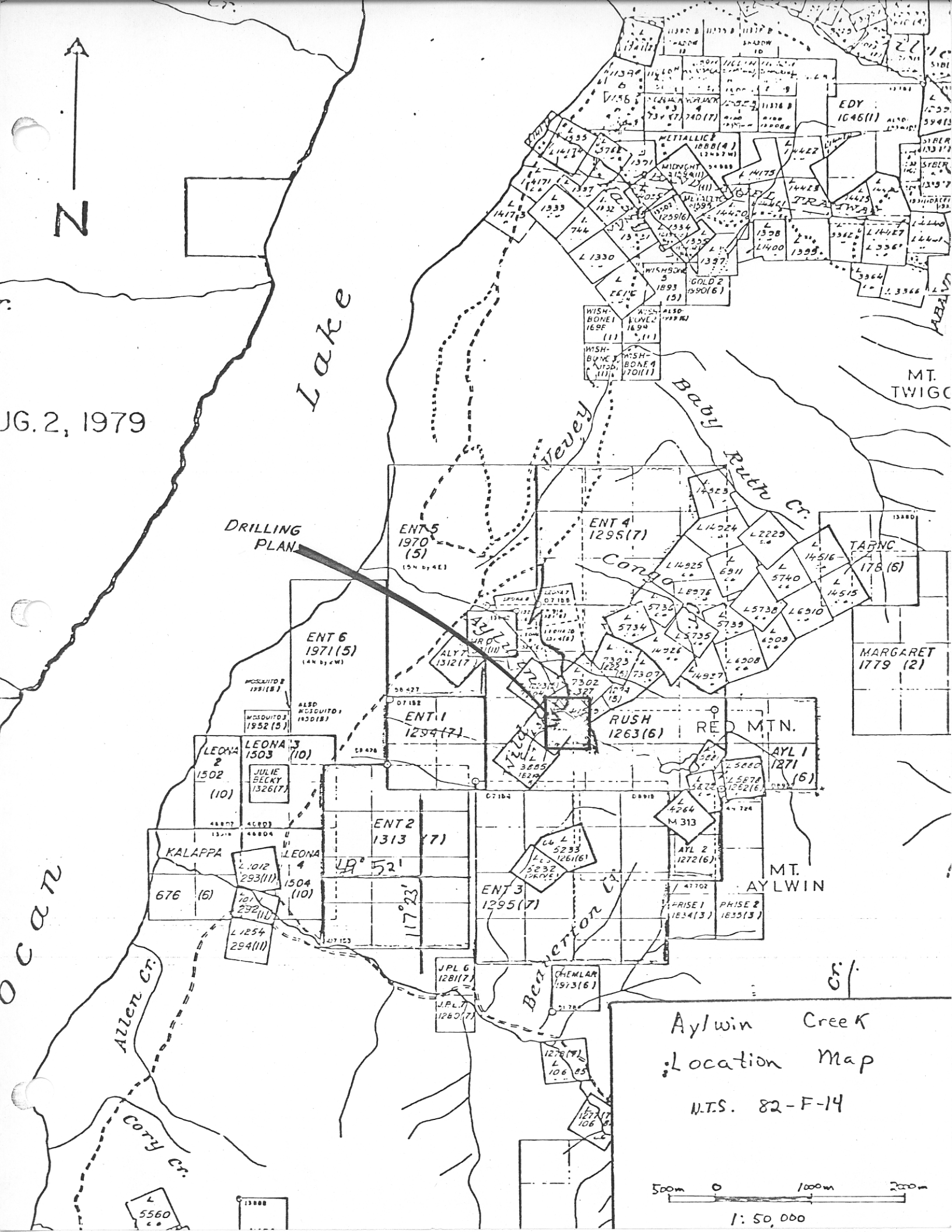
COSTS APPORTIONED

TO CLAIMS

CLAIM	UNITS	GEOLOGY	DRILLING	PHYSICAL	TOTAL
AYL 1	4	$1,598	$ -	$ -	$ 1,598
AYL 2	6	2,403	-	-	2,403
RUSH	20	7,989	-	6,241	14,230
ENT 1	4	1,598	-	-	1,598
ENT 2	12	4,794	-	-	4,794
ENT 3	16	6,392	-	-	6,392
ENT 4	12	4,794	-	3,744	8,538
ENT 5	20	7,989	-	-	7,989
ENT 6	8	3,196	-	-	3,196
AYL 7	1	399	-	-	399
LEONA 7	1	399	-	312	711
LEONA 8	1	399	-	312	711
LEONA 9	1	399	-	312	711
LEONA 10	1	399	-	312	711
WILLA	1	399	34,311	312	35,022
ROCKLAND	1	399	181,753	312	182,464
RUSTLER	1	399	-	-	399
TRENTON	1	399	-	-	399
LAST CHANCE II	1	399	-	-	399
SILVER BAND	1	399	-	-	399
LITTLE DAISY	1	399	-	312	711
GOLDEN	1	399	-	-	399
IDLER	1	399	96,798	312	97,509
GOLDEN FR	1	399	-	-	399
TOTALS	117	$46,738	$312,862	$12,481	$372,081

APPENDIX III

LOCATION & CLAIM MAP



UG. 2, 1979

Aylwin Creek
Location Map

N.T.S. 82-F-14

APPENDIX IV

DRILL LOGS

DDH 80-1 THROUGH 80-8

Rio Tinto Canadian Exploration Limited

Diamond Drill Record

Location: 10,000N, 10,000E				Hole No. 80-1
Azimuth: -	Dips - collar vertical°		Contractor: Canadian Mine Services	Property: Aylwin Creek
Elevation: 1250m	- 240 m	-80 ° 55'	Logged By: D.C. Durgin	Claim No. Willa
Length: 812.5m	- 510 m	-75 ° 48'	Date: Relogged October 1, 1980	Section No. North-South
Core Size: NQ 0-593.6m BQ 593.6-812.5m	- 730 m	-69 ° 06'	Survey done by Sperry Sun.	Started: May 10, 1980
Purpose: To test rock geochemical anomaly (Cu, Mo, W, F)				Completed: June 10, 1980

From m	To m	Description	Sample No.	From m	To m	Length	Qtz-py veins
0	3.9	Overburden	0	0	4	4m	-
3.9	15.8	Feldspar Porphyry					
		Fine to medium grained, scattered white	D1780	3.9	6	2.1m	4
		feldspar phenocrysts average 2mm, grey green					
		to pinkish brown due to patchy secondary	D1781	6	8	2m	4
		biotite, esp. near bottom, locally frag-					
		mental texture. Moderate to intense sili-	D1501	8	10	2m	1
		cification. Strongly fractured with quartz-					
		chlorite-pyrite and amphibole-pyrite vein-	D1782	10	12	2m	3
		lets, also quartz veinlets only. Feldspar					
		bleached adjacent to quartz-chlorite	D1783	12	14	2m	4
		veinlets, irregular patchy replacement of					
		breccia matrix by pyrite-amphibole locally.	D1784	14	16	2m	6
		8.2-8.4- Breccia with angular siliceous					
		porphyry fragments in very chloritic					
		matrix, a parallel coarse quartz vein -					
		lower contact arbitrary, @ 40°, obscured					
		by alteration. Secondary biotite, fract-					
		ure controlled - see 15.7m.					
15.8	30.4	Heterogeneous Breccia	D1785	16	18	2m	10

Rio Tinto Canadian Exploration Limited

Diamond Drill Record

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From m	To m	Description	Sample No.	From m	To m	Length	Qtz-py veins
		Feldspar porphyry fragments most common,	D 1502	18	20	2m	8
		also cream to white felsites, dark brown					
		schistose volcanics. Several textural					
		varieties of feldspar porphyry, composit-	D1786	20	22	2m	6
		ion similar.					
		28.2- Coarse crowded feldspar porphyry					
		fragment with feldspars to 4mm and fresh	D1787	22	24	2m	3
		hornblende phenocrysts, some possibly dykes.					
		Matrix of breccia strongly chloritized,					
		composed of small fragments and rock flour,	D1788	24	26	2m	4
		some epidote. Rock is silicified, cut by					
		quartz-chlorite-pyrite veinlets, epidote -					
		chlorite-pyrite veinlets and associated	D1789	26	28	2m	9
		patchy replacement of matrix and fragments.					
		Latest is black amphibole-pyrite in hairline					
		fracture network. A few very late fractures	D 1503	28	30	2m	3
		with calcite and bleaching of adjacent					
		feldspar. Chalcopyrite + pyrite in seams,					
		replacements and blebs, generally with	D1790	30	32	2m	5
		chlorite.					
		28.2 - 20cm fragment much like early por-					
		phyry.	D1791	32	34	2m	7
		18.2-18.4- Strong coarse chalcopyrite-					
		pyrite-pyrrhotite.					
30.4	38.4	Feldspar Porphyry	D1792	34	36	2m	6
		Generally fine grained, grey to pinkish,					

Rio Tinto Canadian Exploration Limited

Diamond Drill Record

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From m	To m	Description	Sample No.	From m	To m	Length	Qtz-py veins
		locally pink-brown to grey-green due to alteration. 30% feldspar 1mm or less, 2-3% feldspar phenocrysts to 2.5mm, 1-2% altered hornblende phenocrysts to 3mm. Often strongly altered with up to 15% disseminated pyrite with epidote in clots and streaks. Secondary biotite common along fractures, especially near base. Quartz-chlorite-pyrite veinlets common, later black amphibole-pyrite veinlets locally intense.	D1793	36	38	2m	3
			D 1504	38	40	2m	7
			D1794	40	42	2m	10
			D1795	42	44	2m	11
38.4	44.6	Heterogeneous Breccia					
		Few large fragments, matrix predomonates. A few larger feldspar porphyry fragments. Similar to 15.8-30.4; very strong black amphibole-pyrite on fractures, up to 10% pyrite in clots and disseminations, silicified.	D1796	44	46	2m	10
			D1797	46	48	2m	13
44.6	50.2	Feldspar Porphyry	D 1505	48	50	3m	15
		Very similar to 30.4-38.4, a bit more coarse grained. 5-7% disseminated pyrite with chlorite, and minor epidote. Patchy pinkish secondary biotite overprinted with green chlorite-pyrite and amphibole-pyrite alteration. Mineralization as above.	D1798	50	52	2m	15
			D1799	52	54	2m	13
50.2	55.3	Heterogeneous Breccia					

Rio Tinto Canadian Exploration Limited

Diamond Drill Record

Hole No. 80-1

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From m	To m	Description	Sample No.	From m	To m	Length	Qtz-py veins
		Breccia nature obvious only locally.	D1800	54	56	2m	12
		Several large dark brown-green volcanic					
		fragments, a few feldspar porphyry frag-					
		ments. Pyrite-chalcopyrite in blebs and	D1801	56	58	2m	5
		veinlets very abundant locally (52.7),					
		decreasing downward. Amphibole-pyrite					
		veinlets very abundant @ low angles to	D 1506	58	60	2m	3
		core, lower contact sharp @ 55° to core					
		axis.					
55.3	60.8	Feldspar Porphyry	D1802	60	62	2m	5
		A bit more coarse than 44.6-50.2, crowded					
		feldspar phenocrysts to 4mm, average 2mm,					
		5% hornblende pseudomorphs, a few quartz	D1803	62	64	2m	7
		crystals, aphanitic matrix. Pink-brown due					
		to abundant secondary biotite, 1-2% diss-					
		eminated pyrite. Pyrite-black amphibole-	D1804	64	66	2m	9
		chlorite veinlets common, quartz-epidote					
		veinlets .					
		58-60.8- Gougy zone, many slips, strong					
		argillic alteration, a few quartz veins.					
		Upper contact appears chilled against breccia.					
60.8	65.0	Heterogeneous Breccia					
		Most fragments are feldspar porphyry similar					
		to 55.3-60.8, a few andesitic fragments,					
		a few tan cherty fragments, silicified.					
		Weak to moderate typical chlorite-pyrite-					

Rio Tinto Canadian Exploration Limited
Diamond Drill Record

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From m	To m	Description	Sample No.	From m	To m	Length	Qtz-py veins
		mineralization, minor chalcopyrite-perhaps 0.1% Cu. Matrix grey, fine grained silicified.					
65.0	115.0	Feldspar Porphyry	D1805	66	68	2m	3
		Same as 55.3-60.8. A crowded feldspar porphyry with feldspar phenocrysts to 4mm,	D 1507	68	70	2m	4
		average 2mm. Biotite after hornblende, trace quartz eyes, aphanitic matrix. General pink-brown colour due to secondary biotite					
		which is often replaced by disseminated	D1806	70	72	2m	4
		pyrite and epidote. Biotite destroyed in silicified envelopes of pyrite-epidote-					
		black amphibole (or dark chlorite?) vein-	D1807	72	74	2m	2
		lets. -Weak vague fragmental textures perhaps a function of alteration. Same					
		pyrite-epidote-amphibole mineralization,	D1808	74	76	2m	11
		weak.					
		68.5- 72.3- Chalcopyrite-pyrite-pyrrhotite					
		in clots and streaks as replacements along	D1809	76	78	2m	3
		fractures with chlorite. Less abundant chalcopyrite-pyrite present throughout.					
		Also locally associated with patchy silic-	D 1508	78	80	2m	8
		ification.					
		93-101.3 - Gradually becomes brecciated,	D1810	80	82	2m	6
		developing patchy silicification, matrix					

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Diamond Drill Record

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From m	To m	Description	Sample No.	From m	To m	Length	qtz-py veins
		very fine grained, siliceous. No foreign	D 1811	82	84	2m	2
		fragments - porphyry is crackled and silic-					
		ified- not a primary texture, but result					
		of alteration. Strongly fractured with	D 1812	84	86	2m	2
		chlorite and pyrite minor chalcopyrite and					
		pyrite on, and as replacement from fractures					
		Becoming more biotitic. Last 2m, fewer	D 1813	86	88	2m	3
		obvious fragments. Occasional gypsum					
		veinlet.					
			D 1509	88	90	2m	9
		101.8-103.7- Very strong red-brown biotite.					
		5% sulfides, pyrite-chalcopyrite.					
			D 1814	90	92	2m	2
		103.7-111.2- Biotite content decreases,					
		silicification, chlorite-epidote-pyrite					
		increases. Still some feldspar porphyry,	D 1815	92	94	2m	4
		occasional disseminated chalcopyrite,					
		abundant pyrite.					
			D 1816	94	96	2m	4
		105.8- 20cm leucocratic aplitic textured					
		dyke @ 45°.					
			D 1817	96	98	2m	1
		111.2-115.0 - Silicification and fracturing					
		increasingly intense. No obvious fragments.					
		3% disseminated pyrite with epidote. No	D 1510	98	100	2m	2
		secondary biotite. Rock grey green in					

Rio Tinto Canadian Exploration Limited

Diamond Drill Record

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From m	To m	Description	Sample No.	From m	To m	Length			qtz-py veins
		colour. Minor black amphibole-pyrite	D 1818	100	102	2m			2
		veining, increasing toward end.							
115	147.3	Heterogeneous Breccia	D 1819	102	104	2m			3
		Most common fragments are feldspar porphyry							
		in several textural varities, many look							
		much like feldspar porphyry. A few similar	D 1820	104	106	2m			2
		to early porphyry. 10-15% are brown to							
		black schistose metavolcanics. Fragments							
		commonly 5-10cm, occassionally larger,	D 1821	106	108	2m			4
		with smaller interstitial fragments and							
		light apple green matrix (rock flour?).							
		little or no brown biotite. Fragments gen-	D 1511	108	110	2m			4
		erally rounded with reaction rims, especi-							
		ally black fragments.							
		2-5% disseminated pyrite, trace chalcopyrite.	D 1822	110	112	2m			4
		Pyrite-epidote-chlorite in stringers and							
		clots abundant but erratic. Black amphib-							
		ole (or chlorite) plus pyrite on fractures -	D 1823	112	114	2m			6
		weak to intense. Occasional late gypsum							
		veinlets.							
			D 1824	114	116	2m			3
		114.5-116.5- Intense pyrite-black amphibole							
		veining.							
			D 1825	116	118	2m			4
		133.6- 3cm pink-brown garnet-epidote vein	D 1512	118	120	2m			1

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From m	To m	Description	Sample No.	From m	To m	Length			qtz-py veins
			D 5022	146	148	2m			7
		173-177- Odd parallel banding, dark lines							
		spaced 3-5mm apart @ 30° to core- incipient	D 1515	148	150	2m			6
		foliation? Cuts across fragments and							
		epidote-pyrite-quartz bands.	D 5023	150	152	2m			6
			D 5024	152	154	2m			2
			D 5025	154	156	2m			9
			D 5026	156	158	2m			16
			D 1516	158	160	2m			11
			D 5027	160	162	2m			7
			D 5028	162	164	2m			11
		187.7 - Small fragments in matrix high-							
		lighted by alteration along calcite	D 5029	164	166	2m			4
		veinlets.							
			D 5030	166	168	2m			1
		187.9-191- Several very large fragments	D 1517	168	170	2m			3
		to 30cm.							
			D 5031	170	172	2m			5

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From m	To m	Description	Sample No.	From m	To m	Length	qtz-py veins
			D 5032	172	174	2m	4
		190- Below here veining decreases to only occasional chlorite-epidote-pyrite veinlets and late gypsum veinlets.	D 5033	174	175.8	1.8m	6
			D 5034	176.5	178	1.5m	10
		202.3-202.6- Feldspar porphyry fragment with hornblende - early porphyry?	D 1518	178	180	2m	7
			D 5035	180	182	2m	10
		204.5- Epidote-chlorite-amphibole-pyrite band nearly parallel to core. 5cm dark chlorite along margins - these bands might be tuffisite dykes?	D 5036	182	184	2m	5
			D 5037	184	186	2m	2
		209.7- Fragment of feldspar porphyry looks just like feldspar porphyry from higher in this hole.	D 5038	186	188	2m	7
			D 1519	188	190	2m	13
		215.6- Very large fragments? of dark schistose metavolcanic.	D 5039	190	192	2m	7
			D 5040	192	194	2m	7
		216.6- Early porphyry (?) fragment.	D 5041	194	196	2m	3
		221.8 - 20cm breccia fragment of early porphyry with barren milky quartz veins.	D 5042	196	198	2m	8

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From m	To m	Description	Sample No.	From m	To m	Length			qtz-py veins
			D 1520	198	200	2m			8
		220-233- Breccia contains many early							
		porphyry fragments. Moderate chlorite-	D 5043	200	202	2m			4
		epidote-pyrite veining and disseminated							
		pyrite- 3-4% total sulfides.	D 5044	202	204	2m			6
		233-234- Breccia composed of early por-	D 5045	204	206	2m			6
		phyry fragments in a black matrix.							
			D 5046	206	208	2m			7
		235.7- 236- 40cm black schistose meta-							
		volcanic fragment.	D 1521	208	210	2m			2
		247.7-248 - Brecciated early porphyry with		210	212				4
		black matrix.							
				212	214				4
		248-260- Secondary biotite common in							
		several fragments. 3-5% disseminated		214	216				2
		pyrite.							
				216	218				2
		251.1 - Two 1-2mm quartz-MoS_2 veinlets							
		perpendicular to core axis - appear later	D 1522	218	220	2m			6
		than breccia. In a zone of secondary							
		biotite 15cm long.		220	222				5
		253.2 - Feldspar porphyry fragment with		222	224				1
		one large quartz eye and 5% disseminated							

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From m	To m	Description	Sample No.	From m	To m	qtz-py veins
		pyrite.		224	226	8
				226	228	8
		262.7 - 263.3 - Lamprophyre dyke,				
		upper contact @ 40°, lower 60°.	D 1523	228	230	14
		263.3 - Breccia predominantly fragment		230	232	6
		supported, little matrix, which is largely				
		very well mixed small fragments - early		232	234	6
		porphyry, feldspar porphyry, augite				
		porphyry, dark schistose metavolcanics,		234	236	3
		fine grained siliceous volcanics. Poorly				
		fractured, very few veins. 1-2% dissemin-		236	238	3
		ated pyrite with epidote replacing mafic				
		minerals. Occasional sulfide blebs, largely	D 1524	238	240	4
		pyrite, minor pyrrhotite.				
				240	242	1
		277.9 - 5cm lamprophyre dyke @ 55°.				
		Early porphyry fragments and related		242	244	2
		ones with quartz eyes, quite common through-				
		out.		244	246	2
				246	248	1
			D 1525	248	250	1

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From m	To m	Description	Sample No.	From m	To m	Length						qtz-py veins
				250	252							1
		292.5 - Patchy, weak to moderate silic-		252	254							4
		ification and pale green alteration,										
		largely fracture-related.		254	256							3
				256	258							2
		296.2m- 2cm fragmental dyke (?) -	D 1526	258	260	2m						1
		feldspar fragments and silicified shards										
		in chlorite-epidote matrix.		260	262							2
				262	264							2
		297.8 - 20cm interval, feldspar porphyry										
		fragments in brown bioite matrix- biotite		264	266							3
		breccia.										
				266	268							3
		299- Increasing pale brown alteration and	D 1527	268	270	2m						4
		fracturing.										
				270	272							2
				272	274							5
				274	276							10

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From m	To m	Description	Sample No.	From m	To m	Length			Qtz-Py veins
				276	278				3
			D 1528	278	280	2m			9
301.5	302.0	Lamprophyre Dyke							
		Upper contact @ 10°, lower 45° (broken core)		280	282				6
				282	284				5
302.0	302.2	Lamprophyre Dyke							
		Upper contact @ 45°, lower @ 45°.		284	286				4
				286	288				2
304.3	361.8	Heterogeneous Breccia	D 1529	288	290	2m			2
		Same fragment types as above.							
				290	292				[illegible]
		304.3-307.0- Weak silicification, bleach-		292	294				2
		ing, pale brown colour, fading to normal							
		brown - green - white colours.		294	296				[illegible]
		309-311, 314-316.5 - Fragments generally		296	298				[illegible]
		less coarse than normal, most less than							
		3cm.	D 1530	298	300	2m			[illegible]
				300	302				

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From m	To m	Description	Sample No.	From m	To m	Length	qtz-py veinlets
				302	304		3
		320-330 - Moderate silicification, crackling, early fine grained veinlets, 2% disseminated pyrite..		304	306		5
				306	308		1
		332.8, 332.9 - 3 anhydrite veinlets with minor chlorite and pyrite @ 40° to core.	D 1531	308	310	2m	5
				310	312		4
		334.0- Begin blebs of pyrite and minor pyrrhotite with epidote and chlorite, 3-4% pyrite.		312	314		4
				314	316		4
				316	318		5
			D 1532	318	320	2m	5
		341.0 -Begin bleaching, increasing chlorite-epidote-pyrite-pyrrhotite-magnetite. 5-6% sulfides by 346.		320	322		5
				322	324		5
				324	326		6
				326	328		6

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From m	To m	Description	Sample No.	From m	To m	Length	g/t Ag	g/t Au				qtz-py veins
			D 1533	328	330	2m						4
				330	332							3
		346.4- 10cm white pegmatite dyke @ 40°.		332	334							2
		346.1- 15cm white pegmatite dyke @ 60°.		334	336							3
				336	338							3
		349.5 - 350.0-Coarse pyrite streaks with chalcopyrite.	D 1534	338	340	2m						2
				340	342							9
		352.9-361.8 -very strong chlorite epidote alteration with abundant blebs and streaks of pyrite-pyrrhotite -magnetite, trace chalcopyrite, replacing matrix and some mafic fragments. 10- 12% sulfides.		342	344							2
				344	346							4
				346	348							14
			D 1535	348	350	2m	1.8	0.089*				12
		360.8- 2 quartz veins as below - irregular, glassy, cut by pyrite-pyrrhotite mineralization - fragment in breccia. Transition abrupt, contact		350	352							10
				352	354							18

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From m	To m	Description	Sample No.	From m	To m	qtz +/- Mo veins	qtz-py veins
		not sharp.		354	356		24
				356	358		19
			D 1536	358	360		8
361.8	394.1	Meta Volcanic					
		Textures destroyed. Moderate tan		360	362	5	10
		argillic alteration and patchy green					
		color. Very abundant/quartz stringers		362	364	18	5
		and veinlets, several ages, varying					
		dips. Barren to trace MoS_2. Parent		364	366	+20	7
		rock unrecognizeable. Abundant feld-					
		spars to 5mm, variable. Variable silic-		366	368	+20	4
		ification, occasional quartz eyes,					
		late gypsum veinlets common.	D 1537	368	370	+20	2
				370	372	+20	4
		369, 372.6 - Crushed zone several		372	374	+20	1
		quartz veins with minor MoS_2, scattered.					
				374	376	+20	4
		377.8, 378.8- 1cm pegmatite veinlets		376	378	+20	5
		@ 45°.					
			D 1538	378	380	+20	2

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From m	To m	Description	Sample No.	From m	To m	Length	qtz-Mo veins	qtz-py veins
				380	382		+20	2
		381.5 - 382.5 - Patchy hematite alteration of feldspars associated with late calcite veinlets.		382	384		+20	3
				384	386		+20	3
				386	388		+20	3
		383.8 - 0.7cm quartz vein with MoS_2 on margins.	D 1538	388	390	2m	+20	10
				390	392		+20	4
		384.0- 40cm quartz vein @ 30°.		392	394		+20	9
		386.8 - 10cm gouge zone @ 45°.		394	396		+20	11
		387.0 - 0.6cm quartz vein with inclusions of volcanics.		396	398		+20	14
			D 1540	398	400	2m	+20	11
		390- Massive pyrite patch 30cm long with minor pyrrhotite, hematite.		400	402		+20	5
				402	404		+20	3
		394, 394.5 - 2 coarse aplite dykes @ 70°.		404	406		+20	8

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From m	To m	Description	Sample No.	From m	To m	Length	qtz +/- No veins	qtz-py veins
				406	408		+20	2
394.1	423.0	Meta Volcanics	D 1541	408	410	2m	+20	5
		A volcanic breccia, fragments visible,						
		but indistinct, chloritic, pale brown		410	412		+20	3
		tinge- weak argillic alteration? Silici-						
		fied to 401.6 with other crenulated		412	414		+20	0
		quartz veins, cut by later more glassy						
		ones. A few late pyrite-chlorite veins.		414	416		+20	5
				416	418		+20	5
		401.6- 415.0 - intense argillic alteration	D 1542	418	410	2m	+20	6
		with crenulated quartz veins, fragmental						
		texture not evident, tuffaceous? Other		420	422		+20	3
		quartz veins crackled (see 406.2) very						
		little sulfide other than 1% disseminated		422	424		+20	1
		pyrite.						
				424	426		1	2
		403.0-423.0 - Massive quartz veins up to		426	428		1	1
		1.5 metres wide make up 50% of rock.						
		Many other stringers and veinlets. All	D 1543	428	430		1	6
		barren. Older veins contorted.						
				430	432		1	8
		Lower contact abrupt but not sharp.						

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From m	To m	Description	Sample No.	From m	To m	Length
				432	434	
				434	436	
				436	438	
423	472.0	Quartz vein.	D 1544	438	440	2m
		Upper contact @ 20° to core. Quartz vein, milky, cut by translucent quartz stingers as @ 434.6. Scattered silicified and resorbed volcanic fragments. Hairline quartz-pyrite-pyrrhotite veinlets about 6/metre. Hairline fractres with gypsum more than 20/metre. A few small quartz-pyrite-magnetite veinlets.		440	442	
				442	444	
				444	446	
				446	448	
			D 1545	448	450	2m
		425.6 - Trace MoS_2 on fracture		450	452	
		426.8 - same with pyrite. Trace MoS_2 common below 425m, 0.00X Mo.		452	454	
		432.2, 434.6 - Quartz-MoS_2 pyrite veinlets @ 25° to core, 60°.		454	456	
				456	458	
		436.5, 437.2- White pegmatite dyke @ 45°,				

quartz vein	qtz-py veins
3	6
2	14
1	5
1	9
1	13
1	9
1	4
1	5
1	4
1	4
2	4
2	4
4	8

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Hole 80-[illegible]

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From m	To m	Description	Sample No.	From m	To m	Length	[illegible]
		cut by quartz-pyrite veinlet, minor	D 1546	58	46[illegible]	[illegible]	5
		disseminated pyrite.					
				60	46[illegible]		2
		444- 448 - Granular textured quartz-		62	46[illegible]		2
		silicified volcanic?					
				64	46[illegible]		4
		444.8, 448.2 - 1-2cm coarse granitic		[illegible]5	46[illegible]		7
		dykelets with strong argillic alteration					
		@ 45°	D 1547	[illegible]8	47[illegible]	[illegible]	10
		451.2 - 452.0 - Aplite dyke with		[illegible]0	47[illegible]		19
		pegmatite patch, argillic alteration,					
		cut by quartz-pyrite veinlet @ 60° to		72	47[illegible]		8
		core.					
				74	47[illegible]		2
		454.2, 454.8 - Same, 10cm, @ 60°.		[illegible]6	47[illegible]		16
			D 1548	[illegible]8	48[illegible]	[illegible]	5
		452 - 473.2 - Abundant volcanic fragments,					
		pyrite-chlorite-specularite-pyrrhotite		[illegible]0	48[illegible]		9
		patches; 2-5% pyrite, disseminated and					
		in fractures.		[illegible]2	49[illegible]		10

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From m	To m	Description	Sample No.	From m	To m	Length	qtz-py spec	qtz-py [illegible]
		457.5-458.6 - Aplite dyke @ 45°,						
		green, intense sericite-quartz alteration.		4[illegible]	486		1	[illegible]
				4[illegible]	488		2	[illegible]
		464 - 469.5 - MoS_2 common in hairline						
		fractures and quartz-pyrite veinlets,	D 1549	4[illegible]	490	2m	1	[illegible]
		grade 0.02% Mo? Many gypsum veinlets.						
		469.3, 469.5- Pegmatite dykes @ 70°.		4[illegible]	492		4	[illegible]
472.0	478.7	Early Porphyry		4[illegible]	494		3	[illegible]
		Fragments in quartz vein as above.						
		473.2-473.6- Diorite dyke, silicified,		4[illegible]	496		5	[illegible]
		weak argillic alteration. Bleached						
		along gypsum veinlets.		4[illegible]	498		16	[illegible]
		477.4 - 20cm pink granitic dyke @	D 1550	4[illegible]	500	2m	8	[illegible]
		65° to core.						
				5[illegible]	502		7	[illegible]
478.7	481.8	Diorite						
		Medium grained, relatively fresh		5[illegible]	504		5	[illegible]
		biotite; chloritic alteration along						
		quartz-chlorite vein; fresh, with		5[illegible]	506		7	[illegible]
		pegmatite at both contacts.						
				5[illegible]	508		4	[illegible]
481.8	488.3	Quartz vein						
		Nearly all quartz with silicified early	D 1551	5[illegible]	510	2m	8	[illegible]

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From m	To m	Description	Sample No.	From m	To m	Length
		porphyry fragments. Several 1-2cm				
		pink pegmatite dykelets with weak			512	
		argillic alteration. Several 1-3cm				
		coarse diorite dykes with argillic			514	
		alteration. Minor MoS_2.				
					516	
488.3	492.8	Biotite Schist				
		Weak to moderately chloritized, strong			518	
		chlorite along fractures and quartz				
		veinlets. Late quartz-calcite veinlets.	D 1552		520	2m
		Schistosity @ 45°.				
					522	
492.6	495.6	Biotite Quartz Monzonite (Nelson-related?)				
		Medium grained, locally pegmatitic.			524	
		Foliated near lower contact. Older				
		than quartz veining, moderate argillic			526	
		alteration.				
					528	
495.6	511.2	Quartz Vein				
		Glassy translucent quartz with occasion-	D 1553		530	2m
		al silicified early porphyry inclusion				
		with kaolinized feldspars. Thin quartz-			532	
		pyrite-specularite veinlets @ 30° + 70°				
		to core. Quartz-pyrite-MoS_2 on			534	
		fractures; grade less than 0.01% MoS_2				
		veinlets, some MoS_2 on fractures ; grade			536	

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From m	To m	Description	Sample No.	[illegible]	To m	[illegible]	qtz-py spec
		less than 0.01% MoS_2					
		499.0 - 15cm pegmatite dyke @ 60°.		[illegible]	538		9
		500.1 - Hornfels inclusion.					
		503.0 - Quartz-pyrite-MoS_2 - hematite	D 1554	[illegible]	540	[illegible]	11
		veinlets.					
		503.7, 504.1 - Pegmatite dyke, weak		[illegible]	542		9
		kaolinization @ 50° to core axis					
		503.8 - MoS_2 in gouge @ 50° to core.		[illegible]	544		9
		504.5- 511.2 - Abundant argillically					
		altered fragments.		[illegible]	546		6
511.2	517.7	Biotite Schist		[illegible]	548		22
		Moderate to strong chlorite, especially					
		along veinlets. Hairline calcite-pyrite	D 1555	[illegible]	550	[illegible]	11
		veinlets, quartz-pyrite veinlets. A few					
		small slips. Foliation @ 70°.		[illegible]	552		4
		515.1 - 2cm pegmatite dyke, with					
		6cm chlorite-epidote alteration envelope.		[illegible]	554		12
517.7	567.3	Early Porphyry		[illegible]	556		10
		Contact @ 70° in quartz veining 35%					
		rounded indistinct feldspars, average		[illegible]	558		16
		2mm, a few to 5mm, 10% black biotite.					
		Fine grained matrix, 3% disseminated	D 1556	[illegible]	560	[illegible]	22
		pyrite with epidote. Strongly silici-					
		fied, bleached. Quartz stockwork intense;		[illegible]	562		4

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From m	To m	Description	Sample No.
		at least 5 vein sets: 1) barren quartz, 2) barren quartz, 3) quartz-pyrite-chlorite +/- chalcopyrite (@ 20-30°), 4) quartz-MoS_2 +/- pyrite, 5) chlorite-pyrite-calcite.	
		520.4-521.3 - Granitic dyke, medium grained, equigranular, locally pegmatitic, white, 5% biotite, fresh. Cuts quartz veins, a MoS_2-quartz vein; cut by quartz-pyrite-chlorite, chlorite-pyrite-calcite, MoS_2 - pyrite veins.	
		522.6-523.2- Strongly fractured.	
		524.5- 2 pegmatite dykes, 5 + 10cm. Bleached feldspars near late fractures, silicified adjacent to chlorite-pyrite veinlet.	
		528.0 - 530.8 - Biotitic metavolcanics 532.0 - locally abundant pyrrhotite, occasional quartz-MoS_2, quartz-pyrite-MoS_2 veinlets.	
		536 - 537.3 - Chloritic metavolcanic inclusion.	

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From m	To m	Description	Sample No.	From m	To m	Length	Qtz-Py	Qtz-Mo
		537.5 - Late 4mm quartz-MoS_2 vein						
		parallel to core.		562	564		3	4
		546.2 - Siliceous white pegmatite dyke,						
		547.4 - 548.3 - White pegmatite dyke,		564	566		3	2
		cut by translucent quartz veins and by						
		quartz-pyrite-chlorite veins; has clots						
		of pyrite. Contact @ 50°.		566	568		2	2
		550.0-552.5 - Late intense silicification						
		and pink-brown mottled alteration with						
		up to 15% pyrrhotite and minor chalcopyrite	D1557	568	570	2m	5	3
		in irregular patches - hornfels inclusions.						
		554.0 - 567.3 - Feldspar phenocrysts dis-		570	572		5	7
		tinct, white, unaltered(?), biotite						
		only weakly altered, intense quartz						
		stockwork.		572	574		3	2
		556.0 - 557.8 - Lamprophyre dyke @ 45°.						
		562.0 - 567.3 - Intensity of stockwork						
		increasing, late translucent quartz		574	576		1	0
		veining.						
		563.4 - 50% vein quartz, relatively fresh						
		quartz porphyry, veins nearly parallel		576	578		1	0
		to core.						
		563.1, 565.0, 565.4 - 10cm pegmatite dykes						
		@ 45°.	D1558	578	580	2m	1	0

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From m	To m	Description	Sample No.	From m	To m	Length	Qtz-Py	Qtz Mo
567.3	568.4	Nelson Quartz Monzonite						
		5-10% feldspar phenocrysts 4-6mm in		580	582		1	0
		seriate groundmass, 15% biotite, some						
		hornblende - weakly chloritized.						
		A few K-spar phenocrysts 2-4cm.		582	584		0	0
		Quite fresh.						
568.4	572.7	Early Porphyry		584	586		1	0
		As 517.7 - 567.3 - Same intense stockwork						
		as above with veining and alteration						
		minor MoS_2.		586	588		2	0
572.7	587.5	Nelson Quartz Monzonite						
		As 567.3 - 568.4, more leucocratic,	D1559	588	590	2m	1	4
		no veining, few large K-spars,						
		gradational lower contact						
		575.4 - Tectonic breccia - 5 cm.		590	592		1	0
		Below 567, late chlorite-pyrite-calcite vein-						
		lets common, weak chlorite envelopes,						
		quite fresh otherwise.		592	594		0	0
		584.8 - 10cm pegmatite dyke @ 45°.						
		585.8 - 40cm aplite-pegmatite dyke						
		@ 45°.		594	596		1	0
587.5	590.5	Early Porphyry						
		As 517.7 - 567.3 incipient stockwork,		596	598		2	0

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From m	To m	Description	Sample No.	From m	To m	Length	Qtz-Py	Qtz-Mo
		fractured, kaolinized, silicified.						
		590.1 - 4 quartz-MoS_2-pyrite veins	D1560	598	600	2m	0	0
		@ 60°						
				600	602		2	6
590.5	602.1	Nelson Quartz Monzonite						
		As 567.3 - 568.4 quite fresh.		602	604		6	0
		Reduce to BQ at 593.6 metres.						
				604	606		1	0
		595.2 - Several chlorite-calcite-pyrite						
		veinlets, bleached & silicified for 40cm.		606	608		1	0
		597.0 - 20cm pegmatite dyke @ 25°.	D1561	608	610	2m	2	0
		596.5 - 597.6 - Hornfelsed heterogeneous						
		breccia as 604.8 - 644.1, contact @ 30°.		610	612		3	0
		600.7 - 602.1 - strongly silicified,						
		pinkish-brown mottling, several quartz-		612	614		2	0
		MoS_2 veins @ 30-45° - early porphyry(?).						
				614	616		0	0
602.1	602.9	Heterogeneous Breccia						
		As 604.8 - 644.1, silicified, upper contact		616	618		1	1
		50°, lower 40°.						
602.9	604.8	White Feldspar Porphyry (?)	D1562	618	620	2m	1	0
		5% partially altered biotite, 30-40%						
		white feldspars to 2mm in aphanitic white		620	622		0	0

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From m	To m	Description	Sample No.	From m	To m	Length	Qtz-Py	Qtz-Mo
		feldspars to 2mm in aphanitic matrix, trace						
		disseminated pyrite.						
604.8	644.1	Heterogeneous Breccia		622	624		1	0
		Very similar to upper 400 metres except more						
		strongly metamorphosed. Heterogeneous volcanic		624	626		3	0
		and porphyritic fragments in green fine-grained						
		matrix, scattered interstitial clots of pyrite-		626	628		1	0
		pyrrhotite +/- chalcopyrite. Occasional irregu-						
		lar veins of pyrite-pyrrhotite - hornfels	D1563	628	630	2m	1	0
		related? Late calcite veinlets ~20/m, several						
		large andesite blocks.		630	632		2	0
		605 - 606.1 - Biotite schist with						
		10% pyrite-pyrrhotite-chalcopyrite in		632	638		1	1
		clots, lower contact @ 30°, mottled red-brown						
		and pale green.		634	636		1	0
		611.3 - 613.0 - Biotite schist, lower						
		contact @ 40°.		636	638		0	1
		614.3 - 614.8 - Aplite-pegmatite dyke						
		@ 50°.	D1564	638	640	2m	0	0
		617.2 - Quartz MoS_2 veinlet, 1mm						
		@ 60°.		640	642		0	0
		618.0, 622.5, 626.0 - Late calcite veinlets						
		show narrow bleached envelopes where		642	644		0	0
		they cut granitic fragment.						
				644	646		0	0

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From m	To m	Description	Sample No.	From m	To m	Length
		pyrrhotite +/- chalcopyrite as blebs, 0.1% Cu.		670	672	
		646.8 - 647.4 - Lamprophyre dyke @ 55%.				
		648.7 - 653.8 - Fault zone cemented by		672	674	
		chlorite and calcite, minor gypsum.				
		Many slicks @ 40-50°, fractures with		674	676	
		chlorite + calcite persist to 656m.				
657.9	660.1	Biotite Quartz Monzonite (Nelson?)		676	678	
		Feldspar phenocrysts 2-4mm, brown biotite				
		in 1-5cm bands @ 60°. Strong fracture	D1578	678	680	2m
		set @ 20° to core with argillic				
		alteration. Contact @ 60°.		682	674	
660.1	661.4	Lamprophyre Dyke		684	686	
		Contact @ 30°, a few late calcite-quartz				
		veinlets.		686	688	
661.4	694.9	Heterogeneous Breccia				
		Coarse. 15% porphyry fragments, 25% biotitic	D1569	688	690	2m
		volcanics, 25% pink cherty siltstone,				
		10% others, 25% matrix. Strong		690	692	
		skarn-like alteration, diopside-actinolite,				
		secondary biotite, hornblende. Cut by		692	694	
		many (15-20/metre) actinolite-pyrrhotite-				
		pyrite +/- chalcopyrite-quartz veinlets		694	696	
		or alteration along fractures.				

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From m	To m	Description	Sample No.	From m	To m	Length
		Occasional black amphibole-pyrite-pyrrho-				
		tite veinlets.				
		669.3 - 670.0 - Porphyry dyke.		696	698	
		White aplite-pegmatite dykes as follows:				
		662.4 - 15cm @ 60°, 665.4 - 10 cm @ 50°,	D1570	698	700	2m
		666.0 - 40cm @ 50°, 673.7 - 8 cm @ 70°,				
		679.6 - 5cm @ 20°, 679.9 - 10 cm @ 70°,				
		684.0 - 684.5 - Nearly parallel to core.		700	702	
		Total sulfides less than 2% below 660m.				
		683 - 678 - Many late calcite +/- chlorite		702	704	
		veinlets at low angles, only weakly				
		magnetic. Alteration intensity increasing		704	706	
		downward, fragments becoming indistinct -				
		see 685.5.		706	708	
694.9	702.2	Biotite Schist	D1571	708	710	2m
		Brown hornfelsed andesite? A few visible				
		fragments. 2-3% disseminated pyrite		710	712	
		and pyrrhotite. Weakly magnetic. Cut				
		by a few quartz-actinolite veins as		712	714	
		at 696.6.				
702.2	707.8	Heterogeneous Breccia		714	716	
		Fragments very indistinct, deformed,				
		intense skarn alteration. Schistose		716	718	
		in part.				

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From m	To m	Description	Sample No.	From m	To m	Length
		703.5 - 703.9 - White porphyritic dyke	D1572	718	720	2m
		with pegmatitic margins, contact @ 65°.				
707.8	721.3	Feldspar Porphyry				
		1% quartz phenocrysts, abundant white		720	722	
		feldspar phenocrysts in grey to pink-				
		brown aphanitic matrix. Strong biotitic		722	724	
		alteration (hornfels). A few fragments				
		locally, very indistinct. Streaks and		724	726	
		disseminated pyrrhotite to 1%, trace				
		chalcopyrite. Many hairline calcite		726	728	
		veinlets with 1-2mm white envelopes,				
		generally @ 25°, schistose locally.	D1573	728	730	2m
		711.6 - 2cm White pegmatite dyke @ 70°.				
				730	732	
721.3	740.5	Heterogeneous Breccia				
		As 702.2 - 707.8, strong skarn alteration.		732	734	
		Porphyry fragments to 15cm with pink-				
		brown biotite, pale green actinolite and		734	736	
		chlorite in others and in matrix.				
		Minor disseminated pyrrhotite. A few		736	738	
		calcite-pyrite veinlets; calcite on late				
		fractures.	D1574	738	740	2m
				740	742	

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From m	To m	Description	Sample No.	From m	To m	Length
		731.9 - 8cm pegmatite dyke, quartz-rich		742	744	
		with pyrrhotite clots.				
		732.7 - 733.2 - Rock strongly fractured,		744	746	
		grey-green color - quartz + sericite?				
		734.3 - 734.7 - Lamprophyre dyke @ 60°.		746	748	
740.5	748.7	Feldspar Porphyry	D1575	748	750	2m
		Indistinct plagioclase phenocrysts to				
		2mm in fine-grained matrix. 1% quartz		750	752	
		phenocrysts to 2mm. Strong biotite				
		veinlets with 1 - 3mm bleached and		752	754	
		silicified envelopes.				
		748.3 - White coarse aplite to pegmatite		754	756	
		dyke with 5% brown biotite, 10cm, @ 70°.				
748.7	749.9	Heterogeneous Breccia		756	758	
		As 721.3 - 740.5.				
749.9	757.3	Feldspar Porphyry	D1576	758	760	2m
		As 740.5 - 748.7, except strong pale green				
		alteration (quartz-actinolite-epidote?)		760	762	
		at 755m. Very granular texture				
		to 757.3.		762	764	
		756.7 - 757.3 - Silicified fracture zone				
		@ 30°.		764	766	

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From m	To m	Description	Sample No.	From m	To m	Length
757.3	763.7	Heterogeneous Breccia		766	768	
		As 721.3 - 740.5, pyrite, chalcopyrite				
		locally abundant between fragments and as	D1577	768	770	2m
		irregular veinlets, see 759.1.				
		759.8 - White pegmatite dyke, 10%		770	772	
		disseminated pyrrhotite, @ 20%.				
				772	774	
763.7	775.2	Feldspar Porphyry				
		As 740.5 - 763.7, strong brown biotite		774	776	
		(hornfels). Feldspar phenocrysts				
		indistinct. May be locally fragmental		776	778	
		rock. Many hairline fractures with				
		chlorite-calcite-pyrite with bleached	D1578	778	780	2m
		margins. A few actinolite-pyrrhotite-				
		biotite-quartz veinlets to 4mm with 1cm		780	782	
		silicified envelopes. A few low angle				
		calcite veinlets.		782	784	
		767 - 777.3 - Intensely fractured with				
		silification and dark green silicate		784	786	
		veinlets.				
		772.3 - 773.0 - Intense silicification.		786	788	
		773.5, 774.4, 775.2 - White pegmatite				
		dykes with pyrrhotite.	D1579	788	790	
775.2	782.3	Heterogeneous Breccia		790	792	
		Intense hornfels, fragments distorted,				

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Hole

Page

From m	To m	Description	Sample No.	From m	To m	
		indistinct.		793	794	
		776.5 - Calcite veinlets with tan bleached				
		envelopes.		795	796	
		777.2 - 10cm Nelson porphyry dyke @ 25°.				
		778.4 - 1.5cm irregular pyrrhotite-quartz-		797	798	
		chalcopyrite veins.				
		781.0 - 20cm dyke - Nelson quartz monzon-	D1580	799	800	
		ite @ 45°.				
				801	802	
782.3	812.5	Plagioclase-Quartz-Biotite-Hornfels				
		Feldspar porphyry? Phenocrysts only		803	804	
		locally obvious. 2% to locally 5% dis-				
		seminated pyrrhotite. Many small		805	806	
		pyrrhotite-chalcopyrite veinlets. Bleached				
		adjacent to calcite and to quartz-calcite-		807	808	
		chlorite veinlets. Low angle				
		ones more strongly altered.				
		786.6 - 786.9 - White pegmatite dyke				
		@ 70°.				
		789.1 - 10cm gouge zone @ 30°.	D1581	809	810	
		794.0 - 2cm pyrrhotite-chalcopyrite vein				
		parallel to core.				
		794.8 - Stronger bleaching adjacent		811	812.5	
		to veinlets.				
		796.1 - 796.6 - White pegmatite-aplite				
		dyke with minor disseminated pyrrhotite				

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From m	To m	Description	Sample No.	From m	To m	Length	g/t Ag	g/t Au
		+ chalcopyrite @ 70°.						
		799.3 - 3cm white granular quartz @ 65°.						
		801.2 - 801.5 - White porphyry dyke with 10% biotite, pegmatitic quartz margins @ 70°.						
		Below 802m fracturing becomes very strong, silicification nearly pervasive locally. Pyrrhotite content erratic, about 2% disseminated. Occasional pyrrhotite-pyrite-cyalcopyrite vein.						
		812.5 - End of hole.						

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Diamond Drill Record

Location: 10,008 W, 10,009.7E				Hole No. 80-2
Azimuth: 180°	Dips - collar	-61 ° 18'	Contractor: Cameron-McCutcheon Drilling	Property: Aylwin Creek
Elevation: 1250.2m	- 213 m	63 ° 05'	Logged By: D.C. Durgin	Claim No. Rockland
Length: 686.3m	- 396 m	65 ° 22'	Date: June 16 - July 6 relogged Oct. 25-26	Section No. 10,000E
Core Size: NQ	- 648 m	-68 ° 32'	Sperry-Sun gyroscopic Survey	Started: June 13, 1980
Purpose: To test MoS_2 mineralization to the south				Completed: July 6, 1980

From m	To m	Description	Sample No.	From m	To m	Length m	py-cpy mag	gran. act-ep chl-py	chl-ep amph-py
0	4.1	Overburden							
4.1	12.0	Feldspar Porphyry	D1705	4.1	6	1.9	0	0	14
		Indistinct feldspar phenocrysts to 2mm, average							
		1.5mm, very fine granular matrix, strong pale							
		brown biotite alteration. Locally brecciated							
		with matrix of rock fragments and brown	D1582	6	8	2	0	0	13
		biotite. Increasing silicification and green							
		silicate alteration from 9 to 12m 3-5%							
		sulfides - largely pyrite in chlorite-							
		amphibole-pyrite veinlets, minor chalcopyrite.	D1706	8	10	2	0	0	12
12	32	Heterogeneous Breccia							
		Fragments to 10cm, average 6cm, of quartz							
		latite porphyry, feldspar porphyry, dark							
		biotitic metavolcanics, augite porphyry, tan	D1707	10	12	2	1	0	15
		cherty sediments in a rock flour matrix.							
		Moderate to strong silicification and							
		actinolite-epidote-chlorite alteration.							
		Veinlets and interstitial clots of dark	D1708	12	14	2	5	0	20
		amphibole-chlorite-epidote-pyrite +/-							
		chalcopyrite common, +/- magnetite. 5-7%							

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From m	To m	Description	Sample No.	From m	To m	Length m	py-cpy mag	gran. act-ep chl-py	chl-ep amph-py
		sulphides, largely pyrite.	D1583	14	16	2	4	0	12
		13.2 - 14.5 - abundant pyrite-chalcopyrite-							
		magnetite in blebs and disseminations.	D1709	16	18	2	4	0	10
		15.5 - 18.0 - several calcite veinlets nearly							
		parallel to core. Vuggy in part.	D1710	18	20	2	6	0	12
		below 20 - intensely veined with hairline							
		pyrite-amphibole-epidote-chlorite veinlets	D1711	20	22	2	3	0	20
		and chlorite-pyrite veinlets with narrow							
		quartz-chlorite envelopes generally ⟨ 30° to	D1584	22	24	2	4	0	17
		core in 2 sets (see 27-30m). Erratically							
		distributed chalcopyrite in pyrite veinlets	D1712	24	26	2	2	1	12
		and blebs, some disseminated.							
32.0	32.6	Leucocratic Dyke	D1713	26	28	2	5	2	18
		Aplitic with pegmatite patches. White, 2%							
		disseminated pyrrhotite, trace chalcopyrite.	D1714	28	30	2	5	1	17
		Upper contact @ 20°, lower in broken core.	D1585	30	32	2	6	0	13
32.6	93.4	Heterogeneous Breccia	D1715	32	34	2	2	0	10
		As 12 - 32.0. Breccia textures, matrix and							
		alteration particularly well displayed @ 38 -	D1716	34	36	2	3	0	13
		43m. Locally vuggy - due to leaching?							
		32.8 - quartz-MoS_2 veinlet in small breccia	D1717	36	38	2	5	1	16
		fragment.							
		33.2 - hematite in quartz veinlet.	D1586	38	40	2	7	4	18
		36.7 39.5, 40.0, 44.0 - epidote-pyrrhotite-							
		pyrite patches with coarse epidote. Locally	D1718	40	42	2	6	4	18
		vuggy.							

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From m	To m	Description	Sample No.	From m	To m	Length m
		46 - 66 - very strong green silicate alteration and silicification, 5-7% sulfides including abundant blebs, minor chalcopyrite.	D1719	42	44	2
			D1720	44	46	2
		52 - 55 - several black amphibole-pyrrhotite-pyrite-chalcopyrite veinlets - 5% sulfides.	D1587	46	48	2
		53.5 - garnet-epidote-pyrrhotite clots, vuggy.				
		54.8 - 55.6 - several quartz latite porphyry fragments.	D1721	48	50	2
		63.5 - black amphibole-pyrite-pyrrhotite-chalcopyrite veining intense-irregular veinlets and clots of sulfides, patchy replacements. Late calcite veinlets parallel to core.	D1722	50	52	2
			D1723	52	54	2
			D1588	54	56	2
		68 - breccia cemented by silica, black amphibole and pyrite.	D1724	56	58	2
		68.5 - 70.3 - intensely fractured core, many schistose dark fragments.	D1725	58	60	2
		70.1 - 75.8 - numerous streaks and blebs of pyrite-pyrrhotite, moderate chalcopyrite.	D1726	60	62	2
		73.0 - 83.6 - strongly fractured, very abundant clots and irregular veins of pyrrhotite-pyrite-chalcopyrite with black amphibole. Up to 10% sulfides, perhaps 0.5% Cu. Much of this interstitial to or surrounding fragments.	D1589	62	64	2
			D1727	64	66	2
			D1728	66	68	2
		73.4 - fragment with quartz-MoS_2 veinlet.				

py-cpy mag	a[illegible] c[illegible]	chl-ep amph-py
4	[illegible]	13
4	[illegible]	16
2	[illegible]	14
5	[illegible]	15
3	[illegible]	8
py-cpy -po	[illegible]	chl-ep amph-py
3	[illegible]	15
3	[illegible]	10
5	[illegible]	8
5	[illegible]	10
3	[illegible]	6
5	[illegible]	18
7	[illegible]	20
9	[illegible]	17

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Hole No. 80-2
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From m	To m	Description	Sample No.	From m	To m	Length m	py-cpy-po	chl-ep-py	chl-ep amph-py
		84 - 90 - pyrite-chlorite-black amphibole	D1729	68	70	2	4	0	8
		veinlets very abundant (20/metre), decreasing							
		downward. Scattered late calcite veinlets	D1590	70	72	2	13	0	12
		at low angles to core.							
		86 - 93.4 - breccia fragments indistinct,	D1730	72	74	2	8	1	11
		largely feldspar porphyry as below. Strong							
		silicification, brown biotite alteration.	D1731	74	76	2	4	0	16
		Lower contact gradational.							
93.4	112.0	White Feldspar Porphyry	D1732	76	78	2	6	0	14
		(same as on surface mapping)							
		Very rare quartz crystals. 40% white	D1591	78	80	2	16	0	16
		squarish to rounded feldspar phenocrysts to							
		2.5mm, average 2mm in grey aphanitic matrix.	D1733	80	82	2	20	0	19
		Mafics destroyed (were hornblende?), generally							
		very abundant pale brown secondary biotite.	D1734	82	84	2	10	0	16
		93.4 - 95.0 - green tinge due to weak green							
		silicate alteration, minor pyrite-chalcopyrite	D1735	84	86	2	2	0	> 25
		95.0 - 108.8 - biotitic alteration, locally							
		brecciated with only cogenetic fragments in	D1592	86	88	2	2	0	> 25
		biotitic matrix as at 96.0m. Biotite-pyrite					bio-py veinlets	cpy-po	chl-ep amph-py
		veinlets, patchy silicification and green	D1736	88	90	2	0	2	> 25
		silicate alteration and veining. Scattered							
		small blebs and streaks of pyrite-pyrrhotite-	D1737	90	92	2	0	4	13
		minor chalcopyrite.							
		108.8 - 112.0 - strong patchy silicification,	D1738	92	94	2	0	0	9
		green silicate alteration, chlorite-amphibole-							

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From m	To m	Description	Sample No.	From m	To m	Length m	bio-py veinlets	py-cpy -po	chl-ep amph-py
		epidote-pyrite veining, abundant small pyrite-	D1593	94	96	2	5	4	13
		pyrrhotite-chalcopyrite blebs. 7% sulfides.							
112.0	124.3	Feldspar Porphyry	D1793	96	98	2	9	3	2
		30% lath-like to rounded feldspars average							
		1.5mm, seriate texture. No quartz, mafics	D1740	98	100	2	6	3	9
		destroyed (hornblende?). Strong green							
		silicate alteration and silicification. 7%	D1741	100	102	2	7	2	6
		sulfides as disseminations, blebs and vein-							
		lets. Pyrite/pyrrhotite/chalcopyrite =	D1594	102	104	2	12	3	2
		70/20/10. Textures often obscured by							
		alteration. To 121.4 abundant pyrite-	D1742	104	106	2	20	2	0
		pyrrhotite-chalcopyrite-magnetite blebs and							
		streaks. A few quartz-epidote-pyrrhotite-	D1743	106	108	2	17	6	0
		pyrite veinlets with epidote envelopes.							
		Garnet locally. Up to 15% sulfides, average	D1744	108	110	2	15	2	5
		8%. Disseminated pyrrhotite alone, pyrite							
		with epidote. Hairline chlorite-calcite-	D1595	110	112	2	12	7	7
		pyrite-magnetite veinlets. < 0.5% 1mm pinkish							
		brown disseminated rectangular mineral. Cross	D1667	112	114	2	2	6	6
		section often ◇ - leucoxene after sphene?							
124.3	129.3	Heterogeneous Breccia	D1668	114	116	2	0	13	10
		Fragments largely prophyries, some dark meta-							
		volcanics. Fragments generally obscured by	D1669	116	118	2	0	8	16
		strong darker green silicate alteration. 3%							
		disseminated pyrrhotite + pyrite. Many	D1596	118	120	2	0	7	11
		fractures @ 30°, 20° with chlorite-pyrite-							

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From m	To m	Description	Sample No.	From m	To m	Length m	bio-py veinlets	py-cpy -po	chl-ep amph-py
		magnetite.	D1670	120	122	2	0	3	15
		126.1 - 127.1 - 0.8m core missing.							
			D1745	122	124	2	0	2	12
			D1746	124	126	2m	0	1	10
			D1597	126	128	2	0	2	15
			D1747	128	130	2	0	3	18
129.3	142.0	Feldspar Porphyry	D1748	130	132	2	0	1	> 25
		(same as 112.0 - 124.3m). A bit more fresh.							
		129.3 - 137 - silicified, strong green silicate	D1749	132	134	2	0	2	17
		alteration. 3% disseminated pyrite with							
		epidote. Minor Pyrrhotite + magnetite.	D1598	134	136	2	0	2	23
		Strongly fractured with chlorite-pyrite-							
		magnetite veinlets, 1 set @ 30°, another @ 10°.	D1750	136	138	2	0	1	21
		A few late calcite veinlets nearly parallel to							
		core.	D1751	138	140	2	0	3	16
		131.0 - begin seeing gypsum veinlets.							
142.0	161.9	Crowded Feldspar Porphyry	D1752	140	142	2	2	2	15
		- Possibly same as 112 - 124.3, very altered							
		40% plagioclase phenocrysts, average 1.5mm in	D1599	142	144	2	2	1	2
		very fine grained matrix. 2% rounded							
		feldspars to 2.5mm, 15% dark brown biotite,	D1753	144	146	2	2	0	1
		after hornblende in part, and dusted through-							

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From m	To m	Description	Sample No.	From m	To m	Length m	bio-py veinlets	py-cpy -po	chl-ep amph-cy
		out. Very granular texture. 2% disseminated	D1754	146	148	2	1	3	0
		pyrite-pyrrhotite-chalcopyrite. Little							
		veining except gypsum @ 75° to core (15/m).	D1755	148	150	2	4	3	0
		Occasional pyrite-pyrrhotite-chalcopyrite							
		blebs, locally good grades to 0.3% Cu.	D1600	150	152	2	2	5	0
		153.8 - 161.9 - increasing weak green							
		silicate alteration - patchy. Many biotite-	D1756	152	154	2	1	4	6
		actinolite-pyrite veinlets with bleached							
		envelopes. Occasional pyrite-pyrrhotite-	D1757	154	156	2	8	6	7
		chalcopyrite-magnetite in irregular veinlets.							
		Chilled for 20cm adjacent to lower contact @	D1758	156	158	2	6	2	5
		70° to core axis.							
161.9	180.0	White Feldspar Porphyry	D1601	158	160	2	6	5	7
		2% rounded green-altered feldspar phenocrysts							
		to 5mm, 20% rounded to lath-like feldspars	D1759	160	162	2	1	4	7
		averaging 1.5mm in grey aphanitic matrix.							
		Mafics replaced by pyrite. Silicified.	D1760	162	164	2	0	2	> 25
		Average 5% disseminated pyrite + pyrrhotite.							
		Intensely fractured with quartz-pyrrhotite-	D1761	164	166	2	0	6	> 25
		pyrite +/- chalcopyrite veinlets generally							
		< 1mm with pyrrhotite-pyrite-epidote envelopes	D1602	166	168	2	0	2	> 25
		and minor garnet. A few veins to 1cm (See							
		174.6m) with pyrite-pyrrhotite-chalcopyrite-	D1762	168	170	2	0	8	10
		magnetite +/- epidote + garnet with silicified							
		dark envelopes. Gypsum veinlets 10/metre.	D1763	170	172	2	0	11	6
		Many of sulfide streaks appear to be							

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From m	To m	Description	Sample No.	From m	To m	Length m	bio-py veinlets	py-cpy -po	chl-ep amph-py
		out. Very granular texture. 2% disseminated	D1754	146	148	2	1	3	0
		pyrite-pyrrhotite-chalcopyrite. Little							
		veining except gypsum @ 75° to core (15/m).	D1755	148	150	2	4	3	0
		Occasional pyrite-pyrrhotite-chalcopyrite							
		blebs, locally good grades to 0.3% Cu.	D1600	150	152	2	2	5	0
		153.8 - 161.9 - increasing weak green							
		silicate alteration - patchy. Many biotite-	D1756	152	154	2	1	4	6
		actinolite-pyrite veinlets with bleached							
		envelopes. Occasional pyrite-pyrrhotite-	D1757	154	156	2	8	6	7
		chalcopyrite-magnetite in irregular veinlets.							
		Chilled for 20cm adjacent to lower contact @	D1758	156	158	2	6	2	5
		70° to core axis.							
161.9	180.0	White Feldspar Porphyry	D1601	158	160	2	6	5	7
		2% rounded green-altered feldspar phenocrysts							
		to 5mm, 20% rounded to lath-like feldspars	D1759	160	162	2	1	4	7
		averaging 1.5mm in grey aphanitic matrix.							
		Mafics replaced by pyrite. Silicified.	D1760	162	164	2	0	2	> 25
		Average 5% disseminated pyrite + pyrrhotite.							
		Intensely fractured with quartz-pyrrhotite-	D1761	164	166	2	0	6	> 25
		pyrite +/- chalcopyrite veinlets generally							
		< 1mm with pyrrhotite-pyrite-epidote envelopes	D1602	166	168	2	0	2	> 25
		and minor garnet. A few veins to 1cm (See							
		174.6m) with pyrite-pyrrhotite-chalcopyrite-	D1762	168	170	2	0	8	10
		magnetite +/- epidote + garnet with silicified							
		dark envelopes. Gypsum veinlets 10/metre.	D1763	170	172	2	0	11	6
		Many of sulfide streaks appear to be							

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From m	To m	Description	Sample No.	From m	To m	Length
		alteration adjacent to narrow veinlets. Most	D1764	172	174	2
		common vein angle 30°, Disseminated pyrite				
		usually with epidote. 10-15% sulfides,	D1603	174	176	2
		perhaps 0.3% Cu.				
		173 - 175.5 - Several irregular pyrite-	D1765	176	178	2
		pyrrhotite-chalcopyrite veins at low angles				
		to core with green silicate envelopes,	D1766	178	180	2
		increasing silicification, good mineralization.				
		175.5 - 189.0 - still good mineralization,	D1767	180	182	2
		blebs and streaks smaller.				
180	263.5	Heterogeneous Breccia	D1604	182	184	2
		Most of fragments are white feldspar porphyry,				
		feldspar porphyry, and quartz latite porphyry	D1768	184	186	2
		with a few mafic volcanics and buff cherty				
		rocks. Mineralization, strong silicification	D1769	186	188	2
		and patchy moderate green silicate alteration.				
		Breccia texture largely obscured by alteration.	D1770	188	190	2
		180.5, 188 - 189 - good fragments.				
		184 - 185 - fracture zone @ 10° to core, only	D1605	190	192	2m
		minor displacement, very abundant pyrite-				
		pyrrhotite-chalcopyrite filling fractures.	D1771	192	194	2
		193.4 - quartz-epidote-actinolite vein 5cm				
		wide @ 40°.	D1772	194	196	2m
		below 193m, fracturing and veining decrease,				
		same amount of finely disseminated sulfides.	D1773	196	198	2
		196.2 - 199.0 - green tinge due to moderate				

Py-	chl-ep amph-
	5
	5
	12
	13
	10
	14
	12
	12
	17
	12
	15
	8
	7

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From m	To m	Description	Sample No.	From m	To m	Length m		py-cpy-po	chl-ep amph-py
		green silicate alteration. 20cm biotite	D1606	198	200	2		3	15
		schist at 198m with banding at 40°, 1%							
		disseminated pyrite + pyrrhotite, a few pyrite-	D1774	200	202	2		1	13
		pyrrhotite-quartz-epidote veinlets. Gypsum on							
		some fractures.	D1775	202	204	2		1	12
		199.0 - 216 - breccia as 180.0 - 196.2m							
		disseminated pyrite + pyrrhotite average 5%,	D1776	204	206	2		1	17
		to 10% locally. Clots and streaks of pyrite-							
		pyrrhotite-chalcopyrite-magnetite generally	D1607	206	208	2		1	12
		with epidote. Many hairline veinlets < 10° to							
		core with chlorite-magnetite-pyrrhotite-pyrite	D1699	208	210	2		1	10
		(208.5 - 214.5). Gypsum common on late							
		fractures.	D1700	210	212	2		10	14
		216 - 217.4, 218.5 - 219.2 - massive							
		pyrrhotite-chalcopyrite +/- pyrite veins with	D1701	212	214	2		13	17
		irregular shapes and silicified margins, seems							
		an interstitial replacement among 5cm breccia	D1608	214	216	2		14	12
		fragments 1% Cu +							
		222.3 - 237 - very abundant coarse sulfides	D1671	216	218	2		18	11
		in irregular veins, appears interstitial to							
		fragments of feldspar porphyry in a crude	D1672	218	220	2		7	12
		stockwork - pyrrhotite-chalcopyrite-magnetite							
		+/- pyrite. Also pyrrhotite-chalcopyrite-	D1673	220	222	2	-	2	20
		magnetite as replacements along small veinlets							
		Interval 1 - 1.5% Cu. Epidote and garnet	D1609	222	224	2	-	20	6
		associated with sulfides.							

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From m	To m	Description	Sample No.	From m	To m	Length m	qtz-Mo	py-cpy po	chl-ep amph-py
		228 - 235 - abundant quartz latite porphyry	D1674	224	226	2	-	13	10
		fragments with quartz-MoS_2 veinlets. Very							
		little breccia matrix.	D1675	226	228	2	-	15	8
		230.1 - quartz-MoS_2 veinlets.							
		231.7 - tiny quartz-MoS_2 veinlet, older than	D1676	228	230	2	-	12	7
		pyrrhotite-pyrite-chalcopyrite mineralization.							
		237.2 - epidote veinlet with faint pink	D1610	230	232	2	-	20	6
		alteration envelope, 1cm wide, nearly parallel							
		core.	D1677	232	234	2	-	25	7
		238.2 - 242.3 - heterogeneous fragments in							
		very siliceous matrix. Pyrrhotite and minor	D1678	234	236	2	-	22	5
		chalcopyrite interstitial and in irregular							
		veinlets, 5% sulfides.	D1679	236	238	2	-	18	10
		242.3 - 246.2 - abundant feldspar porphyry							
		fragments. Kaolinized, silicified. Minor	D1611	238	240	2	-	22	8
		MoS_2 veinlets (243.6m). Abundant pyrrhotite-							
		pyrite-chalcopyrite-epidote as above to 246.2.	D1680	240	242	2	4	13	7
		246.2 - 252.4 - heterogeneous fragments in							
		very fine grained greenish matrix. 2%	D1681	242	244	2	3	11	6
		disseminated pyrrhotite + pyrite. Very							
		siliceous matrix. Bleaching adjacent to	D1682	244	246	2	3	5	10
		gypsum veinlets. A few pyrrhotite-pyrite-							
		chalcopyrite blebs.	D1612	246	248	2	2	9	8
		252.4 - 259.0 - breccia filled with quartz							
		veins or cemented by granular quartz (See	D1702	248	250	2	3	7	7
		255.6m) Early quartz-MoS_2 veinlets cut by							

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From m	To m	Description	Sample No.	From m	To m	Length m	qtz-Mo	py-cpy po	chl-ep amph-py
		later barren quartz. All strongly overprinted	D1703	250	252	2	14	2	6
		by late pyrrhotite-pyrite-chalcopyrite-epidote							
		in irregular veins with silicified envelopes.	D1683	252	254	2	4	9	12
		Interval~ 1% Cu. Abrupt rock type change at							
		259.0m.	D1613	254	256	2	2	21	8
		259 - 263.5 - Fragments largely biotitic					anhyd veins	py-cpy -po	chl-ep amph-py
		metavolcanics, silicified and veined as above.	D1684	256	258	2	-	20	8
		Contact rather arbitrary.							
263.5	319.4	Biotitic Metavolcanics	D1685	258	260	2	-	24	6
		Generally very dark green to black, locally							
		pyroclastic textures. Often weakly schistose.	D1704	260	262	2	4	17	7
		A distinctly different rock type. Pyrite-							
		pyrrhotite-chalcopyrite mineralization ceases	D1614	262	264	2	3	8	11
		abruptly. Abundant late gypsum veinlets @							
		70 - 90°. Vein sets (oldest to youngest):	D1777	264	266	2	11	8	8
		1.) white anhydrite with 10% disseminated							
		chlorite + pyrite with bleached envelopes	D1778	266	268	2	17	5	14
		1 - 2mm. A weak stockwork (See 268.5m)							
		2.) quartz - generally with minor pyrite on	D1779	268	270	2	25	9	10
		margins and disseminated. No alteration.							
		3.) quartz-pyrite-epidote +/- pyrrhotite	D1615	270	272	2	18	3	8
		hairline veinlets with bleached envelopes							
		with epidote +/- calcite		272	274		24	0	4
		4.) late gypsum veinlets with no alteration.							
		275 - note vein control of quartz + sulfides		274	276		8	0	4
		2 generations of glassy quartz veinlets one							

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From m	To m	Description	Sample No.	From m	To m	Length	inyd veins	py-cpy -po	chl-ep amph-py
		with minor MoS_2 and another with clots and		276	278		7	0	3
		cross fractures with pyrrhotite-pyrite-chalco-							
		pyrite - rather sparse.	D1616	278	278	2	7	0	2
		283 - 284.5 - strongly silicified with streaks							
		and disseminations of pyrrhotite + pyrite -		280	282	•		4	0
		15% sulfides.							
				282	284			8	0
				284	286			12	0
			D1617	286	288	2		15	1
				288	290			5	3
				290	292			10	1
				292	294			14	0
			D1618	294	296	2		7	0
				296	298			7	0
		Very few gypsum veinlets below 300m.		298	300			9	0
				300	302			10	0

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From m	To m	Description	Sample No.	From m	To m	Length m					anhyd veins	qtz-Mo veins
		302.5 - 2cm pyrite vein @ 45°.	D1619	302	304	2					2	0
		305.5 - 2cm pyrrhotite-pyrite vein @ 25°.		304	306						7	0
				306	308						3	0
		309.8 - begin seeing 5% disseminated pyrite with many hairline fractures with pyrite and quartz.	D1620	308	310	2					6	0
		begin to notice minor MoS_2 in many of the "barren" quartz veinlets at about 310 metres. Many of the larger ones, and those with chlorite + magnetite along margins and minor pyrite- See 317.9. Some also contain anhydrite.		310	312						5	0
				312	314						4	4
				314	316						4	7
				316	318						6	6
319.4	321.2	Lamprophyre Dyke At 30° to core axis, fresh.	D1621	318	320	2					1	3
321.2	326.9	Biotitic Metavolcanics As 263.5 - 319.4 - Chloritized, more green in colour. 324.5 - quartz vein with angular rock fragments cut by clear to pale green fluorite (?) veinlets. Late gypsum veinlet on margin, chloritic alteration. @ 25°.		320	322						1	1
				322	324						3	3
				324	326						1	4
			D1622	326	328	2					3	1
326.9	328.2	Lamprophyre Dyke										

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From m	To m	Description	Sample No.	From m	To m	Length m					anhyd veins	qtz-Mo veins
		Upper contact @ 30°, lower at 15°.		328	330						2	3
328.2	413.0	Biotitic Metavolcanics										
		Generally dark grey to black, abundant biotite,		330	332						13	2
		largely fragmental with fragments poorly										
		preserved, stretched. Generally 5%		332	334						8	2
		disseminated pyrite with abundant hairline										
		pyrite-calcite veinlets with epidote	D1623	334	336	2					16	2
		alteration. Translucent quartz veins ~3 -4										
		per metre with minor pyrite and usually minor		336	338						18	3
		MoS_2 along margins. Vein shapes irregular.										
		Occasionally contain anhydrite. Abundant		338	340						21	4
		anhydrite veinlets with chloritized amphibole.										
		Anhydrite veinlets clear to lavendar,		340	342						13	1
		generally less than 3mm with irregular shapes.										
		A few quartz veinlets to 3cm with pyrite in	D1624	342	344	2					23	4
		cross fractures, weak chlorite-magnetite on										
		margins (See 342). 6-8% total sulfides.		344	346						10	1
		Vein sequence: 1) quartz +/- MoS_2										
		2) quartz + pyrite, 3) pyrite + calcite		346	348						12	2
		4) anhydrite, 5) pyrite + amphibole +										
		chlorite (See 340.8).		348	350						14	5
		347.1 - 2 quartz + MoS_2 veins 2mm wide with										
		2mm tan alteration envelopes. Abundant MoS_2.	D1625	350	352	2					12	2
		(See also 349.4).										
		347.5 - Strong shearing parallel core,		352	354						5	2
		chlorite.										

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From m	To m	Description	Sample No.	From m	To m	Length m				anhyc veins	qtz-Mo veins
		Upper contact @ 30°, lower at 15°.		328	330					[illegible]	3
328.2	413.0	Biotitic Metavolcanics									
		Generally dark grey to black, abundant biotite,		330	332					[illegible]	2
		largely fragmental with fragments poorly									
		preserved, stretched. Generally 5%		332	334					[illegible]	2
		disseminated pyrite with abundant hairline									
		pyrite-calcite veinlets with epidote	D1623	334	336	2				[illegible]	2
		alteration. Translucent quartz veins ~ 3 -4									
		per metre with minor pyrite and usually minor		336	338					[illegible]	3
		MoS_2 along margins. Vein shapes irregular.									
		Occasionally contain anhydrite. Abundant		338	340					[illegible]	4
		anhydrite veinlets with chloritized amphibole.									
		Anhydrite veinlets clear to lavendar,		340	342					[illegible]	1
		generally less than 3mm with irregular shapes.									
		A few quartz veinlets to 3cm with pyrite in	D1624	342	344	2				[illegible]	4
		cross fractures, weak chlorite-magnetite on									
		margins (See 342). 6-8% total sulfides.		344	346					[illegible]	1
		Vein sequence: 1) quartz +/- MoS_2									
		2) quartz + pyrite, 3) pyrite + calcite		346	348					[illegible]	2
		4) anhydrite, 5) pyrite + amphibole +									
		chlorite (See 340.8).		348	350					[illegible]	5
		347.1 - 2 quartz + MoS_2 veins 2mm wide with									
		2mm tan alteration envelopes. Abundant MoS_2.	D1625	350	352	2				[illegible]	2
		(See also 349.4).									
		347.5 - Strong shearing parallel core,		352	354					[illegible]	2
		chlorite.									

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From m	To m	Description	Sample No.	From m	To m	Length m					anhyd veins	qtz-Mc veins
		349.0 - irregular patch weakly kaolinized		354	356						8	3
		porphyry cut by quartz veins and by chlorite										
		veins - a dyke?		356	358						8	4
		394.4 - 5mm translucent quartz vein with										
		silicified envelope. Very abundant MoS_2 @ 60°.	D1626	358	360	2					12	4
		355.0 - increasingly abundant 1 to 2mm glassy										
		quartz veinlets.		360	362						7	6
		360.7 - 8cm white pegmatite-aplite dyke with										
		5% disseminated pyrite, @ 65°,		362	364						12	3
		360.9 - 1cm magnetite quartz vein, @ 45°.										
		362.8 - 365.9 - textures obscured by intense		364	366						4	4
		pale green quartz + actinolite + epidote										
		alteration.	D1627	366	368	2					8	3
		363.4, 365.1 - very abundant pyrite +										
		pyrrhotite associated with very fine grained		368	370						8	5
		black minerals in an irregular band - not a										
		normal vein.		370	372						3	2
		367.0 - begin seeing more abundant pyrite +										
		epidote veinlets.		372	374						4	3
		366.9 - garnet + amphibole + fluorite (?) in										
		10cm patch, another at 368.0.	D1628	374	376	2					8	5
		375 - 380 - Schistosity @ 10° to core with										
		very abundant pyrite in streaks and		376	378						10	3
		disseminations, 10% pyrite.										
		378.9 - 380.3 - Several pale purple anhydrite		378	380						5	3
		(?) veins near parallel to core, most with										

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From m	To m	Description	Sample No.	From m	To m	Length m					anhyd veins	qtz-Mo veins
		chlorite, some with quartz and pyrite as well.		380	382						5	3
		387.5 + 387.8 - 10cm, 20cm quartz veins @ 45°										
		cut by hairline pyrite veinlets and an	D1629	382	384	2					8	3
		anhydrite vein.										
		387.6 - 15cm Nelson dyke @ 45°, chilled		384	386						9	11
		margins, fresh mafics.										
		389.4 - 389.8 - white granitic dyke, with		386	388						16	5
		quartz, plagioclase, K-spar phenocrysts to 2mm;										
		little matrix, 5% biotite, slight argillic		388	390						10	1
		alteration. 1cm anhydrite vein with minor										
		pyrite + MoS_2 along lower contact. Upper	D1630	390	392	2					9	3
		contact @ 45°.										
		390.0 - 20cm quartz vein, trace MoS_2 @ 40°.		392	394						11	3
		396.4 - 396.7 - granitic dyke as 389.4, some										
		feldspars pink near fractures - iron staining.		394	396						6	2
		A few gypsum veinlets.		396	398						5	3
			D1631	398	400	2					6	3
				400	402						5	3
				402	404						11	2
				404	406						3	1

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From m	To m	Description	Sample No.	From m	To m	Length m	anhyd veins	qtz-Mo veins
		404.9 - 405.9 - granitic dyke, equigranular,	D1632	406	408		7	4
		with plagioclase, K-spar, quartz phenocrysts						
		to 2mm, 5% biotite, pegmatitic in part.		408	410		13	2
		Relatively fresh. Several fractures nearly						
		parallel to core with Mn + Fe oxides.		410	412		10	4
		Feldspars stained pinkish orange adjacent to						
		fractures with calcite. Contact @ 60°.		412	414		5	3
			D1633	414	416	2	11	6
413.0	419.4	Tuffaceous Metavolcanics						
		Very fine grained, well laminated to finely		416	418		6	2
		fragmental, chloritic. Bedding @ 40-50°.						
		Many irregular 1 to 3mm quartz veins +/-		418	420		4	1
		pyrite, with 1 to 2mm silicified envelopes.						
		Trace MoS_2. Anhydrite veins common with		420	422		3	2
		chlorite and minor epidote. 5% disseminated						
		pyrite and a few pyrite veinlets with	D1634	422	424	2	5	4
		silicified envelopes.						
				424	426		15	1
419.4	420.0	Felspar Porphyry Dyke						
		Contact irregular. Brecciated porphyry		426	428		14	2
		cemented by calcite and coarse epidote.						
		Massive pyrite $\pm$ hornblende at margins.		428	430		12	2
420.0	457.0	Biotitic Metavolcanics						
		Largely tuffs and breccias. Fragmental	D1635	430	432	2	10	0
		nature obvious only locally. Locally weakly						

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From m	To m	Description	Sample No.	From m	To m	Length m					anhyd veins	qtz-Mo veins
		schistose. 5 to 7% disseminated pyrite and		432	434						5	1
		epidote along schistosity. Abundant pyrite-										
		epidote-quartz streaks and veinlets @ 30°, 60°,		434	436						10	1
		7-8% total sulfides. Glassy quartz veins 1 to										
		3cm with minor pyrite+chlorite, trace MoS_2.		436	438						12	1
		Anhydrite veins generally 1 to 2mm, a few 1cm										
		or more.	D1636	438	440	2					6	0
		426.6, 427.6 - 15cm translucent quartz vein										
		with several partings with MoS_2, @ 45°.		440	442						6	1
		431.8 - anhydrite + epidote + quartz vein.										
		432.4 - 434.2 - Abundant epidote and pyrite		442	444						5	0
		in spots and veinlets, silicified.										
		435.1 - quartz + MoS_2 vein, cutting anhydrite		444	446						4	0
		vein.										
		436.2 - 3cm band of chlorite + actinolite	D1637	446	448	2					9	2
		adjacent to anhydrite vein.										
		440 - 441 - irregular 2cm quartz-pegmatite		448	450						3	0
		stringer parallel to core.										
		443.2 - 443.5 - massive quartz vein @ 50°.		450	452						4	1
		443.6 - crushed pegmatitic rock cut by two 1cm										
		coarse gypsum veins. Rock bleached.		452	454						2	0
		444.1 - 444.7 - white granitic dyke, 5%										
		biotite, relatively fresh, minor disseminated	D1638	454	456	2					1	1
		pyrite. @ 65°.										
		452.3 - granitic dyke, medium grained equi-		456	458						10	1
		granular, biotitic. Cut by pyrite + chlorite										

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From m	To m	Description	Sample No.	From m	To m	Length m	Mo	anhyd veins	qtz-Mo veins
		veinlet. Contact @ 25°.		458	460			5	1
		452.7 - 453.0 - gouge @ 30°, quartz veins,							
		chloritic.		460	462			5	1
		453.5 - 455.1 - Lamprophyre dyke							
		Upper contact @ 25°, lower @ 45°.	D1639	462	464	2		6	1
457.0	469.7	Augite Porphyry							
		7% augite phenocrysts to 8mm. More granular		464	466			4	0
		matrix than normal. Epidote abundant in							
		patches and streaks. Very biotitic,		466	468			6	1
		schistosity @ 30-40° to core. 5-7% pyrite.							
		461.2 - quartz-anhydrite vein with pyrite +		468	470			4	0
		chlorite @ 55°. Trace MoS_2.							
469.7	471.4	Lamprophyre Dyke.	D1640	470	472	2		0	2
471.4	485.5	Early Porphyry							
		Plagioclase, Kspar, quartz phenocrysts 2-3mm,		472	474			0	4
		occasional plagioclase to 7mm. 10% quartz.							
		Equigranular to seriate texture. 10% biotite.		474	476			2	7
		Weakly gneissic near contact @ 20°. Vein							
		sequence: 1) biotite + pyrite, about 15/metre		476	478			0	10
		2) quartz-MoS_2 with silicified envelopes,							
		near parallel to core, 3) quartz-MoS_2, no	D1641	478	480	2	.002	0	7
		envelopes, 2 to 15mm, 4) quartz+pyrite+							
		pyrrhotite + chlorite, 5) hairline calcite,		480	482			0	11
		bleached envelopes to 1cm, about 25/metre.							
		Strong patchy secondary biotite, relict quartz		482	484			0	18
		eyes, cut by coarse MoS_2 vein @ 483.6m. Lower							

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From m	To m	Description	Sample No.	From m	To m	Length m	% Mo	anhyd veins	qtz-Mo veins
		contact @ 30°.		484	486			1	13
485.5	487.8	Gouge Zone							
		@ 30 to 40°. Veinlets and smears of MoS_2 in	D1642	486	488	2	0.005	2	2
		upper 30cm in strongest shearing. In							
		volcanics.		488	490			9	2
487.8	500.6	Biotitic Metavolcanics							
		Black biotite 50% of rock, weakly schistose,		490	492			16	4
		locally up to 10% augite phenocrysts. Many							
		quartz veins less than 2mm, cut by hairline		492	494			14	2
		pyrite-quartz veinlets, cut by 1 to 2mm							
		anhydrite veinlets.	D1643	494	496	2	0.001	11	2
		492.6 - 2cm pegmatite dyke @ 30°.							
		493.7 - same, chloritic envelope.		496	498			9	1
				498	500			13	2
			D1686	500	502	2	0.007	1	15
500.6	534.9	Early Porphyry							
		Upper contact @ 20° in gouge. Locally	D1644	502	504	2	0.005	1	20
		gneissic, equigranular to seriate porphyritic.							
		50% feldspar phenocrysts to 4mm, average 2mm,	D1687	504	506	2	0.005	0	> 25
		10 to 15% quartz phenocrysts to 2mm, 15%							
		biotite. Freshest rock has 1% disseminated	D1688	506	508	2	0.008	0	> 25
		pyrite. Vein sequence 1) biotite + quartz,							
		weak silicification, 2) quartz stockwork,	D1689	508	510	2	0.003	1	10
		silicification, argillic alteration, -							

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From m	To m	Description	Sample No.	From m	To m	Length m	% Mo	anhyd veins	qtz-Mo veins
		variable MoS_2, minor pyrite. Veins not	D1645	510	512	2	).003	3	6
		uniformly distributed, 3) pyrite + magnetite							
		+ quartz + chlorite, with minor epidote and							
		secondary biotite on margins 4) quartz +	D1690	512	514	2	).002	0	14
		MoS_2 with silicification; sparse, 5) quartz							
		+ calcite + pyrite + chlorite with strong							
		argillic alteration in envelopes to 1cm,	D1691	514	516	2	0.002	1	21
		slicks, an occassional fluorite veinlet, older							
		than 4 + 5.							
		500.6 - Strong stockwork and alteration.	D1692	516	518	2	0.003	0	15
		508.5 - 519.2 - weak stockwork and alteration.							
		515.8 - 516.7 - feldspar porphyry dyke,							
		biotitic, later than 2nd vein set, earlier	D1646	518	520	2	0.005	0	12
		than 4th. Upper contact @ 80°, lower @ 35°,							
		pegmatitic.							
		519.8 - 530.3 - moderate stockwork with MoS_2.	D1693	520	522	2	0.019	1	< 25
		510.5 - 2cm anhydrite vein @ 80°.							
		512.6 - 15cm orange pegmatite dyke @ 30°.							
		520.4 - Late MoS_2 vein, coarse MoS_2.	D1694	522	524	2	0.009	0	< 25
		530.3 - 534.9 - weaker stockwork poor MoS_2.							
		526.2 - 8mm pyrite vein with magnetite and							
		chlorite envelope @ 50°.	D1695	524	526	2	0.009	0	< 25
		527.2 - 527.7 - Lamprophyre Dyke @ 45°.							
		531.7 - late orange pegmatite dyke @ 30°, no							
		veins.	D1647	526	528	2	0.004	0	< 25
		531.9 - Coarse MoS_2.							

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From m	To m	Description	Sample No.	From m	To m	Length m	Mo	anhyd veins	qtz-Mo veins
		535.8 - MoS_2 in anhydrite vein @ 10°, lower	D1696	528	530	2	.008	2	25
		contact @ 40°.							
			D1697	530	532	2	.010	2	25
			D1698	532	534	2	.010	2	24
534.9	546.7	Biotitic Metavolcanics	D1648	534	536	2	.040	4	15
		Augite porphyry in part, fragmental appearance							
		locally. Nearly black, 60% mafics. Vein		536	538			6	7
		sequence 1) early glassy quartz, minor							
		pyrite, trace MoS_2, 2) milky quartz + pyrite		538	540			3	16
		3) anhydrite with chlorite, trace MoS_2, some							
		with epidote + actinolite alteration, 4)		540	542			12	8
		quartz + pyrite + epidote with epidote +							
		pyrite in envelopes, 5) late calcite vein-	D1649	542	544	2	.007	12	8
		lets.							
		541.2 - fluorite ± garnet + epidote + pyrite		544	546			3	10
		+ magnetite @ 10°.							
		541.2 - 541.7 - fine grained early porphyry		546	548			5	11
		dyke, 3% disseminated pyrite with epidote, a							
		few quartz-MoS_2 veinlets @ 20°.		548	550			3	9
		546.5 - MoS_2 on slip surface @ 50°.							
546.7	549.0	Early Porphyry							
		As 471.4 - 485.5 - silicified along milky							
		quartz veinlets @ 40 to 50°, a few small							
		glassy quartz veinlets with trace MoS_2.							

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From m	To m	Description	Sample No.	From m	To m	Length m	anhyd veins	qtz-Mo veins
		Bleached along late fractures with epidote +						
		chlorite. One late MoS_2 veinlet, late hair-						
		line biotite + pyrite veinlet. Contact @ 65°.						
549.0	568.4	Augite Porphyry						
		Fragments in part, very biotitic. Same as	D1650	550	552	2	6	14
		534.9 - 546.7.						
		552.8 - 553.4 - early porphyry dyke, as 546.7		552	554		5	16
		- 549.0, contacts @ 70°.						
		Most quartz veins still carry MoS_2, but only		554	556		12	7
		traces.						
568.4	573.5	Augite Porphyry		556	558		9	5
		Abundant biotite, 10% chloritized augite						
		phenocrysts to 3mm. Very schistose @ 50°.	D1651	558	560	2	5	4
		Very little veining, no disseminated pyrite.						
		Very few pyrite veinlets. Chlorite and		560	562		7	3
		calcite on tight fractures.						
573.5	592.6	Augite Porphyry		562	564		10	8
		Biotitic, weakly schistose, 10 to 15% chlor-						
		itized augite phenocrysts. Trace disseminated		564	566		6	6
		pyrite. Quartz veinlets less than 0.5mm with						
		minor pyrite + hematite, trace MoS_2, chlorite	D1652	566	568	2	6	8
		alteration @ 30 59 45°. MoS_2 generally						
		disseminated in quartz, not along margins.		568	570		1	1
		Many hairline calcite veinlets. Occasional						
		anhydrite veinlet with chlorite.		570	572		0	0
		574.6 - 30cm quartz vein with MoS_2 on late						

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From m	To m	Description	Sample No.	From m	To m	Length m	anhyd veins	qtz-Mo veins
		fractures.		572	574		1	3
		581, 583.8, 584 - purple and white anhydrite						
		spots in quartz veins.	D1653	574	576	2	1	8
		585.9 - 15cm irregular dyke (?) of a quartz						
		feldspar porphyry. Siliceous, biotitic.		576	578	•	0	7
		586.0 - irregular quartz + anhydrite + pyrite						
		veinlets with epidote + actinolite alteration.		578	580		2	12
				580	582		3	12
			D1654	582	584	2	3	8
				584	586		3	11
				586	588		2	9
				588	590		2	10
			D1655	590	592	2	1	8
592.6	593.9	Nelson Quartz Monzonite		592	594		0	2
		5% feldspar phenocrysts to 1cm, 15% hornblende						
		+ biotite, very weakly chloritized. Trace		594	596		1	3
		disseminated epidote. Upper contact sharp @						
		50°, pegmatitic. Lower in broken core with		596	598		1	8
		gypsum. No quartz veins.						

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From m	To m	Description	Sample No.	From m	To m	Length m	anhyd veins	qtz-Mo veins
593.9	596.3	Biotitic Metavolcanics						
		Epidote-actinolite hornfels adjacent to						
		contacts.						
596	601.9	Early Porphyry						
		3 to 5% rounded quartz phenocrysts to 2mm, 25%	D1656	598	600	2	2	14
		white feldspar phenocrysts 1 to 3mm, a few to						
		8mm, 10 to 15% very fine grained black biotite,						
		weakly chloritized, aphanitic matrix.		600	602		0	5
		Hematite + chlorite + pyrite on very late						
		fractures, a few pyrite + epidote veinlets.						
		Patchy silicification. Early biotite veinlets		602	604		0	0
		with silicified envelopes. Abundant glassy						
		quartz veins with trace MoS_2. Upper contact						
		@ 45°, lower @ 10°.		604	606		0	0
601	607.8	Nelson Quartz Monzonite						
		Fresh, occasional K-spar phenocrysts to 3cm.						
		More abundant hornblende and biotite than	D1657	606	608	2	0	6
		usual. Rare 1 to 2mm barren quartz veinlets.						
		Distinctly younger than early porphyry.						
		606.5 - 606.9 - early porphyry inclusion, very		608	610		0	4
		silicified, several quartz veinlets with trace						
		MoS_2.						
607.8	615.2	Augite Porphyry		610	612		0	0
		As 573.5 - 592.6, very schistose weakly to						
		moderately chloritized.						
		608.5 - 608.9 - irregular white pegmatite dyke.		612	614		0	1

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From m	To m	Description	Sample No.	From m	To m	Length m		anhyd veins	qtz-Mo veins
		612.6 - 613.1 - Very fine grained biotitic	D1658	614	616	2		2	1
		andesite dyke @ 20°, early.							
		613.6 - 614.2 - Early porphyry, irregular							
		contact @ 30°.		616	618			1	1
615.2	619.7	Early Porphyry							
		As 569.3 - 601.9. A few anhydrite veinlets.							
		617.8 - 2cm pyrite + epidote + magnetite		618	620			3	1
		veinlet.							
619.7	629.2	Biotitic Metavolcanics							
		Very fine grained, weakly schistose @ 45°,		620	622			4	5
		1-3% disseminated pyrite. Abundant hairline							
		to 2mm quartz veinlets, a few anhydrite							
		veinlets. A few pyrite + hematite + epidote +	D1659	622	624	2		2	7
		chlorite veinlets.							
		620.7 - 621.1, 621.2 - 621.9, - early							
		porphyry @ 50°.		624	626			2	8
		622.0 - 622.9, 623.3 - 623.5 - Lamprophyre @							
		30°.							
		627 - 0 - 628.1 - Lamprophyre @ 30°.		626	628			4	9
629.2	635.5	Augite Porphyry							
		Very schistose. Minor metavolcanic as above,							
		same veining.		628	630			2	3
		631.9 - 633.0 - Lamprophyre, contacts @ 40°.							
		633.6 - 633.8 - Medium grained granitic dyke,							
		pink. Upper contact @ 70°, lower @ 40°.	D1660	630	632	2		2	3
635.5	636.4	Early Porphyry							

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From m	To m	Description	Sample No.	From m	To m	Length m	ank ve	qtz-Mo veins
		As 596 - 601 - irregular contacts, abundant		632	634			0
		metavolcanic inclusions, quartz veins. Pre-						
		Nelson in age.						
636.4	638.2	Gneissic Granitic dyke (Nelson)		634	636			1
		Orange alteration envelopes on hairline						
		calcite + pyrite veinlets, iron stain or						
		Kspar? Latest is dark brown accicular		636	638			0
		amphibole (or tourmaline) with minor pyrite						
		with silicified envelopes.						
638.2	641.7	Biotitic Metavolcanics	D1661	638	640	2		0
		Very fine grained, weakly bleached along						
		hairline calcite veinlets with epidote. A						
		few quartz veins.		640	642			0
		639.5 - 20cm early porphyry dyke @ 50°.						
		640.3 - 1.5cm vein with brown silicate						
		(amphibole) or tourmaline, @ 20°. Silicified		642	644			
		envelope.						
641.7	646.3	Gneissic Granitic Dyke (Nelson)						
		Hornblende and biotite in medium grained		644	646			
		granite. Trace disseminated pyrite. Two late						
		glassy quartz veinlets with pyrite and						
		chlorite on margins and cross fractures.	D1662	646	648	2		
		Several hairline calcite + chlorite + pyrite						
		+ hematite veinlets with orange alteration						
		envelopes, often @ 45°. Late gypsum veinlet.		648	650			
		Contacts 65°, 45°.						

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From m	To m	Description	Sample No.	From m	To m	Length	Au: ppb			
646.3	647.2	Fine Grained Biotitic Metavolcanics		650	652					
647.2	650.1	Early Porphyry								
		As 596 - 601. Feldspar phenocrysts to 3mm,								
		biotitic. Fine grained siliceous matrix.		652	654					
		Silicified along a few quartz veinlets. A								
		few magnetite veinlets. Lower contact @ 30°.								
		649.0 - 649.3 , 649.7 - 649.8, Fresh coarsely	D1663	654	656	2				
		porphyritic Nelson quartz monzonite.								
650.1	655.1	Biotitic Metavolcanics								
		Very fine grained, tuffaceous. Several barren		656	658					
		quartz grains, pyrite + magnetite veinlet.								
		653.1 - 653.3 - Brecciated zone, early								
		hydrothermal.		658	660					
655.1	665.5	Nelson Quartz Monzonite								
		5% Kspar phenocrysts to 3cm, zoned with								
		hornblende inclusion, 15% plagioclase +		660	662					
		Kspar phenocrysts 2 to 4mm in equigranular								
		ground mass. 15% hornblende. Locally								
		gneissic. Trace disseminated pyrite. A few	D1664	662	664	2				
		grey hairline quartz-magnetite veinlets near								
		contact. Occasional late pyrite hornblende								
		veinlet. A few chlorite + calcite veinlets.		664	666					
665.5	667.8	Early Porphyry								
		Weak stockwork, barren quartz with trace								
		pyrite. Moderate argillic alteration.		666	668					
		Several calcite + chlorite + pyrite + hematite								

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From m	To m	Description	Sample No.	From m	To m	Length m
		veinlets with orange alteration.		668	670	
		666.7 - 667.2 pink Nelson, hematite stains.				
		Sharp chilled margins, cutting quartz veins				
		in early porphyry. Contact @ 80°.	D1665	670	672	2
667.8	686.3	Nelson Quartz Monzonite.				
		As 655.1 - 655.5, relatively fresh.				
		671.4 - 672.7 - chlorite + calcite in gouge		672	674	
		nearly parallel to core. Entire rock pink-				
		orange color strongly fractured with calcite				
		+ chlorite + hematite on fractures, no		674	676	
		sulfides.				
		670.0 - mafics weakly chloritized.				
		678.7 - 679.5 - moderate to intense argillic		676	678	
		alteration and chlorite related to slips @				
		35°, 2 vein sets: 1) calcite, 2) calcite				
		+ hematite + chlorite.	D1666	678	680	2
		683.5 - 686.3 - moderate to intense argillic				
		and chloritic alteration related to several				
		gouge zones at 35°. Relatively fresh at end.		680	682	
		686.3 - End of Hole.				
				682	684	
				684	686.3	

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Diamond Drill Record

Location: 9956.9N, 9959.4E			Hole No. 80-3
Azimuth: 135°	Dips - collar -50°	Contractor: Canadian Mines Services	Property: Aylwin Creek
Elevation: 1262.7m	- 60 m 55 °	Logged By: D.C. Durgin	Claim No. Willa
Length: 200m	-130 m 54 °	Date: September 22 - 25, 1980	Section No. 50 South
Core Size: NQ	-200 m 56 °		Started: September 20, 1980
Purpose: To test dip + continuity of mineralization in 80-2 (Au, Cu)			Completed: September 25, 1980

From m	To m	Description	Sample No.	From m	To m	Length				Chl-ep amph-py
0	3.3	Overburden		0	3.7	3.7	L			0
3.3	3.7	Badly broken and drilled over core-								
		boulders? 3.4m lamprophyre/quartz latite	D 1837	3.7	6	2.3	L			7
		porphyry contact @ 55° to core axis.								
3.7	36.2	Feldspar Porphyry	D 1838	6	8	2m	L			8
		Pink-brown, fine grained, indistinct								
		feldspar phenocrysts average 1.5mm.	D 1839	8	10	2m	L			6
		Often obscured by intense secondary								
		biotite and later silicification.	D 1840	10	12	2m	L			5
		Generally 1-2% disseminated pyrite.								
		Abundant chlorite-amphibole-pyrite +/-	D 1841	12	14	2m	L			5
		epidote-quartz veinlets with silicified								
		envelopes and locally associated pyrite-	D 1842	14	16	2m	L			2
		chlorite replacements as blebs and								
		streaks. A few later pale green gran-	D 1843	16	18	2m	L			4
		ular chlorite-epidote amphibole (green								
		silicates) - pyrite +/- garnet veins	D 1844	18	20	2m	L			5
		with silicification.								
		Late gypsum veinlets common. Calcite	D 1845	20	22	2m	L			4

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From m	To m	Description	Sample No.	From m	To m	Length	Chl-ep amph-py
		6.3 - Pale green chlorite-epidote-amphibole-pyrite vein @ 50°.	D 1846	22	24	2m	3
		7.4-9.9 - Strongly silicified, abundant pyrite blebs.	D 1847	24	26	2m	7
		10.1 - 19.0 - Brecciated appearance, very abundant brown biotite between fragments, often replaced by patches of pyrite-chlorite-amphibole. Best @ 11.2m. Perhaps 4% pyrite, trace chalcopyrite.	D 1848	26	28	2m	6
			D 1849	28	30	2m	3
			D 1850	30	32	2m	5
		19.0-26.8 - Strongly fractured, bleached along late calcite-chlorite-pyrite veinlets.	D 1851	32	34	2m	6
		22 - 7cm fracture zone with calcite + gypsum @ 20°.	D 1852	34	36	2m	6
		26.0 - Biotite veinlets partially replaced by pyrite.	D 1853	36	38	2m	5
		26.8- 31.5- Brecciated appearance - fragments all feldspar porphyry, unsorted, angular to subrounded, matrix has intense brown biotite alteration, fragments moderate to strong alteration. Blebs and streaks of pyrite with minor amphibole and epidote in matrix. 2-3% disseminated pyrite. A few late calcite veinlets.	D 1854	38	40	2m	5
			D 1855	40	42	2m	3
			D 1856	42	44	2m	5
			D 1857	44	46	2m	5
			D 1858	46	48	2m	10

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From m	To m	Description	Sample No.	From m	To m	Length
		31.5- 36.2 - Brecciated locally, bleached adjacent to abundant late calcite veinlets. Intense silicification in intervals up to 5cm associated with chlorite-epidote-amphibole-pyrite -quartz veins. 5% pyrite and pyrrhotite in blebs and disseminations.				
		33.5- Quartz-MoS_2 veinlet in silicified zone with pyrite-pyrrhotite-epidote.				
36.2	50.0	Heterogeneous Breccia				
		Contacts rather arbitrary due to alteration. Fragments to 20cm, averaging 10cm, including: Feldspar porphyry, dark schistose metavolcanics, fine grained feldspar porphyry with brown biotite, a few tan cherty rocks. Matrix rather nebulous, appears crystalline. Strong pale green silicate alteration and silicification. Hairline chlorite--black amphibole-pyrite-quartz veins about 5/metre. A few later pale green granular chlorite-epidote-amphibole -pyrite-quartz-pyrrhotite veinlets with silicified envelopes with epidote- see 43.0, 43.5m. A few late hairline calcite-chlorite +/- pyrite veinlets.				

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From m	To m	Description	Sample No.	From m	To m	Length	Chl-ep amph-py
		Breccia appears to cut, alter, and	D 1859	48	50	2m	12
		include fragments of feldspar porphyry.					
		47.3- Well defined fragments.	1860	50	52	2m	5
50.0	139.9	Feldspar Porphyry					
		As 3.7 -36.2. Abundant subhedral	1861	52	54	2m	4
		feldspars averaging 2mm. Biotite +					
		pyrite after hornblende, no quartz	1862	54	56	2m	4
		phenocrysts. Generally intense second-					
		ary biotite.	1863	56	58	2m	3
		50.0- 54.7 - breccia texture, fragments					
		nearly all feldspar porphyry. 5-7%	1864	58	60	2m	3
		pyrite as blebs and disseminations, as					
		26.8-31.5.	1865	60	62	2m	4
		54.7 - 56.4 - Fragments not apparent.					
		Abundant veinlets and streaks of pyrite,	1866	62	64	2m	4
		to 10% pyrite. Cut by 3cm quartz					
		veins with pyrite and black amphibole	1867	64	66	2m	3
		at 55.6, 56.2 @ 60° with silicified envel-					
		opes. Several late calcite veinlets	1868	66	68	2m	5
		and jade green chlorite-serpentine on					
		fractures. A few pyrite-black amphibole-	1869	68	70	2m	4
		biotite veinlets.					
		56.4 - 61.5 - vague to well defined	1870	70	72	2m	3
		breccia texture, no foreign fragments,					
		matrix intensely altered to brown	1871	72	74	2m	5
		biotite with up to 10% coarse dissemin-					

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From m	To m	Description	Sample No.	From m	To m	Length			Chl-ep amph-py
		-ated pyrite with epidote. Chlor-							
		ite-epidote-pyrite quartz veinlets with	1872	74	76	2m			4
		silicified envelopes cut by biotite-							
		pyrite veinlets.							
		58.4 - Pale green granular chlorite-	1873	76	78	2m			6
		epidote-amphibole-quartz-pyrite vein							
		@ 50° with pyrrhotite in silicified							
		envelope, brown biotite on margins.	1874	78	80	2m			3
		Also 3 hairline pyrite-MoS_2 veinlets							
		@ 40° to core axis.							
		61.4-66.9- Feldspar porphyry, breccia	1875	80	82	2m			3
		textures locally apparent as at 64.1m,							
		66.9m. Moderate to strong silicifi-							
		cation and bleaching especially 61.4-	1876	82	84	2m			4
		62.8, 64.8-69.0. Cut by biotite-pyrite							
		and by late chlorite-calcite-pyrite							
		veinlets.	1877	84	86	2m			3
		66.9- 67.1 - Intense silicification							
		with blebs of pyrite associated with							
		chlorite-biotite-amphibole, cut by	1878	86	88	2m			4
		calcite-chorite-pyrite veinlet.							
		69.6-70.0 - Intense biotite, 10%							
		pyrite and 3mm pyrite veinlets at 70°	1879	88	90	2m			3
		to core.							
		73.7 - Gradation in and out from feld-							
		spar porphyry to brecciated, altered							

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From m	To m	Description	Sample No.	From m	To m	Length
		feldspar porphyry				
		76.7 - 10cm silicified zone with multiple				
		pyrite-biotite veinlets.				
		77.4 - 4cm irregular chlorite-epidote-				
		amphibole-pyrite-quartz veinlet @ 10°				
		with silicification and brown biotite				
		banding @ 45°, also 1cm quartz vein with				
		pyrite and brown biotite (early?) @ 30°.				
		87.6- 82.8- Intense silicification with				
		10-15% rather yellow pyrite in blebs				
		and disseminations.				
		84.5- 102 - Patchy moderate to intense				
		silicification with 5-10% blebs and				
		disseminations of pyrite with biotite,				
		black amphibole +/- epidote. Porphyry				
		texture often obscurred. Early brown				
		biotite moderate. Abundant late				
		calcite-chlorite-pyrite veinlets with				
		bleached envelopes to 1cm, 6-10/metre.				
		Scattered late biotite epidote-amphibole-				
		pyrite-quartz veins to 2cm generally <1cm.				
		Sets @ 70°, 20°, 5°, to core.				
		88.6 - 89.4 - Intensely fractured,				
		bleached, abundant calcite-chlorite-				
		pyrite veinlets @ 80° to core.				
		93.0 - Two irregular strings of blebs				

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From m	To m	Description	Sample No.	From m	To m	Length
		of pyrite-epidote biotite-amphibole				
		in silicification.	1880	90	92	2m
		93.7 - Same				
		95.5 - 96.3 - Strong fracture set				
		nearly parallel to core with chlorite-	1881	92	94	2m
		calcite-pyrite, bleached.				
		95.8 - Weak irregular quartz-MoS_2 vein-				
		let in silicified zone, older than pyrite	1882	94	96	2m
		+ green silicates.				
		98.2 - 101.4- Moderate to intense				
		silicification associated with several	1883	96	98	2m
		chlorite-epidote-amphibole-pyrite quartz				
		veins, commonly @ 30° to core. 6-8%				
		disseminated pyrite with epidote and	1884	98	100	2m
		minor pyrrrhotite.				
		102-111.0 - Pervasive strong, silicifi-				
		cation with short, less silicified	1885	100	102	2m
		intervals. Alteration related to				
		chlorite-epidote-amphibole-pyrite-quartz				
		veining. Contains extremely rare quartz	1886	102	104	2m
		phenocrysts. 1-2cm blebs of pyrite				
		and biotite in less silicified zones.				
		5-7% disseminated pyrite throughout.	1887	104	106	2m
		Veinlets to 2cm and fine networks of				
		chlorite-epidote-amphibole-pyrite-quartz				
		veinlets. One set @ 20°, another 30-40°.				

		Chl-ep amph-py
		3
		4
		4
		4
		5
		11
		8
		12

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From m	To m	Description	Sample No.	From m	To m	Length			Chl-ep amph-py
		111.0 - Begin seeing pyrite-biotite	1888	106	108	2m			12
		veinlets - older than pyrite-chlorite							
		veinlets, younger than green silicate-							
		pyrite-quartz veinlets. Biotite-pyrite	1889	108	110	2m			19
		blebs associated with this vein set?							
		113.1- Several irregular hairline							
		MoS_2 veinlets @ 10°.	1890	110	112	2m			7
		111.6 - 114.9 - Moderate to intense							
		fracturing, late calcite-chlorite-pyrite							
		veinlets @ 65-75° to core. A few @ 25-30°,	1891	112	114	2m			5
		perpendicular to first set. Strong							
		bleaching associated.							
		114.9 -125.0 - Patchy silicification	1892	114	116	2m			2
		associated with chlorite epidote-amph-						Bio-py	
		ibole-pyrite-quartz veinlets, and with							
		biotite hornfels alteration. Sporadic	1893	116	118	2m		8	5
		late calcite veinlets, especially 118-							
		119m. Occasional blebs and streaks							
		of pyrite with minor pyrrhotite in later	1894	118	120	2m		10	7
		brown biotite. 6-8% total sulfides.							
		119.0 - 2.5cm healed fault breccia in							
		silicified zone @ 35°.	1895	120	122	2m		15	3
		122.0 - Irregular 3cm band of intense							
		biotite + pyrite .							
		125.0- 127.6 - Moderate to very strong	1896	122	124	2m		8	13
		silicification. Abundant later brown							

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From m	To m	Description	Sample No.	From m	To m	Length		Bio-py	chl-ep amph-py
		biotite and up to 15% pyrite in blebs							
		and disseminations (overprint on early	1897	124	126	2m		11	1
		biotite hornfels).							
		127.5 - 128- Abundant late calcite-	1898	126	128	2m		8	1
		chlorite-pyrite veinlets @ 70° to core.							
		130.2 - 0.8cm pyrite quartz vein @ 30°	1899	128	130	2m		12	1
		130.7 - 1cm pyrite-quartz-biotite vein							
		@ 35° with pyrrhotite and chalcopyrite,	1900	130	132	2m		10	2
		in silicified zone.							
		131.2 - Pyrite-black amphibole-epidote	1901	132	134	2m		3	3
		clots.							
		133.3 - 135.3- Strongly fractured, bleach-	1902	134	136	2m		6	3
		ed abundant late calcite-pyrite-epidote							
		-chlorite veinlets, small gouge planes	1903	136	138	2m		8	3
		@ 20-25°. A few vuggy irregular quartz-							
		epidote-pyrite veins as at 133.9.	1904	138	140	2m		3	2
		135.9 - 136.4 - Fracture zone as above,							
		gougy.	1905	140	142	2m		3	4
		137.9 - Trace disseminated chalcopyrite.							
		138.6 - 138.9- Breccia texture with	1906	142	144	2m		2	5
		very abundant brown biotite in matrix							
		as 56.4 - 61.5.	1907	144	146	2m		0	11
		139.4 - 139.9 - Strong silicification							
		in feldspar porphyry with intense brown	1908	146	148	2m		2	14
		biotite, pyrite, and chalcopyrite as							
		veins and replacements. Minor pyrrhotite,	1909	148	150	2m		3	3

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Hole No. 80-3

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From m	To m	Description	Sample No.	From m	To m	Length	chl-py	chl-ep amph-py
		irredescent tarnish on chalcopyrite	1910	150	152	2m	6	4
		(possible bornite). Veins @ about						
		20° to core 2% Cu.						
139.9	142.0	Heterogeneous Breccia	1911	152	154	2m	4	3
		Strongly silicified, moderate green						
		silicate alteration. Fragments poorly						
		defined except @ 141.7, 2-3% disseminated	1912	154	156	2m	4	4
		pyrite, pyrrhotite, chalcopyrite. Strong						
		fractures.						
142.0	147.5	Silicified Feldspar Porphyry (?)	1913	156	158	2m	2	13
		Fine grained white to pale green, with						
		rounded indistinct feldspars averaging						
		1mm, no quartz, no primary mafics,	1914	158	160	2m	0	12
		vague breccia textures locally. Inter-						
		vals to 20cm of brown biotitic rock (fra-						
		gments or remnants of feldspar porphyry	1915	160	162	2m	6	3
		with streaks and disseminated pyrite,						
		chalcopyrite and pyrrhotite. Generally						
		5-7% disseminated and streaky pyrite	1916	162	164	2m	6	2
		with lesser chalcopyrite and pyrrhotite						
		replacing biotite. A few chlorite-						
		epidote-pyrite-quartz veinlets with re-	1917	164	166	2m	5	17
		placement sulfide blebs. 0.2% Cu?						
		142.0, 142.6 - 15cm intervals of inten-						
		se brown biotite in feldspar porphyry	1918	166	168	2m	4	17

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Hole No. BQ-3
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From m	To m	Description	Sample No.	From m	To m	Length
		143.3 - 3mm glassy quartz vein with 1cm				
		silicified margin @ 30° to core axis.				
147.5	170.5	Heterogeneous Breccia				
		Fragments to 30cm of: (most) dark bioti-				
		tic metavolcanics, very fine grained				
		cherty buff to pink felsite, volcanics				
		(?), augite porphyry mostly toward end,				
		white feldspar porphyry with white				
		plagioclase phenocrysts to 5mm, squarish				
		to rounded, crowded in aphanitic grey				
		groundmass, minor altered hornblende				
		(see 158.5m), (least) silicifife d and				
		veined feldspar porphyry as at 147.4.				
		Matrix is rock flour strongly altered to				
		pale green silicates. Abundant irregular				
		veinlets, streaks and blebs of pyrite,				
		minor chalcopyrite and pyrrhotite. Cut				
		by occasional chlorite-epidote-pyrite-				
		quartz veinlets, a few pyrite-chlorite				
		veinlets, then granular epidote-amphibole				
		(actinolite?) -pyrite-calcite quartz				
		veins as at 154.0. Upper contact sharp				
		@ 50°.				
		154.4 - Pale granular green silicate				
		vein @ 20°.				
		159.0- 30cm dark volcanic fragment.				

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Hole No. 80- 3

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From m	To m	Description	Sample No.	From m	To m	Length	chl-ep amph-py
		160.2- 161.7 - Silicified augite por-					
		phyry fragment.	1919	168	170.5	2.5	10
		164.7 - 167.0- Very intense sulfides					
		-15-20% pyrite-chalcopyrite-pyrrhotite	NS	170.5	172.7	-	2
		replacing matrix, outlining, and partially					
		replacing fragments as veinlets, streaks	1920	172.7	174	1.3	11
		and blebs. 2% Cu, with epidote, dark					
		amphibole and locally garnet (165.0).	1921	174	176.6	2.6	15
		From 167.0 - most of fragments are augite					
		porphyry.	NS	176.6	178.1	-	7
		167-170.5 - Mineralization moderate,					
		less chalcopyrite, 0.5% Cu.	1922	178.1	180	2.1	16
		167 - 171.5 - Very strong fractures with					
		calcite @ 5° , 10°.	1923	180	182	2m	16
170.5	172.7	Lamprophyre					
		Upper contact @ 60°, lower in broken core	1924	182	184	2m	8
		- 45°?					
		172.1 - 5cm fault gouge @ 30° to core.	1925	184	186	2m	17
172.7	176.6	Augite Porphyry					
		25% augite phenocrysts to 4mm,					
		average 2.5mm, moderately to strongly					
		altered to pale green silicates (chlor-					
		ite-actinolite?). Dark fine grained					
		matrix with brown biotite, feldspar,					
		fine augite. Rock moderately to strongly					
		altered to chlorite-epidote-actinolite-					

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From m	To m	Description	Sample No.	From m	To m	Length
		calcite. (especially 174.5m), associated				
		with pyrite-epidote +/- quartz veinlets				
		and granular chlorite-actinolite-epidote-				
		quartz veinlets often with biotite on				
		margins (175.0). Late gypsum veinlets,				
		late calcite veinlets. Pyrite-epidote				
		-quartz generally @ 30° + 5° to core				
		granular veinlets @ 50°.				
		174 - 2.5cm quartz vein in shear @ 5°				
		to core with chlorite + coarse pyrite.				
		5-7% sulfides, 2-4% disseminated pyrite,				
		trace chalcopyrite.				
176.6	178.1	Lamprophyre				
		Upper contact irregular, about 30°,				
		lower sharp @ 90°.				
178.1	194.0	Augite Porphyry				
		As 172.2 - 176.6, a bit more strongly				
		altered, more abundant pyrite-epidote-				
		chlorite +/- quartz veinlets, chalcopyrite				
		locally abundant.				
		178.1 - 181.0 - Moderate alteration,				
		5-7% pyrite disseminated, streaks + vein-				
		lets, generally with epidote, minor				
		chalcopyrite.				
		181.0 - 182.7 - intensely fractured				
		with crackled glassy quartz veins nearly				

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From m	To m	Description	Sample No.	From m	To m	Length	Qtz-Mc	Chl-ep amph-py
		parallel to core. Calcite throughout						
		and in late veinlets. Up to 10%	D 1926	186	188	2m	0	23
		disseminated pyrite, minor chalcopyrite,						
		0.1% Cu.						
		181.5- 5mm pyrite-MoS_2 veinlet.	1927	188	190	2m	0	16
		182.7-194.0 - More intense mineraliz-						
		ation, larger veinlets + blebs of py-						
		rite-chalcopyrite, trace pyrrhotite,	1928	190	192	2m	0	17
		minor hematite, many late calcite						
		veinlets. 0.5% Cu.						
		184.8, 185.2 - Coarse quartz-calcite	1929	192	194	2m	3	16
		veins @ 30° to core.						
		185.9- Calcite veinlet with hematite						
		@ 20°.	1930	194	196	2m	1	8
		186.4 - 3cm gouge zone along quartz vein						
		@ 10°. 10% pyrite, minor chalcopyrite.						
		186.7 - 1cm sheared pyrite veinlet	1931	196	198	2m	6	9
		with minor chalcopyrite, trace MoS_2						
		@ 10°.						
		188.9 - 1cm pyrite-chalcopyrite vein	1932	198	200	2m	5	3
		@ 25°.						
		191.6 - 2cm quartz-calcite vein with						
		slicks @ 10°.						
		193.6 - Calcite-chlorite veinlet with						
		hematite @ 80°.						

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From m	To m	Description	Sample No.	From m	To m	Length
		with MoS_2 on margins and disseminated				
		to 1cm thick @ 30° + parallel core,				
		30° one cut by parallel quartz-epidote				
		-pyrite veinlet and gypsum.				
		194.0 - lower contact at 30°.				
194.0	200.0	Grey Siltstone				
		Thin bedded (1cm) grey to buff, fine				
		grained clastics. Minor biotite,				
		tuffaceous, bedding 20° to 40° to core				
		axis, graded bedding (196.5) suggests				
		overturning. (This is the source of				
		fine grained cherty fragments in heter-				
		ogeneous breccias). Shattered and				
		chloritized at contact with several				
		chlorite veinlets. Average 2% pyrite				
		disseminated and on fractures parallel				
		to bedding. Several glassy quartz				
		veins to 1cm with MoS_2 along margins.				
		These are cut by pyrite veinlets with				
		epidote, quartz, amphibole, specularite.				
		Many late calcite veinlets, minor gypsum.				
		197.8 -198.5 - Crackled, up to 10%				
		pyrite with minor chalcopyrite as				
		streaks and replacement blebs - 0.3% Cu.				
200.0		End of Hole.				

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Diamond Drill Record

Location: 9944.8N, 9900.2E			Hole No. 80-4
Azimuth: 135°	Dips - collar -50°	Contractor: Cameron McCutcheon Drilling	Property: Aylwin Creek
Elevation: 1270.9m	- 60 m -49°	Logged By: D. C. Durgin	Claim No. Rockland
Length: 291.2m	- 130 m -46°	Date: Sept. 28 - Oct. 6, 1980	Section No. 100 South
Core Size: NQ	- 270 m -45°		Started: October 6, 1980
Purpose:			Completed:

From m	To m	Description	Sample No.	From m	To m	Length	oxidized veinlets	chl-ep veinlets	amph-py
0	7.9	Overburden							
		1m of badly broken, drilled over core, all quartz latite porphyry. 30% rounded feldspars average 2.5mm, 5mm maximum, 10% biotite after hornblende, 1% rounded quartz phenocrysts to 3mm in grey aphanitic matrix. 2-3% disseminated pyrite with biotite. A few early quartz veinlets with minor MoS_2, cut by quartz-pyrite-dark chlorite-epidote veinlets with trace chalcopyrite. Supergene covellite coating pyrite. Abundant strongly oxidized veinlets and fractures. 5.0 - 1cm oval piece of quartz with MoS_2.		-	0	8.8			
7.9	13.1	Heterogeneous Breccia							
		Fragments to 8cm, most are quartz latite porphyry, some chloritic metavolcanics, a few augite porphyry. Matrix is granular to schistose with quartz, chlorite, and abundant dark biotite. 15% pyrite (2mm) largely disseminated,	D1933	8.8	10	1.2m		8	1
			D1934	10	12	2m		5	2

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Hole No. 80-4
Page No. 2

From m	To m	Description	Sample No.	From m	To m	Length	oxidized veinlets	chl-ep amph-py
		largely in matrix, also as streaks and blebs						
		with minor epidote. Minor chalcopyrite, irri-						
		descent tarnish, covellite coating some pyrite.						
		Many oxidized pyrite-chlorite veinlets @ 80°,						
		10° to core.	D1935	12	14	2m	> 25	3
13.1	15.5	Quartz Latite Porphyry	D1936	14	16	2m	> 25	3
		30% feldspars, average 2mm, 2-4% rounded quartz						
		phenocrysts, 5-7% biotite and pyrite after						
		hornblende. Very fine grained matrix, overall	D1937	16	18	2m	> 25	8
		pale greenish tinge, feldspars indistinct -						
		incipient quartz-sericite alteration? 2% dis-						
		seminated pyrite, strong silicification at	D1938	18	20	2m	25	12
		upper contact with abundant pyrite, decreasing						
		downward. Quartz-chlorite-pyrite +/- epidote						
		veinlets common. Very abundant later limonite-	D1939	20	22	2m	18	16
		coated fractures (pyrite-chlorite veinlets?),						
		most commonly @ 55-65°.						
		14.4 - Odd 3cm silicified band with feldspar	D1940	22	24	2m	> 25	18
		fragments and 3% disseminated pyrite at 55° -						
		a breccia dyke?						
15.5	17.9	Heterogeneous Breccia (biotitic)	D1941	24	26	2m	> 25	15
		As 7.9 - 13.1 Contacts indistinct, masked by						
		silification. 10% total sulfides, pyrite rimmed						
		by blue-black covellite. 0.3% Cu as chalcopyrite						

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From m	To m	Description	Sample No.	From m	To m	Length	oxidized veinlets	chl-ep earth-py
		same amount as covellite?	D1942	26	28	2m	> 25	14
		15.6 - 2cm glassy quartz vein at 70° with disseminated very fine-grained blue-black metallic needles (what?)						
		17.1 - 4cm clast of bull quartz with pyrite-chlorite-quartz veins.	D1943	28	29.5	1.5m	> 25	7
17.9	28.1	Early Porphyry	N S	29.5	32.3	2.8m	0	0
		Seriate texture; 40% subhedral plagioclase phenocrysts from 6 to 1mm in aphanitic matrix, 7% biotite-chlorite after hornblende to 0.8cm, 1% hornblende to 0.8cm, 1% rounded quartz phenocrysts, generally 2mm, a few to 8mm. Freshest at 25.8m. Biotite weakly to moderately chloritized. 1 to 5% disseminated pyrite with minor epidote. Feldspars slightly green. Many chlorite pyrite-epidote veinlets at 45°, 30°, 10°. Later bleached, limonite-coated factures at 10°, 30°, 70°. Silicified near both contacts,	D1944	32.3	34	1.7m	18	13
		especially upper.	D1945	34	36	2m	19	13
		19 - Malachite, azurite, tennorite on fractures with limonite.						
		21.6- Covellite coating pyrite.						
		25.1- Biotite quartz-pyrite-trace chalcopyrite - 5cm patch.						
		25.3- Gouge @ 5° to core.	D1946	36	38	2m	14	8

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From m	To m	Description	Sample No.	From m	To m	Length	oxidized veinlets	qtz-Mo	chl-ep amph-py
28.1	40.1	Hetergenous Breccia	D1947	38	40	2m	9	1	6
		Fragments to 20cm, generally less than 8cm,							
		25% quartz latite porphyry, especially at top,	D1948	40	42	2m	5	1	13
		25% dark schistose metavolcanics, 5% augite							
		porphyry, 5% other, 30% matrix. Matrix granu-							
		lar (rock flour?) altered to actinolite-chlor-							
		ite-epidote-pyrite-quartz. 10% pyrite dissemi-							
		nated and in blebs with epidote, minor chal-							
		copyrite. Chlorite-epidote, minor chalcopyrite.	D1949	42	44	2m	3	6	11
		Chlorite-epidote-pyrite veinlets, hairline							
		chlorite-pyrite veinlets +/- calcite. Upper							
		contact @ 60°, lower irregular, altered.							
		29.5 - 32.3 - 2.5m of core lost.							
		35.1 - Minor gouge @ 30°.							
		37.2 - 37.8 - 60cm core lost.	D1950	44	46	2m	>25	1	10
40.1	54.0	Early Porphyry	D1951	46	48	2m	20	7	15
		As 17.9 - 28.1.							
		40.1 - 44.2 - Moderate to strong silicifica-							
		tion with fine pale brown biotite, feldspars							
		milky, matrix altered. Primary textures local-							
		ly obliterated, especially near contact.							
		2% disseminated pyrite. Pyrite-chlorite-epidote							
		-hematite-quartz veinlets common at 30° and							
		parallel core. A few replacement blebs of	D1952	48	50	2m	10	10	13
		pyrite-chlorite-epidote (42.5m). Calcite on							

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From m	To m	Description	Sample No.	From m	To m	Length		qtz-Mo	chl-ep amph-py
		late fractures. Quartz-MoS_2 veinlets with sil-	D1953	50	52	2m		1	8
		icified envelopes @ 35°. Quartz-MoS_2 vein para-							
		llel to core with pyrite-chlorite-epidote-							
		quartz veinlet down centre (44m).							
		44.2 - 46.9 - Relatively fresh, altered only							
		along pyrite-chlorite-epidote veinlets. Strong							
		fracture sets @ 30°, 75° with limonite and							
		black oxides (Fe,Mn,Cu?).	D1954	52	54	2m		0	10
		45.3 - Thick black oxides with white platy min-							
		eral - gypsum?							
		46.9 - 49.5 - Intense silicification, porphyri-							
		ic texture oblitered, quartz eyes remain. 5%							
		very fine-grained brown biotite. Barren quartz-							
		MoS_2 veinlets, later pyrite-chlorite-epidote-	D1955	54	56	2m		0	14
		quartz +/- chalcopyrite +/- MoS_2 veinlets.							
		Black oxides on fractures; some pyrite has							
		blue-black coating - supergene Cu.	D1956	56	58	2m		0	10
		49.5 - 54.0 - Relatively fresh, moderate pyrite-							
		chlorite-epidote-quartz veinlets with silici-							
		fied envelopes, sets at 60° and parallel to	D1957	58	60	2m		0	8
		core. Late calcite-chlorite veinlets at 30°							
		and parallel to core.	D1958	60	62	2m		0	7
		51.7 - MoS_2 in quartz vein with chlorite-epi-							
		dote-pyrite.	D1959	62	64	2m		0	6

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From m	To m	Description	Sample No.	From m	To m	Length
54.0	62.9	Heterogeneous Breccia	D1960	64	66	2m
"		Fragments generally less than 5cm, contains				
		quartz latite porphyry, fine grained buff sil-				
		icieous rocks, feldspar porphyry, fine grained				
		biotite hornfels, others (?) in fine-grained				
		silicified matrix with epidote + chlorite.	D1961	66	68	2m
		54.0 - 58.0 - Silicified, 5-7% pyrite, dissem-				
		inated and in blebs with epidote, in veinlets				
		with chlorite and epidote, pale green. Upper				
		contact in broken core at low angle.				
		54.5 - Vuggy chlorite-epidote-amphibole-pyrite	D1962	68	70	2m
		veinlet with late 2mm fluorite crystals.				
		55.4 - Vuggy pyrite-epidote-chlorite-quartz				
		veinlets with well-displayed chalcocite on				
		pyrite crystals.				
		58 - 59.5 - Grades into black silicate (bio-	D1963	70	72	2m
		tite?) alteration replacing green silicates,				
		a bit more pyrite. Badly broken core. Pyrite				
		frequently has supergene Cu.				
		59.5 - 61.4 - Strong silicification, textures				
		still sharp.	D1964	72	74	2m
		61.4 - 62.8 - Fault zone, gouge at top and				
		bottom at 20° to core.				
62.8	99.8	Early Porphyry				
		As above (17.9 - 28.1).				
			D1965	74	76	2m

		qtz-Mg	chl-ep amph-py
		2	12
		3	11
		3	14
		4	12
		3	17
		7	10

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From m	To m	Description	Sample No.	From m	To m	Length		qtz-Mo	chl-ep amph-py
		62.8 - 72.7 - Intense silicification and brown biotite, feldspars largely destroyed, relict quartz eyes. Glassy quartz veining with MoS_2. Overprinted by pyrite-chlorite amphibile-epidote veins, streaks and patchy replacements silicified margins, average 3% sulfides. Up to	D1966	76	78	2m		7	13
		10% locally; largely pyrite, minor pyrrhotite, trace chalcopyrite. Veins at low angles and parallel to core (69m) a few @ 40°. Above 65m core badly fractured with late argillic alteration and calcite veinlets. A few chlorite-pyrite veinlets.	D1967	78	80	2m		10	11
		70.6 - Pyrrohotite and chalcopyrite as replacement blebs	D1968	80	82	2m		11	5
		71.3 - 71.6 - 20% sulfides, abundant chalcopyrite.	D1969	82	84	2m		10	3
		71.3 - Weak silicification, brown biotite, a few quartz-MoS_2 veins.							
		72.7 - 73.5 - Coarse, relatively fresh, weakly gneissic, seriate texture with 40% feldspar phenocrysts to 1cm, up to 10% founded quartz phenocrysts to 8mm, 5-7% biotite after hornblende and around quartz eyes. Freshest at 81m,	D1970	84	86	2m		12	2
		generally at least 1% disseminated pyrite with epidote. A few quartz-MoS_2 veins.	D1971	86	88	2m		22	4

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From m	To m	Description	Sample No.	From m	To m	Length	bio-py	qtz-Mo	chl-ep amph-py
		73.5 - 80.5 - Intense to moderate silicification, mafics altered to brown biotite, then chlorite. Strong irregular veining and blebs of chlorite-amphibite-epidote-pyrite +/- pyrrhotite, trace chalcopyrite, decreasing downward. A few mafic zenoliths at 72.7, 73.2m.	D1972	88	90	2m	0	8	5
			D1973	90	92	2m	0	5	2
		Broken core, many late chlorite-calcite-pyrite veinlets. 75.7 - 2cm fault gouge @ 10° to core.	D1974	92	94	2m	0	7	3
		80.5 - 93.1 - Relatively fresh, weak to moderate silicification, mafics to brown biotite. Many 1 to 2mm glassy quartz veins with MoS_2, a few to 10cm with MoS_2 on margins and as partings. A few chlorite-amphibole-epidote-pyrite veins, late calcite-chlorite-pyrite veinlets.	D1975	94	96	2m	2	6	4
			D1976	96	98	2m	6	8	3
		83.9 - Green silicate veinlet with quartz-biotite envelope @ 35°.	D1977	98	100	2m	9	1	5
		85.0 - 4cm pegmatite dyke @ 45°. 88.6 - 4cm glassy quartz vein at 10°, cut by late veinlet with radiating waterclear crystals (gypsum?), plus pyrite-chlorite-calcite @ 90°.	D1978	100	102	2m	8	0	8
		93.1 - 97.9 - Patchy intense silicification and very fine brown biotite, relict quartz eyes (93.1). Quartz-MoS_2 and chlorite-epidote-amphibole-pyrite veinlets +/- hematite. Abundant late chlorite-calcite-pyrite veinlets,	D1979	102	104	2m	11	0	6

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From m	To m	Description	Sample No.	From m	To m	Length	bio-py	qtz-Mo	chl-ep amph-py
		bleached envelopes. 1 - 2% disseminated pyrite with epidote.	D1980	104	106	2m	11	0	3
		97.9 - 99.8 - Pervasive brown biotite and silicification, Pyrite - coarse biotite veining cut by chlorite-amphibole-epidote-pyrite veinlets, a few blebs of pyrite. Trace chalcopyrite at 98.6, 98.9m. A few late calcite veinlets @ 30°, 70°.	D1981	106	108	2m	6	0	1
99.8	109.4	Quartz Biotite Hornfels							
		Extremely silicified with intense brown biotite, relict feldspar locally. Upper contact @ 40°, foliated for 15cm @ 20°. Irregular patches and veinlets of chlorite-epidote-amphibole-pyrite with minor pyrrhotite and chalcopyrite, 2 or 3-metre (103.5). Earlier biotite-pyrite veinlets with pyrite blebs (106.1).	D1982	108	110	2m	2	0	2
		100.8 - Quartz-pyrite-hematite veinlet @ 25°. 107.5 - Indistinct quartz-biotite-pyrite band parallel to core.	D1983	110	112	2m	3	0	1
		108.7 - 2cm gouge @ 40°. Lower contact gradational, arbitrary.	D1984	112	114	2m	9	0	2
109.4	128.2	Feldspar Porphyry							
		Seriate texture, fine to medium-grained. 45% feldspar phenocrysts, average 1.5mm, 5-10% brown	D1985	114	116	2m	9	0	0

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From m	To m	Description	Sample No.	From m	To m	Length	bio-py	qtz-Mo	chl-ep amph-py
		biotite after mafics, aphanitic matrix, trace	D1986	116	118	2m	7	0	1
		quartz eyes. Usually very strong brown biotite							
		and silicification masking textures. Freshest							
		at 110.1m. Alteration intensity variable over	D1987	118	120	2m	2	0	1
		short intervals. 3-5% disseminated pyrite, to							
		10% locally. Scattered biotite-pyrite veinlets,							
		occasional chlorite-epidote-amphibole-pyrite	D1988	120	122	2m	3	1	1
		veinlets, especially near bottom. Abundant late							
		chlorite-calcite +/- pyrite veinlets with							
		bleached envelopes.							
		116 - 123.5 - Moderate to intense late fractur-	D1989	122	124	2m	9	0	1
		ing at 30°, 70°, 90° with chlorite-calcite-							
		pyrite veinlets.							
		120.5 - 122.0-Vague breccia texture, intense							
		biotite and silicification.	D1990	124	126	2m	11	1	1
		120.3 - 1cm gouge @ 10°.							
		124.5 - Irregular coarse biotite-pyrite veinlets.							
		125.6 - 1cm quartz vein @ 50°, trace pyrite.	D1991	126	128	2m	0	0	0
		125.8 - 1.5cm - 2 quartz veins @ 30°, 60°, trace							
		MoS_2.							
		126.2 - 126.7 - Intensely fractured with gouge	D1992	128	130.3	2.3m	3	0	1
		@ 15°.							
128.2	130.3	Heterogeneous Breccia	D1993	131.8	134	2.2m	1	0	1
		Fragments of feldspar porphyry, early porphyry,							
		tan cherty rocks, dark volcanics. Moderate to							

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From m	To m	Description	Sample No.	From m	To m	Length	bio-py	qtz-Mo early/late	chl-ep amph-py
		strong silicification, 3-5% disseminated pyrite and a few blebs.							
			D1994	134	136	2m	3	0	7
130.3	131.8	Lamprophyre dyke							
		Upper contact @ 45°, top 45°, broken core.							
131.8	137.3	Heterogeneous Breccia (as above)	D1995	136	138	2m	3	1/1	7
		Moderate to strong silicification to 135.5, fragments indistinct, green tinge due to epidote with 5-7% disseminated pyrite. Patchy remnant brown biotite, chlorite-epidote-amphibole-pyrite veinlets.	D1996	138	140	2m	3	>20/6	6
		133.0 - 133.5 - Shattered, gougy, bleached, chloritic. Slicks @ 40°. Lower contact arbitrary in intense silicification.							
137.3	141.3	Early Porphyry	D1997	140	142	2m	3	>20/3	4
		As 17.9 - 28.1 - Possibly large breccia fragment. Remnant quartz eyes to 0.7cm, rounded feldspars to 0-6cm. Extreme silicification, strong fine brown biotite. Strong glassy quartz stockwork with minor MoS_2, cut by scattered later quartz-MoS_2 veinlets with better Mo. Patchy pyrite-pyrrhotite-epidote-chlorite and biotite-pyrite veinlets. A few late calcite veinlets. 0.08% MoS_2.	D1998	142	144	2m	2	0/1	6
			D1999	144	146	2m	0	0/1	2

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From m	To m	Description	Sample No.	From m	To m	Length	bio-py	qtz-Mo	chl-ep amph-py
		138.7 - 1cm quartz vein with patches of fine	D2000	146	148	2m	5	0	5
		grained brown tourmaline @ 35° to core axis.							
141.3	178.4	Heterogeneous Breccia							
		Indistinct fragments of fine grained biotite							
		feldspar porphyry,	D4951	148	150	2m	2	0	5
		quartz latite porphyry. Extremely silicified,							
		matrix appears crystalline (142m). Patchy							
		brown biotite largely in fragments. Up to 10%							
		blebs of pyrite-pyrrhotite-epidote. More in	D4952	150	152	2m	1	0	3
		matrix than fragments, scattered later chlorite-							
		amphibole-epidote-biotite-pyrite veinlets.							
		148.2 - 148.4 - Very biotitic, irregular margins,							
		20% feldspar crystals to 1.5mm - angular, bro-							
		ken - a breccia dyke?	D4953	152	154	2m	3	0	1
		150.4 - 150.9 - Angular silicified porphyry							
		fragments in fine grained biotite matrix, mar-							
		gins ill-defined, 7% pyrite.							
		151.6 - Fractures, gouge @ 25%.	D4954	154	156	2m	2	0	0
		152.1 - 152.7 - Granular biotite-quartz with							
		feldspar remnants, altered margins, abundant							
		pyrite - a fragment?							
		154.3 - 155.2 - Flow textures, streaks, adjac-	D4955	156	158	2m	0	0	1
		ent to and in biotite breccia as 150.4 - 150.9							
		= Very silicified, abundant biotite.							
			D4956	158	160	2m	1	0	1

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From m	To m	Description	Sample No.	From m	To m	Length		qtz-Mo	chl-ep amph-py
		156 - 158, 160.5 - Same flow textures.	D4957	160	162	2m		0	1
		160 - 170.3 - Remains highly silicified breccia							
		with nebulous fragments, patchy brown biotite,							
		apple green overall. 2-3% disseminated pyrite							
		with epidote and chlorite-epidote-amphibole							
		pyrite veinlets, late calcite veinlets.	D4958	162	164	2m		0	2
		165.7 - 165.8 - Intensely fractured @ 30°,							
		0.4m core lost.							
		166.8 - Pale green serpentine(?) and calcite							
		@ 45°.							
		170.3 - 178.5 - Very abruptly begin abundant	D4959	164	166	2m		0	1
		streaks, blebs and disseminations of coarse							
		pyrite, pyrrhotite, magnetite and chalcopyrite							
		with epidote and chlorite, locally garnet.							
		Chalcopyrite generally as wisps or as thin rims							
		between pyrite and pyrrhotite. 10% to locally	D4960	166	168	2m		0	3
		20% sulfides.							
		Chalcopyrite variable, generally lower than							
		80-2. Average 0.5% Cu, locally 2% Cu, best at	D4961	168	170	2m		0	1
		173 - 174.5m. Streaks often elongate nearly							
		parallel to core and at 60° (less so). Chalco-							
		pyrite seems more abundant where pyrrhotite is	D4962	170	172	2m		0	0
		abundant - is gold occurring with pyrrhotite?	D4963	172	174	2m		0	0
		177.0 - Begin streaky flow banding nearly para-							
		llel core.	D4964	174	176	2m		0	0

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From m	To m	Description	Sample No.	From m	To m	Length			qtz-Mo	chl-ep amph-py
178.5	183.6	Rhyolite	D4965	176	178	2m				0
		Very fine grained, tan to pink, flow banded,								
		siliceous rock with grey quartz bands, green								
		bands with actinolite-epidote-pyrite, especi-								
		ally 178.6m. Banding parallel core, grades to								
		silicified, highly fractured pink rhyolite.	D4966	178	180	2m				4
		Moderate to intense chlorite-actinolite-epidote								
		alteration with pyrite. Crackled and healed								
		with chlorite-quartz veinlets. A few quartz								
		MoS_2 veinlets, earlier than pyrite-pyrrhotite								
		(182.6m).	D4967	180	182	2m				5
183.6	217.3	Heterogeneous Breccia	D4968	182	184	2m				7
		183.6 - 191.0 - Fragments indistinct.								
		Strong silicification; disseminated epidote								
		and pyrite. Occasional strong streaks and blebs	D4969	184	186	2m				6
		of pyrite-pyrrhotite-magnetite, minor chalcopy-								
		rite. Many streaks parallel to core - see								
		185.4m. Scattered quartz-MoS_2 veinlets in short	D4970	186	188	2m				6
		rhyolitic intervals - fragments? See 109.2m.								
		Mineralization much weaker - 0.1% Cu.								
		189.7 - 190.1, 190.3 - 190.5, 190.6 - 190.8	D4971	188	190	2m				5
		- Strong fracturing @ 30° with pyrite-pyrrho-								
		tite in coarse blebs and stringers, very abund-								
		ant dark chlorite. Minor chalcopyrite - 0.1% Cu	D4972	190	192	2m				10

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From m	To m	Description	Sample No.	From m	To m	Length	gran. chl-ep act-py	qtz-Mo	chl-ep chl-py
		191.0 - 197.2 - Rock much less fractured, strong silicification, breccia fragments more distinct. 3% disseminated pyrite and pyrrhotite, a few blebs and stringers of pyrite-pyrrhotite, minor chalcopyrite, 0.1% Cu.	D4973	192	194	2m	0	4	0
		197.2 - 201.5 - Very strong pale green silicate alteration with 5% disseminated pyrite and pyrrhotite. Minor chalcopyrite - 0.1% Cu.	D4974	194	196	2m	2	0	4
		201.5 - 217.3 - Moderate to strong silification, fragments of early porphyry, augite porphyry, dark schistose metavolcanics, brown feldspar porphyry. Overall pale green color due to chlorite-actinolite-epidote alteration. Irregularly distributed disseminations, streaks and blebs of pyrite-pyrrhotite-magnetite-chalcopyrite. Copper content variable, average 0.15% Cu. A few later pale green granular quartz-actinolite-chlorite-epidote-pyrite veins. Other chlorite-epidote-amphibole-pyrite veinlets, both may carry pyrrhotite-magnetite +/- chalcopyrite. Late chlorite-calcite-pyrite veinlets.	D4975	196	198	2m	2	0	5
			D4976	198	200	2m	3	0	5
			D4977	200	202	2m	1	0	2
			D4978	202	204	2m	0	0	1
			D4979	204	206	2m	0	0	2
			D4980	206	208	2m	3	0	4
		201.5 - 202.0 - 0.2% Cu.							
		203 - 203.4 - Strong pale green silicate alteration.	D4981	208	210	2m	0	0	2

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From m	To m	Description	Sample No.	From m	To m	Length	gran act-py	chl-ep-py-po cpy	chl-ep amph-py
		206.5 - 207.0 - Strong pale green silicate alteration.	D4982	210	212	2m	3	5	1
		207.5 - 20cm intense silicification, 10% disseminated pyrrhotite and chalcopyrite - 0.5% Cu.							
		211.3 - 211.5 - Augite porphyry fragment, fractured, abundant pyrrhotite and chalcopyrite.	D4983	212	214	2m	2	4	2
		211.0 - Vague veining parallel to core.							
		212 - 217.3 - Many late calcite veinlets @ 80°,							
		pyrite-chlorite veinlets with chloritized margins common @ 10°, 30°. Slight increase in Cu content toward bottom - 0.2% Cu.	D4984	214	216	2m	3	7	6
		217.4 - 1cm pyrite-pyrrhotite vein @ 45°.							
			D4985	216	218	2m	0	2	3
217.3	227.0	Augite Porphyry							
		Augite phenocrysts completely altered to chlorite and actinolite. Rock weakly silicified,							
		well mineralized with streaks, blebs and disseminations of pyrite-pyrrhotite-chalcopyrite, late calcite veinlets at 70° - 80°.	D4986	218	220	2m	1	6	0
		217.3 - 220.8 - Vague breccia texture, moderate silicification. Sulfides associated with	D4987	220	222	2m	0	9	1
		chlorite-actinolite-epidote. Several veinlets @ 30° - 0.5% Cu.							
		218.2 - 20cm intense biotitic alteration,							
		15% sulfides - 1.5% Cu.	D4988	222	224	2m	0	12	0
		220.8 - 227.0 - 10-15% sulfides in blebs,							

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From m	To m	Description	Sample No.	From m	To m	Length	anhyd veins	py-po -cpy	chl-ep amph-py
		streaks, veins associated with coarse dark	D4989	224	226	2m	2	9	0
		brown biotite - irregular replacements along							
		fractures, generally less than 20° to core							
		(221.3), later veinlets of solid chalcopyrite							
		to 3mm @ 30° (223.8) and parallel core (223.4)	D4990	226	228	2m	3	3	0
		1.5% Cu. Occasional anhydrite veins (224.9).							
		221.6 - 221.8 - Vuggy, calcite-epidote-actino-							
		lite crystals.							
		225.6 - Anhydrite-pyrite-pyrrhotite vein with	D4991	228	230	2m	6	4	0
		coarse biotite on margins.							
227.0	229.3	Quartz Biotite Hornfels (siltstone?)							
		Fine grained siliceous, red-brown, bleached	D4992	230	232	2m	2	6	4
		along hairline quartz-chlorite-pyrite +/- pyr-							
		rhotite +/- chalcopyrite veinlets nearly para-							
		llel to core. A few anhydrite veinlets with							
		pyrite and chlorite, parallel core. Contacts at	D4993	232	234	2m	2	8	2
		low angles masked by biotite alteration -							
		0.05% Cu.							
229.3	231.6	Augite Porphyry	D4994	234	236	2m	5	8	0
		As 217.3 - 227.0, one short interval of quartz-							
		biotite hornfels - 1.0% Cu. (2% at 230m).							
231.6	249.7	Heterogeneous Breccia	D4995	236	238	2m	0	8	0
		Coarse angular fragments, especially near top,							

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From m	To m	Description	Sample No.	From m	To m	Length	anhyd veins	py-po -cpy	chl-ep amph-py
		largely augite porphyry and siltstone hornfels	D4996	238	240	2m	1	7	0
		pale green silicate alteration of matrix and							
		strong silification. Style of mineralization							
		same as above, coarse brown biotite envelopes							
		best developed in augite porphyry - largely	D4997	240	242	2m	0	3	0
		chlorite-epidote in other rocks and matrix.							
		Late powdery gypsum veinlets. Abundant gaudy							
		pyrrhotite-chalcopyrite, less pyrite and mag-							
		netite, patchy. Biotitic alteration strong in	D4998	242	244	2m	1	6	0
		augite porphyry and granitic fragments, over-							
		all - 1.5% Cu.							
		239.6 - 241.0 - 3% disseminated chalcopyrite							
		in matrix plus a few irregular veinlets -	D4999	244	246	2m	0	8	0
		2% Cu.							
		241.0 - 242.6 - Augite porphyry (large frag-							
		ment?) upper contact @ 10°, abundant blebs and							
		disseminated sulfides - 2% Cu.	D5000	246	248	2m	1	7	0
		242.6 - 249.7 - Breccia largely hornfelsed							
		siltstone fragments.							
		246.5 - 247.2, 248.3 - 249.0 - Augite porphyry							
		intervals. Mineralization as above but weaker,	D5001	248	250	2m	1	8	0
		less biotite, more chlorite + epidote - 1% Cu.							
		245.8 - Spectacular chalcopyrite-pyrrhotite							
		nearly parallel to core. Veinlets @ 25 - 30°.							

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From m	To m	Description	Sample No.	From m	To m	Length	anhyd veins	py-po -cpy	chl-ep amph-py
249.7	253.8	Hornfelsed Siltstone	D5002	250	252	2m	1	2	3
		Red-brown (biotite), bleached along fractures							
		1-2% disseminated pyrite. 250m - bedding @ 20°.							
		249.7 - 250.5 - Intensely fractures, bleached,							
		silicified, weak pyrrhotite-chalcopyrite -	D5003	252	253.8	1.8m	3	2	0
		0.2% Cu.							
		250.5 - 253.8 - Crackled, abundant hairline							
		chlorite-pyrite veinlets with silicification,							
		@ 20°-30° minor Cu. Abundant late calcite vein-	D5004	255.6	257.1	1.5m	1	3	0
		lets, high angle, irregular.							
253.8	255.6	Lamprophyre Dyke							
		Fresh, coarse, abundant biotite, upper contact							
		20°, lower 30°.	NS	256	258	2m	2	6	0
255.6	257.1	Augite Porphyry							
		(20cm of breccia at top). Slick with serpentine							
		at upper contact. Upper half poorly mineral-							
		ized, lower half intense biotite, several pyr-	D5005	258	260	2m	5	8	0
		rhotite-chalcopyrite veins and disseminations							
		@ 30°, 60° to core, 0.8% Cu.							
257.1	257.8	Lamprophyre Dyke							
		Less coarse than above, a few white spots.	D5006	260	262	2m	5	9	0
		Upper contact @ 20°, lower irregular.							

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From m	To m	Description	Sample No.	From m	To m	Length	c	anhyd veins	py-po cpy	qtz-Mo
257.8	264.9	Heterogeneous Breccia	D5007	262	264	2m		1	6	0
		Fragments generally indistinct due to strong pale green silicate alteration. Strong pyrite-pyrrhotite-chalcopyrite as streaks, blebs and weakly disseminated. Veins and streaks generally at low angles to core. A few later anhydrite veins, often irregular. Youngest are hairline calcite-chlorite veinlets 0.8% Cu.	D5008	264	266	2m		0	5	0
		263.5 - 264.9 - Schistose, strong coarse biotite replacement, coarse disseminated pyrite, trace chalcopyrite. Schistosity parallel core.	D5009	266	268	2m		2	1	1
264.9	291.2	Hornfelsed Siltstone	D5010	268	270	2m		2	7	5
		Brown-pink due to biotite, silicified, bedding not obvious. Moderate late fracturing at 25°, 5°. Quartz-MoS_2 veins at various angles locally abundant with strong silicification (See	D5011	270	272	2m		1	9	5
		269.5 - 270.4, 271.1, 274.5 - 275.2). Erratic later pyrite-pyrrhotite-chalcopyrite as above. Good grades over short intervals (268.5 - 269.0 - 1.7% Cu) generally only hairline veinlets, disseminations and minor blebs, overall - 0.1% Cu.	D5012	272	274	2m		1	1	1
		271.5 - 272.7 - Gouge, 3cm with 1cm gypsum vein.	D5013	274	276	2m		1	2	8

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From m	To m	Description	Sample No.	From m	To m	Length	c	anhyd veins	py-po cpy	qtz-Mo
		277.5 Bedding @ 10° to core.	D5014	276	278	2m		2	3	7
		278.3 - 280.3 - 3 to 5cm wide band of biotite-								
		actinolite-pyrite replacement @ 5°, minor chal-	D5015	278	280	2m		1	4	5
		copyrite and pyrrhotite as blebs and dissemin-								
		ations - 0.3% Cu.	D5016	280	282	2m		2	4	2
		279.1 - 280.3 - Gouge zone with calcite, epi-								
		dote @ 5° to core, badly fractured ground.	D5017	282	284	2m		2	2	3
		281.6 - 283.5 - Badly broken core, late cal-								
		cite gypsum veinlets @ 70°, 50°.	D5018	284	286	2m		1	5	1
		286.2 - 291.1 - Irregular bands and streaks of								
		coarse biotite and chlorite nearly parallel	D5019	286	288	2m		3	2	1
		core. Minor pyrite and pyrrhotite, trace								
		chalcopyrite.	D5020	288	290	2m		0	1	0
		289.7 - 290.0- Granular irregular bands or								
		veins of epidote-actinolite-pyrite @ 45°, 20°.	D5021	290	291.2	1.2m		0	1	0
		291.1 - 3cm gouge @ 30°.								
		291.2 - End of hole.								

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Diamond Drill Record

Location: 9954.3N, 9952.9E			Hole No. 80-5
Azimuth: 135°	Dips - collar -50°	Contractor: Cameron-McCutcheon Drilling	Property: Aylwin Creek
Elevation: -50°	- 60 m -48 °	Logged By: D.C. Durgin	Claim No. Rockland
Length: 137.8m	- 136 m -47 °	Date: October 10 & 11, 1980	Section No. 50 South
Core Size: NQ	- m °		Started: October 6, 1980
Purpose: To test SE extension of main Willa Zone			Completed: October 10, 1980

From m	To m	Description	Sample No.	From m	To m	Length	chl-ep amph-py
0	1.60	Overburden					
		Boulders, gouge, drilled over core, very					
		poor recovery.					
		12.5 - 16 - limonitic gouge, one plane @					
		20° to core, largely quartz latite por-					
		phyry and black biotitic breccia.					
16.0	20.1	Heterogeneous Breccia	D 5047	16	18	2m	3
		Rounded fragments generally less than 4cm.					
		Quartz latite porphyry, biotitic volcanics,					
		augite porphyry, cherty ones. 5% pyrite as	D 5048	18	20	2m	4
		disseminations and blebs with epidote.					
20.1	21.1	Lamprophyre dyke					
		Upper contact @ 45°, lower in broken core.	D5049	20	22	2m	4
21.1	23.7	Feldspar Porphyry					
		Crowded feldspar phenocrysts to 4mm,					
		average 2.5mm. Mafics gone to pyrite +	D5050	22	24	2m	6
		chlorite. Up to 7% pyrite + magnetite					
		as disseminations, blebs and veinlets with					
		epidote and chlorite. Strongly silicif-					
		ied, trace chalcopyrite. Late chlorite-					

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From m	To m	Description	Sample No.	From m	To m	Length			chl-ep amph-py
		pyrite veinlets.	D5051	24	26	2m			2
23.7	26.7	Heterogeneous Breccia							
		Largely augite porphyry fragments upper,							
		feldspar porphyry lower. Strong chlor-	D5052	26	28	2m			5
		itization, fragments indistinct. Pyrite-							
		epidote blebs, disseminations, a few vein-							
		lets. A few late calcite veinlets @ 20°	D 5053	28	30	2m			0
		to core.							
26.7	30.2	Feldspar Porphyry							
		As 21.1 - 23.7. Strong silicification.	D5054	30	32	2m			1
		3% disseminated pyrite with epidote +							
		chlorite. Abundant chlorite-pyrite-							
		magnetite hairline veinlets.	D5055	32	34	2m			2
30.2	41.2	Tuff Breccia							
		25% silicificed fragments of a feldspar							
		porphyry to 5cm, generally 2cm, or less,	D5056	34	36	2m			4
		in biotitic matrix with 10% coarse augite							
		phenocrysts to 5mm altered to pale green							
		actinolite. Weak schistosity at 70° to	D5057	36	38	2m			3
		core axis. Rhyolitic matrix moderately							
		chloritized. 3% disseminated pyrite and							
		a few blebs with epidote. A few late	D5058	38	40	2m			4
		calcite veinlets. Fracture sets at 20°,							
		45°, 70°. Limonite on fractures. A few							
		chlorite-epidote-actinolite +/- pyrite	D5059	40	42	2m			3
		veinlets. Odd rock - an augite porphyry							

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From m	To m	Description	Sample No.	From m	To m	Length	grain chl-ep act-py	qtz-Mo	chl-ep amph-py
		tuff.							
		39.0 - 39.4 - Silicified prophyry as	D5060	42	44	2m	-	-	2
		below. Lower contact in broken core,							
		altered.	D5061	44	46	2m	-	-	4
41.2	47.8	Early Porphyry							
		Intensely silicified, mafics destroyed,	D5062	46	48	2m	5	-	3
		feldspars indistinct, relict quartz eyes							
		rarely. @ 43.4m coarse seriate texture	D5063	48	50	2m	12	-	6
		and quartz eyes obvious. Minor pink-							
		brown biotite.	D5064	50	52	2m	4	-	4
		41.2 - 44.5 - Feldspars obvious. 3-4%							
		pyrite disseminated and in a few blebs	D5065	52	54	2m	5	-	5
		with black chlorite.							
		44.5 - 47.8 - Feldspars indistinct,	D5066	54	56	2m	3	-	5
		granular texture. Abundant brown biotite							
		in hairline veinlets with pyrite and	D5067	56	58	2m	1	-	7
		patches with pyrite-pyrrhotite, minor							
		chalcopyrite, less than 0.1% Cu. A few	D5068	58	60	2m	1	-	6
		chlorite-epidote-actinolite granular							
		veinlets toward end.	D5069	60	62	2m	1	1	10
47.8	59.7	Heterogeneous Breccia							
		Normal breccia. Fragments to 10cm of							
		early prophyry, augite porphyry, fine							
		feldspar porphyry (57.4m) (57.6m) (54.1m),							
		black metavolcanics, light cherty silt-							
		stone. Fragmental matrix with pale green							

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From m	To m	Description	Sample No.	From m	To m	Length	qtz-Mo	chl-ep amph-py
		actinolite-epidote-chlorite-pyrite						
		alteration. 5-7% pyrite as dissemina-						
		tions, blebs, streaks. Trace pyrrhotite,						
		minor magnetite, no chalcopyrite seen.	D5070	62	64	2m	1	4
		Chlorite-epidote-amphibole-pyrite veinlets						
		and granular pale green actinolite-epidote-						
		chlorite-pyrite veinlets common.	D5071	64	66	2m	2	4
		52.0 - 53.0 - 0.7m core lost.						
		53.7 - White pegmatitic vein at 40°.						
		Scattered late chlorite-pyrite veinlets.	D5072	66	68	2m	0	3
		A few very late calcite veinlets at 5-10°						
		to core.						
59.7	66.2	Feldspar Porphyry	D5073	68	70	2m	1	5
		Seriate texture, 35% feldspars to 3mm,						
		average 1.5mm, no quartz phenocrysts.						
		Chlorite after minor hornblende, grey						
		aphanitic matrix. Feldspars milky,						
		locally pale green, soft. 3-5% dis-						
		seminated pyrite with epidote. A few						
		early quartz veinlets, trace MoS_2.						
		Hairline chlorite-epidote-pyrite veinlets						
		abundant. Scattered small pyrite-epidote						
		blebs. Silicified lower 2 metres.						
66.3	67.4	Heterogeneous Breccia						
		Fragments largely feldspar porphyry and						
		brown siltstone. 5% pyrite as dissemin-						

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From m	To m	Description	Sample No.	From m	To m	Length			qtz-Mo	chl-ep amph-py
		ations, blebs, streaks with chlorite								
		and epidote. Granular quartz vein 10cm								
		wide with patches of chlorite and pyrite @								
		20° -67m.	D5074	70	72	2m			0	1
67.4	68.8	Feldspar Porphyry								
		As 59.7 - 66.2 lower half intensely sili-								
		cified, little mineralization.								
		68.5 - Gouge, 10cm @ 80° to core.	D5075	72	74	2m			0	2
68.8	70.5	Heterogeneous Breccia								
		Feldspar porphyry fragments, green met-								
		avolcanics. 7-10% pyrite, trace chalcopy-								
		rite, with chlorite-epidote. Intense	D5076	74	76	2m			0	2
		silicification.								
70.5	74.0	Feldspar Porphyry								
		As 59.7 - 66.7, a bit more coarse,								
		fractured, kaolinized. Strong fracture	D5077	76	78	2m			0	3
		set @ 40° to core with chlorite, slicks.								
74.0	75.4	Lamprophyre Dyke								
		Upper contact in broken core, lower at								
		80°, as 68.8 - 70.5.	D5078	78	80	2m			0	0
76.2	82.9	Feldspar Porphyry								
		35% feldspar crystals to 6mm, most less								
		than 2mm, trace quartz phenocrysts, 5%								
		disseminated biotite (?) replaced by pyrite-	D5079	80	82	2m			0	8
		chlorite-epidote. Aphanitic grey matrix.								
		Feldspars soft, slightly green, occasionally								

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From m	To m	Description	Sample No.	From m	To m	Lenght	qtz-Mo	chl-ep amph-py
		just green waxy pseudomorphs. Patchy						
		silicification. Abundant hairline vein-	D5080	82	84	2m	0	3
		lets of pyrite-chlorite @ 60°, 30°. A						
		few late calcite veinlets. 7% total						
		sulphides.	D5081	84	86	3m	0	6
82.9	84.0	Lamprophyre dyke						
		Upper contact 45°, lower 60°, fresh.						
84.0	133.7	Feldspar Porphyry	D5082	86	88	2m	0	4
		As 76.2 - 82.9, strongly altered, silici-						
		fied, fractured.						
		84.0 - 93.0 - Disseminated pyrite with	D5083	88	90	2m	0	2
		epidote, a few blebs and veinlets with						
		chlorite. Pale green color, some green						
		waxy feldspar pseudomorphs. Increasing	D5084	90	92	2m	0	1
		silicification and coarse pyrite toward						
		bottom. Late calcite veinlets.						
		88.8 - Coarse pyrite-silicification band,	D5085	92	94	2m	0	0
		3cm @ 50°.						
		89.9 - 90.0 - Intense silicification,						
		coarse pyrite.	D5086	94	96	3m	0	0
		93 - 94.5 - Intense silicification. 10%						
		disseminated pyrite, trace chalcopyrite.						
		Strongly fractured at end.	D5087	96	98	2m	0	
		94.5 - 100.8 - Strong dark green alter-						
		ation, intense fracturing, local silicif-						
		ication. Relict feldspars locally. May	D5088	98	100	2m	0	

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From m	To m	Description	Sample No.	From m	To m	Length		qtz-Mo	chl-ep amph-py
		not be feldspar porphyry.	D5089	100	102	2m		2	2
		93.6 - Trace chalcopyrite.							
		96.9 - 97.7 - Gouge at 35° to core.							
		97.9 - 98.8 - More siliceous, intensely	D5090	102	104	2m		0	0
		shattered.							
		100.8 - 101.3 - Odd granular dyke largely							
		quartz with chlorite streaks, patches of	D5091	104	106	2m		3	0
		pyrite @ 10°.							
		101.3 - 114.3 - Strong silicification,							
		moderate to strong late fracturing with	D5092	106	108	2m		19	0
		calcite and clays. Grey colour, 1% dis-							
		seminated pyrite, minor biotite. Late							
		fracture sets 60°, 30°. Weak quartz-	D5093	108	110	2m		8	0
		MoS_2 veining locally.							
		105.3 - 105.7 - Gougy zone @ 15°.							
		105.7 - abundant quartz-MoS_2 veinlets,	D5094	110	112	2m		2	0
		some with pyrite, often at 45° - 0.05% MoS_2.							
		114.3 - 133.7 - Intense silicification,							
		moderate brown biotite. Good quartz	D5095	112	114	2m		5	1
		stockwork with weak MoS_2 veins in all							
		directions. Later quartz-MoS_2 vein set							
		at 30° to core - sparse. A few 4cm quartz	D5096	114	116	2m		11	2
		veins with coarse pyrite (124.8m) @ 65°.							
		Later MoS_2 set has pyrite. Strong to							
		intense argillic alteration associated with	D5097	116	118	2m		13	1
		strong to intense late fracturing with							

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From m	To m	Description	Sample No.	From m	To m	Length	qtz-Mo early/late	chl-ep amph-py
		calcite. A few quartz eyes (129.2m).						
		Several gouge zones.						
		117.4 - Some argillic alteration around	D5098	118	120	2m	>25/3	0
		quartz - MoS_2 veins.						
		117.9 - 3cm gouge @ 50° to core.	D5099	120	122	2m	>25/8	0
		120.4 - 2cm gouge @ 60° to core.						
		122.6 - 122.9 - 4cm gouge at 10°.	D5100	122	124	2m	>25/6	0
		123.8 - Gouge at 50°.						
		125.2 - 1cm gouge @ 5° to core axis.	D5101	124	126	2m	>25/4	0
		131.0 - 131.4 - Gouge - slicks @ 30°.						
		132.0 - 132.5 - Gouge - slicks @ 20°.	D5102	126	128	2m	>25/3	0
		130.4 - 0.8cm pyrite-quartz vein @ 80°,						
		lower contact in broken core at 30°?	D5103	128	130	2m	>25/3	0
		114.3 - 133.7 - 0.02% MoS_2.						
133.7	137.8	Heterogeneous Breccia	D5104	130	132	2m	>25/1	0
		Feldspar porphyry, black metavolcanic,						
		green chloritic fragments, many feldspar	D5105	132	134	2m	10/1	4
		fragments in matrix. Moderate chlorite-						
		epidote-amphibole alteration, minor	D5106	134	136	2m	0	4
		disseminated pyrite. A few barren quartz						
		veins.	D5107	136	137.8	1.8m	0	5
		135.1 - 2cm pink pegmatite vein with						
		spots of chlorite and coarse pyrite @ 20°.						
		137.8 - End of Hole.						

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Diamond Drill Record

Location: 9993.9N, 9992.1E			Hole No. 80-6
Azimuth: 135°	Dips - collar -50°	Contractor: Cameron-McCutcheon Drilling	Property: Aylwin Creek
Elevation: 1250.2m	- 75m -48°	Logged By: D.C. Durgin	Claim No. Rockland
Length: 210.3m	- 150m -47°	Date: Oct. 11-16, 1980	Section No. 00
Core Size: NQ	- 210m -45°		Started: October 10, 1980
Purpose: To test northerly continuing, strike, and grade of 80-2 mineralization			Completed: October 14, 1980

From m	To m	Description	Sample No.	From m	To m	Length	Chl-ep amph-py
0	3.7m	Overburden -					
		Drilled over core, largely heterogeneous					
		breccia					
3.7	100.9m	Heterogeneous Breccia	D5108	3.7	6m	2.3m	2
		Coarse, fragments to 15cm, generally less than					
		8cm, composed of feldspar porphyry (most),					
		brown biotitic metavolcanics, cherty silt-	D5109	6	8	2m	0
		stone, other porphyries, a few early porphy-					
		ry, a few augite porphyry. Larger ones rounded,					
		smaller angular. 70% fragments.	D5110	8	10	2m	3
		3.7 - 13.6 - matrix altered - pale green					
		actinolite-epidote-chlorite, fragments distinct.					
		2-3% pyrite as disseminations, blebs, streaks,	D5111	10	12	2m	1
		a very few veinlets with epidote-chlorite-					
		actinolite. Minor magnetite with pyrite.					
		A few later chlorite-pyrite hairline veinlets.	D5112	12	14	2m	3
		5.7 - 6.4 - white pegmatitic dyke, minor					
		pyrite & chlorite, @ 45° upper, 5° lower.					
		13.6 - 24.9 - matrix gradually becomes very	D5113	14	16	2m	0
		dark, nearly black, same fragments as above					

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From m	To m	Description	Sample No.	From m	To m	Length	py-cpy-po	gran act-ep chl-py	chl-ep amph-py
		except more augite porphyry, dark metavolcanics.							
		4-5% pyrite, largely disseminated, especially							
		in augite porphyry fragments.							
		Trace chalcopyrite, no veining except chlorite.	D5114	16	18	2m		0	0
		18.6m - 40cm amphibolite fragment.							
			D5115	18	20	2m		0	0
		23.0 - 23.6 - large augite porphyry fragment.	D1516	20	22	2m		0	0
		21.8 - pegmatitic white irregular vein with							
		patches of pyrite with minor epidote and	D1517	22	24	2m		0	1
		chlorite @ 10° to core.							
		24.9 - 29.1 - normal breccia. Up to 7% sul-	D1518	24	26	2m		3	0
		fides, usually 3%, abundant blebs of pyrite-							
		chlorite. Several large irregular "veins" of							
		granular actinolite-epidote-chlorite-pyrite							
		at about 25° to core - more an alteration	D1519	26	28	2m		2	4
		band than a true vein (26m). 0.25% Cu.							
		29.1 - 39.8 normal breccia. Only moderate	D1920	28	30	2m		3	9
		disseminated sulfides and a few blebs and							
		streaks. 2-3% sulfides, largely pyrite, minor							
		pyrrhotite-chalcopyrite. Blebs largely pyrite	D1521	30	32	2m		9	7
		with magnetite. Hairline chlorite-pyrite +/-							
		epidote veinlets common. A few calcite vein-							
		lets. 0.15% Cu.	D1522	32	34	2m		4	6

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From m	To m	Description	Sample No.	From m	To m	Length		py-cpy -po	gran act-ep chl-py	chl-ep amph-py
		36.2, 36.8 - 1cm calcite-gypsum vein @ 30°.								
		35.4, 38.1, 38.6 - blebs of pyrite-pyrrhotite	D1523	34	36	2m	1	3	3	5
		magnetite chalcopyrite.								
		35.7 - 39.8 -disseminated blebs pyrrhotite								
		+ minor chalcopyrite. Abundant siltstone frag-	D1524	36	38	2m	5	0.5	3	7
		ments, biotite.								
		39.8 - 46.0 - normal breccia. Abundant streaks	D1525	38	40	2m	5	8	5	3
		and blebs of coarse pyrite-pyrrhotite-chalcopy-								
		rite. 7% sulfides associated with epidote and	D1526	40	42	2m		11	4	4
		dark chlorite alteration. Streaks @ 20°, 30°,								
		45° to core. Several granular actinolite-epi-	D1527	42	44	2m		11	6	4
		dote-chlorite veinlets. 42.2 - 42.6 - 30cm								
		core lost.	D1528	44	46	2m		12	1	8
		46.0 - 53.2 - normal breccia. Moderate to	D5129	46	48	2m		2	2	11
		strong pale green silicate alteration (actino-								
		lite-epidote-chlorite) with silicification.								
		Several large augite porphyry fragments, only								
		a few blebs of pyrite-pyrrhotite-magnetite,	D5130	48	50	2m		3	1	7
		minor chalcopyrite. 1% disseminated pyrite,								
		3% sulfides overall.								
		46.3 - 48 - strongly fractured, several vuggy								
		actinolite-epidote-chlorite-pyrite veinlets.	D5131	50	52	2m		1	1	4
		85.7 - minor garnet. 0.1% Cu.								

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From m	To m	Description	Sample No.	From m	To m	Length	py-cpy po	gran act-ep chl-py	chl-ep amph-py
		53.2 - 58.7 - normal breccia. Weak green sili-	D5132	52	54	2m	6	6	5
		cate alteration, moderate brown biotite, brown							
		colour. 3-5% sulfides, locally abundant blebs	D5133	54	56	2m	5	2	9
		and streaks of pyrite-pyrrhotite-chalcopyrite							
		(53.4, 56.3m), disseminated also. 0.4% Cu.	D5134	56	58	2m	5	1	6
		58.7 - 67.3 - general greenish tinge due to	D5135	58	60	2m	5	2	6
		moderate actinolite-epidote-chlorite-pyrite							
		alteration. Scattered small pyrite-pyrrhotite-							
		chalcopyrite blebs. A few vuggy spots with							
		epidote + pyrite crystals. 3% sulfides, some							
		streaks subparallel to core, often @ 30°. 0.2%							
		Cu. Chlorite + calcite on later fractures.	D5136	60	62	2m	5	1	5
			D5137	62	64	2m	8	4	11
			D5138	64	66	2m	5	4	8
		67.3 - 72.0 - same breccia, decreasing green	D5139	66	68	2m	4	2	5
		silicate alteration, increasing brown biotite							
		and silicification. Fragments still obvious.	D5140	68	70	2m	3	2	5
		Increasing disseminated pyrite & pyrrhotite,							
		5% sulfides. Sulfide blebs and streaks scatter-							
		ed with patchy chalcopyrite associated with							

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From m	To m	Description	Sample No.	From m	To m	Length	py-cpy -po	gran act-ep chl-py	chl-ep amph-py
		pyrrhotite. 0.2% Cu.	D5141	70	72	2m	7	1	4
		71.0 - 1cm vuggy quartz vein with coarse acti-							
		nolite-epidote-pyrite.	D5142	72	74	2m	2	2	9
		71.1 - 15cm early porphyry fragment with sev-							
		eral qtz-MoS_2 veinlets.	D5143	74	76	2m	1	1	4
		72.0 - 80.1 - Strong silicification, moderate							
		brown biotite, very little veining fragments							
		indistinct. 5-7% sulfides as patchy dissemina-	D5144	76	78	2m	1	0	5
		tions, abundant pyrrhotite-chalcopyrite-less							
		pyrite. A few blebs and streaks. Later chlor-							
		ite-pyrite hairline veinlets. 0.2% Cu.	D5145	78	80	2m	2	0	8
		80.1 - 87.2 - normal breccia texture. Silici-	D5146	80	82	2m	5	0	6
		fied, several bands and streaks of very strong							
		coarse brown biotite-alteration bands with 5%							
		disseminated pyrrhotite and chalcopyrite.							
		See 82.2m. Also color due to abundant brown	D5147	82	84	2m	8	0	7
		biotite-altered fragments. Several chalcopy-							
		rite-pyrrhotite replacement blebs to 2 cm.							
		0.5% Cu.	D5148	84	86	2m	2	0	8
		87.2 - 100.9 - normal breccia. Silicified,	D5149	86	88	2m	4	0	14
		abundant disseminated epidote. Siltstone frag-							
		ments, early porphyry, feldspar porphyry,							
		a few augite porphyry. Strong pale green sili-							
		cate alteration, veining. Locally vuggy with	D5150	88	90	2m	2	0	12

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From m	To m	Description	Sample No.	From m	To m	Length	py-cpy -po	gran act-ep chl-py	chl-ep amph-py
		epidote + pyrite. 7% sulfides - ½ disseminated,							
		½ as streaks, blebs, and veinlets. Strongly							
		fractured at 10°, 70°, 35°. 0.3% Cu.	D5151	90	92	2m	5	3	8
		Late chlorite-calcite-pyrite hairline veinlets							
		95.4 - 96.3 - 0.7m core lost.	D5152	92	94	2m	4	3	5
		98.1 - 98.8 - Intensely factured. Many vuggy							
		chlorite-epidote-actinolite-pyrite veinlets,							
		a few late calcite veinlets @ 30°, 70°, 10°.	D5153	94	96	2m	1	1	10
		Lower contact obscured by alteration.							
			D5154	96	98	2m	0	2	15
			D5155	98	100	2m	1	2	25
100.9	116.5	Quartz Latite Porphyry (?)	D5156	100	102	2m	1	2	18
		Highly altered - ghostly feldspar phenocrysts							
		to 2mm, average 1mm, 2% round quartz pheno-							
		crysts to 3mm, generally 1.5mm. Silicified,	D5157	102	104	2m	1	1	17
		weak sericite, strong later green silicate							
		alteration - 3% disseminated epidote. Intense							
		early chlorite-pyrite veining, cut by later	D5158	104	106	2m	1	0	19
		irregular coarse, vuggy chlorite epidote-acti-							
		nolite-pyrite veinlets. A few associated blebs							
		of pyrite-magnetite +/- pyrrhotite +/- chaco-	D5159	106	108	2m	1	0	19
		pyrite. Latest are a few powdery gypsum vein-							
		lets. <0.1% Cu.							

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From m	To m	Description	Sample No.	From m	To m	Length	py-cpy -po	gran act-ep chl-py	chl-ep amph-py
		111 - 111.6 - 40cm core lost.	D5160	108	110	2m	0	0	15
		112 - 113.8 - pink brown color due to secondary							
		biotite, porphyry texture more apparent.							
			D5161	110	112	2m	0	1	11
			D5162	112	114	2m	1	2	19
		114.5 - begin seeing vague breccia texture.	D5163	114	116	2m	0	1	16
116.5	127.5	Heterogeneous Breccia	D5164	116	118	2m	0	1	11
		Early porphyry fragments most common, to 30cm.							
		A few augite porphyry and cherty fragments.							
		Increasing feldspar porphyry fragments towards							
		bottom. Moderate silicification, strong epi-	D5165	118	120	2m	0	0	9
		dote-actinotite-pyrite veinlets. Trace chalco-							
		pyrite, a few scattered blebs of pyrite-pyrrho-	D5166	120	122	2m	1	1	8
		tite, minor chalcopyrite. 127 - 127.5 - Frag-							
		ments 4cm or less, more matrix, matrix very							
		chloritic.0.1% Cu.	D5167	122	124	2m	0	0	8
			D5168	124	126	2m	1	0	5
127.5	135.4	Feldspar Porphyry	D5169	126	128	2m	1	0	4
		30% subrounded feldspar phenocrysts to 3mm,							
		generally less than 2mm, seriate texture. No							
		quartz seen, 5% biotite after hornblende.							
		Strong pale brown biotite alteration and sili-	D5170	128	130	2m	0	0	10
		fication.							

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Page No. 8

From m	To m	Description	Sample No.	From m	To m	Length	py-cpy -po	gran ant-ep chl-py	chl-ep amph-py
		127.5 - 128.1 breccia fragments all feldspar							
		porphyry, matrix strongly biotite altered.							
		128.7 - 129.9, 130.7, 133.0 - same	D5171	130	132	2m	1	0	6
		Superimposed on this - patchy epidote-chlorite-							
		pyrite alteration. Pyrite-chlorite veinlets,							
		cut by epidote-actinolite-chlorite-pyrite +/-	D5172	132	134	2m	0	0	13
		pyrrhotite +/- chalcopyrite. Bleached adjacent							
		to these veinlets. 3% disseminated pyrite,							
		minor pyrrhotite-chalcopyrite - 0.1% Cu.							
135.4	137.0	Lamprophyre Dyke	D5173	134	136	2m	0	0	6
		Upper contact @ 30°, lower in broken core.							
137.0	144.6	Feldspar Porphyry	D5174	136	138	2m	0	0	6
		(as 127.5 - 135.4)							
		137.0 - 141.2 - brown biotite alteration							
		largely destroyed by green silicate alteration	D5175	138	140	2m	0	0	6
		mineralization as above. 0.1% Cu. Upper metre-							
		intense late fracturing @ 30°, 70°.							
		141.2 - 144.6 - abrupt change to intense epi-	D5176	140	142	2m	0	0	15
		dote-actinolite-chlorite alteration. Intricate							
		network of irregular streaks and patches of							
		alteration, 7% fine disseminated pyrite-							
		pyrrhotite-chalcopyrite. Possibly highly alter-	D5177	142	144	2m	1	0	20
		ed homogeneous breccia. Lower contact ~30°.							

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From m	To m	Description	Sample No.	From m	To m	Length	Bio-py -cpy	gran act-ep chl-py	chl-ep amph-py
		Many chlorite-epidote-pyrite veinlets +/- chal-							
		copyrite. 0.25% Cu.							
144.6	146.6	Quartz Latite Porphyry	D5178	144	146	2m	1	0	7
		Rare quartz eyes to 3mm. 40% slightly rounded							
		feldspars average 2mm, a few to 4mm, in grey							
		aphanitic matrix. Mafics destroyed - replaced	D5179	146	148	2m	3	0	21
		by biotite-pyrrhotite-chalcopyrite. Pale red-							
		brown colour due to very fine biotite. Silici-							
		fication and biotite strongest at upper con-	D5180	148	150	2m	3	1	<25
		tact. A few chlorite-epidote-pyrite veinlets.							
		0.1% Cu.							
		2 tiny quartz-MoS_2 veinlets. A few pyrite-							
		coarse biotite veinlets.	D5181	150	152	2m	5	0	<25
146.6	175.1	Siltstone	D5182	152	154	2m	3	0	23
		Grey-green to locally pale red-brown due to							
		pervasive moderate epidote-chlorite, and local							
		biotitic alteration. Bedding poorly preserved,							
		appears 5-15° to core. Coarse brown biotite	D5183	154	156	2m	1	1	25
		streaks parallel to bedding may be replacement							
		of beds. Local brecciation, probably tectonic,							
		early. A few short tuff-breccia intervals.							
		3-5% sulfides. Veining sequence:	D5184	156	158	2m	2	0	25
		(1) early dark chlorite +/- pyrite							
		(2) quartz-MoS_2 veinlets - very rare							

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From m	To m	Description	Sample No.	From m	To m	Length	bio-py cpy	gran act-ep chl-py	chl-ep amph-py
		(3) chlorite-epidote-actinolite-pyrite							
		+/- chalcopyrite							
		(4) brown biotite-pyrite-chalcopyrite	D 5185	158	160	2m	1	1	<25
		+/- pyrrhotie							
		(5) gypsum							
		(6) calcite- very late	D5186	160	162	2m	2	0	<25
		146.6 - 149.2 - intensely fractured, many							
		vuggy epidote-chlorite-actinolite pyrite	D5187	162	164	2m	4	0	<25
		veinlets. Tuffaceous in part. 0.1% Cu.							
		152 - pyrrohotite-chotite-chalcopyrite vein-							
		let.	D5188	164	166	2m	2	0	22
		154.4 - 155.5 - tuffaceous, common vein							
		directions 30° + nearly parallel core.							
		161 - 162 - coarse biotite band parallel to	D5189	166	168	2m	1	0	<25
		core, sulfides more abundant where vein-							
		lets cut the biotitic parts.							
		146.6 - 154 - 0.2% Cu.	D5190	168	170	2m	0	0	<25
		154 - 165 - 0.1% Cu.							
		165.4 - 165.9 - very odd augite porphyry	D5191	170	172	2m			
		dyke or fragmental interval.							
		165 - 175 - more abundant sulfides, large-							
		ly disseminated pyrite, a few blebs and	D5192	172	174	2m	1	4	<25
		streaks, 5.7% sulfies. 0.2% Cu.							

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From m	To m	Description	Sample No.	From m	To m	Length	anhyd veins	gran act-ep chl-py	chl-ep amph-py
175.1	188.0	Altered Tuff	D5193	174	176	2m	0	1	25
		Spotted (augite phenocrysts?) tuffaceous inter-							
		val, brecciated locally, still green siltstone							
		in part. Strong actinolite-epidote-chlorite							
		alteration. Mottled, streaky, spotted textures.							
		Fragments not distinct except locally. 5% sul-	D5194	176	178	2m	1	1	19
		fides, largely pyrite, minor chalcopyrite, mag-							
		netite, pyrrhotite; mostly disseminated, a few							
		replacement blebs and streaks. A few anhydrite							
		veins, weak chlorite-actinolite-epidote-pyrite							
		veining; 0.1% Cu.	D5195	178	180	2m	1	6	14
		Several granular actinolite-epidote-chlorite-							
		pyrite veins nearly parallel core.							
		180.3 - 4 cm quartz vein with garnet-pyrite-							
		magnetite-magnetite-chalcopyrite @ 20° to core	D5196	180	182	2m	2	5	20
		184.2 - 2mm MoS_2 veinlet (no quartz) @ 30°.							
		184.9 - 1cm lavendar anhydrite vein with	D5197	182	184	2m	3	6	21
		coarse MoS_2, pyrite at 30°.							
		188 - 2 anhydrite veins - (1cm + 2cm) with	D5198	184	186	2m	3	7	13
		coarse MoS_2 @ 30°.							
			D5199	186	188	2m			
188.0	193.4	Siltstone	D5200	188	190	2m	3	4	6
		Grey-green, dense, fine grained, dark brown							

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From m	To m	Description	Sample No.	From m	To m	Length	anhyd veins	gran act-ep chl-ep	chl-ep amph-py
		with coarse biotite bands (more mafic beds?).							
		Bedding obscured (less than 20° to core?) by							
		moderate to strong epidote-chlorite-actino-	D5201	190	192	2m	0	11	15
		lite alteration and veining. Vein sequence as							
		above. A few tiny MoS_2 veinlets, late anhy-							
		drite veinlets, very minor chalcopyrite,							
		0.1% Cu.	D5202	192	194	2m	1	12	12
193.4	197.5	Augite porphyry	D5203	194	196	2m	1	10	12
		Contacts obscured by alteration. Augite altered							
		to chlorite-actinolite, patchy coarse biotite							
		in matrix. 7% disseminated sulfides, largely							
		pyrite, minor pyrrhotite, trace chalcopyrite.							
		Many granular actinolite-epidote-chlorite-							
		pyrite veins, a few gypsum ones. 0.1% Cu. Late	D5204	196	198	2m	0	4	10
		gypsum on fractures.							
197.5	207.5	Siltstone	D5205	198	200	2m	0	7	14
		as 188 - 193.4							
		Several short augite porphyry intervals -	D5206	200	202	2m	0	6	13
		(199.4 - 20cm, 201.9 - 20 cm, 204 - 20cm).							
		Contacts irregular @ about 30°. Veining as	D5207	202	204	2m	0	2	15
		above. 3% sulfides.							
		200.9 - 5mm pyrite vein with minor chalcopy-	D5208	204	206	2m			
		rite; no anhydrite, no sulfide streaks <0.1%							
		Cu. 205.1 - 3mm pyrite veinlet with chalcopyrite.							

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From m	To m	Description	Sample No.	From m	To m	Length	anhyd veins	gran act-ep chl-py	chl-ep amph-py
207.5	210.3	Augite Porphyry	D5209	206	208	2m	0	2	25
		as 193.4 - 197.5							
		A few chlorite-epidote-pyrite veinlets, granular actinolite-epidote-chlorite-pyrite veinlets, late calcite veinlets. Trace Cu.							
			D5210	208	210	2m	0	4	16
		208.3 pyrite-magnetite - trace chalcopyrite vein @ 15°.							
		210.3m - End of hole.							

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Diamond Drill Record

Location: 10,022.3N, 10,018.8E			Hole No. 80-7
Azimuth: 135°	Dips - collar -50°	Contractor: Cameron-McCutcheon Drilling	Property: Aylwin Creek
Elevation: 1250m	- 80 m 48°	Logged By: D.C. Durgin	Claim No. Rockland
Length: 180.8m	-130 m 47°	Date: October 18-21, 1980	Section No. 50 North
Core Size: NQ	-180 m 46°		Started: October 15, 1980
Purpose: To test continuity, grade and strike of mineralization in 80-2.			Completed: October 19, 1980

From m	To m	Description	Sample No.	From m	To m	Length	vuggy amph-py	py-po -cpy	chl-ep amph-py
0	6.4	Overburden	D 5211	6.4	8	1.6m	-	3	8
		Quartz latite porphyry augite porphyry,							
		Nelson quartz monzonite boulders.	D 5212	8	10	2m	-	12	10
6.4	58.6	Heterogeneous Breccia	D 5213	10	12	2m	-	5	6
		Coarse, largest 20cm, average 8cm.							
		Early porphyry, feldspar porphyry,	D 5214	12	14	2m	-	4	5
		augite porphyry, dark schistose met-							
		avolcanics, a few cherty siltstone	D 5215	14	16	2m	-	4	13
		fragments. Matrix fine grained - rock							
		flour? Moderate silicification, moder-	D 5216	16	18	2m	-	4	7
		ate actinolite-epidote-chlorite-pyrite							
		alteration and veining, chlorite nearly	D 5217	18	20	2m	-	2	11
		black.							
		6.4 - 19.0 - 5% pyrite-chalcopyrite-	D 5218	20	22	2m	2	1	5
		magnetite as blebs, streaks, dissemin-							
		ations as replacements in matrix and	D 5219	22	24	2m	12	1	3
		more mafic fragmetns. Often outlines							
		fragments (see 9.0m). Good Cu, not	D 5220	24	26	2m	10	2	4

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Diamond Drill Record

Hole No. 80-7

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From m	To m	Description	Sample No.	From m	To m	Length	vuggy amph-py	py-po -cpy	chl-ep amph-py
		19.0 -22.5 - 3% sulfides as above,	D 5221	26	28	2m	18	2	3
		less chalcopyrite, a bit more pyrrho-							
		tite. 0.3% Cu. Several dark green							
		amphibole veinlets w/pyrite-quartz-	D 5222	28	30	2m	17	1	2
		epidote occasionally vuggy. At 30°							
		and nearly parallel to core.							
		22.5-33.6 - same silicified breccia,	D 5223	30	32	2m	17	0	3
		several augite porphyry fragments to							
		20cm. Patchy abundant dark green							
		amphibole-pyrite veinlets, often	D 5224	32	34	2m	2	3	2
		irregular, vuggy, especially between							
		fragments. Open breccia appearance							
		locally (26.9, 27.3m, 26.6m). Some	D 5224	34	36	2m	0	16	0
		chalcopyrite also. 7% total sulfides							
		(3% disseminated, 4% as veinlets),							
		0.7% Cu. Strongly silicified. Bleach-	D 5226	36	38	2m	3	7	0
		ed rims (1cm) on mafic fragments.							
		33.6-38.4 - abrupt but gradational							
		change - very strong pervasive coarse							
		brown biotite alteration with 10%							
		sulfides as blebs, streaks, wisps and							
		disseminations - pyrite-chalcopyrite,							
		minor pyrrhotite, especially in mafic							
		clasts. Beautiful mineralization. 2%							
		Cu.							
		36.9-37.6 - white aplite/pegmatite dyke							

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From m	To m	Description	Sample No.	From m	To m	Length	vuggy amph-py	py-po	chl-ep amph-py
		with pyrrhotite-pyrite-chalcopyrite-	D 5227	38	40	2m	14	3	2
		coarse biotite streaks - source of							
		the biotite + copper? @ 30°.							
		Other mineralization not present -	D 5228	40	42	2m	13	3	4
		destroyed?							
		38.4-47 - Silicified, strong actino-							
		lite-epidote-chlorite-pyrite alteration.	D 5229	42	44	2m	16	1	0
		Abundant vuggy dark green amphibole-							
		pyrite veining +/- quartz, epidote,							
		magnetite. Decreasing toward bottom.	D 5230	44	46	2m	11	3	7
		3-5% sulfides, mostly pyrite, decreas-							
		ing downward. Good chalcopyrite in							
		mafic clasts near top and in matrix	D 5231	46	48	2m	3	1	6
		locally (40.5). Strongly fractured							
		core. 0.2% Cu.							
		47.0-54.3 - Breccia, very strong actin-	D 5232	48	50	2m	3	2	12
		olite-epidote-chlorite-pyrite alteration							
		+ silicification, fragments often indis-							
		tinct. Very few dark amphibole-pyrite	D 5233	50	52	3m	1	2	6
		veinlets. 2% total sulfides, largely							
		disseminated pyrite with minor magnet-							
		ite, some chalcopyrite. 0.1% Cu.	D 5234	52	54	2m	1	1	9
		54.3-58.6 - increasing augite porphyry							
		fragments, composing all of breccia							
		at end. Strong actinolite-epidote-	D 5235	54	56	2m	0	14	8
		chlorite alteration. 8% sulfides as							

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From m	To m	Description	Sample No.	From m	To m	Length	bio-py +/- cpy	py-po cpy	chl-ep amph-py
		streaks, blebs, disseminations -							
		pyrite-chalcopyrite-magnetite, minor							
		pyrrhotite. Disseminations most							
		abundant in augite porphyry fragments.							
		0.7% Cu.	D 5236	56	58	2m	4	8	11
58.6	81.7	Augite Porphyry							
		Massive, dark brown, more fine grained	D 5237	58	60	2m	5	1	9
		than ususal. Cut by short intervals							
		of breccia with strong actinolite-							
		epidote-chlorite alteration along	D 5238	60	62	2m	3	2	10
		contacts with veining of same minerals.							
		Abundant disseminated pyrite-chalcopy-							
		rite-pyrrhotite, variable amounts.	D 5239	62	64	2m	6	3	8
		58.6-60.2 - fine to medium grained							
		augite porphyry. 5% disseminated							
		sulfides 0.3% Cu.	D 5240	64	66	2m	10	1	7
		60.2-61.3 - Intrusive breccia, largely							
		augite porphyry fragments, intense							
		actinolite-epidote alteration. 5%	D 5241	66	68	2m	1	4	5
		disseminated pyrite-chalcopyrite, a							
		few streaks. 0.2% Cu.							
		61.3-63.9 - Vague to distinct breccia	D 5242	68	70	2m	0	8	16
		texture in augite porphyry, a few other							
		fragments. Intense brown biotite.							
		7% disseminated sulfides, especially							

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From m	To m	Description	Sample No.	From m	To m	Length	bio-py +/- cpy	py-po - cpy	chl-ep amph-py
		pyrrhotite. 0.8% Cu.							
		63.9-65.7 - Breccia -strong silicif-							
		ication and brown biotite, various	D5243	70	72	2m	6	4	6
		fragments. Biotite-pyrite veinlets.							
		3% disseminated pyrite-pyrrhotite-chal-							
		copyrite. 0.2% Cu.							
		65.7-67.4 - Augite porphyry abundant	D 5244	72	74	2m	13	10	5
		granular veinlets of actinolite-epidote-							
		pyrite. 3% sulfides, 0.2% Cu.							
		67.4-69.3 - Breccia, pale green, silic-							
		ified, mostly augite porphyry, lower	D 5345	74	76	2m	9	6	5
		contact 30°? 6% sulfides, 0.7% Cu.							
		69.3-73.7 - Augite porphyry, vague							
		fine breccia texture, intense brown							
		biotite. 4% sulfides, strong pale	D 5346	76	78	2m	4	3	4
		green alteration at both ends, 0.3%							
		Cu.							
		73.7-75.6 - Breccia, fragments generally							
		less than 3cm, indistinct. Pale	D 5347	78	80	2m	0	2	8
		green, silicified, w/chlorite spots.							
		Biotite along pyrite veinlets. 5%							
		sulfides, many blebs, 0.3% Cu.							
		75.6-76.6 - Augite porphyry, 3%							
		sulfides, 0.2% Cu.							
		76.6-77 - Breccia as 73.7 - 75.6, 0.3%							
		Cu.							

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From m	To m	Description	Sample No	From m	To m	Length	bio-py +/- cpy	py-po -cpy	chl-ep amph-py
		77.0-81.7 - Augite porphyry, as 69.3-73.7, patchy green silicate alteration. 5% finely disseminated pyrrhotite-chalcopyrite-pyrite, a few blebs. 0.5% Cu.	D 5248	80	82	2m	5	2	8
81.7	88.4	Heterogeneous Breccia 81.7-85.0- Augite porphyry fragments and/or strong brown biotite alteration, some feldspar porphyry with actinolite-epidote. Brown biotite streaks and patches. 5-7% sulfides, largely finely disseminated, a few veinlets with biotite envelopes @ 20°. Pyrrhotite + chalcopyrite abundant, 0.7% Cu.	D 5249	82	84	2m	6	2	2
		85.0-86.7 - Few augite porphyry fragments, pale green color, biotite spots. Mineralization as above. 0.5% Cu.	D 5250	84	86	2m	9 5	1	9
		86.7-88.4 - Augite porphyry, feldspar porphyry fragments. Strong brown biotite, patchy green silicates. 0.4% Cu. A few granular actinolite-epidote-chlorite-pyrite veinlets @ 10°.	D 5251	86	88	2m	7 3	0	12
88.4	99.6	Feldspar Porphyry	D 5252	88	90	2m	8 4	0	5

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From m	To m	Description	Sample No.	From m	To m	Length	bio-py +/- cpy	py-po -cpy	chl-ep amph-py
		Medium to fine grained, feldspars to 3mm, generally 1.5mm or less, phenocrysts rounded. Less than 1% quartz crystals. Grey to pale green to pale brown due to actinolite-epidote and to biotite alteration. Silicified. Breccia texture locally. 4-7% dissem-	D 5253	90	92	2m	4	0	24
		inated sulfides + as veinlets. 88.4-94.1 - Strong green silicate alteration. Abundant chlorite-epidote-amphibole-pyrite veinlets, biotite-pyrite-pyrrhotite-chalcopyrite veinlets,	D 5254	92	94	2m	9	2	14
		blebs and disseminations. Silicified, 7% sulfides. Feldspars indistinct, breccia locally, 0.3% Cu. 94.1-98.0- Moderate silicification and brown biotite, cut by patchy green	D 5255	94	96	2m	6	0	8
		silicate alteration, granular veinlets and chlorite-epidote-amphibole-pyrite veinlets and by dark biotite sulfide veinlets. Up to 5% disseminated pyrr-	D 5256	96	98	2m	3	0	8
		hotite-chalcopyrite replacing biotite. Freshest at 94.6m. 0.3% Cu. 98.0-99.6- Strong green silicates, a few augite porphyry xenoliths (poss-							
		ibly a breccia), patchy replacement							

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From m	To m	Description	Sample No.	From m	To m	Length	bio-py +/- cpy	py-po - cpy	chl-ep amph-py
		biotite. Mineralization as above.							
		0.2% Cu.	D 5257	98	100	2m	6	2	15
99.6	108.4	Augite Porphyry							
		Augite phenocrysts altered to pale							
		green aggregates. Biotite replaced	D 5258	100	102	2m	2	0	6
		by finely disseminated pyrite-pyrrho-							
		tite-chalcopyrite. Cut by patchy							
		actinolite-epidote-chlorite-pyrite							
		lateration and veining, associated	D 5259	102	104	2m	3	0	7
		silicification. Short intervals may							
		be breccia - fragments not obvious.							
		Fresher porphyry has 4% disseminated							
		sulfides, intensely metasomatized	D 5260	104	106	2m	1	1	7
		intervals have up to 15% sulfides as							
		blebs and veinlets as well.							
		102.1-102.4, 106.4-107.3 - breccia?							
		Overall 0.4% Cu.	D 5261	106	108	2m	1	1	7
		103.7- 3cm actinolite-epidote vein @							
		15°. Many veinlets @ 20°, + nearly							
		parallel to core.							
108.4	110.4	Lamprophyre	D 5262	108	110	2m	0	0	4
		Upper contact @ 25°, lower 15°? Coarse,							
		fresh, cut by several pale green gouge							
		zones @ 30°, 60°, 5° (see 109).							

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From m	To m	Description	Sample No.	From m	To m	Length	bio-py +/- cpy	py-po -cpy	chl-ep amph-py
110.4	110.7	Augite Porphyry	D 5263	110	112	2m	0	0	9
		as 99.6 - 108.4 Lower contact @ 30°.							
110.7	116.2	Feldspar Porphyry							
		as 88.9 - 99.6 - breccia in part,	D 5264	112	114	2m	0	1	13
		fragments nearly all feldspar porphyry,							
		strong green silicate alteration and							
		veining, moderately silicified. 3%							
		sulfides (see 115m) 0.3% Cu.	D 5265	114	116	2m	2	4	12
		111.4 - 112.2 - Patches of early							
		biotitic breccia, all feldspar porphyry,							
		pale brown biotite interstital to							
		fragments.	D 5266	116	118	2m	0	2	7
		114-115.1 - Augite porphyry, 10% diss-							
		eminated sulfides. 0.4% Cu.							
116.2	116.8	Biotitic Breccia	D 5267	118	120	2m	0	4	1
		Angular milky quartz fragments, average							
		2mm, in fine brown biotite matrix.							
		4% disseminated sulfides. 0.3% Cu.							
116.8	119.0	Lamprophyre							
		Coarse, very biotitic, fresh. Lower							
		contact 30°.							

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From m	To m	Description	Sample No.	From m	To m	Length		py-po-cpy	chl-ep amph-py
119.0	123.8	Brown Biotitic Metavolcanic							
		Fine grained, abundant brown biotite,	D 5268	120	122	2m		6	7
		shattered fragments rotated only							
		locally (121.6). Invaded by strong							
		actinolite-epidote-chlorite-pyrite							
		alteration + veining. Bleached +							
		silicified adjacent to veins. 8-10%	D 5269	122	124	2m		2	9
		sulfides, mostly disseminated, mostly							
		pyrite. Several large blebs, moderate							
		pyrrhotite + chalcopyrite. 0.4% Cu.							
123.8	126.5	Feldspar Porphyry	D 5270	124	126	2m		1	10
		Same rock as 110.7-116.2. Silicified,							
		intense green silicate alteration							
		as above, grades into heterogenous							
		breccia. Feldspars bleached along							
		late chlorite-calcite veinlets at	D 5271	126	128	2m		2	12
		20^{o}, 30^{o}, 5^{o} to core.							
		Abundant chlorite-pyrite veinlets +/-							
		epidote and amphibole. 3% sulfides-							
		largely pyrite (+ magnetite). 0.1%							
		Cu.	D 5272	128	130	2m		1	6
126.5	130.3	Heterogeneous Breccia							
		Finer fragments that usual, generally							
		less than 2cm, feldspar porphyry, dark							

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From m	To m	Description	Sample No.	From m	To m	Length	py-po-cpy	chl-ep amph-py
		metavolcanics, tan cherty fragments.						
		Strong green silicate alteration,						
		silicification, dark chlorite spots						
		and rims on fragments, 2% sulfides.						
		0.1% Cu.						
		130.3 - gouge @ 30° to core axis.						
130.3	134.4	Feldspar Porphyry	D 5273	130	132	2m	0	7
		as 110.7-116.2- very silicified,						
		moderate green silicate alteration.						
		Vague breccia texture toward bottom.						
		3% sulfides, largely disseminated	D 5274	132	134	2m	1	12
		pyrite, minor pyrrhotite, chalcopyrite						
		0.1% Cu.						
		Increasing pyrite veinlets, minor						
		chalcopyrite last 20cm.	D 5275	134	136	2m	5	14
134.4	137.7	Augite Porphyry/Biotitic Metavolcanic						
		Strong brown biotite, patchy green						
		silicate alteration and silicification.						
		Many 1-2mm pyrite veinlets +/- chal-	D 5276	136	138	2m	4	9
		copyrite-pyrrhotite, 3% disseminated						
		sulfides 0.3% Cu.						
		135.7-136.3 - heterogeneous breccia-						
		as below.						

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From m	To m	Description	Sample No.	From m	To m	Length	qtz-Mo	py-po-cpy	chl-ep amph-py
137.7	146.2	Heterogeneous Breccia	D 5277	138	140	2m	-	6	10
		Coarse, fragments to 20m, average 8cm,							
		of feldspar porphyry, early porphyry							
		(?), augite porphyry, dark biotitic met-							
		avolcanics, siltstone. Silicified,	D 5278	140	142	2m	-	6	8
		very strong actinolite-epidote-chlorite-							
		pyrite alteration, especially matrix.							
		Alteration rims on fragments (138.7).							
		Streaks, blebs, veinlets of pyrite-							
		pyrrhotite-magnetite abundant. Abundant	D 5279	142	144	2m	-	4	10
		granular green silicate veins. 7%							
		sulfides. 0.5% Cu. Last 1.5m darker,							
		more chloritic, fragments of rock							
		below common. A few gypsum veinlets	D 5280	144	146	2m	-	1	5
		@ 30°, 80°.							
146.2	180.8	Quartz Latite Porphyry	D 5281	146	148	2m	2	1	6
		Medium coarse grained, crowded, 40% white,							
		slightly rounded feldspars average							
		2.5mm, a few more rounded ones to 4mm,							
		3% conspicuous rounded quartz phenocrysts	D 5282	150	152	2m	4	2	9
		to 9mm, 3% completely altered mafics							
		(hornblende?) matrix grey apyanitic.							
		Moderate propylitic alteration, weaken-							
		ing downward, mafics chloritized. Feld-	D 5283	152	154	2m	7	1	17
		spars slightly green locally. A few							

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From m	To m	Description	Sample No.	From m	To m	Length	qtz-Mo	py-po-cpy	chl-ep-amph-py
		early quartz-MoS_2 veinlets. Cut by	D 5285	154	156	2m	5	1	8
		chlorite-epidote-amphibole-pyrite							
		veinlets, later chlorite-calcite							
		veinlets @ 60°, 45°. Later gypsum							
		veinlets @ 45°, 60°. Argillic alterat-	D 5286	156	158	2m	5	1	5
		ion adjacent to latest calcite.							
		146.2-142.8 - strong green silicate							
		alteration, 5% disseminated sulfides,							
		feldspars indistinct. 0.3% Cu.	D 5287	158	160	2m	9	1	8
		147.8-151 - many chlorite-epidote-							
		pyrite veinlets. 0.1% Cu.							
		150.2 - spatially related MoS_2 - pyrite							
		-epidote-chlorite, superimposed?							
		151-156.6 - as described above, 3%	D 5288	160	162	2m	8	1	9
		sulfides, 0.1% Cu.							
		156.0 - 3cm quartz vein parallel core.							
		Abundant coarse pyrite, minor chal-							
		copyrite.							
		156.6-159.0 - Bleached, silicified.	D 5289	162	164	2m	20	0	9
		Abundant patchy disseminated pyrite-							
		chlorite-epidote. A few quartz-MoS_2							
		veinlets. < 0.1% Cu.							
		159.0-165.5 - decreasing pyrite-epidote							
		veinlets and disseminations, increasing	D 5290	164	166	2m	18	0	5
		silicification and earlier quartz-MoS_2							
		veinlets. 3% sulfides, 0.01% MoS_2							

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From m	To m	Description	Sample No.	From m	To m	Length	qtz-Mo	py-po -cpy	chl-ep amph-py
		< 0.1% Cu.							
		162.0 - Anhyrite veinlet 1.2cm							
		w/pyrite-chlorite-epidote @ 70° with	D 5291	166	168	2m	5	2	3
		1cm bleached envelope. Gypsum and							
		weak bleaching on late fractures.							
		165.5 - 168.1- Few quartz MoS_2 vein-							
		lets with silicification. Strong							
		brown biotite overprint with fine	D 5292	168	170	2m	5	0	12
		disseminated and coarse veinlet biotite							
		overprint with fine disseminated and							
		coarse veinlet biotite associated							
		with pyrite-pyrrhotite +/- chalcopyrite.							
		Weak later chlorite-epidote-actinolite as	D 5293	170	172	2m	1	1	10
		veinlets and disseminated. Minor MoS_2.							
		0.1% Cu.							
		166.7 - pyrrhotite-chalcopyrite							
		veinlets with biotite @ 30°.							
		168.1 - 176.2 - several quartz-MoS_2	D 5294	172	174	2m	4	0	11
		veinlets near top, patchy moderate							
		silicification, weak propylitic alter-							
		ation, mafics partially replaced by							
		chlorite-epidote-pyrite, locally rather							
		fresh. Scattered chlorite-pyrite-	D 5295	174	176	2m	2	0	10
		epidote veinlets. A few late calcite-							
		chlorite veinlets with narrow bleached							
		envelopes. 3% pyrite. <0.1% Cu.							

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From m	To m	Description	Sample No.	From m	To m	Length	qtz-Mo	py-po -cpy	chl-ep amph-py
		176.2-180.8 - Relatively fresh,	D 5296	176	178	2m	1	0	6
		mafics only partially replaced by							
		pyrite + chlorite, locally fresh.							
		Patchy weak silicification and chlorite							
		-epidote-pyrite veining +/- amphibole.							
		Feldspars fresh, except for bleaching	D 5297	178	180	2m	0	0	5
		along late calcite veinlets.							
		180.8 - End of Hole.							

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Diamond Drill Record

Location:			Hole No. 80-8
Azimuth: 135°	Dips - collar -50 °	Contractor: Cameron-McCutcheon Drilling Co.	Property: Aylwin Creek
Elevation: 1250m	- 105 m -48 °	Logged By: D. C. Durgin	Claim No. Willa
Length: 107.2	- m °	Date: October 22-24, 1980	Section No. 150N
Core Size: NQ	- m °		Started: October 22, 1980
Purpose: To test continuity of mineralization along strike to North.			Completed: October 26, 1980

From m	To m	Description	Sample No.	From m	To m	Length		py-po -cpy	chl-ep amph-py
0	15.0	Overburden							
		Various rock types, abundant sand, cased							
		to 15.2m.							
15.0	28.0	Augite Porphyry	D 5298	16	18	2m		-	12
		Grain size quite variable, 15% augite							
		phenocrysts to 1cm locally, generally	D 5299	18	20	2m		-	20
		3-4mm in grey-green fine grained matrix.							
		Phenocrysts altered to pale green (actin-							
		olite?). Many patches and short intervals	D 5302	20	22	2m		-	21
		of a very fine grained pale green silici-							
		ous rock-green siltstone inclusions?	D 5301	22	24	2m		-	17
		Contact relationships unclear. Granular							
		veinlets locally abundant, especially at							
		top @ 30°, 50°. A few chlorite-epidote-	D 5302	24	26	2m		-	9
		pyrite veinlets, abundant discontinuous							
		hairline pyrite veinlets. A few small							
		blebs with pyrite + magnetite. 3% pyrite,	D 5303	26	28	2m		2	15
		trace chalcopyrite.							
		15.0 - 16.9 - Strong pale green silicate							
		alteration.							

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From m	To m	Description	Sample No.	From m	To m	Length	qtz-Mo	py-po-cpy	chl-ep amph-py
		22.6-24.3 Green siltstone interval.							
		24.3-28.0 Texture becomes streaky, schistose in augite porphyry with increasing siltstone inclusions.							
28.0	40.1	Interbedded Augite Porphyry/Green siltstone.	D 5304	28	30	2m	-	0	13
		60% streaky, altered augite porphyry as above. 40% green to locally pink-brown siltstone (tuffaceous probably). Graded	D 5305	30	32	2m	1	1	18
		bedding (?) at 33.8m at 15° to core, nearly parallel core at 31.5m. Highly fractured core. Generally pale brown							
		biotite hornfels with strong green silicate overprint. 5% sulfides as	D 5306	32	34	2m	5	0	<25
		streaks and disseminations in augite porphyry, largely veinlets in brittle							
		siltstone. Abundant chlorite-epidote-actinolite-pyrite veinlets at many	D 5307	34	36	2m	0	0	<25
		angles, often leached, vuggy. Very minor chalcopyrite. <<0.1% Cu.							
		A few quartz veinlets with very minor MoS_2.	D 5308	36	38	2m	2	0	<25
		34.1 - gouge @ 40°.							
		A few late hairline calcite veinlets and spots.	D 5309	38	40	2m	0	0	<25

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From m	To m	Description	Sample No.	From m	To m	Length	qtz-Mo	py-mag-cpy	chl-ep amph-py
40.1	58.6	Siltstone	D 5310	40	42	2m	0	0	>25
		Fine grained, bedding only locally							
		apparent. Generally brown-pink biotit-							
		ic hornfels, patchy pale green silicate	D 5311	42	44	2m	0	0	>25
		alteration, locally intense (46.2 46.7,							
		52.1 - 52.9). Moderate to locally							
		strong chlorite-epidote-actionolite-	D 5312	44	46	2m	1	1	20
		pyrite veining.							
		A few short intervals of augite porphyry.							
		A few quartz veins, some with MoS_2 at	D 5313	46	48	2m	0	1	18
		various angles. Late chlorite-pyrite-							
		calcite hairline veinlets with bleached							
		envelopes. 3% sulfides, largely veinlets.	D 5314	48	50	2m	1	0	15
		43.0-bedding? at 40°. Very minor Cu.							
		43.4- bedding @ 30°. Several biotite							
		veinlets.	D 5315	50	52	2m	7	0	18
		42.2-42.8- Augite porphyry, 5% pyrite.							
		46.2-46.8- Augite porphry, intense							
		green silicates.	D 5316	52	54	2m	1	3	20
		45- biotite-pyrite veinlets cut by							
		chlorite-epidote veinlets.							
		50.8-51.1 - 2 quartz veins with multiple	D 5317	54	56	2m	4	0	16
		1mm MoS_2 streaks, plus several small							
		quartz MoS_2 veinlets all at about 70°							
		to core.	D 5318	56	58	2m	3	0	19
		55.0 -57.9 pinkish color, a few green							

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From m	To m	Description	Sample No.	From m	To m	Length	qtz-Mo	py-mag-cpy	chl-ep amph-py
		veinlets.	D 5319	58	60	2m	1	0	10
58.6	65.2	Augite Porphyry	D 5320	60	62	2m	0	0	6
		A few short siltstone intervals. Primary mafics altered to biotite +/- actinolite, weak-moderate green silicate alteration. A few vuggy granular actinolinite-epidote-chlorite-pyrite veinlets +/- quartz. 3% pyrite, largely disseminated. A few chlorite-epidote-pyrite veinlets. 61.8 - vuggy granular silicate veinlet @ 30°. No Cu. 62.5-62.8- Siltstone.	D 5321	62	64	2m	0	0	12
			D 5322	64	66	2m	0	1	>25
			D 5323	66	68	2m	0	0	23
			D 5324	68	70	2m	0	0	24
			D 5325	70	72	2m	1	0	20
			D 5326	72	74	2m	1	0	17
65.2	84.9	Siltstone							
		Short Augite porphyry intervals as indicated below - apparently interbedded. Locally reddish brown due to hornfels, generally pale green due to later chlorite-epidote-actinolite alteration. Abundant erratically distributed pyrite-epidote-amphibole veinlets at many angles, often vuggy, leached, and carrying minor chalcopyrite. A few granular green silicate veins. Rare	D 5327	74	76	2m	0	0	>25
			D 5328	76	78	2m	0	1	>25
			D 5329	78	80	2m	0	0	19
			D 5330	80	82	2m	0	0	14
			D 5331	82	84	2m	0	0	11

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From m	To m	Description	Sample No.	From m	To m
		quartz-MoS_2 veinlets. Scattered late			
		chlorite-calcite veinlets. Pyrite and			
		magnetite in blebs locally.			
		65.9- 1cm quartz vein with blebs of			
		pyrite, minor pyrrhotite + chalcopyrite			
		@ 40°, with biotite envelope. Also			
		abundant disseminated pyrrhotite +			
		minor chalcopyrite for 20cm.			
		71.4-73.4- Augite porphyry, 3% pyrite,			
		trace Cu.			
		72.5- MoS_2 in granular quartz veinlet			
		@ 65°.			
		73.9 - Chlorite-amphibole-epidote-			
		pyrite veinlet with minor chalcopyrite.			
		73.9-76.9 - Abundant veining as above			
		with minor Cu. Many veinlets @ 40°.			
		76.1 - 77.1 - Augite porphyry.			
		78.8 - 86.4 - patchy very strong green			
		silicate alteration, abundant granular			
		actinolite-epidote-chlorite-pyrite			
		veins. Moderate silicification,			
		79.6- 79.8- Possible heterogeneous brec-			
		cia-a few porphyry fragments in			
		intense green silicate alteration.			

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Diamond Drill Record

Hole No. 80-8

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From m	To m	Description	Sample No.	From m	To m	Length	qtz-Mo	py-mag-cpy	chl-ep amph-py
84.8	86.1	Heterogeneous Breccia	D 5332	84	86	2m	1	2	10
		Intense green silicate alteration,							
		fragments only locally obvious,							
		largely siltstone and augite porphyry,	D 5333	86	88	2m	0	0	10
		a few feldspar porphyry. 4% pyrite							
		as disseminations, veinlets, and small							
		blebs. Trace chalcopyrite.	D 5334	88	90	2m	1	0	7
86.1	100.4	Siltstone							
		Short augite porphyry intervals.	D 5335	90	92	2m	0	1	12
		Weak patchy green silicate alteration,							
		generally dark brown color. 2-3%							
		sulfides, largely pyrite, 4-5% pyrite	D 5336	94	96	2m	0	2	19
		in augite porphyry intervals.							
		87.1-87.9 strong fracture zone nearly							
		parallel core, abundant calcite vein-	D 5337	94	96	2m	1	0	11
		lets, bleached.							
		88.8m 3cm quartz vein at 30° with							
		patchy black tourmaline.	D 5338	96	98	2m	0	0	12
		A few anyhdrite veinlets with pyrite							
		@ 20°, 70°.							
		Late calcite veinlets.	D 5339	98	100	2m	0	3	7
		90.6-94.0 Mostly augite porphyry.							
		4% pyrite, trace chalcopyrite.							
		99.4-99.7 - Augite porphry - 8%	D 5340	100	102	2m	0	1	9
		sulfides largely disseminated, a few							

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From m	To m	Description	Sample No.	From m	To m	Length	qtz-Mo	py-mag-cpy	chl-ep amph-py
		veinlets. 60/35/5 = pyrite/pyrrhotite/	D 5341	102	104	2m	0	1	10
		chalcopyrite.							
100.4	107.2	Augite Porphyry	D 5342	104	106	2m	0	0	7
		About 65% augite porphyry, 35% short							
		intervals of siltstone. Patchy green							
		silicate alteration, 2% sulfides,	D 5343	106	107.2	2m	0	2	6
		largely pyrite, minor pyrrhotite,							
		trace chalcopyrite. A few granular							
		actinolite-epidote-chlorite-pyrite							
		veins, most at 20°. A few anhydrite							
		veinlets, late calcite veinlets.							
		101.8 - 102.2 trace chalcopyrite.							
		106.0 - bedding @ 35°.							
		106.7 - trace chalcopyrite.							
		107.2- End of hole.							

APPENDIX V

DRILLING PLAN


IDLER
L7304
WILLA
L1529
ROCKLAND
L3884
WILLA
L1529
LITTLE DAISY
L7302
ROCKLAND
L3884
WILLA
L1529
RUSH
Aylwin Creek
Wild Creek
Bridge
No. 2 Adit
PORTAL 1
PORTAL 2
Willa No. 1 Adit
I.P. 3
BASE LINE
1200
1300
1400
10,200 N
10,100 N
10,000 N
9,900 N
9,800 N
9,900 E
10,000 E
10,100 E
10,200 E
DH 1 -45°
DH 2 -45°
DH 3 -45°
DH 4 -45°
DH 5 -45°
C-1 -30°
C-2 -40°
C-4 -45°
40-2 -3°
40-3 -30°
40-6 -2°
80-1 -90°
80-2 -60°
80-3 -50°
80-4 -50°
80-5 -50°
80-6 -50°
80-7 -50°
80-8 -50°
812.5
92.0
127.0
107.5
102.1
78.3
167.7
152.4
137.8
112.9
180.8
107.2
191.7
241.7
210.3
200.0
180.7
291.2
686.3
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8859

- L E G E N D -

DIAMOND DRILL HOLES

80-1 to 80-8	Riocanex	1980
40-3 to 40-6	Rockland Mining Co.	1970
DH-1 to DH-5	Rockland Mining Co.	1969
C-1 to C-4	Cominco	1965

Note: Claim lines taken from 1:50,000 scale topographic maps

○ DDH - Survey location
○ DDH - Approximate location
△ Survey Station - Iron Pin
□ Survey Station - Hub

Contour Interval 20 metres

N.T.S. 84F/14

SCALE 1:500

10 5 0 10 20 30 40 Metres

RIO TINTO CANADIAN EXPLORATION LTD.

RIOCANEX - B P AYLWIN CREEK JOINT VENTURE

DRILLING PLAN

DATE	DRAWN BY	DWG.
JAN. 81	DCD / dag	