

APPENDIX 1

6200N PROSPECT

1988 Drilling geological logs



EXPLORATION
DIVISION

PERCUSSION DRILLING. SAMPLE DATA SHEET

Form 270
(Revised 5-86)

SAMPLE NUMBER	DRILLHOLE DEPTH(m)		COLOUR	GLDRCKCDE	ALTERATION	VEIN %	WEATHER G.	COMMENT 1	COMMENT 2	COMMENT 3
	FROM	TO								
DA374601	01	03	GMOC	IMCY				WATERITE PISOLITES - ALLUV.		
	02	03	GMIN	+MSPH+MCK				SOME QZ; DA GY PLYCLITE		
	03	06	GYWH	ISCT				MINOR PY		
	04	09	GY	ISCT	LM+ICY			LM LOW FRACITS		
	05	12	GY	ISCT	LM+ICY			LAMINATED; LM LOW FRACITS		
	06	15	GY	ISCT				MINOR PY; WATER TABLE 16m		
	07	18	GY	ISCT				LM LOW FRACITS		
	08	21	GY	MSPH+ISCT						
	09	24	GY	MSPH+ISCT						
DA374610	27	30	GY	MSPH+ISCT				THIN PY VMS; END WATER BORER		

SAMPLING RECORD			PROJECT		DRILLING RECORD	
Material: PERC	Depth: 30m	Sampled By: HW	Region: EASTERN	Drill Type: PERC	CO-ORDINATES	
Map Ref:	Laboratory Request No:	Date: 5-5-88	Project: MT. RINGWOOD J.V.	R.L. m	Water Table At 16 m	6207 m N
LINE No:	FROM	Photo No:	Prospect: 6200N	Dip: -90°	Azm:	9585 m E
	TO	Bearing:	Cost Code: 3950	Date: 5-5-88	HOLE No: MPQR 43	

Original held at PASADENA S.A.



DIAMOND DRILLHOLE COMPLETION REPORT

HOLE NO *MPQD 44*

Page *1* of *1*

DOWNHOLE SURVEY		
DEPTH	DIP	MAGNETIC AZIMUTH
32m	51.5°	—
43m	47.5°	97°
92m	17°	94.5°
122m	47°	95°
171m	47°	95.5°

PROJECT *MT RINGWOOD JV*
Prospect/Location *MT PAQUALIN 6200N*
Cost Code *3950* Date finished *14.5.88*
Precollar No *MPQD 44* Precollar depth *41.4* m
Water at *15* m Hole final depth *173.0* m
Casing left: No/Yes to *76* m *HR 41.4 - 125.2*
Casing type: *Plastic*/Metal *NR 125.2 - 173.0*
Drill type *FOX* Drill No

COLLAR DATA	Approximate	Surveyed
Grid Co-ords	<i>6200</i> N	N
	<i>9600</i> E	E
AMG Co-ords	N	N
	E	E
Grid RL	m	m
Grid RL Datum	m	m
AHD RL	m	m
Angle from horizontal	<i>-60°</i>	
Direction	<i>90° ← 087°</i>	
	Grid/AMG/Mag/True	Grid/AMG/Mag/True

MINERALIZED INTERSECTIONS

FROM	TO	METRES								

Reason for Drillhole:

Test continuity & grade of known mineralization from previous drilling, and investigate structural relationships of veining/gold.

Completion Report:

O.I.C. Signature



EXPLORATION
DIVISION

PERCUSSION DRILLING. SAMPLE DATA SHEET

Form 270
(Revised 5-86)

SAMPLE NUMBER	DRILLHOLE DEPTH(m)		COLOUR	GLDRCKCODE	ALTERATION	VEIN %	WEATHER'G	COMMENT 1	COMMENT 2	COMMENT 3
	FROM	TO								
DAB94611	0	13	YLGIM		MCY			MINOR QITZ	MSPH	ACK LM
	12	3	TNGY		WGY			WEATHERED	MSW	GY SSL
	13	6	TNGY		MCY					
	14	9	GY		MSPH			PHYLLITIC	WK LM	OM ITACTD
	15	12	GY		MSPH					
	16	15	GY	SSL	MSPH			CLEAVED	SSL-SIL	TA Q; LM FRACT
	17	18	GY		SSL			20% Q-FSPAR	UM	
	18	21	GY		SSL			WK LM		
	19	24	DGY		SSL			TRACE Q		
	20	27	DGY		SSL			MINOR LM FRACT		
	21	30	DGY		SSL					
	22	33	DGY		SSL			WK DISSEM PY		
	23	36	DGY		SSL					
DAB94624	39	41	DGY		SSL			END PRECOLLAR	41.4m	

SAMPLING RECORD				PROJECT		DRILLING RECORD			
Material: PERC	Depth:	Sampled By: H.W.	Region: EASTERN	Drill Type: PERC	CO-ORDINATES				
Map Ref:	Laboratory Request No.	Date: 12-5-88	Project: MT RINGWOOD J.V.	R.L. m Water Table At 15 m	6200 m N				
LINE No.	FROM	Photo No.	Prospect: 6200N	Dip: 60° Azm: 087 mag	9600 m E				
	TO	Bearing	Cost Code: 3950	Date: 5/5/88	HOLE No: MPQD 44				

Original held at PASADENA S.A.

DRILL HOLE GEOLOGICAL LOG

Scale 1:100

Hole No. MPD 44

Area — Grid. MT. ARIZONA 6200 N AREA

Coordinates. 6200 N. 9600 E.

Logged by High Warner

Collar Azimuth. 90° Inclination. -60° R.L.

Date. 24.5.88

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m.	UNIT DEPTH
PERCUSSION PRECOLLAR									
		wh dissem py	49 55			MSsl-si	chl clots define lineation // cleavage		41.50
45.5 46.1	2% sl irreg 1-5mm py + q-cb		46.4 47.1	v. wk cb		MSet MSsl 1cm at base	banding		45.65 46.10
46.5-46.8	20% 1-5mm q-cb	46.4 47.1 str. shear // bedding	46.4 47.1						
47.10	10cm sub // bedding	2(-p0)	47.10						
50			46 20			MSH-cc	rare 1cm 16 MSsl		
54.0	2% 5mm 0-5mm irreg	2-py cb	54.0 55.0			MSw 4-5-7mm MSet-py			53.38
55.95-56.2	86.2 3cm	q-cb (-cp) q(-cp)	55.95 56.2						55.80
57.6	2mm	2-py	57.6			MSsl/MSH	1cm - mbd		
58.4	2mm	2-py	58.4						
59.5-630	v. wk 1-5mm, cb		59.5 630			MSw MSsl/MSH	1cm - mbd		60.30 60.50

Additional Comments.

HOLE No. MPD 44

SHEET No. 1

DRILL HOLE GEOLOGICAL LOG

Scale 1:100

Hole No. MPQD 44

Area — Grid. _____

Coordinates. _____

N. _____

E. _____

Logged by W

Collar Azimuth. _____

Inclination. _____

R.L. _____

Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
						Msl / MSh	lm - tn bd		
						63.5 Set			
						63.8			64.4
66.5 1cm q-py-cp						Set / MSsl-si	lm - tn bd		
						Set			69.6
						2-105 1cm cb bed			
71.2-71.3 2+ 1cm q-c 71.35-71.45 10cm q-E-py						md	vg		71.2
wt 1-5mm q-cb-py							fg		75.0
						Mgb	f-mg wk foln.		
74.8 15mm q-cb-py							5-10% bx		76.5
77.2-77.35 15cm q-as-c-py						Mgg	5-10% bx mg. wk-mad foln.		
						DI	mg., prismatic amphiboles		

Additional Comments.

✓ vein orientation

✓ bedding

✓ axial plane cleavage / foliation

✓ compositional banding in intrusive.

HOLE No. MPQD 44

DRILL HOLE GEOLOGICAL LOG

Scale 1:100

Hole No. MPQD 44

Area — Grid.

Coordinates.

N.

E.

Logged by

S.

Collar Azimuth.

Inclination.

R.L.

Date.

VEINS	SULPHIDES MINER' LGY	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m.	UNIT DEPTH
82						DI			82.6
3	82.8-83.0	ill defined cb // contact	25/25				10% bx		
4	83.9	5mm cb	1/25			Mgg - Mdg			
85	85.2	1-5mm cb // cleavage	42/				10% bx st foliated large, subhedral		
6	86-86.3	maxine q-c-cb-py-as-ep. // cleavage	40/						86.0
7	86.85	5mm q-c 10% as in 3cm upper selvage	27/						
8	87.5	2% 1-7mm cb cut 1-2cm cb-c	65/45			Md	unfoliated		
9									
90	89.7	5-5mm cb-q(c) irreg. 55-70°	15/						90.5
1	92	low angle	10/55			Mgg	5% bx large, irregular f-mg margin		
2			40/						92.3
3	92-96	2% 1-5mm cb, various attitudes							
4	93.8	diffuse cb alt. selvages 5mm cb, st c selvages	1/23	cb c, cb		Mgg	m-cg only to foliation		
95									
6				cb		Mgb	gr unfoliated		
7									96.95
8			25/25			Mdg	st foliated, chilled margins		
9	96-103	2-3% cb(c) 1-20mm same with X lined vugs.	70/55			Mgb	st foliation chilled margins		98.50
100			45/						
01	101.75	1mm cb-pegmatoid vein 2cm cb-q-c (cpq).	62/55			Mgg	foliated (q rich laminae) 2-5% vuggy bx		100.90 101.05
02									
03									103.00

Additional Comments.

HOLE No.

DRILL HOLE GEOLOGICAL LOG

Scale _____ Hole No. MPQD 44

Area — Grid. _____

Coordinates. _____ N. _____ E.

Logged by W

Collar Azimuth. _____ Inclination. _____ R.L. _____ Date. 2.6.88

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m.	UNIT DEPTH
105.7 5mm cb-q-c 106 3cm cb-q-c						Mg	largely unfoliated f-mg		103.0
107-118 ~2% cb-c-q 0.1-2cm various attitudes, { minor (secondary cut by 0.2-1.5cm q, similar attitudes. Irregular development of diffuse cb alteration selvages (white cb in veins)									
115.1 15cm q-cp-po 116.2 5mm q-cb-py-po(-cp)		shear with c+q m				Mgq	gen. foliated str. saussureitized. 2% small iron ore		112.4 115.4
118-132 ~1% 1-5mm cb-c+q veins. Two main attitudes (white cb).						Mgb-Mgq	mg., gen. little foliation		
122.1 2x 1cm cb-c(-q) sub// cleavage 122.5 2.5cm q(-cb) wh cb selvages.									

Additional Comments.

HOLE No. _____

SHEET No. 4

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MPD 44

Area — Grid. _____

Coordinates. _____ N. _____ E.

Logged by W

Collar Azimuth. _____

Inclination. _____

R.L. _____

Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m.	UNIT DEPTH
124									
125									
6									
7									
8									
9									
130									
1									
2									
3									
4									
135									
6									
7									
8									
9									
140									
1									
2									
3									
4									
145									

Additional Comments.

HOLE No. _____

SHEET No. 5

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MD 44

Area — Grid. _____

Coordinates. _____ N. _____ E.

Logged by LD

Collar Azimuth. _____ Inclination. _____ R.L. _____

Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m.	UNIT DEPTH
145 6 7 8 9 150 1 2 3 4 155 6 7 8 9 160 1 2 3 6 165 6									
cb(-c) & q(-cb-c) veins continue			50/			Mg2			
148.5 to 149.5 strong cb(-q) veining in shear dikes q veining heals earlier shear			45/	c		strongly sheared (at least 2 generations. Assoc chloritization			148.5
150.1-150.4 1-2cm cb veins, strong f.g. tourmaline replacement			40/	t. t.		Md 5% 1mm x 5mm black tourmaline prisms, 5% Md-Mg st tourmalinization			149.5 150.1 150.4
152.1 1cm q(-cb-q)			22/			Mg6			
153.0-154.0 q & cb veined, sheared or healed by later c & fd veining			35-45/	c		2% skeletal- subhedral dx			
154.0 1.5cm q(-c-po)			20/						154.3
153-158.1 ~1% 1-10mm q-fd (red fd)									
wt cb all around same veins				(cb)		Mgg-Mdg variable grain size gen wk-unfoliated			
			30/			Mg6			
162.9 1cm q-cb-c			25/			Md(py) unfoliated			162.2
164-165 4% 1-5mm q & q-cb			35/			Mg6 strongly foliated 2% vsg dx			164.2
			30/			Md unfoliated, chilled margin fractured contact			164.8 165.3
						Sct			

Additional Comments.

HOLE No. _____

SHEET No. 6

Hole No. MAQD 44

Logged by WJ

Collar Azimuth. _____ Inclination. _____ R.L. _____ Date. _____

Additional Comments.

HOLE No. _____

SHEET No.

DIAMOND DRILLHOLE COMPLETION REPORT

HOLE NO *MPQD 45*

Page *1* of *1*

DOWNHOLE SURVEY		
DEPTH	DIP	MAGNETIC AZIMUTH
<i>30m</i>	<i>-56°</i>	<i>—</i>
<i>60m</i>	<i>-54°</i>	<i>—</i>
<i>90m</i>	<i>-53.5°</i>	<i>96°</i>
<i>120m</i>	<i>-53.5°</i>	<i>97°</i>
<i>150m</i>	<i>-53°</i>	<i>96°</i>
<i>68.7m</i>	<i>oriented core</i>	

PROJECT *MT RINGWOOD JV*
 Prospect/Location *MT PAQUALIN 6200N*
 Cost Code *3950* Date finished *19.5.88*
 Precollar No *MPQD 45* Precollar depth *35.5 m*
 Water at *18 m* Hole final depth *150.0 m*
 Casing left: No/Yes to *6 m* HQ *35.5 - 84.0*
 Casing type: Plastic/Metal NQ *84.0 - 150.0 m ECH*
 Drill type *FOX* Drill No

COLLAR DATA	Approximate	Surveyed
Grid Co-ords	<i>6250</i> N	N
	<i>9625</i> E	E
AMG Co-ords	N	N
	E	E
Grid RL	m	m
Grid RL Datum	m	m
AHD RL	m	m
Angle from horizontal	<i>-63°</i>	
Direction	<i>90°</i> <i>108°</i>	
	Grid/AMG Mag/True	Grid/AMG/Mag/True

MINERALIZED INTERSECTIONS

FROM	TO	METRES								

Reason for Drillhole: *Confirm previous RC intersection & provide structural information re veins & gold.*

Completion Report: *Top of Md*

O.I.C. Signature



EXPLORATION
DIVISION

PERCUSSION DRILLING. SAMPLE DATA SHEET

Form 270
(Revised 5-86)

SAMPLE NUMBER	DRILLHOLE DEPTH(m)		COLOUR	GLDRCKDE	ALTERATION	VEIN %	WEATHER'G	COMMENT 1	COMMENT 2	COMMENT 3
	FROM	TO								
DA 394	6	25	0	13	TWGY			IMCY		
	26	3	16		TWGY			IMCY		
	27	6	19		TWGY			IMCY		
	28	9	12		GY			MSPH	SCY 3LM	
	29	12	15		GY			SCT+MSPH	2 CY 2LM	
	30	15	18		GY			SCT+MSPH	1 CY 1LM	
	31	18	21					SCT+MSPH		
	32	21	24					SISL		
	33	24	27							
	34	27	30							
	35	30	33							
DA 394	36	3	36		GY			SCT+SSIL		

SAMPLING RECORD				PROJECT		DRILLING RECORD	
Material: PERC	Depth:	Sampled By: H.W.	Region: EASTERN	Drill Type: PERC	CO-ORDINATES		
Map Ref:	Laboratory Request No.	Date: 16-5-88	Project: MT RINGWOOD J.V.	R.L. m	Water At 18 m	8250 m N	
LINE	FROM	Photo No.	Prospect: 6200N	Dip -63°	Azm 087°	9625 m E	
No.	TO	Bearing	Cost Code: 3950	Date: 15-5-88	HOLE No: MPQD45		

Original held at PASADENA S.A.

DRILL HOLE GEOLOGICAL LOG

Scale 1:100

Hole No. MPQD45

Area — Grid. PAQUALIN

Coordinates. 6250 N. 9625 E.

Logged by M. WARD

Collar Azimuth. 087 mag Inclination. -60° R.L.

Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
35 irreg py vns to 3mm	1-3% dissem py.	S ₀ 70°	✓	silic cb	msph	hornfelsed + spotted (chl ex andal), siliceous Gerowie Tuff (Psg)			
37 py + Tc? on slickensides shear faces	shearing cove 10-20% veiky Biotite		✓	silic cb		laminated MSph			
39 irreg 3cm py-cb-ecpy un	3-5% py clott nely contact, py on shears + fractures	Sheared + broken	✓	chl cb		fg, Md			
41 4cm q vn cut by rim folded q-cb un	1% dissem. py	Wk fol S ₂ 30°	✓	chl cb lx	Mgb	gradual coarsening to fg feldspathic md-Mgb with fine peppery, ragged leucoscene.			
43 cb-q-chl vn 20° 30°			✓	chl cb lx (py) (phlog)	Mgg	Mgbfsp + lx ↓ lx coarsening; ragged pink-tan lx (with some alt to phlogopite?) - rounded radially foliated fsp; minor fg qtz phenos			
45 cb-q-chl vn 20° 30°			✓	chl cb lx (py) (phlog)	Mgg	occ fsp phenos to 3mm otherwise mg Mgbfsp + lx lx rimmed by phlog alt			
47 1-3% blebbly + dissem py	↓ APY in		✓	chl cb lx (py) (phlog)	Mgg	↓ stg alt begins - incr cb, phlog. py			
49 q-cb-py vn 10° 10° 30cm q-cb-chl-py m. -apy	↓ apy decr.		✓	chl cb lx (py) (phlog)	Mgg	Arsonophytic zone, Apy euhedral late xst; x-cuts py, q, cb, chl.			
51 5cm q-cb vn; stg apy (to 3mm) selur	↓ apy incr		✓	chl cb lx (py) (phlog)	Mgg	milky qtz porphyritic (qtz to 2mm) qtz-fsp granules			
52 sheared q vn	2-3% dissem clotted py; patchily stg apy	sheared 45° contact	✓	QVN + py	QVN	stgly sul py stringers in q vn, and massive lucky qtz vein			52
55 sheared q vn		v. stgly sheared contact	✓	chl cb lx (py) (phlog)		mg Mggfsp + lx → DIq stgly altered			53

Additional Comments.

HOLE No. _____

SHEET No. _____

DRILL HOLE GEOLOGICAL LOG

Scale 1:100

Hole No. MPQD45

Area — Grid. PAQUALIN

Coordinates. 6250 N. 9625 E.

Logged by M. WARD

Collar Azimuth. 087 mag Inclination. -60° R.L.

Date. _____

VEINS	SULPHIDES MINER'LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY TEXTURE	Au. p.p.m.	UNIT DEPTH
55 minor thin q-cb vns	2-3% dissem. PY	v. broken stg shearing 10°	F	Y cb PY lv	Mgg	stgly leucocrystalline mg qtz galena, peppery pseudo cubic lx to 2mm.		
57 } irreg. q-cb-cpy-py vns ~10°		wk fol 30°	SS	Y cb PY lv		decrease in pheno qtz		
59 1% PY				X ch lv	Mgbf	Decrease in alteration, esp visible leucocrystalline		
late pink fsp? offsets minor q-cb vns				X ch lv		absent. Amph stable Mgbf sp		
61				X ch lv		alted zone		
63 <1% PY				X ch lv		amph stable Mgbf sp		
65		fol 45°	F	X ch (cb) (lx)		mildly sheared mg Mgbf sp with minor to intermediate leucocrystalline content		
67 } 3cm q-cb vns 10°				X ch (cb)		massive Mgbf sp with only occ. minor shavings		
69 tce only dissem PY		mod fol 30°		X ch (cb)				
71 4cm q-cb-? to vns 20°				X ch cb lv		lx appear		
73 minor dissem PY				X ch (cb) (lx)		mg Mgbf sp with v minor, vfg qtz phenos; lx decr. downward		
2cm q-cb-py, cpy (a pink fsp?) vns 20°				X ch (cb) (lx)		alt° decr to mg amph stable Mgbf sp		
75 Thin cb-q vns 11S2								

Additional Comments.

HOLE No. _____

SHEET No. _____

DRILL HOLE GEOLOGICAL LOG

Scale 1:100

Hole No. MPQD45

Area — Grid. PAQUALIN 6250N.

Coordinates. 6250 N. 9625 E.

Logged by M. WARR

Collar Azimuth. 087 mag Inclination. 60° R.L.

Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m.	UNIT DEPTH
75									
77	thin cb uns mostly // S ₂ , but some occ x-cutting	minor dissem py v wk S ₂							
79		cb healed Fault 10°							
81									
83	sparse fig dissem py								
85		wk fol S ₂ 30°							
87	2cm q-cb-py in 85°								
89	2cm q-po-ccpy-py-cb in 40°								
91	def. 3cm q-po-ccpy-py-cb vein in shear.	Stg shear zone - post S ₂ 20°							
93	occ wk cb vng, sub ll S ₂	v sparse py only							
95									

Additional Comments.

HOLE No. MPQD45

SHEET No. 3

DRILL HOLE GEOLOGICAL LOG

Scale 1:100

Hole No. MPQD45

Area — Grid. PAQUALIN 6200 N

Coordinates. 6250 N. 9625 E.

Logged by M. WARP

Collar Azimuth. 087° mag Inclination. -60° R.L.

Date. _____

VEINS	SULPHIDES MINER'LG %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m.	UNIT DEPTH
95				chl (cb)	Mgbfsp	m.s. monot Mgbfsp, chloritised + ore incr cb alt. adj. late cb un.			
97	6cc late thin g-cb uns	v sparse py throughout							
99	low angle faulted zone with g-cb un 15°		shearing ~10°	chl chl		stg chloritic selvs to F zone			
101			shearing 10°	Mgb mgr		v. slight incr in pheno gte			
103	minor cb uns in S ₂			chl (cb)		m. Mgbfsp			
105									
107	minor py in shear	sheared zone; kinked shear 5-10°		chl cb lx		fine leucosome 10-appears			
109									
111	minor py in shear	sheared zone, mostly defined by chlorite		chl cb (lx) (py)		stgly sheared + chloritic Mgb			
113				chl (cb)		rel un alt (background) cb Mgb - massive			
115									

Additional Comments.

HOLE No. MPQD45

SHEET No. 4

DRILL HOLE GEOLOGICAL LOG

Scale 1:100

Hole No. MPQD 45

Area - Grid. PAQUALIN 6200N

Coordinates. 6250 N. 9625 E.

Logged by M. WARD

Collar Azimuth. 087° Inclin. -60° R.L.

Date.

115

117

119

121

123

125

127

129

131

133

135

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
				cl ch lx			fine peppery lx in mg chl-alt gabbro		
q-cb-py breccia -116.5m	1% py in Bx.			cl ch lx			massive Mg b fsp		
	<1% f.g. py								
							massive Mg b fsp; subhedral amphiboles (now chl) + corroded, cb alt fsp		
-3cm q-cb-?tz un 90°	minor incr in py in shear	stg sheared zone ~10°		cl ch cb lx py			lx in in shear		
							coarsening m-cg mgb (→ m'g'g?)		
cb-q un 50° but offset by shear.									
-6cm q-cb-chl un 40° assoc. shear.		mod shearing 30-40°					sheared mgb		
	SulS <1% dissem. f.g. py						massive mg Mg b fsp		
		massive to wlk S ₂					c-m.g. Mg b fsp + lx v minor phero qtz		
acc late cl uns, mostly assoc S ₂									
→ 133.5-134 late q-py un in shear ± mgb-lx ~20°									

Additional Comments.

HOLE No. MPQD 45

SHEET No. 5

Hole No. 12FGD45

Logged by M. WARP

Collar Azimuth. 087° mag Inclination. -60° R.L. _____ Date. _____

Additional Comments.

HOLE No. _____

SHEET No.



HOLE NO MPQD 46

Page 1 of 1

DOWNHOLE SURVEY		
DEPTH	DIP	MAGNETIC AZIMUTH
20m	-46°	-
50m	-42°	-
80m	-42°	106°
140m	-42°	107°
170m	-41.5°	107°
80.00m		
Oriented core	-40°	

PROJECT MT RINGWOOD JV
Prospect/Location MT PAQUALIN 6200 N
Cost Code 3950 Date finished 26-5-88
Precollar NO MPD 46 Precollar depth 65.0 m
Water at 15 m Hole final depth 170.0 m
Casing left: No/Yes, to 6 m HQ 65.0 - 101.0 m
Casing type: Plastic/Metal NQ 101.0 - 170.0 m
Drill type WARMAN 1000 Drill NO

COLLAR DATA	Approximate	Surveyed
<u>Grid</u> Co-ords	1150 6175	
	9600	
<u>AMG</u> Co-ords		
<u>Grid</u> RL		
<u>Grid</u> RL Datum		
<u>AHD</u> RL		
Angle from horizontal	-65°	
Direction	40° 56'	
	Grid/AMG/Mag/True	Grid/AMG/Mag/True

MINERALIZED INTERSECTIONS

[illegible]

Reason for Drillhole: Establish continuity between prev. RC & Diamond drill intersections near upper contact Zinn Dolerite & provide structural info. re veining and gold.

Completion Report:

O.I.C. Signature



EXPLORATION
DIVISION

PERCUSSION DRILLING. SAMPLE DATA SHEET

Form 270
(Revised 5-86)

SAMPLE NUMBER	DRILLHOLE DEPTH(m)		COLOUR	GLDRCKCODE	ALTERATION	VEIN %	WEATHER/G	COMMENT 1	COMMENT 2	COMMENT 3
	FROM	TO								
DA 394 637	0	3								
	38	3								
	39	6								
	40	9								
	41	12								
	42	15								
	43	18								
	44	21								
	45	24								
	46	27								
	47	30								
	48	33								
	49	36								
	50	39								
	51	42								
	52	45								
	53	48								
	54	51								
	55	54								
	56	57								
	57	60								
DA 394 658	63	65								

SAMPLING RECORD			PROJECT		DRILLING RECORD	
Material: PERC	Depth:	Sampled Logged By: H.W.	Region: EASTERN	Drill Type: PERC	CO-ORDINATES	
Map Ref:	Laboratory Request No.	Date: 18.5.88	Project: MT. RINGWOOD J.V.	R.L. m	Water At 12 m	6175 m N
LINE No.	FROM	Photo No.	Prospect: 6200N	Dip: -65°	Azm: 089.114°	9600 m E
	TO	Bearing	Cost Code: 3950	Date: 17.5.88	HOLE No: MPQD46	

Original held at PASADENA S.A.

Hole No. MPD 4-6

Logged by

Date.

Additional Comments.

HOLE No. MPD 46

HOLE No. MPD 46

SHEET No.

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MDD46

Area — Grid. _____

Coordinates. _____ N. _____ E.

Logged by _____

Collar Azimuth. _____

Inclination. _____

R.L. _____

Date. _____

85

87

89

91

93

95

97

99

101

103

105

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m.	UNIT DEPTH
1-3% dissem py; minor aggs 1/25° q-cb-apy-py w sparse selvage apy 2cm 2wk cb-q vng 20°	1-3% dissem py; minor aggs	wk-mol fol 30°	6/S ₂ 30°	chl cb lx phlog py	Mgg	occ sheaves + clots of dr after cum. spinel; alt' to phlog overgrows chl			
2wk cb-q vng 20°	2-3% dissem py	past-date S ₂ fol def by chl. } { distinct 60-50° shear set offsets q-apy vng; apy in shear plane	20° q-cb 40° 15°/5° 55° 5° shear 45° shear	chl cb lx phlog py		sheared Mgb-Mgg pheno qtz appears to drop out			
1cm q-apy-cb q-cb-chl (py) 3cm 20° core skins + 4cm q-cb-chl - apy py vng apy selv		shear 45° Tems. vein?	40° q-cb-chl 20° q-apy 45° shear	1 cb alt' dcr.		f-m.g Mgbfsp + lx			
2cm q-cb 40°	py 1-2% dissem	wk to neg. 61	q-apy 45° shear	chl py		m.g amphi-stable Mgb; cum ilmenite/spinel to 3mm (also in aggs) low cb alt'			
thin cb-q vng 70° + 45° (late)		wk fol 30°	15° q-cb vng	chl cb lx py		m.g. Mgbfsp + lx			
15° 7cm q-cb-c-ph-?tc + py vng	sparse py in dissems 51%		15° q-cb vng	chl cb lx (py)					
1.5-m q-cb-chl vng									

Additional Comments.

HOLE No. _____

SHEET No. 2

DRILL HOLE GEOLOGICAL LOG

Scale

Hole No. MPD146

Area — Grid.

Coordinates. N. E.

Logged by

Collar Azimuth.

Inclination.

R.L.

Date.

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
105					Mgb				
107	5cm cb-q vn 85°			chl cb (14)	↓ Mgg		re-appearance of fg partially resorbed & pheno. Mgb - Mggfsp (t ly)		
109	cb-q vn 1/2 cm 20°	sparse	massive	late cb			monot homog Mgb- Mggfsp.		
	cb-q vn 1/2 cm 20°	py <1%		late cb	Mgb		no evidence of pheno qtz		
111			massive						
113					↓ Mgb		trans to granophyric texture (incr. fsp.)		
115	- pink cb + cb 70° 3cm (post-dike 10-20° set)								
	- pink cb - cb 70° 2cm			chl (cb)			massive amph st lcr		
117					Mgb		mg Mgb		
119	late cb-q - (py)								
	uns		massive						
	3-4 /m								
121	usually 10-20° cr			30° cb-q			massive Mgb; perhaps a little more fsp.		
	- 12cm cb-q vn + chl 30°								
	sparse py <1%								
123									
125									

Additional Comments.

HOLE No.

SHEET No. 3

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MPQD48

Area — Grid. _____

Coordinates. _____ N. _____ E.

Logged by _____

Collar Azimuth. _____

Inclination. _____

R.L. _____

Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m.	UNIT DEPTH
125	- sh	shear 15° py slickenside			Mgb	massive	Mgbfsp		
127	4cm cb-g 50° 6cm q-cb-te-chl (cpy) 50°			chl (cb)					
129									
131	10° pk cb healed 5° pink cb healed shear.			chl (cb)		massive	Mgbfsp		
133	1cm pk cb - cb vn 50°	v. wk fol 45°				fspar mildly porph. (to 2-3mm in 0.5-1mm groundmass)			
135	shear; pk qtz healed 10°			chl (cb)	Mgb				
137									
139	shear 10-20° broken core	low L sheared		chl (cb)		cb incr. ad. scars			
141	shear sub II cd irreg q-cb vng (cpy) trends 11 CA	low angle stg shearing		chl		m-g alt. Mgbfsp			
143	40cm sheared + re-healed q-cb - micaceous pl/vn			chl cb lx	Mgb	lx re-sprng			
145									

Additional Comments.

HOLE No. _____

SHEET No. 4

DRILL HOLE GEOLOGICAL LOG

Scale _____ Hole No. MPD 46

Area — Grid. _____

Coordinates. _____ N. _____ E.

Logged by _____

Collar Azimuth. _____ Inclination. _____ R.L. _____ Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPT.
145				cb chl (1x)	Mgb	massive mgbfsp			
147									
149									
151	v. sparse py			cb chl	Mgb				
153				chl (cb)		mg Mgbfsp			
155	shear 10° q-cb-chl-tc py			chl (cb) lx	Mgb				
157	3cm cleaved q-cb-py								
159	1 small shear 30°	mal 63' 40		chl cb lx					
161									
163				cb lx	Mgb	mg Mgbfsp			
165	shear cb-q-chl 5-10°								

Additional Comments.

HOLE No. _____

SHEET No. 5

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MPQD46

Area — Grid. _____

Coordinates. _____ N. _____ E.

Logged by _____

Collar Azimuth. _____ Inclination. _____ R.L. _____ Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m.	UNIT DEPTH
165				cl	Mgb	rapid flow	fg Mgb esp porphy to 200'		
167		steering 10°-20°	20°		Ma	↑ T	chill margin		
169		So 40			Sph	hornfelsed	Psy (phyllite) shale		
1700							E.H.		

Additional Comments.

HOLE No. _____

SHEET No. 6



HOLE NO MPQD 47

Page 1 of 1

DOWNHOLE SURVEY		
DEPTH	DIP	MAGNETIC AZIMUTH
0m	-65°	087°
72m	-58°	102°
105-	-57°	101°
159m	-57°	101°
188m	-57°	100°

PROJECT MT RINGWOOD JV
Prospect/Location MT PAQUALIN 6200N
Cost Code 3950 Date finished 28 5-88
Precollar No MPQD 47 Precollar depth 66.0 m
Water at 18 m Hole final depth 188.0 m
Casing left: No/Yes to 6 m HQ 66.0 - 105.0 m
Casing type: Plastic/Metal NQ 105.0 - 188.0 m
Drill type Fox Drill No

COLLAR DATA	Approximate	Surveyed
<u>Grid</u> Co-ords	6250	N
	9600	E
<u>AMG</u> Co-ords		N
		E
<u>Grid</u> RL		m
<u>Grid</u> RL Datum		m
<u>AHD</u> RL		m
Angle from horizontal	-65°	
Direction	90°	087°
	Grid/AMG/Mag/True	Grid/AMG/Mag/True

MINERALIZED INTERSECTIONS

[illegible]

Reason for Drillhole: *Test depth extent of mineralization under previous RC intersection*

Completion Report:

O.I.C. Signature



EXPLORATION
DIVISION

PERCUSSION DRILLING. SAMPLE DATA SHEET

Form 270
(Revised 5-86)

SAMPLE NUMBER	DRILLHOLE DEPTH(m)		COLOUR	GLDRCKCODE	ALTERATION	VEIN %	WEATHER'G	COMMENT 1	COMMENT 2	COMMENT 3
	FROM	TO								
D/H 374	659	0 13	TNGY	MCY	R M 9					
	660	3 16	TNGY	MCY	H NC					
	661	6 9	DGY	MSS L						
	662	9 12	GY			2 CY 2 LM				
	663	12 15				1 CY 1 LM				
	664	15 18				1 CY 1 LM				
	665	18 21		MSS L						
	666	21 24		SCT						
	667	24 27								
	668	27 30								
	669	30 33		SCT						
	670	33 36		MSS L						
	671	36 39								
	672	39 42		GY						
	673	42 45		DGY						
674	45 48									
675	48 51									
676	51 54									
677	54 57									
678	57 60									
679	60 63									
D/H 374	680	63 66	DGY	MSS L						

SAMPLING RECORD			PROJECT		DRILLING RECORD	
Material: PERC	Depth: 66m	Sampled By: H.W.	Region: EASTERN	Drill Type: PERC	CO-ORDINATES	
Map Ref:	Laboratory Request No.	Date: 26-5-88	Project: MT. RINGWOOD J.V.	R.L. m Water At 18 m Table	6250 m N	
LINE No.	FROM	Photo No.	Prospect: 6200N	Dip: -65° Azm: 089 m.s.	9600 m E	
	TO	Bearing	Cost Code: 3950	Date: 20-5-88	HOLE No: MPQD47	

Original held at PASADENA S.A.

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MPD 47

Area — Grid. PAQUALIN

Coordinates. 6250 N. 9600 E.

Logged by _____

Collar Azimuth. _____

Inclination. 65 R.L.

Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m.	UNIT DEPTH
65									
						END PERCUSSION PRECESSION			66
67				(cb)	LMSH	Dark grey tuffaceous silty shale of Gerowie Tuff			
69						well bedded to slightly laminated shale - phyllite. Some metamorphic (thermal?) spotting + lineation with gabbro intrusions			
71				(cb sil)	MSph	spotted + hornfelsed phyllite - silty shale.			
73						(encl?) spotted + hornfelsed phyllite - silty shale.			
75						minor chloritisation of some frags; stgly hornfelsed phyllite (Psg)			
77						v. fig. chloritised calcareous (chert margin.). Contact angle 1 not avail.			
79						V coarsening away from contact.			
81						rig. Mg b. fine perov. lx appears			
83						lack of apy assoc & vng. Quartz - py - apy - chl vng. includes very apy rich pieces of stgly alt. wallrock			
85						ragged lx-bearing rig. fol no sign of gtz			

Additional Comments.

HOLE No. _____

SHEET No. 1

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MPQD 47

Area — Grid. _____

Coordinates. _____

N. _____

E. _____

Logged by _____

Collar Azimuth. _____

Inclination. _____

R.L. _____

Date. _____

VEINS	SULPHIDES MINER' LGY	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
85 8cm q-cb-apy-py	stg Apy adj vn.	wk fol 30°	q-cb- apy-py fol 30°	Y chl cb lx py	Mgb	staly dry relvage to q vn	coarser (f.p) grained gabbro Mgbfsp. Still no gtz.		
87 just skimmer q-py vn.	2% dissem py	bx - Fault 25°	F / 25°	Y					
89		mod fol (S ₂) 35°	fol 35°	Y chl cb lx py			m.g. Mgb; some coarser grained fsp; r; lx mostly ragged 1-2mm		
91	1% dissem f.m.g py	shear 20° CA	shear / 20°	Y					
93		shears 10°	shear // 10°	Y cb chl lx (py)	Mgb		occ. sheared m.g. Mgb-lx		
95 3cm q-cb-(py)vn Sub II S ₂		mod fol 40°	fol 40° / cb 10°	Y	Mgb		massive m.g. Mgb (<u>coars</u> rare fg gtz?)		
97 chl-chl filled vn shear direction is ~ 10°				Y chl cb	Mgb		lx out for 0.5m. fg gtz phenos.		
99 thin cb-(py) vns to shearing ~ 10° CA				Y	Mgb				
101	py ≤ 1% in fine dissem.	wk fol 30° CA	fol 30°	Y			fg to peppery to ragged leucocrane		
103 10° 2cm q-cbchl				Y chl cb py lx	Mgb				
105 occ cb vns shear direction 20-10° CA	minor lx hosted in cb-q vns. Trend 90°	wk fol 30° CA	minor cb-q lx to	Y	Mgb		lx absent. Amph - chld. Mgb		

↑ HQ
↓ NQ

Additional Comments.

HOLE No. _____

SHEET No. 2

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MPD 42

Area — Grid. _____

Coordinates. _____

N. _____

E. _____

Logged by _____

Collar Azimuth. _____

Inclination. _____

R.L. _____

Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m.	UNIT DEPTH
ore late q-cb vns 70-80° CA		V. wk to absent fol	late q-cb 70-80°	chl (cb)	Mgb	f-m.g. ampb stabb mgb cb alt's decr + no lx evid			
- 50° 1cm q-cb-po - cpy vns as other holes			50° 1cm q-cb-po - cpy						
sem q-cb vns 80°	V sparse dissem 1%		q-cb 80°	chl (cb) lx	Mgb	massive, rel. unal. / + unfol mgb. minor lx here.			
					Mgg	lx out minor phos. ytz (slm appears)			
- fol sem pinkish / white - q-cb vns 45°			q-cb 45°	chl (cb)					
					Mgg	m.g. mgb - mgg (qtz minor, f.g.)			
				chl (lx)		minor lx			
				cb inc		lx inc; ragged to pseudo-cubic 1-2mm			
2-3 cb-q-(py) vns/m 20-30°		chl-cb shear 15°	q-cb 15°	chl (lx) xcb lx	Mgg	lx selectively + patchily developed; ragged pseudo cubes.			
- 3cm 40° q-cb-chl-py			q-cb 40°						
	sparse f.g. py.								
low angle shear + bx ~ 10°; minor q-cb-chl vns		shear 10-20°	q-cb 20°	chl (lx) (cb)	Mgg mgb	patchily lx dev. wk-mod cl.			
2cm q-cb-cpy vns 20° - pre - po						Mgg (qtz f.g.) - mgb			
	wk py dev 51%								

Additional Comments.

HOLE No. _____

SHEET No. 3

Hole No. MPQ1242

Date.

Additional Comments.

HOLE No. _____

SHEET No.

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MPQD 47

Area — Grid. _____

Coordinates. _____ N. _____ E.

Logged by _____

Collar Azimuth. _____

Inclination. _____

R.L. _____

Date. _____

145
147
149
151
153
155
157
159
161
163
165

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m.	UNIT DEPTH
2-4 cb/g vns per m 30-40° CA (ie 11 S)	sparse dissem py ≤ 1%	* mod fol 40° sheared Fault 25°	fol 40° F25°	chl (cl) lx (py)	Mgb	m.g. mod foliated altered mgb			
low angle 30° cb-g-chl-py in		low angle shear zone ~100° occ cb-g kenta	S S S S	chl cb lx (py)					
	sparse dissem py ≤ 1%	low angle sheared zone 10-20°	S S S S		Mgb				
20° 3cm g-cb-chl vns shearrev		sheared but unbroken	S S S S	chl cb sil lx		stg bla (cl) relict m.f.g. lx in otherwise texture - lat m-gb Mgb fining			
		shearrev + very broken zone 5-15°	S S S S			stg broken and sheared f.m.g. Mgb			
shearrev + chloritized g-cb-(py) vns	occ dissem py also py plated onto planar shears	stg shearing 5-15° CA	S S S S						

Additional Comments.

HOLE No. MPQD 47

SHEET No. 5



DIAMOND DRILLHOLE COMPLETION REPORT

HOLE NO MPQD 48

Page 1 of 1

DOWNHOLE SURVEY		
DEPTH	DIP	MAGNETIC AZIMUTH
On	-50°	085°
44	-47°	92°
57	-46.5°	91°
70	-46.5°	94°
100	-46.5°	94°
136	-46.5°	94°

Oriental Core 57m
-46°

PROJECT MT RINGWOOD JV
Prospect/Location MT PAQUALIN 6200N
Cost Code 3950 Date finished 1-6-88
Precollar NO MPQD 48 Precollar depth 36.0 m
Water at 21 m Hole final depth 137.6 m
Casing left: No/Yes to 6 m
Casing type: Plastic/Metal
Drill type WARNMAN 1000 Drill No

COLLAR DATA	Approximate	Surveyed
Grid Co-ords	<u>6175</u> N	N
	<u>9625</u> E	E
AMG Co-ords	N	N
	E	E
Grid RL	m	m
Grid RL Datum	m	m
AHD RL	m	m
Angle from horizontal	<u>-50°</u>	
Direction	<u>85°</u> <u>Grid/AMG/Mag/True</u>	<u>Grid/AMG/Mag/True</u>

MINERALIZED INTERSECTIONS

FROM	TO	METRES								

Reason for Drillhole:

Test shallow unmineralized mineralization between previous RC & diamond drill intersections in Zama debris.

Completion Report:

O.I.C. Signature



EXPLORATION
DIVISION

PERCUSSION DRILLING. SAMPLE DATA SHEET

Form 270
(Revised 5-86)

SAMPLE NUMBER	DRILLHOLE DEPTH(m)		COLOUR	GLDRCKDE	ALTERATION	VEIN %	WEATHER'G	COMMENT 1	COMMENT 2	COMMENT 3
	FROM	TO								
DIA 364 681	0	3	BW MCIY					LATERITIC DISSOLUTES		
82	3	6	TN N CY					MOSTLY MISS L.		
83	6	9	TN N CY					5% QTZ IM ALUM.		
84	9	12	DGY MISS L		ZCY ILM					
85	12	15			ICY ILM					
86	15	18						LM ON FRACTS		
87	18	21								
88	21	24								
89	24	27				5		PYRITIC; WATER TAB.	D-PY-CB	
90	27	30				5		LM FRACT		
91	30	33				7				
DIA 364 692	33	36	DGY MISS L			7				
						3		END OF PRECOLLAR	D-PY-CB	

SAMPLING RECORD			PROJECT		DRILLING RECORD	
Material: PERC	Depth: 36m	Sampled By: H.W.	Region: EASTERN	Drill Type: PERC	CO-ORDINATES	
Map Ref:	Laboratory Request No.	Date: 31-5-88	Project: MT. RINGWOOD J.V.	R.L. m	Water At 21 m	6170 m N
LINE No.	FROM	Photo No.	Prospect: 6200N	Dip: -50°	Azm: 085°	9625 m E
	TO	Bearing	Cost Code: 3950	Date: 27-5-88	HOLE No: MPQD48	

Original held at PASADENA S.A.

DRILL HOLE GEOLOGICAL LOG

Scale 1/100

Hole No. MPD 48

Area — Grid. PAQUALIN

Coordinates. 6175 N. 9625 E.

Logged by M WARD

Collar Azimuth. 087° Inclin. -60°

R.L. Date. 10/6/88

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
36									
38									
40									
42									
44									
46									
48									
50									
52									
54									
55									

Additional Comments.

HOLE No. MPD 48

SHEET No. 1

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MPD 48

Area — Grid. _____

Coordinates. _____

N. _____

E. _____

Logged by _____

Collar Azimuth. _____

Inclination. _____

R.L. _____

Date. _____

55
57
59
61
63
65
67
69
71
73
75

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
cb-q-py 0.5cm 70°	2% disseminated	mod fol	S2 40°	cb chl py	Mgg	cpy echelon to 4mm assoc.	late py.		
ORIENTED CORE					CDI	Mggfsp+lx; clusters c.g	lx alt to phlog + py		
ragged lx all to phlog + py				chl cb		cc. c.g. qtz phenos to 2mm			
59-7 Vis A; 1mm grain in irreg q-cb-py un; stg chl + phlog alt selv.			mod S2 40°	py	Mgg	mg Mggfsp+lx (-> phl)	59-25-60-0 stg phlog alt 2		
1cm q-cb-py un 30°		mod S2 fol	S2 40°			fining Mgg			
1-3% py				chl cb py	Mgb	vis qtz out	ilm culm. Mgb		
shear healed by q-cb 10-20			S10°	lx chl cb		Mgbfsp			
un sub 11 CA just caught q-cb-chl-py				chl cb py	Mgb	mg Mgbfsp+lx			
1-3% disseminated fg py						mg Mgbfsp+lx			
sub 11 shear q-cb 10°			S10°	chl cb lx					
				lx					
wk S2 fol			wk S2			ilm culm Mgbfsp			

Additional Comments.

HOLE No. MPD 48

SHEET No. 2

Hole No. MPQD 48

Logged by

Date.

Additional Comments.

HOLE No. MPQD 48

SHEET No. 3

Hole No. MPD048

Logged by

Date.

Additional Comments.

HOLE No. MP0048

SHEET No. 4

DRILL HOLE GEOLOGICAL LOG

Scale

Hole No. MPOD 48

Area — Grid.

Coordinates.

N.

E.

Logged by

Collar Azimuth.

Inclination.

R.L.

Date.

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
11'5 - sty shear/faulted 35° broken			F 35° cb ch 1x				sty chl alt + broken core also F/MSH		
11'7 - sty shear/fault 35° - sty bx + broken + Tc? - 3cm q-cb - chl in in 3' shear 40° 1-2% dissem. py			F 35° cb ch 1x						
11'9 - sty low angle shearing - Bx + Fault 40°			F 45° cb ch 1x				sty sheared mgb		
12'1 - F 45° - sty broken + sheared 20-30° sty fol 40°			F 45° cb ch 1x						
12'3 - cb-q filled 1% dissem fractured (but competent) py			F 45° cb ch 1x						
12'5 - 123-9 30° MAJOR fault zone Brecciated + styly chl mgb & q-cb vns (broken)			F 30° cb ch 1x				mgbfsb-bx chl		
12'7 - 125-7 15°			F 15° cb ch 1x						
12'9 - sparse f.g. 128-8 45° 3cm q-cb-sid py 128-9 60° 3cm -ser-chl on 129-7 4-cb-py 70° 2cm 129-9 9-cb-py 50° 3cm blea + seric			F 45° cb ch 1x				less alt mgb fsp + k		
13'1 - 3130-5-130-7 25° Fault Sem True width			F 25° cb ch 1x						
13'3 - mod S2 fol			F 25° cb ch 1x						
13'5 - sparse py			F 25° cb ch 1x						
13'7 - sty S2 35° So 60°			F 35° cb ch 1x						
13'9 - Loh 137.6m			F 35° cb ch 1x						

HOLE No. MPOD 48

SHEET No. 5



HOLE NO MPQD 49

Page 1 of 1

DOWNHOLE SURVEY		
DEPTH	DIP	MAGNETIC AZIMUTH
0	-60°	087°
20	-56°	
42	-54°	090°
90	-54°	089°
141	-54°	090°

ORIENTED CORE 59.8m

PROJECT MT RINGWOOD JV
Prospect/Location MT PAQUALIN 6200N
Cost Code 3950 Date finished 3/6/88
Precollar NO MPG Precollar depth 36.0 m
Water at 17 m Hole final depth 141.0 m
Casing left: No/Yes to 6 m
Casing type: Plastic/Metal
Drill type FOX Drill No _____

COLLAR DATA	Approximate	Surveyed
<u>Grid</u> Co-ords	6225	N
	9625	E
<u>AMG</u> Co-ords		N
		E
<u>Grid</u> RL		m
<u>Grid</u> RL Datum		m
<u>AHD</u> RL		m
Angle from horizontal	-60°	
Direction	82° 08' 7"	
	Grid/AMG/Mag/True	Grid/AMG/Mag/True

MINERALIZED INTERSECTIONS

[illegible]

Reason for Drillhole: ~~the~~ Test shallows primary mineralization between previous RC - diamond drill intersection in Zamboni dolomite

Completion Report:

O.I.C. Signature



EXPLORATION
DIVISION

PERCUSSION DRILLING. SAMPLE DATA SHEET

Form 270
(Revised 5-86)

SAMPLE NUMBER	DRILLHOLE DEPTH(m)		COLOUR	GLDRCKCODE	ALTERATION	VEIN %	WEATHER'G	COMMENT 1	COMMENT 2	COMMENT 3
	FROM	TO								
DA 394693	0	3	TNGYMCY					LATERITIC	MSOLITIES	
694	3	6	TNGYMCY							
695	6	9	GYNCL							
696	9	12	MSL		2CY2LM					
697	12	15			1CY1LM					
698	15	18						WATER TABLE		
699	18	21						UK LMI-AY FRACTS		
700	21	24						TR PY FRACTS		
701	24	27								
702	27	30	MSL							
703	30	33	MSL					MOD. CONTAM		
DA 3947043336	33	36	GYMSL					END OF PRECOLLAR		

SAMPLING RECORD			PROJECT		DRILLING RECORD		
Material: PERC	Depth: 36m	Sampled By: HW	Region: EASTERN	Drill Type: PERC	CO-ORDINATES		
Map Ref:	Laboratory Request No: 35	Date: 31-5-88	Project: MT. RINGWOOD J.V.	R.L. m	Water Table At 18m	6225 m N	
LINE No.	FROM	Photo No.	Prospect: 6200N	Dip: -6.8°	Azm: 087m	9625 m E	
	TO	Bearing	Cost Code: 3950	Date: 30-5-88	HOLE: MPQD49		

Original held at PASADENA S.A.

DRILL HOLE GEOLOGICAL LOG

Scale 1:100

Hole No. MAQD 49

Area — Grid. MT PAQUALIN 6200N.

Coordinates. 6225 N. 9625 E.

Logged by HUGH WARREN

Collar Azimuth. _____ Inclination. _____ R.L. _____

Date. 14-6-88

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m.	UNIT DEPTH
36.0 10cm g									36.0
remains py on fractures.			35 27			MScI	lm-tubd		
38.4 5-15mm highly pyritic beds						38-38.5	rare chert banding		38.7
						MSe	mb Set		Psg
			30						41.5
44.0 10cm g (-py-c)			30			Set	mb MSe.		
			50						
46.8 10cm g (-c)			50						46.8
1/2 diam. py clets.						Md	chilled margin		
48-48.9 1-5mm cb (2 generations, one with f diam. py ~ 5%)			0.15 2				minor fg ex		48.9
						Mgg	highly saussuritized		Pdz.
							abundant fg ex		
52.3-54.3			0.40 5			Mgb	red melanocratic.		51.60
0.1-5mm cb-g (-as), irregular, stressed			0.15 2				has angle shearing, brecciation		52.0
									53.7
55.2 1cm g-c (-py)			0.15 2			Mgg	granophyric, cse		
54-57.2 < 1/2 1mm g-cb-py, 2 major orientations.			0.15 2				skeletal ex		56.0

Additional Comments.

HOLE No. _____

SHEET No. 1 of 1

Hole No. MPQD 49

Logged by H. W.

Collar Azimuth. _____ Inclination. _____ R.L. _____ Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY TEXTURE	Au. p.p.m.	UNIT DEPTH
56						Mgg-bi coarser variant, abundant bi-aggregates		56.0
7						Mgg bi-grain size of lvs decreases suddenly 57.2		56.6
8						Dlg-primatic hb, and cse skelital ilmenites		57.8
9								58.7
60								
1								
2								
3								
4								
65								
6								
7								
8								
9								
0								
1								
2								
3								
4								
75								
6								

Additional Comments.

HOLE No. _____

SHEET No. 2



HOLE N° MPGD 50

Page 1 of 1

DOWNHOLE SURVEY		
DEPTH	DIP	MAGNETIC AZIMUTH
0m	-60°	085°
36m	-58.5	89.5°
70m	illegible	
102m	-57.5	91°
126m	-57.5	91.5°
141	-57.5	91°

ORIENTED CORE
32.8m

PROJECT MT RINGWOOD JV
Prospect/Location MT PAQUALIN 6200N
Cost Code 3950 Date finished 7.6.1988
Precollar NO MPD Precollar depth 24.0 m
Water at ~21 m Hole final depth 141.8 m
Casing left: No/Yes to 6 m
Casing type: Plastic/Metal
Drill type WARMAN 1000 Drill NO

COLLAR DATA	Approximate	Surveyed
<u>Grid</u> Co-ords	6150	N
	9640	E
<u>AMG</u> Co-ords		N
		E
<u>Grid</u> RL		m
<u>Grid</u> RL Datum		m
<u>AHD</u> RL		m
Angle from horizontal	-60°	
Direction	085°	
	Grid/AMG/Mag/True	Grid/AMG/Mag/True

MINERALIZED INTERSECTIONS

[illegible]

Reason for Drillhole: Test up-dip of mineralisation intersected in MPQC33 (in Zone Volcanic = F7 Facies)

Completion Report:

O.I.C. Signature



EXPLORATION
DIVISION

PERCUSSION DRILLING. SAMPLE DATA SHEET

Form 270
(Revised 5-86)

SAMPLE NUMBER	DRILLHOLE DEPTH(m)		COLOUR	GLORCKOE	ALTERATION	VEIN %	WEATHER'G	COMMENT 1	COMMENT 2	COMMENT 3
	FROM	TO								
DA 394705	0	3	TMBMNCY					5% ALLUV QZ		
	06	13	TMBMNCY					10% ALLUV QZ		
	07	16	TNGYMCY+MSPH					END ALLUV AT 8m		
	08	9	GYMSPH		2CY2LM			BASIS PARTIAL OXIDATION		
	09	12			1CY1LM					
	10	15			1LM			LM T (PY) ON FRACTS; MINOR SPT.		
	11	18			SIL			WATER TABLE		
DA 394712	21	24	GYMSPH		SIL			END OF PIECE CLAR		

SAMPLING RECORD			PROJECT		DRILLING RECORD	
Material: PERC	Depth: 24m	Sampled By: MW	Region: EASTERN	Drill Type: PERC	CO-ORDINATES	
Map Ref:	Laboratory Request No.	Date:	Project: MT RINGWOOD J.V.	R.L. m	Water At 18 m	Table
LINE No.	FROM	Photo No.	Prospect: 6200N	Dip: -60°	Azm: 087°	HOLE: MPQD50
	TO	Bearing	Cost Code: 3950	Date:	No	

Original held at PASADENA S.A.

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MP0050

Area — Grid. _____

Coordinates. 6150 N. 9640 E.

Logged by MWARD

Collar Azimuth. _____ Inclination. -60° R.L.

Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
24		End Precollar.							
		occ. py on fract							
26		3cm q-cb-py vn							
		100 sharp shear/blea							
28	2-5% py	stg shear + py 11 CA - cuts stg phlog-py ± blea alt' + ore - prints ± chl							
30		29.5 20° q-chl-py shear ± stg phl-py adj							
	1-3% PY	stg So							
32		31.2 5mm q-chl-py vn 15° 31.3 later (shear?) bucky q vn + cb 31.6 major q-cb-py-apy-chl vn 35° gen, but 32.2 deformed 32.6 dissem apy ± stg alt' blea-phl-py 33.0 5mm q-py vuggy vn sub NCA in vstg alt. 33.3 sharp shear 50 rare dissem apy 33.5 24.2 45° 3cm q-py-cb vn 34.8 2-5% PY 35.3 1cm q-cb-py vn sub NCA, cut at 35.3m by 35.4 4cm q-cb-chl-py vn							
34		36.7 sharp shear 10° 37.0 2-3% py in m.g clots + fg. dissem							
36		38.8 3cm q-cb-py-chl vn 30° 38.9 39.4 3cm 40° q-cb-py-apy vn ± mal apy sets ↓ m.g apy to 39.9m) ore m-fg apy dissem to 1mm 41.1 2-4% py 41.7 thin q-cb-py unc ± vstg phlog alt' ad 41.4 1cm q-cb-py apy vn 70°							
40									
42									

Additional Comments.

HOLE No. MP0050

SHEET No. 1

DRILL HOLE GEOLOGICAL LOG

Scale _____ Hole No. MPQ050

Area — Grid. _____
Coordinates. _____ N. _____ E. Logged by _____

Collar Azimuth. _____ Inclination. _____ R.L. _____ Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
42									
43.1 1 1/2 cm q-cb vn 40°	1-3% finely eliesen + clotted py	stg S2	S2 30°	chl X xcb py phl lx	DI ↓ Mgg	v. stg alt Mgg-DI			
43.65 8mm q-cb vn 80°						↓ decr. alt?			
	1-2% py	stg S2 35-40°	S2 35-40°	chl cb py		↓ e.g. ilm appear, wkly alt to lx in cores + rims			
46						Mgg - DI + ilm culm			
47.2 2cm q-cb-spic-py vn 40°									
47.5 several 1 1/2 cm q-cb-ch vn 70° + stg mod shor ss.	chl alt selus		35°	(lx) chl cb	Mgg	↓ qtz phenos clear, one style alt decr, stg ch Mggfsp ilm			
48	1-2% py					↓ vis ↓ qtz out			
50.2									
50.4 stg broken + wkly oxid. water course in F?									
52									
52.9 3cm ?pegmatite vn; e.g. cb + amph ~85°						m-g chloritic Mgbfs.			
	1-2% py								
54									
54.5 2cm q-cb-py vn 70° (late?)						wkly qtz phenocrystic			
55.2 stg fol e.g. Mgbfsp + lx	stg fol 25° (not S2?)			chl cb lx	Mgg	m-cg Mggfsp + lx			
55.9						↓ chl incr.			
57.0 branching 1cm q-cb-po-qpy vn				chl X 1 cgl ilm					
57.3									
	1-2% py	wt. mod S2	S2 30°			m-gfsp + culm ilm			
60									
61.0 2cm q-cb-(py) vn 80°				chl cb (phl)					
62									

Additional Comments.

HOLE No. MPQ050

SHEET No. 2

DRILL HOLE GEOLOGICAL LOG

Scale

Hole No. MPQD 50

Area — Grid. _____

Coordinates. _____ N. _____ E.

Logged by _____

Collar Azimuth. _____ Inclination. _____ R.L. _____ Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m.	UNIT DEPTH
62									
64		64 km shear 30° q-cb-chl-ss	wk fol 30°	S ₂ 30°	Y X ch cb lx (phl)	Mgb	mod cb+chl alt m.g. Mgb fsp + lx m.g. lx c const. partial ?phlog alt		
66	1% fg py				Y		pheno Qtz decr.		
68		mod S ₂ 35°	S ₂ 35°	ch cb lx (phl)	Mgb	m.g. Mgb fsp + lx cb+chl alt, lx → phl + py			
70	sparse py	mod S ₂ 35°			Y				
72					X				
74					ch cb (lx)	Mgb	wkly blea (cb alt) m.g. Mgb fsp + lx		
76	sparse fg py				x ch cb (lx)				
78	77.5 2cm q-cb in 75°								
80	80.1 4cm q-cb-act on 75° epi?						massive m.g. amph stable Mgb fsp patchy cb alt.		
82		wk S ₂ fol 35°							

Additional Comments.

HOLE No. MPQD 50

SHEET No. 3

DRILL HOLE GEOLOGICAL LOG

Scale

Hole No.

MP0050

Area — Grid.

Coordinates.

N.

E.

Logged by

Collar Azimuth.

Inclination.

R.L.

Date.

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
82				chl x cb					
84	84.2	several q-cb vns; irreg but gen 85°		chl (cb)	mg	mg mgbfsp; mod chl alt ² + patchy incr cb alt			
86									
88	87.4 87.8	stger shear fol 30°	ss s 35°	x		chl+cb incr in shears			
	88.7	3mm pink cb-q-py vns 25°	ss s 40°	(cb) chl	mg	↓ coarsening c.g mgbfsp			
90									
92	91.7 92	4mm q-cb-seric-chl vns (shear)-25° stger shear fol 35° incr cb+chl	ss s 25°	x cb chl					
	93	stg Fault/shear core at 93.3 by chl-bx	ss s 40°	x cb		fract + sheared E q-cb vns mgbfsp + lx			
94	93.4 93.7 94.2	major F-shear 20°; core = 83° q-cb-pkfsp vns at odd angles + related to shearing	F 20° s 20°	x lx					
96	95.6	major Fault-shear zone healed by q-cb pkcb-py vns @ 10-5°	ss s 5°	x x					
	97.0		ss s	chl cb lx		sheared mgbfsp + lx			
98	98	shear zone 15° q-cb-pkcb-py	ss s 15°	x					
	98.4		ss s	x					
	99	series of shears/faults q etc filled; gen 10-20°	ss s	x					
100			ss s 10°	chl cb lx					
	101		ss s	x					
102		stg fol 30°	ss s	x					

Additional Comments.

HOLE No.

MP0050

SHEET No. 4

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MPD50

Area — Grid. _____

Coordinates. _____

N. _____

E. _____

Logged by _____

Collar Azimuth. _____

Inclination. _____

R.L. _____

Date. _____

VEINS	SULPHIDES MINER'LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
102				chl cb lx			fg qtz phenos -stgly corroded mod alt Mgq fsp + k		
104									
104.7 104.8							mod sheared zone q-cb-chl un 30°		
106				cb chl (lx)					
							sparse fg py		
107.1 4cm							q-cb-?to-chl un 40°		
107.7 107.8				chl cb			stg q-cb-pl-cb-chl shear 15° E' over cb alt adj		
110							5cm q-cb un 40°		
							occ q-cb plc fsp vns gen 40°		
112									
114							mod alt chl + patchy ch alt		
116				cb chl					
116.3 117.05							q-cb-chl-to un; irreg margins but gen 90°		
118									
							4-6 vns/lm q-cb ± py gen 30° (ie S ₂)		
170				chl cb			1cm q-cb-to -po-ccpy un 30°		
121.5 122.3							stg fol (shear) 20° E q-cb-chl un 40°		

Additional Comments.

HOLE No. MPD50

SHEET No. 5

DRILL HOLE GEOLOGICAL LOG

Scale

Hole No.

MP0050

Area — Grid.

Coordinates.

N.

E.

Logged by

Collar Azimuth.

Inclination.

R.L.

Date.

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
122				X					
				chl					
				cb					
124				X					
124.2				chl					
				cb					
125.5				X					
125.6				chl					
126				cb					
				chl					
128				(cb)					
128.9				X					
130									
131.85				chl					
132				(cb)					
133.3				X					
134									
134.5				X					
136									
138				X					
138.2				chl					
138.5				(cb)					
140				X					
				cb					
				xs:l					
142									

Additional Comments.

HOLE No.

MP0050

SHEET No.

6



HOLE NO *MP0051*

Page 1 of 1

DOWNHOLE SURVEY		
DEPTH	DIP	MAGNETIC AZIMUTH
0m	-60°	087°
66m	-53°	895°
77m	-52°	—
107m	-52°	895°
137m	-52°	890°
167m	-52°	885°

PROJECT MH RINGWOOD JV
Prospect/Location PAQUALIN 6200V
Cost Code 3950 Date finished 10.6.88
Precollar No MPD Precollar depth 65.0 m
Water at 15 m Hole final depth 167.5 m
Casing left: No/Yes to 6 m
Casing type: Plastic/Metal
Drill type FOX Drill No

COLLAR DATA		Approximate	Surveyed
Grid Co-ords	6225	N	N
	9600	E	E
AMG Co-ords		N	N
		E	E
Grid RL		m	m
Grid RL Datum		m	m
AHD RL		m	m
Angle from horizontal	-60°		
Direction	087°		
	Grid/AMG/Mag/True		Grid/AMG/Mag/True

MINERALIZED INTERSECTIONS

[illegible]

Reason for Drillhole:

Completion Report:

O.I.C. Signature

Form 270
(Revised 5-86)

SAMPLE NUMBER		DRILLHOLE DEPTH(m)		COLOUR	GLDRCKCDE	ALTERATION	VEIN %	WEATHER'G.	COMMENT 1.	COMMENT 2	COMMENT 3
FROM	TO										
DA37	713	0	13	TMGY							
	14	3	16	TMGY							
	15	6	9	LGYYFM							
	16	9	12	GY	MSPH - CC	2CY:2LM			MINOR SPTNG - CHL EX ANDAL.		
	17	12	15	L		1CY:1LM					
	18	15	18			1LM					
	19	18	21			1LM					
	20	21	24								
	21	24	27						OCC. SPTNG - HO ANFEL SIC		
	22	27	30								
	23	30	33								
	24	33	36								
	25	36	39								
	26	39	42								
	27	42	45								
	28	45	48								
	29	48	51			SILIC					
	30	51	54			SILIC			BROKEN		
	31	54	57			SILIC			BROKEN - MINOR PY		
	32	57	60						BROKEN		
DA37	734	63	65	GY	MSPH						
									END OF PRECOLLAR		

SAMPLING RECORD			PROJECT		DRILLING RECORD	
Material: PERC	Depth: 65m	Sampled By: ML	Region: EASTERN	Drill Type: PERC	CO-ORDINATES	
Map Ref:	Laboratory Request No.	Date:	Project: MT. RINGWOOD J.V.	R.L. _____ m	Water At _____ m	_____ m N
LINE No.	FROM _____	Photo No. _____	Prospect: 6200N	Dip: -60°	Table _____ m	_____ m E
	TO _____	Bearing _____	Cost Code: 3950	Azm: 087°	HOLE: MPQD51	
				Date: _____	No _____	

DRILL HOLE GEOLOGICAL LOG

Scale 1:100

Hole No. MPQD51

Area — Grid. PAQUALIN

Coordinates. 6228 N. 9600 E.

Logged by

Collar Azimuth. 087° Inclination. -60° R.L.

Date.

VEINS	SULPHIDES MINER'LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
65							End of Precollar 65.0m		
67							spotted, hornfelsic cream-grey Psg tmsph - ib msh		
69							spotted meta shales + silt (phyll)		
73							msh - mspsh		
75							↓ inner silic + blea		
77							bedding highlighted by meta of comp diff in units - chl, qtz devel.		
79							stgly h'falsed Psg - some coarse ex - endelvaik (now chl + cb)		
81							vfg chill margin ↓ coarsening		
83							f-mg Mgbfsp + k fine, ragged lx in mg groundmass		
85							m-fg apy in stg alt mg q		
87							v stg alt mgg fsp + k		

Additional Comments.

HOLE No. MPQD51

SHEET No. 1

DRILL HOLE GEOLOGICAL LOG

Scale

Hole No. MP0051

Area — Grid.

Coordinates.

N.

E.

Logged by

Collar Azimuth.

Inclination.

R.L.

Date.

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
84 84.3-84.5 q-chl-cb-py-apy un				ch cb py apy ph lx	Mgg	granophytic Mgg v. stg alt			
84.6-85.0 q-chl-cb-py-apy un				ch cb py lx	Mgg	stg alt mgtf + b			
85.0 - irreg folded vng				ch cb py lx	Mgg				
85.3 q-chl-cb-py-apy shear 20°				ch cb py lx	Mgg				
85.3-85.65 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
85.65-85.8 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
85.8-86.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
86 86.0-86.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
86.5-87.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
87.0-87.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
87.5-88.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
88 88.0-88.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
88.5-89.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
89.0-89.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
89.5-90.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
90 90.0-90.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
90.5-91.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
91.0-91.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
91.5-92.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
92 92.0-92.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
92.5-93.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
93.0-93.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
93.5-94.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
94 94.0-94.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
94.5-95.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
95.0-95.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
95.5-96.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
96 96.0-96.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
96.5-97.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
97.0-97.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
97.5-98.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
98 98.0-98.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
98.5-99.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
99.0-99.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
99.5-100.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
100 100.0-100.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
100.5-101.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
101.0-101.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
101.5-102.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
102 102.0-102.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
102.5-103.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
103.0-103.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
103.5-104.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
104 104.0-104.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
104.5-105.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
105.0-105.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
105.5-106.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
106 106.0-106.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
106.5-107.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
107.0-107.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
107.5-108.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
108 108.0-108.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
108.5-109.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
109.0-109.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
109.5-110.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
110 110.0-110.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
110.5-111.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
111.0-111.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
111.5-112.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
112 112.0-112.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
112.5-113.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
113.0-113.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
113.5-114.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
114 114.0-114.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
114.5-115.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
115.0-115.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
115.5-116.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
116 116.0-116.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
116.5-117.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
117.0-117.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
117.5-118.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
118 118.0-118.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
118.5-119.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
119.0-119.5 q-cb-chl un in shear 75°				ch cb py lx	Mgg				
119.5-120.0 q-cb-chl un in shear 75°				ch cb py lx	Mgg				

Additional Comments.

HOLE No.

MP0051

SHEET No. 2

DRILL HOLE GEOLOGICAL LOG

Scale _____ Hole No. MP0051

Area — Grid. _____
Coordinates. _____ N. _____ E.

Logged by _____
Collar Azimuth. _____ Inclination. _____ R.L. _____ Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
104				ch (cb)					
	sparse py			14 12 x	mb	ol. green massive mgbfsp + ilm/tr			
106				ych cb					
106.8 35° 107.3 25°	bucky q-cb un				low				
108	sparse py								
110				ch (cb)	mb	wtly alt mgbfsp + culm ilm			
		ss							
112	sparse f.g py			ch cb ix					
112.8 113.1	15° shear zone 2 q-cb ungs 10cm true width	ss							
114	sty 10° fol (post S ₂)			ch cb ix					
114.6	q-cb-py un 1cm 15°								
116				ch (cb)	mb	massive dgn mgbfsp + ilm			
	low angle pkcb heated shear 10°	ss							
	" " " " " " 10°	ss		ch (cb)					
120	2-5 pkcb ungs/m usually 10-20° cn			ch (cb)		massive mgbfsp + ilm			
122.4 122.7	F-br shear 35°	ss		ch cb ix	mb	stger alt^ andy F			

Additional Comments.

HOLE No. MP0051

SHEET No. 3

DRILL HOLE GEOLOGICAL LOG

Scale _____ Hole No. MPQD51

Area — Grid. _____

Coordinates. _____ N. _____ E.

Logged by _____

Collar Azimuth. _____ Inclination. _____ R.L. _____ Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
124				chl (cb)					
126	rare fg py				Mgb	massive mg	Mgbfsp		
128	low angle shear - broken			chl cb lx ser?					
130	del. q-cb-chl - py un ~30° -sheared q-cb-pym 70°	stg fol	fol 40°	chl cb lx	Mgb	massive Mgbfsp + lx			
132	70° stg shear q-cb-chl-seric			chl cb lx ser					
134	vstg shear zone + q-cb-seric-chl gen 30-40° -mod shear 40°			chl cb lx ser	Mgb				
136	mod-stg shear 6-30° control by q-cb un 30°								
138				chl (cb)		massive	Mgbfsp (+lx)		
140	mod shear 15°			chl cb lx	Mgb				
142									
144									

Additional Comments.

HOLE No. MPQD51

SHEET No. 4

DRILL HOLE GEOLOGICAL LOG

Scale

Hole No. MP0051

Area — Grid. _____

Coordinates. _____ N. _____ E.

Logged by _____

Collar Azimuth. _____

Inclination. _____

R.L. _____

Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
144 1.5 cm q-cb in 80° 1.5 cm cb in 85°				chl (cb)			massive mgbfsp (+ilm)		
				x					
148 148-4 4 cm q-cb-chl (bk) in 80°									
				x					
152 } q-cb healed minor shear } shear/F				chl cb lx			stg alt adj shears mgbfsp + lx		
				chl cb lx					
154				x mgb					
				x					
158 157.5 2 cm q-cb in (shears) 15°				chl cb lx			fining ↓		
				x					
160				chl (cb)			fg mgb (fsp)		
				x					
162 } v. broken core. } low angle 20° shears									
164		5050°		trmsph			meta + fract PSG - trmsph.		

Additional Comments.

HOLE No. MP0051

SHEET No. 5

Scale

Hole No.

MPQ051

Area — Grid.

Coordinates.

N.

E.

Logged by

Collar Azimuth.

Inclination.

R.L.

Date.

Additional Comments.

HOLE No.

MP0051



HOLE NO MPQDS-2

Page 1 of 1

DOWNHOLE SURVEY		
DEPTH	DIP	MAGNETIC AZIMUTH
0m	-60°	087°
66m	-48°	-
90m	-47°	089°
130m	-47°	095°
170m	-47°	094°

ORIENTED CORE
32.6-32.9m.

PROJECT MT RINGWOOD JV
Prospect/Location PAQUALIN 6200 N
Cost Code 3950 Date finished 10.6.88
Precollar No MP6 Precollar depth 660 m
Water at 21 m Hole final depth 171.0 m
Casing left: No ☒ Yes to 6 m
Casing type: Plastic/Metal
Drill type WARMAN Drill No

COLLAR DATA		Approximate	Surveyed
<u>Grid</u> Co-ords	6150	N	N
	9600	E	E
<u>AMG</u> Co-ords		N	N
		E	E
<u>Grid</u> RL		m	m
<u>Grid</u> RL Datum		m	m
<u>AHD</u> RL		m	m
Angle from horizontal	-66°		
Direction	087°		
	Grid/AMG/Mag/True		Grid/AMG/Mag/True

MINERALIZED INTERSECTIONS

[illegible]

Reason for Drillhole:

Completion Report:

O.I.C. Signature



EXPLORATION
DIVISION

PERCUSSION DRILLING. SAMPLE DATA SHEET

Form 270
(Revised 5-86)

SAMPLE NUMBER	DRILLHOLE DEPTH(m)		COLOUR	GLORCKCODE	ALTERATION	VEIN %	WEATHER'G	COMMENT 1	COMMENT 2	COMMENT 3
	FROM	TO								
DA3347	35	0	3	TMBW	MCN			OXID NO TRASE FRAGS		
	36	3	16	TMGY	MCN			MINOR ALKAL QTR		
	37	6	9	TMGY	MCN + MSPH	4 CY 2 LM		BAS G ALLUVS ABOUT 7M		
	38	9	12	GY	MSPH	2 CY 2 LM				
	39	11	15			1 CY 1 LM				
	40	15	18			1 CY 1 LM				
	41	18	21					LM FRACTS ; MINOR CHL SPTNG		
	42	21	24					WATER TABLE		
	43	24	27	GY						
	44	27	29	DGY						
	45	30	33		MSPH			MINOR PY FRACTS + IDISSEMS		
	46	33	36		MSPH			CHL SPTNG EX ANDAL		
	47	36	39							
	48	39	42							
	49	42	45		MSPH			LAMINATED; TCE CARB?		
	50	45	48		MSPH					
	51	48	51							
	52	51	54							
	53	54	57							
	54	57	60			SILIC				
	55	60	63			SILIC				
DA3347	56	63	66	DGY	MSPH	SILIC		SPTNG - CHL EX ANDAL; Q		
								END OF RECOLLAR		

SAMPLING RECORD			PROJECT		DRILLING RECORD	
Material: PERC	Depth: 66m	Sampled Logged By: B.M.W.	Region: EASTERN	Drill Type: PERC	COORDINATES	
Map Ref:	Laboratory Request No:	Date: 6-6-88	Project: MT. RINGWOOD J.V.	R.L. m	Water Table 21m	6150 m N
LINE No:	FROM	Photo No	Prospect: 6200N	Dip -60°	Azm 087°	9600 m E
	TO	Bearing	Cost Code: 3950	Date: 6-6-88	HOLE No: MPQDS2	

Original held at PASADENA S.A.

DRILL HOLE GEOLOGICAL LOG

Scale 1:100

Hole No. MPQD52

Area — Grid. PAQUALIN 6200N

Coordinates. 6150 N. 9600 E.

Logged by M. WARD

Collar Azimuth. 087° Inclination. -60° R.L.

Date. _____

VEINS	SULPHIDES MINER'LG %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
66		End Perc. Precollar							
		5cm g.v. in contact				ENSph	d grey silic. + a' felsar ENSph - (Psg)		
68		68.4-68.9 g-cb-py-qpy-sph vns 0.5-3cm wide, 45°, 30°, 210° 10° vns is to edge; blk magms ± qpy.	fract 2mm			mg	f-mg. mgb + f-g poppy. lx veined, qpy mgb		
70		70.3 cb-chl vns 1cm 10° chl-cb vns 11 52 40°	Sz 35°	chl cb py lx		mg	Mgbsfsp + lx		
72		71.6 30° contact to g-cb-py-qpy-sph vns irregular folded vns in stgly blk retorted mgb, vns appears brecciated and boudinaged	wk 40°	py qpy cb chl lx/phl		mg	~10% dissem Apr + 3-5% py + sphal zone ± phlog alt + stg blk.		
74		72.7 rapid end to vng rpy zone (c.g Apr)					minor f-g qtz phenos		
76		74 40° chl-cb vns 76 0.5cm g-cb (py)-20°				mg	m-g Mg(q)fsp lx incipient only alt of ilm		
78		1-2% dissem py		chl cb (py)		mg	mg amphib stble, ilm culm. gablos ilm to 2mm; occ. lx alt		
80		77.7 fract 30°	fract				eg ilm culm zone 77.7 eg pseudo cubic ilm		
82		minor fract 5°; g-cb filler		chl cb py lx		mg	eg culm ilm Mgbsfsp		
84		1 alt' n							
86		shear flt 30-40° (ph, cb, lx)		cb py lx phlog		m-cg	Mgbsfsp + lx		
88		82.9 80° chl-cb vns - core of alt'							
90		83.8 10° 1cm g-cb-py-chl vns	nod 52			m-cg	Mgbsfsp + lx		
92		84.5 stg sheaves lx-phlog + py.	20°						

Additional Comments.

HOLE No. MPQD52

SHEET No. 1

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MP0052

Area — Grid. _____

Coordinates. _____

N. _____

E. _____

Logged by _____

Collar Azimuth. _____

Inclination. _____

R.L. _____

Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
85 late cb	1-2% py		late cb (nca)	cb py (nca)	Mgb	mg alt mgbfsp + lv			
86.5 15cm true width q-cb-py-qtz-chl un (isphl?)	25% (H ₂ S?)					chl alt ⁿ inc			
87 -v stg bla rob rphlog selvs				bln phlog cb-chl py		stg alt on vn selvs -bla rphlog/py			
89 1-2% Apy	stg alt ⁿ cb chl lv → phl + py		mod S ₂ 45°						
intense phl, py, cb	3% py			v stg phlog py	Mgb	culm ilm zone mgbfsp ilm.			
late cb-q vns (?H ₂ S)						alt ⁿ decr.			
91 91.2 5mm q-cb-py vn 30°		mod fol 20°	fol 20° (?S ₂)	chl cb lv (py)					
93 5mm q-cb (py) vn 30°									
95 6mm q-cb vn 80°	sparse allosa fg py	wk fol	40° S ₂	chl (S) (py)	Mgb	mg amph stable mgbfsp + fg il			
97						coarsening			
99						greinophytic zone (but no qtz!)			
						intergran Amph + 2 fsp			
101			5-10° NOT S ₂	chl (cb)	Mgb	mg amph stable mgbfsp + fg il			
late, low angle q-cb vns (narrow)									
-80° 3cm q-cb vn									
103	sparse py			phlog py chl		stg alt ⁿ (missed in?)			
				cb py chl (phl)		mg mgbfsp			
105									

Additional Comments.

HOLE No. MP0052

SHEET No. 2

DRILL HOLE GEOLOGICAL LOG

Scale

Hole No. MPQD 52

Area — Grid.

Coordinates.

N.

E.

Logged by

Collar Azimuth.

Inclination.

R.L.

Date.

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
pk cb fracts 40	sparse py, py		fract 40°	cb ch py			ms MgbFsp + ilm/ix mod. alt.		
cb-q vns cut by pk cb fract ~ 20			fract 20°	ch cb ix					
108 4 100% q-cb-chl - 200% py in									
108 7 45° 100% q-cb-chl					Mgb				
110 4 headed box - 2 shear q-cb-chl (py)		massive							
111 2 100% 15° q-cb-chl vns - cut by pk cb vns sparse py							ms MgbFsp + ilm		
				ch (cb)	Mgb				
5mm q-cb vns							f-mg MgbFsp + ilm rel undr		
116 5 300% q-cb-chl vns									
occ fg py									
dissol			mass				f-mg MgbFsp + ilm		
							inner cb, chl alt		
		broken			Mgb				
				ch cb					
3-7 /m late cb-q vns 10-45°							f-mg MgbFsp + ilm		

Additional Comments.

HOLE No. MPQD 52

SHEET No. 3

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MPQ052

Area — Grid. _____

Coordinates. _____ N. _____ E.

Logged by _____

Collar Azimuth. _____ Inclination. _____ R.L. _____

Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m.	UNIT DEPTH
125	narrow late q-cb vns	<1% fs py	35° fol	chl cb py	rgb	f-m.s. ampb stb Mgbfsp + fs iln			
127									
129	128-7 5mm q-d-py vns 25°	61	52° 30°						
131									
133	132-3 80° 2cm q-cb vns	sparse f.g (L12) py	mod 52° 40°	chl cb lx py	rgb	f-m.s. mgbfsp rln ↓ coarsening m-c.s mgbfsp alt' incr. (+lx)			
135									
137	136-9 2cm q-cb vns 80°	1-2% py	mod 52° 35°	chl cb lx py	rgb	stg alt' mgbfsp + lx			
139	141-2 1cm q-cb-py vns 45°	42-3 APV appears	stg	chl cb py apv phl	rgb	stg alt' mgbfsp + lx f-m.s. gtz phenos -mgs fsp + b			
141	142-9 1cm q-cb-py vns 45°	42-3 APV appears	stg	chl cb py apv phl	rgb	stg alt' mgbfsp + lx f-m.s. gtz phenos -mgs fsp + b			
143	142-9 1cm q-cb-py vns 45°	42-3 APV appears	stg	chl cb py apv phl	rgb	stg alt' mgbfsp + lx f-m.s. gtz phenos -mgs fsp + b			
145	142-9 1cm q-cb-py vns 45°	42-3 APV appears	stg	chl cb py apv phl	rgb	stg alt' mgbfsp + lx f-m.s. gtz phenos -mgs fsp + b			

Additional Comments.

HOLE No. MPQ052

SHEET No. 4

DRILL HOLE GEOLOGICAL LOG

Scale

Hole No.

MP0052

Area — Grid.

Coordinates.

N.

E.

Logged by

Collar Azimuth.

Inclination.

R.L.

Date.

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
145 u 5m q-cb-py - ccpy ur			mass	(ch) (cb)			mgbfsp + f.s. ila		
147 45° q-cb ur cut by 10° pk cb ur							low alt.		
pk cb shear 20°									
149 pk cb shear 20° S				(ch) (cb)			massive mgbfsp + ila		
							f.s. ila		
151 2m q-cb ur 10°			5°				tending to f.s. ila		
< 1% py			mass				↓ pyrophyllite + qtz		
153 pk cb shear 5°			5°				m-c.s mgbfsp + ila		
							↓ + q		
							mgg fsp.		
155 pk cb - q - cb shear 10°			10°	(ch) (cb)			ol. green massive		
< 1% py							mgg fsp + ila		
157			mass						
159 2m cb-q- ur 25°			45°	ch cb py			alt ⁿ incr		
Shear / R 7m wide 45°									
161 < 1% p		shear fabric	dec. 30°				m-g decuss mgbfsp + ila		
163									
165 v. wlk R/L							alt ⁿ dec.		
							massive mg mgbfsp + ila		

Additional Comments.

HOLE No.

MP0052

SHEET No.

5

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MPQ052

Area — Grid. _____

Coordinates. _____

N. _____

E. _____

Logged by _____

Collar Azimuth. _____

Inclination. _____

R.L. _____

Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
165 0.5m q-cb-po-ser vn 30"				chl cb lv	mg	m-f.g.	mg		
167		mod S ₂	S ₂ 40	chlcb phl	rel	phlog/li alt on md			
167 H'felsat pk-gy msph chl ex andal spta		fract fract			msph	tr.			
171 EoH 171.0.									

Additional Comments.

HOLE No. MPQ052

SHEET No. 6



DIAMOND DRILLHOLE COMPLETION REPORT

HOLE NO MPQ053

Page 1 of 1

DOWNHOLE SURVEY		
DEPTH	DIP	MAGNETIC AZIMUTH
0m	-60°	086°
41m	-55°	091°
116m	-52°	092°
146m	-51°	092.5°

PROJECT MT RINGWOOD JV
Prospect/Location PAQUALIN 6200N
Cost Code 3950 Date finished 15/6/88
Precollar NO MPQ Precollar depth 1539.0
Water at 18 m Hole final depth 1460 m
Casing left: No/Yes to 6 m
Casing type: Plastic/Metal
Drill type FOX Drill NO

COLLAR DATA		Approximate	Surveyed
Grid Co-ords	<u>6275</u>	N	N
	<u>9625</u>	E	E
AMG Co-ords		N	N
		E	E
Grid RL		m	m
Grid RL Datum		m	m
AHD RL		m	m
Angle from horizontal	<u>-60°</u>		
Direction	<u>086°</u>		
	Grid/AMG/Mag/True	Grid/AMG/Mag/True	

MINERALIZED INTERSECTIONS

FROM	TO	METRES								

Reason for Drillhole:

Completion Report:

O.I.C. Signature

DRILL HOLE GEOLOGICAL LOG

Scale

Hole No. MP0053

Area — Grid.

Coordinates. 6275 N. 9625 E.

Logged by M. WARD

Collar Azimuth. 086° Inclination. -60° R.L.

Date.

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
<u>End Precollar.</u>									
39	29.3	3cm q-cb - ? to un 400							
40		v. broken + fract 41% py on fract + 50			EMSph		spotted h'fctsd PSG		
41		v. broken Stg fract. by - Fault			EMSph		EMSph - m ₂ - cherty		
43		50 400			sil cb	EMSph	gray-cream cherty phyllite lens allent. by net		
45	44.7	3cm q-cb un 1150			sil		massive gy EMSan (? f.g. msw?)		
45	44.8	3cm q-cb - ? to un + amy phyl un 400 h. 50			sil cb	EMSph	tsct (silic repl. msp?) f.g. msw - c.g. tSan f.g. EMSph		
47		Sharp concordant contact 40° 1-2% dissemin py			sil cb	MS	v.fg. chert margin.		
49	48.7	qpy appears - c.g. chert to 5% dissemin in 49.0 16cm q-cb-py-qpy chl v. py, rock cleared 49.2 shear 30° cuts off v. (broken core 49.1) 49.6 2cm q-cb-py un 40° 49.75 2cm " " " " 70°			sil cb	Mgb	v. coarsening c.g. pebbly, in stg alt (but no blaw) in cpy 2-c) phlog.		
51	49.5-50.0	1-5% dissemin qpy + LBN min f.g. 49.7-50.7			sil cb	Mgb	v. stg alt, v.fg. qtz phenos appear 50%		
53	51.6	2cm q-cb-py-chl un 40° E mal qpy selus 51.7 cpy and 52.5 0.5cm q-cb-py-py un 40° v. stg alt 52.7 3mm q-cb-py-qpy (chert tail out) 2% py dissems + blebs			sil cb	Mgb	1x to 3mm - corroded incr phlog		
55		inreg q-cb-py vng gen 20° (skinned) - not ore tip			sil cb	Mgb	v. stg alt, esp phlog		
57	55.5	4cm q-cb-py un 25° E wk qpy selus assoc v. stg alt incl 40° + phlog stg shearing 40°			sil cb	Mgb	alt ² decr slightly; v. leucite + phi mg mgsfsp 2/4		
58	56.5	4mm q-py-cb un 40° 1-3% py incip qtz healed fract 40°			sil cb				

Additional Comments.

HOLE No. MP0053

SHEET No. 1

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MP0053

Area — Grid. _____

Coordinates. _____

N. _____

E. _____

Logged by _____

Collar Azimuth. _____

Inclination. _____

R.L. _____

Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
58 } thin q-cb vns 45° in fracts 1% disempr } ORIENTED CORE		wk shearing 25°		chl cb (ln)	Mgg	less alt, more massive Mgg fsp (ln)			
60 60.2 q-cb pk fsp, chl shear 15° + 11 thin tensional vns			sf	chl (cb)	↓ Mgb	1x out, qtz decr.			
61.2 pk fsp, 1g shear 15° 61.3 - peg vns? ag amphi, fsp			sf			++ peg? amph stable, culm ilm			
62 62.6 pk fsp - q-cb shear 5-10°, py in v.						Mgb fsp			
63.6 2cm 45° q-cb (py) vns < 16 py			mod sz 50°	chl cb py		ilm to 3mm. (cylr) m.c.g Mgb fsp + ilm.			
66 65.6 3cm q-cb chl shear 45° + as soc crackle vns 66.5 1cm q- (py) vns 60° 67.0 2cm q-cb chl - 2fc vns 10° 67.3 1cm branching q-cb-py-py vns (67.5-67.8) 67.6 1cm branching q-cb-py-py vns (67.5-67.8) 68.1 x cutting (contg) q-cb-py-py vns 68.5 branching 10-60° q-cb-py-py vns < 1cm			?-F- mod sz 40°	chl cb py		incr alt° sty alt° mgb fsp + lx (assoc py vng)			
70 70.4 1cm irreg q-cb vns 25° 2% disempr			mod sz 30°	chl (cb)		alt° decr. to amph stable mgb fsp + ilm.			
72 72.3 x cutting q-cb vng 30° + 10° - latter a slr, fill = wk narrow q vns in show for 30° culm sz?				chl					
74 74.5-74.6 3cm q-cb - 2fc - ?chl vns 20°						massive ilm - culm Mgb fsp rilm			
76 75.4 pk fsp - cb-g filled fract HCP 1% dissem pr				chl (cb)					
78 77.1 50° F zone 3cm - br; inner chl				chl (cb)		amph stable Mgb fsp rilm			

Additional Comments.

HOLE No. MP0053

SHEET No. 2

DRILL HOLE GEOLOGICAL LOG

Scale

Hole No. MP005

Area — Grid.

Coordinates.

N.

E.

Logged by

Collar Azimuth.

Inclination.

R.L.

Date.

VEINS	SULPHIDES MINER LGY %	STRUCTURE	VEINS STRUC	ALT N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
78									
79.2 0.5cm q-py-chl-vn 50°				chl x (cb) py	Mgb		amph stude (pyritic)		
80 72.3 1cm q-vn 50°				x x chl (cb)			Mgb fsp + f.g. il		
81.8 0.5cm q-chl-cb vn 30°-star				x x chl cb			trans to more fctic phase + incr cb all		
83.8 2cm q-cb vn 25°				x x			20I or all		
85.6 0.5cm q-cb-k vn 30°				x			dark f-mg Mgb fsp + il fsp occ porph.		
86.4 1cm q-cb-vn 30°				x chl x cb			incr alt		
86.7 3cm q-cb-fsp vn 45°				lx	Mgb		incr alt related to miner staining + ? late vns		
87.4 3cm q-cb vn 45° (star)				x x chl cb			decr alt		
88				x x chl cb					
90				x x chl cb					
90.6 1.5cm branching q-cb-py				x chl fb			massive Mgb fsp + f.g. il		
wk lake q-cb pl fsp vns				x					
92				x chl cb					
93.6 broken core - shear & q-chl-cb vn 25°				x					
93.3 broken - star 30°				x chl cb	Mgb		incr alt - staining		
94.5 broken - star 30°				x chl cb					
95.3 2cm q-cb vn 45°				x x py					
96.6 broken - low angle star				x x					
97.3 4cm q-py-cb vn 75° & later sigradit				x					
x cutting pk cb + gn. silice									
98									

Additional Comments.

HOLE No.

MP0053

SHEET No.

3

DRILL HOLE GEOLOGICAL LOG

Scale

Hole No. MP0053

Area — Grid.

Coordinates.

N.

E.

Logged by

Collar Azimuth.

Inclination.

R.L.

Date.

VEINS	SULPHIDES MINER'LG %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DE.
98									
98.5	1.5cm q- py _{30°} in blea mrgns			chl cb 1x			↓ inc alt ⁿ assoc un.		
100	99.7 25° q-cb-seric pk fsp shaw			x	myb				
	12 PY								
102							dk gn massive mgbfsp		
102.9	mylon mgb - sty fol 50°								
103.3				chl (cb)					
104	104.3 pk fsp - cb-q shaw 15°	wk ? S ₂							
106					myb		dk gn massive mgbfsp		
106.9	ires shaw induced q-cb-chl (+py) alt			x	chl cb py				
107.6	inc py in shaw								
108		sty S ₂ fol	S ₂ 30°	x	chl (cb)		fol mgbfsp		
		mod fol	S ₂ 40°						
110							↓ dec		
111.6	1.5cm q-to-chl-cb in 80°			chl (cb)					
112	12 PY	mod S ₂ fol	S ₂ 40°		myb		↓ inc alt ⁿ assoc qpy		
113.45	dissm appears								
113.6	1.5cm qpy in 45° 2 intervening wk	sty	S ₂ 30°	x	chl cb 1x		slowing assoc qpy		
113.85	45° q-chl-qpy in 3 q-chl-qpy mgs	fol							
		mod fol	S ₂ 35°				sty fol (chl mbl shawing 20x poss re-actio S ₂ poss post S ₂ rel qpy		
115.7	2cm lowdinot q-cb-seric - chl - (py) in			chl cb 1x	myb				
	1-28 PY								
117.3	slowing fabric sub CA & q+pk fsp						↓ alt ⁿ dec		
118									

Additional Comments.

HOLE No. MP0053

SHEET No. 4

DRILL HOLE GEOLOGICAL LOG

Scale _____ Hole No. MPD 53

Area — Grid. _____

Coordinates. _____ N. _____ E.

Logged by _____

Collar Azimuth. _____ Inclination. _____ R.L. _____

Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m.	UNIT DEPTH
118				chl ls*			chl alt mgb fsp + chl		
119.5	2cm q-clb ? to un 40°								
120.3	20° q-? b-chl un 1 ass. chl								
120.7	2 to 10% py-sr chl un 1 chl fol								
122	122.3-122.5 4cm q-clb-sr-? b	mod fol	Sz 30°				fol alt. mgb		
124				chl ch chl lx			mod alt (ls, chl) mgb fsp + ls ? + mgb?		
125.2-125.3	4cm q-clb to un 30°								
126				1 ider ↓					
128									
128.6-129.2	skinned. Lick. of un trace polpy								
130									
131.3	1cm q-clb-py un 10°								
132	132.1 1cm q-clb-py un 10°								
134									
136									
138									

Additional Comments.

HOLE No. MPD 53

SHEET No. 5

Hole No. APQ 253

Date.

UNIT
DEPTH

SHEET No.



DIAMOND DRILLHOLE COMPLETION REPORT

HOLE NO MP0054

Page 1 of 1

DOWNHOLE SURVEY		
DEPTH	DIP	MAGNETIC AZIMUTH
0	-60	087°
33m	-52°	092°
66m	-52°	092°
80m	-52°	093°
110m	-52°	094°
142m	-51.5°	094.5°

PROJECT MT RINGWOOD J.V
Prospect/Location 6200N PAQUALINE
Cost Code 3950 Date finished 16-6-88
Precollar No MPD Precollar depth 33 m
Water at m Hole final depth 144 m
Casing left: No/Yes to 6 m
Casing type: Plastic/Metal
Drill type WARMAN 1000 Drill No

COLLAR DATA	Approximate	Surveyed
<u>Grid</u> Co-ords	6125	N
	9625	E
<u>AMG</u> Co-ords		N
		E
<u>Grid</u> RL		m
<u>Grid</u> RL Datum		m
<u>AHD</u> RL		m
Angle from horizontal	-60°	
Direction	087°	
	Grid/AMG/Mag/True	Grid/AMG/Mag/True

MINERALIZED INTERSECTIONS

[illegible]

Reason for Drillhole: Test south along strike of apy zone in Mgq.

Completion Report:

O.I.C. Signature



EXPLORATION
DIVISION

PERCUSSION DRILLING. SAMPLE DATA SHEET

Form 270
(Revised 5-86)

SAMPLE NUMBER	DRILLHOLE DEPTH(m)		COLOUR	GLDRCKCODE	ALTERATION	VEIN %	WEATHER'G	COMMENT 1	COMMENT 2	COMMENT 3
	FROM	TO								
DA 394770	0	3	TMGY	MSA						
	71	3	TMGY	MSA				MINOR QZ	IN AL QZV A	US
	72	6	TMGY	MSA + MSPH				BLEND ROCK AT 17m		
	73	9	GY	MSPH	2CY 1LM	7		CARBONACEOUS		Q-Lm
	74	12	GY		1CY 1LM			CARBONACEOUS		
	75	15						WATER AT 16m	TCE P	
	76	18			SILIC					
	77	21			SILIC	2				Q-Ay
	78	24			SILIC			CONTAM		
	79	27			SILIC			CONTAM		
DA 394780	30	33	GY	MSPH	SILIC			END OF PROCOLLAR		

SAMPLING RECORD		
Material: PERC	Depth:	Sampled By: M. WARD
Map No:	Laboratory Request No:	Date: 5/16/88
LINE No:	FROM	Photo No:
	TO	Bearing

PROJECT	
Region: EASTERN	Project: MT RINGWOOD J.V.
Prospect: 6200N	Cost Code: 3950

DRILLING RECORD	
Drill Type: WARMAN	CO-ORDINATES
R.L. m	6125 m N
Water At 16 m	9625 m E
Dip -60° Azm 087°	HOLE: MPQD54
Date: 15/6/85	No

Original held at PASADENA S.A.

DRILL HOLE GEOLOGICAL LOG

Scale 1:100

Hole No. MPQ054

Area — Grid. 6250N AREN

Coordinates. 6125 N. 9625 E.

Logged by M. W.

Collar Azimuth. 087° mag Inclination. -60° R.L.

Date.

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
33									
34									
36									
38									
40									
42									
44									
46									
48									
50									
52									

Additional Comments.

HOLE No. MPQ054

SHEET No. 1

DRILL HOLE GEOLOGICAL LOG

Scale

 Hole No. MPAD 54

 Area — Grid. 6200N AREA

 Coordinates. N. E.

Logged by

Collar Azimuth.

Inclination.

R.L.

Date.

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
54	54.6 open fracts - q-py-cb 10°	stg shear fol fabric 40°		chl cb py lx bi	Mgg	f.s. fract corroded qtz pheno + ragged lx alt to bi + py			
55	55.2 stg fol between shears - 30°	stg				coarsening			
56	55.5 stg shear q-cb-chl-py filled 10°	stg chl al shears		chl cb py bi lx		m-c g Mgg fsp + lx stg sheared (in mylon) shearing has lost apy zone (not far?) v. INTENSE alt post lx - bi? or sident?			
57	57.1 stg shear 85° or arcuate								
58	57.9 grossly 85° boudined + sheared q-cb-py un 2-4% py in 'mylon' zone 58.7 stg F cuts off stg alt			chl cb py lx bi		Mgg fsp - intense - Hb			
60	59.7 ORIENTED CORN 60.3-60.6 irreg q-cb-chl vng; dom 20° 60.4 2cm 80° q-chl-cb un - comb struct	mod fol 80° wk fol 85°		chl cb py	Mgg	v. stg sheared 'mylonite' shears of bi dec around lx shear cut by chl, bi, lx Mgb → Mgg (q small + spars) + lx (pseudo cubic + skeletal)			
62	62.4 25° shear zone 2 stg alt selus 62.7 q-chl, cb, py, bi			stg selus)	Mgg	Mgg fsp + lx qtz phenos incr to 2-3% to 1mm, (still rad)			
64	64.6 8mm q-py-cb un 15° 64.9 v. wk py.			chl cb lx	Mgg	mod chl-cb-lx alt Mgg			
66	66.6 8mm q-cb-py un 30°, but partly sheared off			chl cb lx	Mgb	1 HQ 1 NQ trans to amph stable Mgb fsp (+ ilm) v. minor f.g q phenos			
68	68.3 1cm q-cb-seric-chl un + a soc 68.4 incr in cb alt			cb chl cb					
70	70.1 70° q-cb-chl un + md by			chl cb	Mgg	incr alt adj un			
72	71.8 1cm q-cb-py un 10° - branching v. sparse py			chl cb lx (chl) (lx)		q dec to Mgg fsp dec alt to min.			
74									

Additional Comments.

 HOLE No. MPAD 54

 SHEET No. 2

DRILL HOLE GEOLOGICAL LOG

Scale _____

 Hole No. MP0054

Area — Grid. _____

Coordinates. _____ N. _____ E.

Logged by _____

Collar Azimuth. _____ Inclination. _____ R.L. _____ Date. _____

VEINS	SULPHIDES MINER LGY %	STRUCTURE	VEINS STRUC	ALT N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
74									
74.6 sharp alt front	Jminali	stg S2 40°		chl cb lx					
76				(cb) (cb)	Mgg	amph stable	Mgg fsp + fg		
76.2 1.5cm q-cb vn 75°	inner alt	stg S2 30°		chl cb lx		mildly sheared + fol	Mgg fsp		
1% dissem fg py									
78									
several low angle pk fsp - cb filled, low angle									
78.4 sharp									
78.8 8mm q-cb filled vn 30° cuts				chl					
pk fsp vn 30°				(cb)					
80									
several low angle pk fsp vns 1-3mm									
80.6-80.7 several q-cb-chl-pk fsp shears				chl cb					
80.95 comb like x cutting q-cb-sea vn 45°									
81.6, 81.7 several q-pk fsp - cb filled									
vns 25°									
82									
82.4 6mm q-pk fsp - cb vn 30°									
83.3 ~10' within pk fsp vns 30° over on									
rare py									
84									
84.2									
84.6 sheared q-cb-pk fsp - serie - chl (tbl)									
vn 40°									
85.4 several pk fsp - q-cb vns (sheared) - 30° cuts 10'									
86									
1% dissem py				chl (cb)					
86.7 pk fsp - cb - q vn (30°) cut by									
q-cb - serie vn 25°, 90° dip									
88									
87.9 8m - pk fsp - q-cb - chl vn 25°									
88.3 2cm q-cb - pk fsp - serie chl									
vn 40° 2 mod cb alt									
89.2 first (broken core) 70°									
90									
90.3 stg shearing 40°									
92									
92.7 2cm q-cb vn 5' assoc cb alt 40°									
93									
93.7 4cm q-cb - chl vn 35°									
-py?									
94									

Additional Comments.

 HOLE No. MP0054

 SHEET No. 3

DRILL HOLE GEOLOGICAL LOG

Scale

Hole No. MP0054

Area — Grid.

Coordinates. N. E.

Logged by

Collar Azimuth.

Inclination.

R.L.

Date.

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
94 949 bx + chl - cb - lx alt 2% - star 45.3				chl (cb) lx + cb			incr alt ⁿ adj shear.		
96					mg		massive d. green		
98 97.6 5mm q-cb vn 70° E minor cb alt ⁿ E irreg vn assoc q-cb-py-po 5mm				chl (cb)			m.s mgbfsp E v minor d. g of phno		
98.6 3cm q-cb m 90° 1/4 disson py									
99-99.6 q-cb-chl (py) vn skinned 5-16°									
100 99.7 1.5cm q-cb vn 25° incr py									
102				chl cb			massive.		
102 sparse fg py 1/4									
104									
104.5 3cm q-cb-bx vn 90°				lx cb	mg		incr alt ⁿ wkly alt (lx, cb, chl)		
106							mg(bq) fsp		
108				bi lx chl cb			minor bi of lx		
108.7 3cm q-cb-py vn 90° E branches @ 10° up core to 106.4 E ? bi solns							wk-mod alt mg(bq) fsp + h		
110									
111.7 2cm q-cb vn 40°							mod alt mg(bq) fsp + h		
112) v. broken core + shear zone 40°									
114									
				doer alt			massive clark gr mgbfsp		

Additional Comments.

HOLE No. MP0054

SHEET No. 4

DRILL HOLE GEOLOGICAL LOG

Scale _____ Hole No. MP0054

Area — Grid. _____
 Coordinates. _____ N. _____ E. _____
 Collar Azimuth. _____ Inclination. _____ R.L. _____ Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m.	UNIT DEPTH
114.5 irreg q-cb-ser un (gen 30'				chl ab)	Myb	massive dk gn	Mybfsr		
116				1 in V. alt		116.5 1/2 m			
117.4 1cm q-cb-chl-ser py un 50'				chl cb lx		m-g	Mybfsr + lx		
118 1-2% py									
120									
120.9 1cm q-cb-ser py un 30'				chl cb lx	Myb				
122 122.8 2cm q-cb-chl un 15'									
124 1-2% py				chl cb lx			slight coarsening + perhaps inc in pp ² fsp.		
126 v. sparse py				chl cb lx	Myb		granophytic zone? likely dioritic		
128 128.2 sharp stirt major shear zone 35'				chl cb lx	Myb		irreg q-cb-pkfsr vng, milled + healed bx		
129 129.1 stirt q-cb-pkfsr-chl-ser									
130 fill of bx-shear zone				chl cb lx			F-b		
130.9 py blebs									
131.8 40% py to 5mm				chl cb lx					
132 133.2 1cm 45° q-cb-py un 2 mm				chl cb lx			mod alt Mybfsr + lx		
134 shear fabric 40°									

Additional Comments.

HOLE No. MP0054

SHEET No. 5

Hole No. MPG054

Logged by _____

Collar Azimuth. _____ Inclination. _____ R.L. _____ Date. _____

Additional Comments.

HOLE No. MPQ 1254

DIAMOND DRILLHOLE COMPLETION REPORT

HOLE NO MP0055

Page 1 of 1

DOWNHOLE SURVEY		
DEPTH	DIP	MAGNETIC AZIMUTH
0m	-60°	087°
24m	-56°	-
48m	-53°	093°
78m	-53°	094°
108m	-53°	094.5°
138m	-52°	094.5°
ORIENTED CORE 51.2-51.5m		

PROJECT MT RINGWOOD JV
 Prospect/Location PAQUALIN 6200N
 ✓ Cost Code 3950 Date finished 23/6/88
 Precollar No MP0 Precollar depth 420m
 Water at 1.7m Hole final depth 138.0m
 Casing left: No/Yes to 6m
 Casing type: Plastic/Metal
 Drill type FOX Drill No

COLLAR DATA	Approximate	Surveyed
Grid Co-ords	<u>6300</u> N	N
	<u>9625</u> E	E
AMG Co-ords	N	N
	E	E
Grid RL	m	m
Grid RL Datum	m	m
AHD RL	m	m
Angle from horizontal	<u>-60°</u>	
Direction	<u>087°</u>	
	Grid/AMG/Mag/True	Grid/AMG/Mag/True

MINERALIZED INTERSECTIONS

FROM	TO	METRES								

Reason for Drillhole:

Completion Report:

O.I.C. Signature



EXPLORATION
DIVISION

PERCUSSION DRILLING. SAMPLE DATA SHEET

Form 270
(Revised 5-86)

SAMPLE NUMBER	DRILLHOLE DEPTH(m)		COLOUR	GLDRCKCDE	ALTERATION	VEIN %	WEATHER'G	COMMENT 1	COMMENT 2	COMMENT 3
	FROM	TO								
DA3	78	1	0	3	TMOIN	MSA				
	82	3	6	BN		MSA				
	83	6	9	TWGY		MSA + MSPH				
	84	9	12	GY		MSPH	3CY/LM		BEDROCK AT 8M	
	85	12	15				2CY/LM			
	86	15	18				1CY/LM			
	87	18	21						WATER AT 17M	
	88	21	24						BROKEN	
	89	24	27							
	90	27	30						MINOR PY ON FRACTS	
	91	30	33							
	92	33	36						BROKEN, CONTAM ; PY ON FRACTS	
	93	36	39						BROKEN, CONTAM	
DA3	79	39	42	GY		MSPH			BROKEN, CONTAM, END OF BEDROCK LAR	

SAMPLING RECORD			PROJECT		DRILLING RECORD	
Material: PERC	Depth:	Sampled By: M. WARD	Region: EASTERN	Drill Type: FOX	CO-ORDINATES	
Map Ref:	Laboratory Request No.	Date: 2/6/88	Project: MT. RINGWOOD J.V.	R.L. m	Water At 17 m	6300 m N
LINE No.	FROM	Photo No.	Prospect: 6200N	Dip: 60°	Azm: 087 mag.	9625 m E
	TO	Bearing	Cost Code: 3950	Date: 2/16/88	HOLE: MPQD55 No	

Original held at PASADENA S.A.

DRILL HOLE GEOLOGICAL LOG

Scale 1:100

Hole No. MPQD55

Area — Grid.

Coordinates. 6300 N. 9625 E.

Logged by M. W.

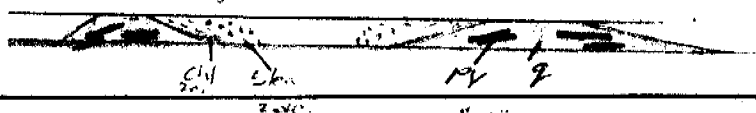
Collar Azimuth. 0870 Inclination. -60° R.L.

Date.

VEINS	SULPHIDES MINER LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
42									
END PERC PRECOLLON									
42									
6mm q-py (apx) py on fract + so							grey silic. + h' felsic MSH + MSph		
44									
intersecting thin 1-2% dissemin apx									
q-py vns 1mm + py 2%									
15" ch by 3mm 60°									
44q 3cm q-cb-py (copy) vn 40° E 2cm									
blec + phlog + apx selus. 50% in selus									
46									
minor dissemin apx; f.g. euhedra to 2mm.									
46.5-46.65 sty apx + py + phlog + mild blea selc.									
46.65-46.75 1.0" contact q-cb-py (more py than vns)									
46.75-47.0 1.0" contact internal blea + py Mgq.									
47.4 25° contact (b to contact's above) to q-cb-py									
47.8 40° contact vein E internal Mgq + py patches; blea + apx									
48									
48.6 q-filled brittle fract 35°									
2-3% dissemin py									
50									
51.2 ORIENTED CORE									
51.5 1-2% dissemin py									
52									
52.2 3cm q-cb-py vn E mod-sty alt selus.									
54									
54.8 curly, irreg (but gen. 25°) cont'd to q.vn									
54.15 Mgq + apx intense blea alt + apx									
54.20 q-py vn; gen 70°; sty py									
54.30 sty blea + chl alt Mgq; apx selus + sty									
54.5 irreg q-cb-py vn E sty blea + apx selus; vn									
tail off to 11CA 3cm 54.6 → 1cm 54.6									
56									
2-3% dissemin py									
whispy cb stringers 35° - NOT S2?									
58									
57.8 sty phlog shawes + clots in									
6cm zone gen. 35° (S2)									
58.2 sty broken core - some vng - 6mm 25° q-cb									
60									

Additional Comments.

Unusually sty pyritic veining possibly folded down hole - but difficult to envisage how the gen principle apx zone in drill traces.



HOLE No. MPQD55

SHEET No. 1

Hole No. 10055

Date.

Additional Comments.

SHEET No. 2

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MP0055

Area — Grid. _____

Coordinates. _____

N. _____

E. _____

Logged by _____

Collar Azimuth. _____

Inclination. _____

R.L. _____

Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
80 80.6 3m q-po vn lka. 81.0 5cm q-cb-po (copy) vn 45° 81.5 8cm sheared q-cb-po-copy-py vn 82 81.8 8cm sheared q-cb-po-copy-py vn 82.6 bucky q vn 35°, 2cm				chl cb py py	/	stg alt Mgfspl+ly adj m. adj m; clear chl+blent+phl alt zero uphole to 81.5m			
84 83.7 2cm q-cb-chl-po vn 15°, no alt sch. 84.0 2cm q-cb-chl vn 80° 84.8 1cm q-cb-po vn 25° 85.5-85.7 3cm q-cb-po-copy/vn 15°				chl cb chl cb v. wk S2 35°	/	mod alt Mgfspl+ly			
86 88 dozen thin q-cb vn 40° massive				chl cb Mgg	/	coarsening m-c g. Mgfspl			
90 89.9 irreg q-cb (po) vn, gen 30° 90.3 irreg q-cb vn +py, gen 30°				chl cb v. wk S2 30°	/	wk alt only			
92 92.6 q-cb-chl-?tc vn 2cm 90°				chl cb Mgg	/	m-g Mgfspl			
94 94.0 > whispy cb ⁴ vns preS2 20° 94.5				preS2 fol 20° chl cb	/				
96 95.6-95.8 branching q-cb-?phl-py-povn, gen 20° incr fol 20°				preS2 fol 20° chl cb Mgg	/				
98 mod sheared + carbonate Mgfspl shearing (chl-cb) ~ 20°				chl cb	/	incr alt° coarsening m-c g. Mgfspl - quite felsic			
102 195 - shows turn into <u>fract</u>					/				

Additional Comments.

HOLE No. MP0055

SHEET No. 3

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MP0055

Area — Grid. _____

Coordinates. _____ N. _____ E.

Logged by _____

Collar Azimuth. _____ Inclination. _____

R.L. _____ Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m.	UNIT DEPTH
100 4 q-chl-cb defined shear 25° (1% PY)				chl cb			cg Mgqfsp		
102 several q-cb vnc offset by fract, lead into 102.7 series of q-cb-to (py) vnc, irreg. 103.2				chl cb			irreg. chl+cb alt ad vnc cg Mgqfsp		
104 (1% PY)		wk fol 30°	wk 25-30°	chl cb lx			↓ fining — probably a function of incr alt'; lx in.		
106									
107.3 stg shearing/fol 25° (lx, chl); inner py in 108 — 108.4-108.2 q-cb-py-ql vnc (1-2 cm) 108.7 // shearing (25°)				chl cb py			↓ incr alt' to stars → App. euhed. in vnc solu + also f.g. app. 'veins' — pres. sh cleared out to form 'veins'.		
110 109.5 3cm q-cb-chl vnc 70° 110.0 qpy in 110.2 6cm q-cb-cpy-chl-py vnc irreg but 110.4 qpy out 110.6 2cm q-cb-chl-po-(cpy) vnc 40° 110.7 sheared 1cm q-cb-chl vnc 30° 111-111.2 sheared q-cb-chl vnc sub 11.52				chl cb lx			mg sheared Mgqfsp+lx		
112 111.8 fract + broken core + q-filled fract 113.0 relative to shear vnc				chl cb lx			↓ incr cb+lx related to shearing + q-cb vnc		
114 q vnc + trace ore related to low angle 115 broken 20° fract + slickenside				chl cb lx					
116									
117.35 zone of 2cm q vnc, stg glen + chl 117.5 alt Mgq (+? lx, BK chl?) 118.2 2cm q-cb-chl vnc gen 25° 118.8 stg core fract — shears ~10° 119.4				chl cb lx			mod. alt Mgq+lx		
120									

Additional Comments.

HOLE No. MP0055

SHEET No. 4

DRILL HOLE GEOLOGICAL LOG

Scale

Hole No.

MPQ055

Area — Grid.

Coordinates.

N.

E.

Logged by

Collar Azimuth.

Inclination.

R.L.

Date.

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
120				chl + cb ix		mg. Mgqfsp + lv			
122			mod- wk S2 30°	+		↓ alt ⁿ decr.			
124				+		↓ sharp to Mgqfsp + colm. 1m.			
124				+					
126				+		mod alt due to shearing			
126				+					
128				+		low alt mg. mgb			
129				+					
130				+		fining ↓ alt incr shear			
132				+		f.g mgbfsp			
132				+					
134				+		wtg med chillerising 45°			
134				+					
136				+		pk-gy spotted, h'felsic tmsph - tmsk Psg.			
138				+		grey homag tsa.			

Additional Comments.

HOLE No.

MPQ055

SHEET No.

5



HOLE NO MPD 56

Page of

DOWNHOLE SURVEY		
DEPTH	DIP	MAGNETIC AZIMUTH
0m	-65°	085°
72m	-60°	094°?
104m	-50°	094°
130m	-60°	095.5° 094.5°
160m	-60°	095.5°
186m	-54.5°	095.5°

PROJECT MT RINGWOOD J.V.
Prospect/Location PAQUALIN 6200N
Cost Code 3950 Date finished 25/6/88
Precollar No MPQ Precollar depth 72 m
Water at m Hole final depth 186 m
Casing left: No/Yes, to 6 m 72-104.6 H/O
Casing type: Plastic/Metal 104.6-186.0 on NQ
Drill type WARMAN 1000 Drill No

COLLAR DATA	Approximate	Surveyed
<u>Grid</u> Co-ords	6125	N
	9604	E
<u>AMG</u> Co-ords		N
		E
<u>Grid</u> RL		m
<u>Grid</u> RL Datum		m
<u>AHD</u> RL		m
Angle from horizontal	-65°	
Direction	085°	
	Grid/AMG/Mag/True	Grid/AMG/Mag/True

MINERALIZED INTERSECTIONS

[illegible]

Reason for Drillhole:

Completion Report:

O.I.C. Signature



EXPLORATION
DIVISION

PERCUSSION DRILLING. SAMPLE DATA SHEET

Form 270
(Revised 5-86)

SAMPLE NUMBER		DRILLHOLE DEPTH(m)		COLOUR	GLORCKDE	ALTERATION	VEIN %	WEATHER'G	COMMENT 1	COMMENT 2	COMMENT 3
FROM	TO										
DA 354	795	0	3	GY TM	MSA						
	796	3	16	GY TM	MSA				30 MET ROUNDED QTZ AEG BILTS		
	797	16	9	LY	MSPH	30% 1 LM			3 BROKEN		
	798	9	12	GY TM	MSPH	20% 1 LM					
	799	12	15	GY TM	MSPH	10% 1 LM			WATER TABLE		
	800	15	18	GY	MSPH						
	801	18	21	GY	MSPH						
	802	21	24	GY	MSH-MSPH	SILIC					Q-PY-1 LM
	803	24	27	GY	MSH-SET	SILIC					
	804	27	30	GY	SET-MSH						
	805	30	33	GY	SET-MSH						
	806	33	36	GY	MSH-MSPH	SILIC					
	807	36	39	GY							
	808	39	42								
	809	42	45						PY IN FRACTS		
	810	45	48						TCE QTZ		
	811	48	51								
	812	51	54						PY IN VEINS + FRACTURES		
	813	54	57						TCE Q-PY		
	814	57	60								
	815	60	63								
	816	63	66	GY					TCE Q+PY		Q-PY
	817	66	69	GY					SILIC HORNFELDS, PYRITIC		
DA 354	818	69	72	GY	MSH-MSPH	SILIC			STELY SILIC HORNFELDS; ST. FRAC		

SAMPLING RECORD			PROJECT		DRILLING RECORD	
Material: PERC	Depth:	Sampled By: M WARD	Region: EASTERN	Drill Type: WARMAN	CO-ORDINATES	
Map Ref:	Laboratory Request No:	Date: 23/6/88	Project: MT RINGWOOD J.V.	R.L. m Water At 12 m Table	6.125 m N	
LINE No:	FROM	Photo No:	Prospect: 6200N	Dip: -65° Azm: 085°	9604 m E	
	TO	Bearing:	Cost Code: 3950	Date: 23/6/88	HOLE: MPQD56	

Original held at PASADENA S.A.

DRILL HOLE GEOLOGICAL LOG

Scale 1/100

Hole No. MPQ056

Area - Grid. PAQUALIN

Coordinates. 6125 N. 9604 E.

Logged by M. WARP

Collar Azimuth. 085° Inclin. -65° R.L.

Date. 1/7/88

VEINS	SULPHIDES MINER'LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
72									
72									
74									
76									
78									
78.6									
80									
82									
84									
86									
88									
90									

Additional Comments.

HOLE No. MPQ056

SHEET No. 1

DRILL HOLE GEOLOGICAL LOG

Scale

Hole No. MP0056

Area — Grid.

Coordinates.

N.

E.

Logged by

Collar Azimuth.

Inclination.

R.L.

Date.

VEINS	SULPHIDES MINER'LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m.	UNIT DEPTH
90 901 1cm q-cb-py vn 45°				chl cb (1x)	Mgg				
910 1cm folded vn nose in core									
911 10cm q-cb-chl-py vn 50° E shear margins									
913 10cm q-cb-py vn 45° to vn above									
9135 1cm q-cb-py vn 45° to vn above									
92 924-926 q-cb-py-chl vn 45°					Dlg				
930 3cm q-cb-py (po-ccpy) vn 35°									
934 ea. 1cm q-cb-py (po-ccpy) vn 35°									
935 ea. 1cm q-cb-py (po-ccpy) vn 35°									
94 940, 941 ea. 15cm q-cb-py vn 35°; v.l. thin									
940, 941 ea. 15cm q-cb-py vn 35°; v.l. thin									
951 6mm q-cb vn 20° cuts S2									
96 959 8mm q-cb vn 45° cuts S2									
mod S2 35-40° (chl-chl) cuts a whispy									
cb + chl def. fol 30° at b									
972									
975 q vng + fract set at low b to core									
98 984 pksp? - q filled shear; irreg thickness									
but gen 1cm; 30°									
989 q-cb filled shear 50° - intro b									
995 45° q-cb vn (?shear) terminates the 50° shear									
above + terms the wall									
100 101.0 ~ 7 thin (to 4mm) q-cb vn at gen 25°									
101.5 1st 1022 cut by q-cb-chl shear 40° at b									
102 103 > ea. 5mm q-cb-py (po-ccpy) vn 30° CA (at									
1032 + cut S2 (chl) S2									
104 103.75 2cm q-cb-py - apy vn 3cm at b S2 52-60°									
1041 - 1042 ea. q-cb-py-ccpy-py vn ~ 1cm									
1042-1045 but branching; ea 15° CA.									
minor apy in sch; also mod blea									
selv between vns									
106 < 1% py									
108 1084 q-cb-py-to vn 3cm 35°									
1086 q-cb (py) vn 2cm 35°									
whispy cb fol 30° cut at b by									
S2 40°									

Additional Comments.

HOLE No. MP0056SHEET No. 2

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MPQD56

Area — Grid. _____

Coordinates. _____

N. _____

E. _____

Logged by _____

Collar Azimuth. _____

Inclination. _____

R.L. _____

Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
110.3 2cm q-?mg-cb in 45°				X chl cb	Mgg	↓ gtz clear			
111.4 branching (10° A main) q-cb-chl - ? to 1cm	sparse PY			X chl (cb)	Mgb	Mgb-Mgg fsp + fg ila			
112.5			uk S2 40°	X					
114.9 Broken core; low & shoe			1/2 5	X		uk alt mgb fsp			
116.5 broken core; sub 11 to fol 25°	mod fol, Mst S2 25°		53.2 25°	1 ind vcb chl cb					
118.6 thin 2mm q-cb-po-cspylun; uk	< 1% PY			X chl (cb)	Mgb	clgn mgb fsp; ool			
120.3 3cm q-cb-chl un 40°	< 1% PY		uk S2 30°	X		1 stringy q-cb vns into cb alt			
122.3 3cm pk fsp-q-cb un 40°				X chl cb	Mgg	↓ fg gtz phenos			
124.1 branching, 4cm q-cb-chl un 30°				X chl cb lx		↓ inc alt to vns			
126.1 } wispy cb fol (pr S2) 30°				X chl (cb)	Mgg				
128.3 sparse fs PY				X chl (cb)	Mgg				
129.0 q-cb-pk ?cb filling shear, irreg				X chl (cb)	Mgg	mg Mgg fsp			
129.3 but gen 25°				X					

Additional Comments.

HOLE No. MPQD56

SHEET No. 3

Hole No. MP0056

Date.

Additional Comments.

HOLE No. MPQ056

SHEET No. 4

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MP0056

Area — Grid. _____

Coordinates. _____

N. _____

E. _____

Logged by _____

Collar Azimuth. _____

Inclination. _____

R.L. _____

Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
150 150.7 2cm q-cb-py un 50°				chlx (cb)					
	sparse fg py			chlx (cb)	Mgb	mg massive	mgbfsp		
152 152.1 2cm q-cb un 45°									
154 154 1cm q-cb un 75°		unk 35-35°	25-35°	11x chlx cb 11x out					
156 155.75 q-cb-chl-py un zone over 3cm @ 60° ± c.g. euhed cpy in selv; ic cut by q-cb-chl un 5mm @ 15° 156.3, 156.35 ea 1cm q-cb un 45° 156.4-156.9 fract. 11 ea							fg qtz pheno mggfsf		
	157.5. whispy cb fol 30°						assoc cpy		
158 158.15 c.g. euhed cpy appears dissem. 158.4 1.5cm q-cb un (narrow) 60° - apparent centre 158.6 40% out 1-2% py 158.9 stg chloritic qtz bx shear gen 45° but 159.5 shear E ~ 2cm displacement of minor q-cb un.				11x chlx cb 11x (py)	Mgg				
160 160.4 minor 5mm q-cb (sp, cpy) un 20-45° (oppose each other) 1% fg py				chlx (cb)		mg cl green biph stable	mggfsf		
162 163.3 4cm q-cb-chl un ~ 25° (folded?) cuts- 163.4 1.5cm q-cb-chl un 40° 163.8 2cm q-cb-chl-py-cpy un 35° sheared 11 to un,				chlx (cb)	Mgg	vsly chl alt nely q un			
164 166.8						massive mg mggfsf			
166 166.8 stg q-cb-chl-py-cpy? ?healed bx zone? cfts q-cb-chl.				chlx cb			alt ² incr.		
168 167.6									
168 167.8									
168 168.6 stg fol 5° ea incr chl, chl at				chlx cb	Mgg		decr all		
170 stg chl alt ²									

Additional Comments.

HOLE No. MP0056

SHEET No. 5

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MP0056

Area — Grid. _____

Coordinates. _____ N. _____ E.

Logged by _____

Collar Azimuth. _____ Inclination. _____ R.L. _____

Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
170				chlx (cb)					
172	spurse to mod f.g py			x inc x cb x	mgg		massive fmg mgyfsr		
174	173.2 sty 61 / show zone 45°; next to f.g chl 173.4 Sharp contact to unsteered mgb		SSGSS	chlx chlx cb x inc x alt'					
176	175.8 20 cm zone of q-cb-chl vng, poss be fill? 176.0 tpy + ccrpy			chlx x inc x phlx x x alt'					
178	177.5 zone of vsty alt' → 60° (cb-phlx + chl) 178.5 gen fol direction 40° 179.2 20 cm q-cb-chl vng 30° → 20° def → 20°			chlx x inc x phlx x x alt'	mgg		mggfsr		
180	179.6 179.75) where q-cb-q-po-py vng, coarse q-po 180.5 fract sublla E phlog selu			chlx cb phlx x x			dkgn massive mggfsr		
182	182.9 fract q filled 1/4 ca 183.1 183.6 20 cm q-cb-rb vng 35°			chlx (cb) x					
184	184.2 sharp alt' front from gn chl-cb to 184.4 7 cm q-cb-chl vng 45° control			x chlx cb, sil x / cb x	mgg		fining ↓		
186	186.0			sil			chill margin mgl bl'lsed cy tmsph		

Additional Comments.

HOLE No. MP0056

SHEET No. 6



DIAMOND DRILLHOLE COMPLETION REPORT

HOLE NO MPQD57

Page 1 of 1

DOWNHOLE SURVEY		
DEPTH	DIP	MAGNETIC AZIMUTH
0m	-60°	085°
21m	-56°	—
51m	-56°	090°
81m	-53°	091°
105m	-53°	091°
135m	-52.5°	091°

PROJECT MT RINGWOOD JV
Prospect/Location 6200N PAQUALIN
Cost Code 3950 Date finished 28/6/88
Precollar No MPQ Precollar depth 42m m
Water at 15 m Hole final depth 136.5 m
Casing left: No/Yes, to 6 m HQ 42-75m
Casing type: Plastic/Metal NQ 75-136.5
Drill type FOX Drill No

COLLAR DATA		Approximate	Surveyed
Grid Co-ords		<u>6350</u> N	N
		<u>9625</u> E	E
AMG Co-ords		N	N
		E	E
Grid RL		m	m
Grid RL Datum		m	m
AHD RL		m	m
Angle from horizontal		<u>-60°</u>	
Direction		<u>085°</u>	
		Grid/AMG/Mag/True	Grid/AMG/Mag/True

MINERALIZED INTERSECTIONS

FROM	TO	METRES								

Reason for Drillhole:

Completion Report:

O.I.C. Signature



EXPLORATION
DIVISION

PERCUSSION DRILLING. SAMPLE DATA SHEET

Form 270
(Revised 5-86)

SAMPLE NUMBER				DRILLHOLE DEPTH(m)		COLOUR	GLDRCKDE	ALTERATION	VEIN %	WEATHER'G	COMMENT 1	COMMENT 2	COMMENT 3
DA	39	8	14	FROM	TO								
		20	3	16	TN		MSA						
		21	6	9	TN		MSA						
		22	9	12	CRGY		MSA+MSPH	6CY/2LM			STZ QTR IN ARKUS		
		23	12	15	TMEV		MSPH	4CY/1LM			6 BLEP ROCK AT 15M; STA ARKUS. QTR		
		24	15	18	GY			1CY/1LM					
		25	18	21							WATER AT 15M		
		26	21	24									
		27	24	27									
		28	27	30				SILIC			BROKEN		
		29	30	33				SILIC			CONTAM; BROKEN; MY ON FRACTS		
		30	33	36	V			SILIC			CONTAM; BROKEN; PY ON FRACTS		
		31	36	39	GY		MSPH	SILIC			CONTAM; BROKEN; BLEA.		
DA	39	8	32	35	42	BN	MD	CHL, CO			END PRECOLLAR 41.5M; MUDS ONLY		

SAMPLING RECORD				PROJECT		DRILLING RECORD			
Material: PERC	Depth:	Sampled By: M. WARD	Region: EASTERN	Drill Type: FOX	CO-ORDINATES				
Map Ref:	Laboratory Request No.	Date: 25/6/88	Project: MT. RINGWOOD J.V.	R.L. m	Water At 15 m	6350 m N			
LINE No.	FROM	Photo No.	Prospect: 6200N	Dip: 60°	Azm: 085°	9625 m E			
	TO	Bearing	Cost Code: 3950	Date: 25/6/88	HOLE: MPQDS7				
					No				

Original held at PASADENA S.A.

DRILL HOLE GEOLOGICAL LOG

Scale 1/100

Hole No. MPQD 57

Area — Grid. PAQUALIN

Coordinates. 6350 N. 9625 E.

Logged by M WARD

Collar Azimuth. 085° mag Inclination. -60° R.L.

Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
<u>EoPC 41.5m</u> 10cm broken core 42.1 10cm broken core 42.2 10cm broken core 42.3 10cm broken core 42.4 10cm broken core 42.5 10cm broken core 42.6 10cm broken core 42.7 10cm broken core 42.8 10cm broken core 42.9 10cm broken core 43.0 10cm broken core 43.1 10cm broken core 43.2 10cm broken core 43.3 10cm broken core 43.4 10cm broken core 43.5 10cm broken core 43.6 10cm broken core 43.7 10cm broken core 43.8 10cm broken core 43.9 10cm broken core 44.0 10cm broken core 44.1 10cm broken core 44.2 10cm broken core 44.3 10cm broken core 44.4 10cm broken core 44.5 10cm broken core 44.6 10cm broken core 44.7 10cm broken core 44.8 10cm broken core 44.9 10cm broken core 45.0 10cm broken core 45.1 10cm broken core 45.2 10cm broken core 45.3 10cm broken core 45.4 10cm broken core 45.5 10cm broken core 45.6 10cm broken core 45.7 10cm broken core 45.8 10cm broken core 45.9 10cm broken core 46.0 10cm broken core 46.1 10cm broken core 46.2 10cm broken core 46.3 10cm broken core 46.4 10cm broken core 46.5 10cm broken core 46.6 10cm broken core 46.7 10cm broken core 46.8 10cm broken core 46.9 10cm broken core 47.0 10cm broken core 47.1 10cm broken core 47.2 10cm broken core 47.3 10cm broken core 47.4 10cm broken core 47.5 10cm broken core 47.6 10cm broken core 47.7 10cm broken core 47.8 10cm broken core 47.9 10cm broken core 48.0 10cm broken core 48.1 10cm broken core 48.2 10cm broken core 48.3 10cm broken core 48.4 10cm broken core 48.5 10cm broken core 48.6 10cm broken core 48.7 10cm broken core 48.8 10cm broken core 48.9 10cm broken core 49.0 10cm broken core 49.1 10cm broken core 49.2 10cm broken core 49.3 10cm broken core 49.4 10cm broken core 49.5 10cm broken core 49.6 10cm broken core 49.7 10cm broken core 49.8 10cm broken core 49.9 10cm broken core 50.0 10cm broken core 50.1 10cm broken core 50.2 10cm broken core 50.3 10cm broken core 50.4 10cm broken core 50.5 10cm broken core 50.6 10cm broken core 50.7 10cm broken core 50.8 10cm broken core 50.9 10cm broken core 51.0 10cm broken core 51.1 10cm broken core 51.2 10cm broken core 51.3 10cm broken core 51.4 10cm broken core 51.5 10cm broken core 51.6 10cm broken core 51.7 10cm broken core 51.8 10cm broken core 51.9 10cm broken core 52.0 10cm broken core 52.1 10cm broken core 52.2 10cm broken core 52.3 10cm broken core 52.4 10cm broken core 52.5 10cm broken core 52.6 10cm broken core 52.7 10cm broken core 52.8 10cm broken core 52.9 10cm broken core 53.0 10cm broken core 53.1 10cm broken core 53.2 10cm broken core 53.3 10cm broken core 53.4 10cm broken core 53.5 10cm broken core 53.6 10cm broken core 53.7 10cm broken core 53.8 10cm broken core 53.9 10cm broken core 54.0 10cm broken core 54.1 10cm broken core 54.2 10cm broken core 54.3 10cm broken core 54.4 10cm broken core 54.5 10cm broken core 54.6 10cm broken core 54.7 10cm broken core 54.8 10cm broken core 54.9 10cm broken core 55.0 10cm broken core 55.1 10cm broken core 55.2 10cm broken core 55.3 10cm broken core 55.4 10cm broken core 55.5 10cm broken core 55.6 10cm broken core 55.7 10cm broken core 55.8 10cm broken core 55.9 10cm broken core 56.0 10cm broken core 56.1 10cm broken core 56.2 10cm broken core 56.3 10cm broken core 56.4 10cm broken core 56.5 10cm broken core 56.6 10cm broken core 56.7 10cm broken core 56.8 10cm broken core 56.9 10cm broken core 57.0 10cm broken core 57.1 10cm broken core 57.2 10cm broken core 57.3 10cm broken core 57.4 10cm broken core 57.5 10cm broken core 57.6 10cm broken core 57.7 10cm broken core 57.8 10cm broken core 57.9 10cm broken core 58.0 10cm broken core 58.1 10cm broken core 58.2 10cm broken core 58.3 10cm broken core 58.4 10cm broken core 58.5 10cm broken core 58.6 10cm broken core 58.7 10cm broken core 58.8 10cm broken core 58.9 10cm broken core 59.0 10cm broken core 59.1 10cm broken core 59.2 10cm broken core 59.3 10cm broken core 59.4 10cm broken core 59.5 10cm broken core 59.6 10cm broken core 59.7 10cm broken core 59.8 10cm broken core 59.9 10cm broken core 60.0 10cm broken core									

Additional Comments.

HOLE No. MPQD 57

SHEET No. 1

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MPQD 57

Area — Grid. _____

Coordinates. _____ N. _____ E.

Logged by _____

Collar Azimuth. _____

Inclination. _____

R.L. _____

Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
60 60.0 10 q-cb vns thin 20°				chl cb x		chl alt mg	Mgg fsp + lx		
62 61.7 2cm q-cb-py - ? py vns 40°			mod S2 40°	x Mgw		skelatal lx incip only alt of mg ilm			
63 62.7 whisp cb fol 45° cut by chl defining S2 fol 45°			mod S2 45°	x		ilm v wly alt in part to be			
64 1% dissem fg py.				chl cb chl (py)		inc lx; sty alt scale around vns			
65 65.0 4cm defrmal q-cb-py - cpy vns, gen 80°			mod S2 40°	x chl cb					
66 65.7 q-cb-chl - ? sphal? (bar mineral) vns 65°				x					
67 65.85 q-cb-chl - ? sphal? (bar mineral) vns 65°				x					
68 66.0 - 1cm q-cb - ? phlog - py vns 25°				x Mgw		mg. sub granophyre, equigranular	Mgg fsp + lx		
69 66.1 1% py				x					
70 67.9 sty shear/F; q filled 30°				x inc chl, cb, lx ad shen.					
71 68.0 sparse fg py				x					
72 70.3 2cm q-cb-po-ccpy - py vns 85°			mod S2 30°	x Mgw		mg tending to massive	Mgg fsp + cb		
73 71.0 thicker, whisp cb vns; gen 45°, cut by S2 chl, gen 35° at 4 to cb vns				x chl cb					
74 71.7			mod S2 30°	x					
75 73.5 2cm q-cb-chl vns 55°				x 73.7 chl cb lx		mg Mgg fsp + fg ilm			
76 74.9 3cm q-cb vns 90°				x					
77 75.1 broken core				x					
78 75.7-76.0 fract. core + q vng in shears 20°				x					
79 76.0 2cm q-cb c.g. cpy vns 20° inc chl-cb-lx				x lx cb					
80 78.8 q-cb - ptfsp filled shear 35°				x					
81 2cm lx selus.				x chl cb					
82 fg py < 16									

Additional Comments.

HOLE No. MPQD 57

SHEET No. 2

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MPQ057

Area — Grid. _____

Coordinates. _____

N. _____

E. _____

Logged by _____

Collar Azimuth. _____

Inclination. _____

R.L. _____

Date. _____

VEINS	SULPHIDES MINER'LG %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
80				chl cb			massive, rel unalt fg Mgq Sr		
82	sparse, fg py <18			1x cb	Mgq				
82.5	broken, slanted core. 45° incl cb, chl								
82.7									
83.2	CA 1 fractures + q; mod. additional chl, cb, lx			chl cb lx	Mgq		massive Mgq fsp		
84	fract + q-cb-pkt fsp filled fract sub 1/1 CA (core unbroken)								
85.5	85.5 8mm q-cb-py-cpx vn 25°			1x cb					
86	85.8 1.5cm q-cb vn 2cm								
	sparse fg py			chl (cb)					
88	88.4 3cm q-cb-(chl) vn 85°			Mod S ₂ 40°					
90				1x cb chl cb lx cb					
92	92.5 3cm q-cb(chl) vn 90°			chl (cb)	Mgq				
93	93.0 3cm q-cb-py vn 80°								
93.3	93.3 1cm q-cb-fg py (dissem) vn 60°			chl cb (lx)					
94				uk S ₂ 40°					
95.4	95.4 4cm q-cb vn 45°								
95.4-95.65	95.4-95.65 3cm q-cb-py (cpx-py) vn 10° (?related to 45° vn)			chl cb (lx)					
96.9	96.9 broken core + q vng - shears @ ~40°								
97.1									
98	occ uk q-cb vn 40-30°			chl (cb) lx	Mgq		wkly to Mgq fsp + lx		
100									

Additional Comments.

HOLE No. MPQ057

SHEET No. 3

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MP0057

Area — Grid _____

Coordinates. _____

N. _____

E. _____

Logged by _____

Collar Azimuth. _____

Inclination. _____

R.L. _____

Date. _____

VEINS	SULPHIDES MINER LGY %	STRUCTURE	VEINS STRUC	ALT N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
100									
101									
102									
103									
104									
105									
106									
107									
108									
109									
110									
111									
112									
113									
114									
115									
116									
117									
118									
119									
120									

Additional Comments.

HOLE No. MP0057

SHEET No. 4

Hole No. MPQD5-7

Date.

Additional Comments.

HOLE No. MPQV57

SHEET No. 5



DIAMOND DRILLHOLE COMPLETION REPORT

HOLE NO *MPQ 058*

Page 1 of 1

DOWNHOLE SURVEY		
DEPTH	DIP	MAGNETIC AZIMUTH
0	-60°	086°
78.0m	-54.5°	089.5°
110.0m	-54°	091°
141.0m	-53.5°	091°
174.0m	-53.0°	091.5°

PROJECT MT RINGWOOD J.V.
Prospect/Location PAQUAKIN 6200N
Cost Code 3950 Date finished 29/6/88
Precollar No MPD Precollar depth 72 m
Water at m Hole final depth 174 m
Casing left: No/Yes to 6 m
Casing type: Plastic/Metal
Drill type WARMAN 1000 Drill No

COLLAR DATA		Approximate	Surveyed
<u>Grid</u> Co-ords	6300	N	N
	9600	E	E
<u>AMG</u> Co-ords		N	N
		E	E
<u>Grid</u> RL		m	m
Grid RL Datum		m	m
<u>AHD</u> RL		m	m
Angle from horizontal	-60°		
Direction	086°		
	Grid/AMG/Mag/True		Grid/AMG/Mag/True

MINERALIZED INTERSECTIONS

[illegible]

Reason for Drillhole:

Completion Report:

O.I.C. Signature



EXPLORATION
DIVISION

PERCUSSION DRILLING. SAMPLE DATA SHEET

Form 270
(Revised 5-86)

SAMPLE NUMBER	DRILLHOLE DEPTH(m)		COLOUR	GLDRCKCODE	ALTERATION	VEIN %	WEATHER/G	COMMENT 1	COMMENT 2	COMMENT 3
	FROM	TO								
DA 354 6 33	0	3	TURM	MSA				10% ALKAL	QTR	OXID
34	3	6	TNGY	MSA						
35	6	9	TNGY	MSA+MSPH						
36	9	12	LGY	MSPH-SCF	3CY 11LM351L	3		BEDROCK AT 17M		
37	12	15	LGY		2CY 12SHL	2				
38	15	18	LGY		1CY	1				
39	18	21	GY		1CY	1				
40	21	24	GY							
41	24	27	GY		SILIC			WATER TABLE		
42	27	30								
43	30	33								
44	33	36								
45	36	39		MSPH-SCF				PINKISH QTR		D-LM
46	39	42						BROKEN		
47	42	45			SILIC			BROKEN; V.	STG WATER FLOW	
48	45	48								
49	48	51								
50	51	54								
51	54	57								
52	57	60								
53	60	63								
54	63	66			SILIC					
55	66	69			SILIC			BROKEN		
DA 354 85 6 64	72	64		MSPH	SILIC			END OF PRECOLLAR		

SAMPLING RECORD			PROJECT		DRILLING RECORD	
Material: PERC	Depth:	Sampled By: MWAD	Region: EASTERN	Drill Type: WARM 100	COORDINATES	
Map Ref:	Laboratory Request No.	Date: 27/6/88	Project: MT. RINGWOOD J.V.	R.L. m	Water Table At 21 m	6300 m N
LINE No.	FROM	Photo No.	Prospect: 6200N	Dip: -60°	Azm: 090 mag	9600 m E
	TO	Bearing	Cost Code: 3950	Date: 27/6/88	HOLE: MPQD56	

Original held at PASADENA S.A.

857-897

DRILL HOLE GEOLOGICAL LOG

Scale 1:100

Hole No. MPD058

Area - Grid. PAQUALIN

Coordinates. 6300 N. 9600 E.

Logged by M WARP

Collar Azimuth. 086° Inclination. -60° R.L.

Date.

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
72									
End of Precollar									
74		S0 45°	S2			MSph-lam (Psg)			
	sty prefer	S2 35°	35°			Sct	sty spring in units to 10cm; chl & andal		
76		S0 65°	S2			MSan			
			35°			MSan			
						Sct			
						MSan			
						Sct			
78									
76.4 Concordant contact; chevron q-cb vns									
76.6 q-cb-py-bx-vng; top contact sharp 65°									
then 20cm zone bx+q-cb-sen chl mgb+q									
clots apy evh. to 3cm (avg 76.6m)									
mgb-bx trends 35° down core									
80									
77.0 ORIENTED CORE									
78.5-78.8 styly apy+py+blea (decr. d. hole)									
78.8-78.9 10cm bx q-cb-py-apy-chl vn 45°									
78.9 lwr contact; irreg but gen 30° (at 78.9) top contact									
79.2 dissem apy									
fryx Mgq in vn.									
82									
81.1 1cm q-cb-py-chl vn 35° sub 1152									
2-3% py									
84									
83.3 q-cb vn 25% py+apy in 5mm selv									
in vn; this vn to S2									
84.2 2cm q-cb (py) vn									
2-3% py+po (ccpy)									
86									
85.2 sharp alt front across a thin q-cb vn									
70° to v styly blea zone									
85.45 2cm q-cb-py-po-ccpy vn; vty dissem									
throughout, but some c.g po-ccpy to 4mm.									
v sty qpy selus d. hole only (1); 3cm 6-10%									
apy evh.									
86.9 slightly banded q-cb-py-apy vn sub 1152									
87.3 25cm true width q-cb-py-apy vn, gen trend 35°									
but irreg; styly chl-apy mgb in vng. sty but									
narrow blea (+phl) alt d. hole side; phl									
down to 87.4									
87.8 1cm q-cb, c.g. py. vn 50°									
88.05 1.5cm q-cb-c.g. py vn 45° at 4 to									
mod S2 fol (chl, lx, phl) 5% py									
88.9 sty phl+py zone									
89.95 end " " " sharp front 45° // S2									

Additional Comments.

HOLE No.

MPD058

SHEET No.

DRILL HOLE GEOLOGICAL LOG

Scale _____ Hole No. MPQD 5

Area — Grid. _____
 Coordinates. _____ N. _____ E.

Logged by _____

Collar Azimuth. _____ Inclination. _____ R.L. _____ Date. _____

VEINS	SULPHIDES MINER'LG	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DE
90									
901 16cm true width q-cb-chl + py vn (weak)	2-3% py			chl cb lx					
915 + chl clots as mgg; patchy blen selcs									
92									
922 milled chl show zone just caught; incip CA II fract			mod S2 40	chl cb lx					
930 ORIENTED CORE; fract set 11CA; q-cb 933 935				chl cb lx phl					
94 12cm q-cb-fg py + agy + chl vn ± classic 942 chl altd selv 1cm, then blen + phl 2cm; but asymmet. due to other interfering vns. (chl-cb-vn?) 946 1cm q-cb-seric-chl vn 40°			S2 35°						
96									
96-99 incip. CA II fract				chl cb lx (py)					
97-97.2 white bucky q-vng ± sharp Mg bx frags 30° minor core breakage									
98									
97.8 1cm winding q-cb-chl-py vn ~5° in 98.2 part caught up in CA II fract 983-986 just caught portions of folded vn(?) 986-990 3cm q-cb-py vn ~10°; 99m, caught up in a CA II shear - disloc. 992-993 just caught q-cb-py-agy vn 995-997 1cm q-cb-py-agy selv 15° disloc. 996-998 2cm q-cb vn ± mod agy selv 11° Qz agy disloc + smeared out in shear to 100.4 (+ po + cpy). Patchy blen 99.9-100.1 last Agy at 100.4 100.7-101.1 folded 1cm q-cb-py vn 10° - phlog alt' red 101.6-101.6 5mm q-py-cb vn 5°				chl cb lx blen phlog					
100									
102									
102.2 15cm q-cb-py vn ~10° but sheared off 1/2 way thru by CALLICAW. act				chl cb lx					
103.2 Broken core - fract 10-30° 103.5									
104									
105.4 Dex CA II shear 105.55 bucky 1cm 106.0 q-cb-py vn; good chl → blen selv 2cm either margin									
106									
108									
110									
				chl cb					

Additional Comments.

HOLE No. MPQD 58

SHEET No. 2

DRILL HOLE GEOLOGICAL LOG

Scale

 Hole No. MP0058

Area — Grid.

Coordinates.

N.

E.

Logged by

Collar Azimuth.

Inclination.

R.L.

Date.

VEINS	SULPHIDES MINER' LGY	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
110 110-110.1 2cm q-cb-chl in 65° 110.15-110.3 1.5cm q-cb-chl in 20° but d hole gets caught in in call fract + fault wff. R. No. 6				chl (cb)	Mgg	wtly alt Mgg fsp			
112 112.5 9-cb-chl filled fract & small Mgg frags (6x) 112.7 112.75-112.8 9-cb-chl in (50% cpy) 85° & minor cpy in dissem in selv; cuts 3mm				X					
114 112.8 5mm q-cb-po-cpy in 15° + several assa vns down core to 117.7 113.2-113.9 1.5cm q-cb-po-cpy in 5° po-cpy plots to 6mm no cft 2 selv.				X					
116 117.15 4cm q-cb-vn, no alt selv, cut by pk fsp 117.35 filled fract ~5° 2cm				chl cb					
118 119.5 incr fol 40-30° towards shear 119.8 q-chl-cb shear 35° + some milking 120.5 broken Mg 121.3 str shearing + broken com 30°				X	Mgg	incr alt towards shear (7 chl, cb, lx)			
122 Vlt fol				X					
124 124.6 1x in, + incr cb around 25cm 124.7 9-cb-cpy in 80°				X		massive dgn Mgg fsp			
126 127.8 4cm q-cb-py in 80° 128.55 3cm q-cb-py-to in 80° 128.8 2cm q-cb-py-to in 80°				X					
130 129.9-130.0 q-cb-pk fsp shear 15°				X		massive Mgg fsp + k			

Additional Comments.

HOLE No.

MP0058

 SHEET No. 3

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MP0058

Area — Grid. _____

Coordinates. _____ N. _____ E.

Logged by _____

Collar Azimuth. _____

Inclination. _____

R.L. _____

Date. _____

VEINS	SULPHIDES MINER' LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
130				↓ lx x chl cb	mgg				
132				x x mgg fsp		132.5 becomes wky fsp porph (prob alt ² effect)			
134				chl cb	mgg	massive fg fsp porph			
136	sparse fg py		mod fol 45°	x chl cb	mgg -fsp	massive fg fsp porph	chl fsp porph + massive fg picks due to alt ² channel-ways		
138				x chl (cb)					
140	139.6 + em q-cb in 75° 1-2% py			x mgg		massive mg. mgg fsp			
142	142.2 shear cont'd to sty/chl			x chl cb		sty chl alt prob			
144	143.6 sheared bx zone 2 sty fg chl 143.5 143.8 q-cb-py-chl vng gen 45° 144.3 1-2% py			x chl cb		var alt ² bands of f.g sty chl			
146				x chl cb		f-m.g mgg fsp			
148				x chl cb					
150	sty fol zone 30°		sty fol 30°	x chl cb					

Additional Comments.

HOLE No. MP0058

SHEET No. 4

DRILL HOLE GEOLOGICAL LOG

Scale _____

Hole No. MP0058

Area — Grid. _____

Coordinates. _____

N. _____

E. _____

Logged by _____

Collar Azimuth. _____

Inclination. _____

R.L. _____

Date. _____

VEINS	SULPHIDES MINER'LGY %	STRUCTURE	VEINS STRUC	ALT'N	LITHOL	LITHOLOGY	TEXTURE	Au. p.p.m	UNIT DEPTH
150 150.1 111g q-cb-py-ccpy-pr vn in sl 150.23 150.4 7cm true width q-cb-py vn 40°				chl x cb		Mgg			
152 151 151.4 10cm comb tex q-tom 40° 151.6				x chl cb			m-g Mggfsp		
154				x x lx					
156 155.7 6cm true width q-cb-chl pkcs filled shear 156 25° Ebx Mgg				lx chl cb			incr alt ^b (incl intro lx) assoc shear.		
158 157.4 5cm q-cb-py vn 20° 158.75 159.2 q-cb-Mgg-bx zone; prob fault 45° 159.5 chl alt + qtz fract 45°				x chl cb lx			158.6-158.75 pkcs or fsp replaces fsp. var chl alt ^b resulting in -g fsp bearing or fg chl into Mggfsp		
162 162.6 163 q-cb-to-chl-pkcs filled shear gen 45°				fol 45° 10° x x			BROKEN cchearing		
164 kinked shear/fol gen 30° 2-3 2cm vns/m E 10°-40° prob filling brittle failure in shear. mod-stk shear fol 10-20°				fol 30° x x fol 15° lx out Mgg			lx appears E shearing; mod cb incr also		
166									
168							massive m-g Mggfsp		
170									

Additional Comments.

HOLE No. MP0058

SHEET No. 5

Hole No. MPQD58

Logged by _____

Collar Azimuth. _____ Inclination. _____ R.L. _____ Date. _____

Additional Comments.

HOLE No. MPQD58

SHEET No. 6