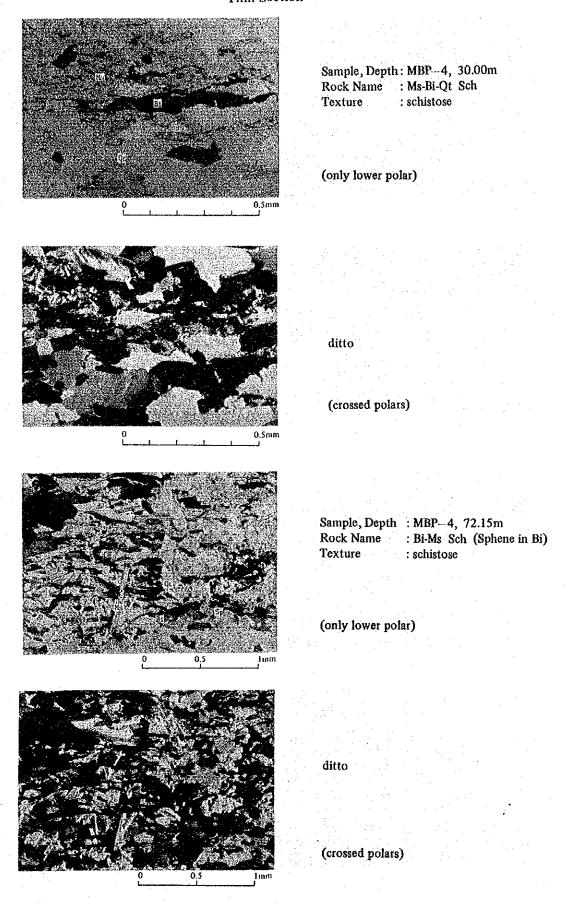
APPENDICES

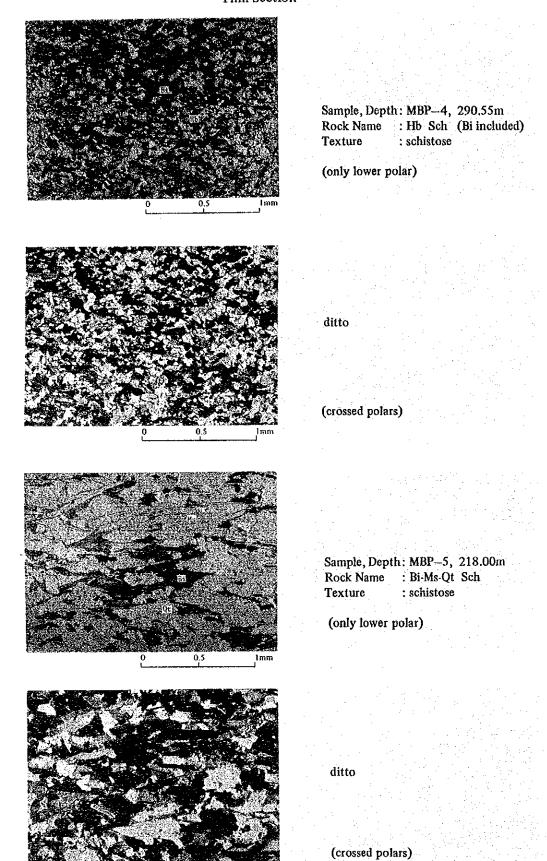
LEGEND

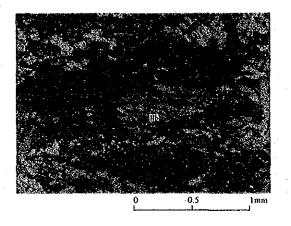
yell: yellow

am : amphibolite prominent bi : biotite abundant **(** brn: brown common 0 : coarse 0 a little cal : calcite Cb: cubanite rare chl: chlorite Cp: chalcopyrite d, dissem : dissemination **(**0) sample for ore analysis dk : dark Epi: epidote (P) sample for polished section : fine f (T): sample for thin section : folding (S) : sample for physical property ga : galena gn : garnet ∠ 30° : angle between the grn: green drilling core and the target lim : limonite : light : medium mass: massive Numbers in "schistosity" column ms: muscovite are the angle formed between the : network drilling core and schistosity pl : plagioclase : pyrrhotite py : pyrite gt : quartz sch : schist Sp: Sphene sph: sphalerite : staurolite str: stringer : vein : very coarse V C : width

Photo A-1 Microphotograph of Thin Section



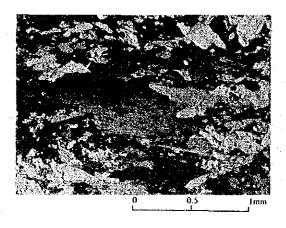




Sample, Depth: MBP-5, 249.55m Rock Name : Hb Sch

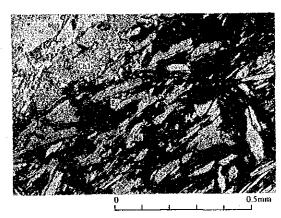
Texture : schistose

(only lower polar)



ditto

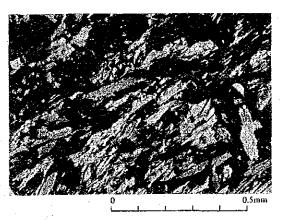
(crossed polars)



Sample, Depth: MBP-6, 220.00m Rock Name : Chl-Ms Sch (Epidote include

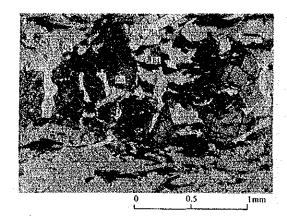
: schistose Texture

(only lower polar)



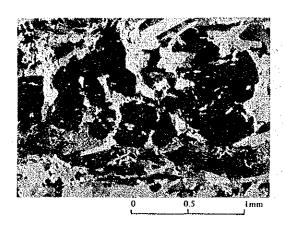
ditto

(crossed polars)



Sample, Depth: MBP-6, 395.75m
Rock Name: Gn-Bi-Ms-Qt Sch
Texture: schistose

(only lower polar)

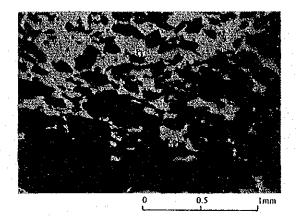


(crossed polars)

Photo A-2

Microphotograph of Polished Section

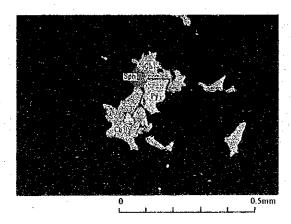
Polished Section



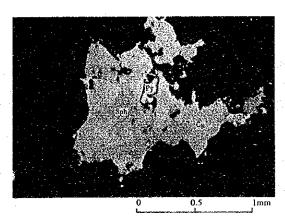
Sample, Depth: MBP-4, 287.10m

Occurrence : laminated

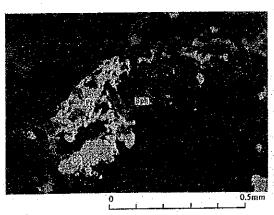
Minerals : Pr >>> Cp > Sph



Sample, Depth : MBP-5, 210.30m Occurrence : irregular veinlet Minerals : Cp·Sph > Py·Cubanite

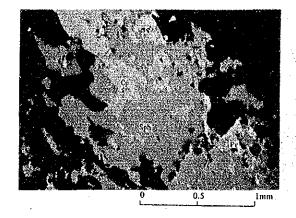


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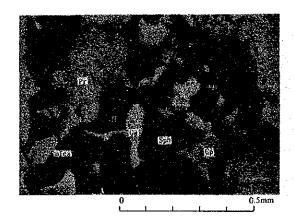


Sample, Depth: MBP-6, 370.40m Occurrence : irregular veinlet Minerals : $Cp \cdot Sph > Ga \cdot Py$

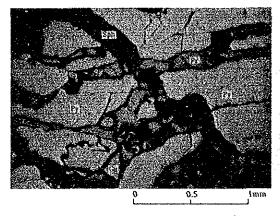
Polished Section



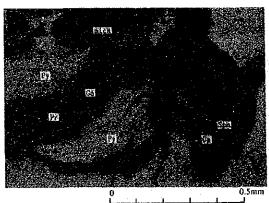
ditto



Sample, Depth : PM-138-GO, 183.20m Occurrence : massive polymetalic Minerals : Pr·Sph > Cp·Ga ≫ Py

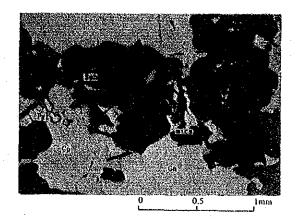


Sample, Depth: PM-138-GO, 194.70m
Occurrence : massive polymetalic
Minerals : Sph·Py > Pr > Cp·Ga

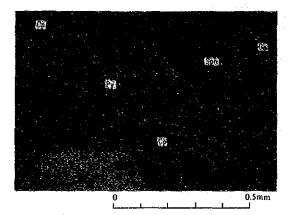


ditto

Polished Section



Sample, Depth: MBP-4, 43.65m Occurrence : irregular veinlet Minerals : Sph > Cp · Ga · Py



ditto

						P-1				-	
	Opaque Minerals	•		•	•	•	•		•	•	-
	Muscovite (fine grained)			•		•	•				•
	Leucoxine				٠	•			•	•	
	Calcite		,							•	
	Epidote	:						•	0		
	Chlorite					•	0		0	0	•
rais	Apatite	•	•	•		.•			•	•	•
Minerals	Zircon, Pleochroic Inalo		•	•		•				•	•
	грусте		0	•			6				
	Garnet				1 - 3		:				0
	Hornblende				0			0			
	Muscovite	0	0	0	9	0	0		0	0	0
										-	
	Biotite	•	0	0	•	0				0	0
	Plagioclase		. •	0	0	•		0	•	•	
	Potash Feldspar		•			•	•		0	•	
	Quartz	0	0	0	0	0	0		0	(O)	0
	Texture	Schistose	Schistose	Schistose	Schistose	Schistose	Schistose	Schistose	Schistose	Schistose	Schistose
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	Rock	δ̈́	Ö	ţ	성	Ŏ	-(I4	-당	0-s¥	ŏ	i—Ms
		Ms-Bi-Qt Sch	Bi-Ms-Qt Sch	Bi-Ms-Qt Sch	Am Sch	Bi-Ms-Qt Sch	1s-(C	Am Sch	hi—N	Is-B	n-B
ļ		2	<u> </u>							<u> </u>	
		10m	Sm	MBP-4; 282.85m	; 290.55m	; 218.00m	; 227.95m	MBP-5 ; 249.55m	; 220.00m	; 370.75m	MBP-6;395.75m
	Sample Depth	; 30.00m	MBP-4; 72.15m	282	290	218	227	249	220	370	395
	Ø Η	4	4	4	4	.5	. 5-	ا ب	9	9	-6 ;
		MBP-4	MBP	MBP	MBP-4	MBP-5	MBP-5	MBP	MBP-6	MBP-6	MBP
	o Ž	П	2	3	4	\$	9	7	∞	6	10

TableA-2 Microscopic Observations (Polished Section)

			Π				Mi	neral	s	
										S
No.	Sample Depth	Occurrence	Chalcopyrite	Sphalerite	Galena	Pyrrhotite	Pyrite	Cubanite		Gangue Minerals
1	MBP-4 ; 43.65m	irregular veinlet	0	0	0		0*			0
2	MBP-4 ; 287.10m	laminated pyrrhotite ore	0	•		0				0
3	MBP-5 ;210.30m	irregular veinlet	0	0			•	•		0
4	MBP-6;370.40m	irregular veinlet	0	0	٠	•				0
5	PM-138; 183.20m	massive polymetallic ore	0	0	0	0	•			0
6	PM-138; 194.70m	massive polymetallic ore	0	0	0	0	0			0

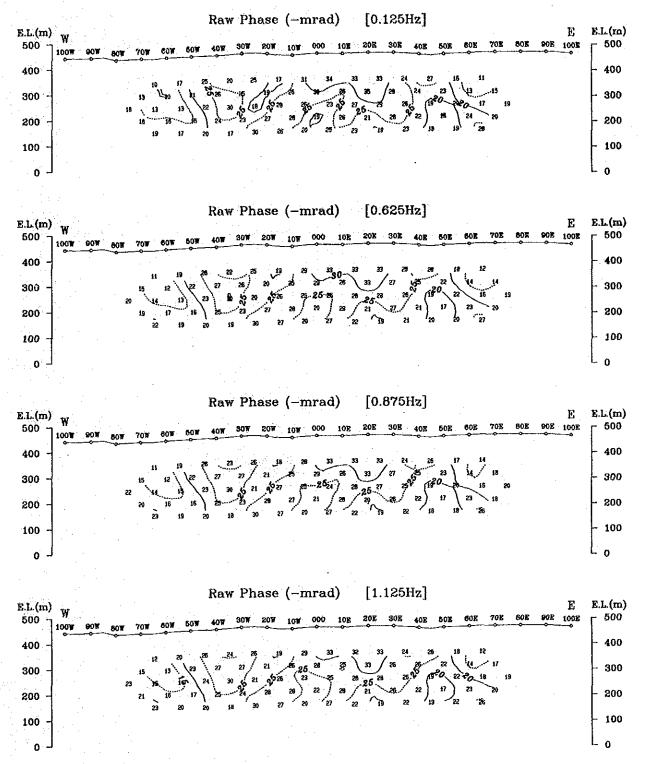
^{*} brecciated

Fig. A-1

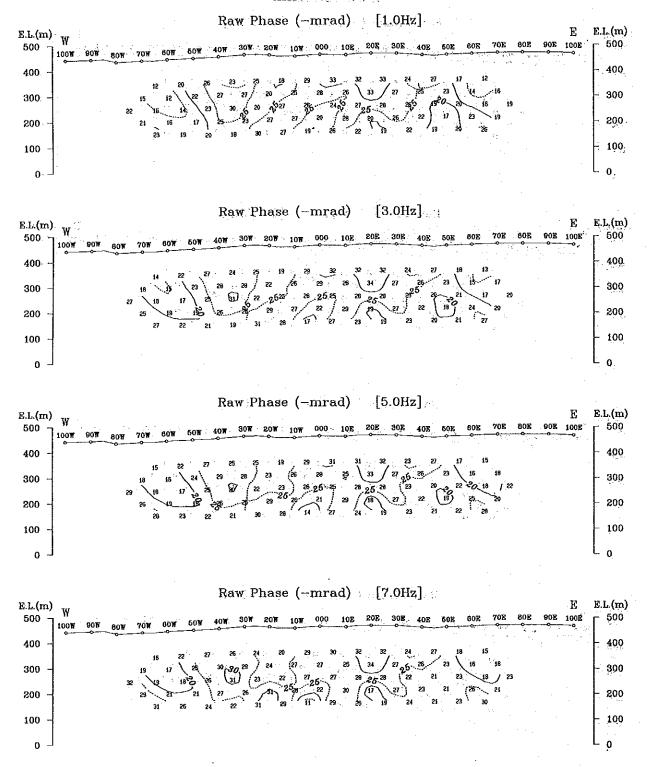
Phase Pseudo-Section

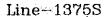
```
Line-1345S [ 0.125Hz - 7.0Hz ]
Line-1375S [ 0.125Hz - 7.0Hz ]
Line-1405S [ 0.125Hz - 7.0Hz ]
Line-1420S [ 0.125Hz - 7.0Hz ]
Line-1430S [ 0.125Hz - 7.0Hz ]
Line-1450S [ 0.125Hz - 7.0Hz ]
Line-20E [ 0.125Hz - 7.0Hz ]
```

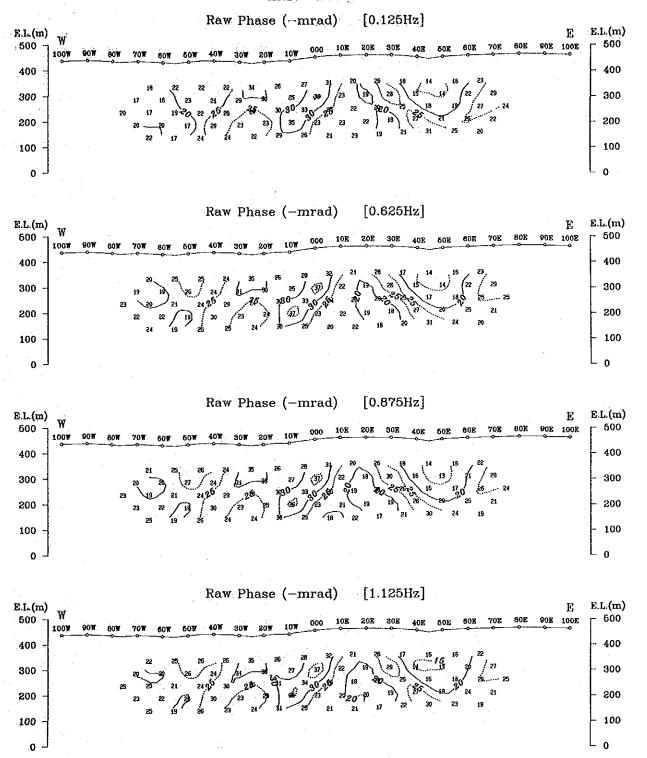
Line-1345S

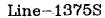


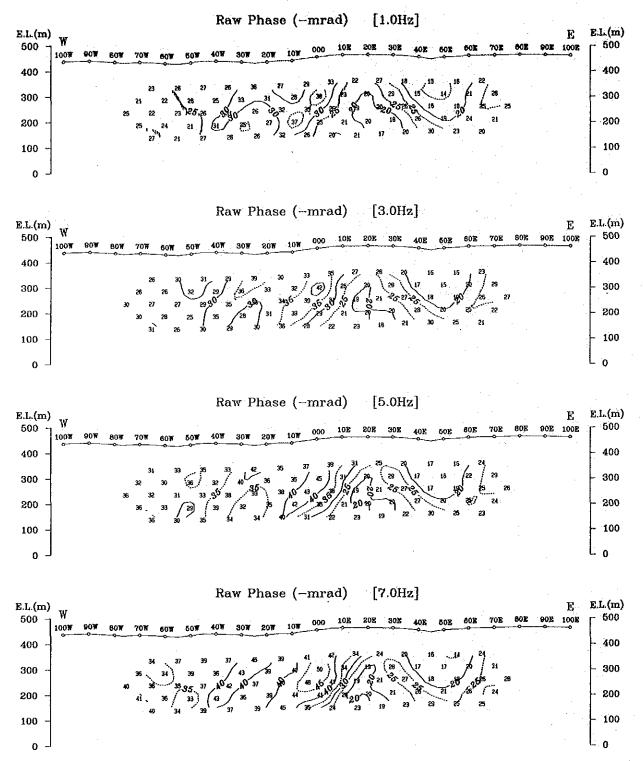
Line-1345S

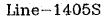


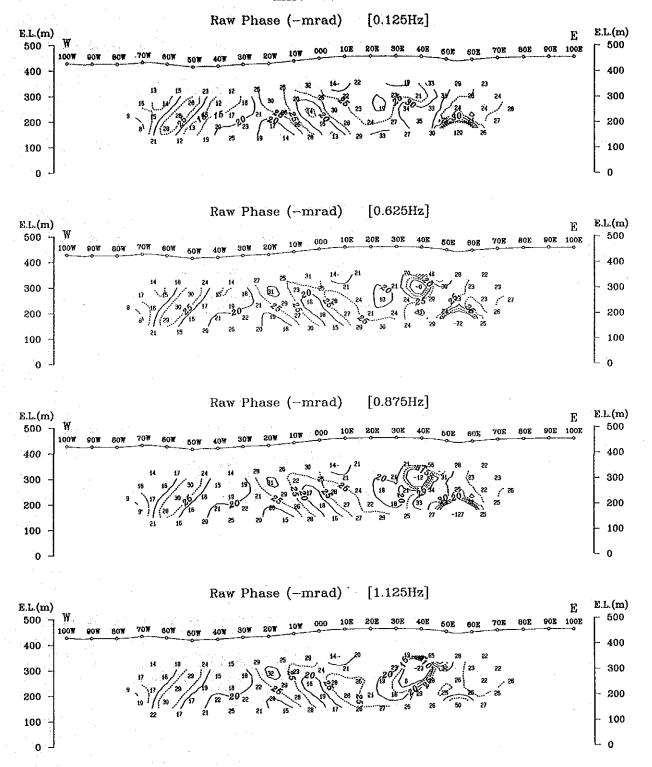


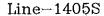


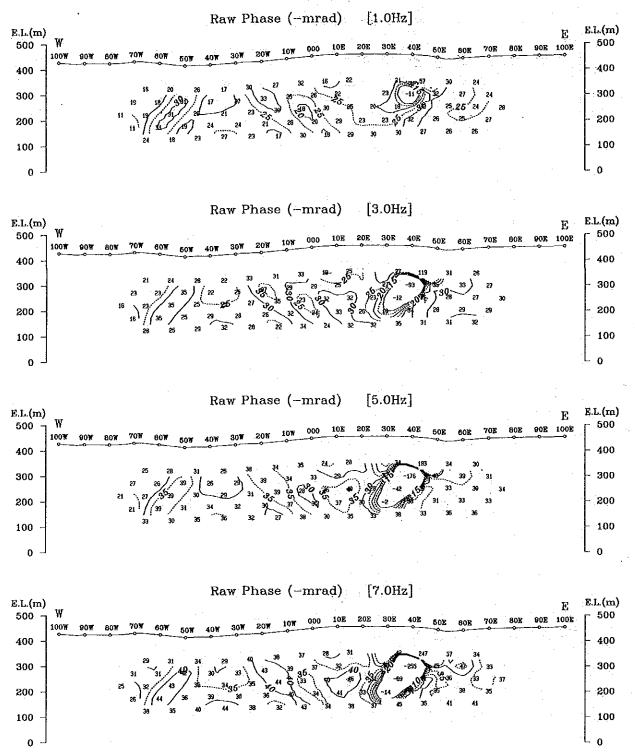




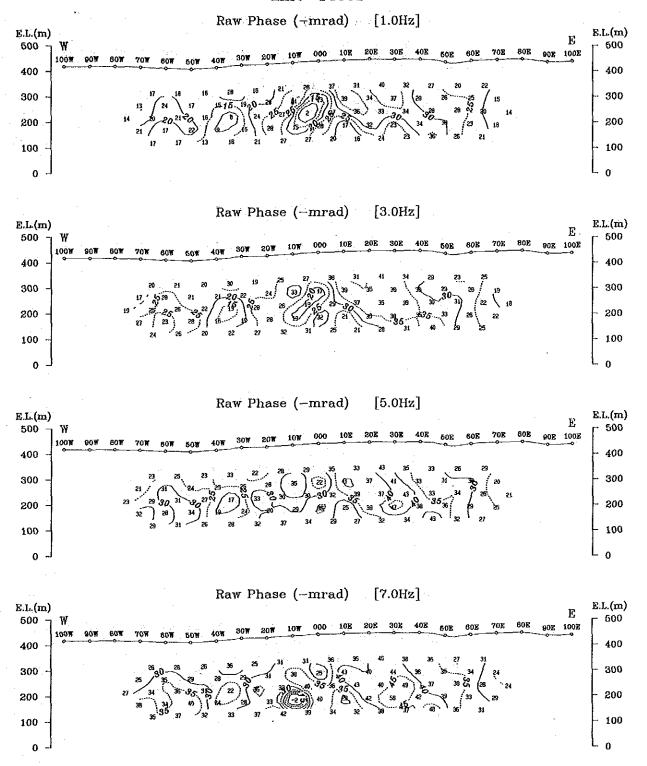


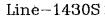


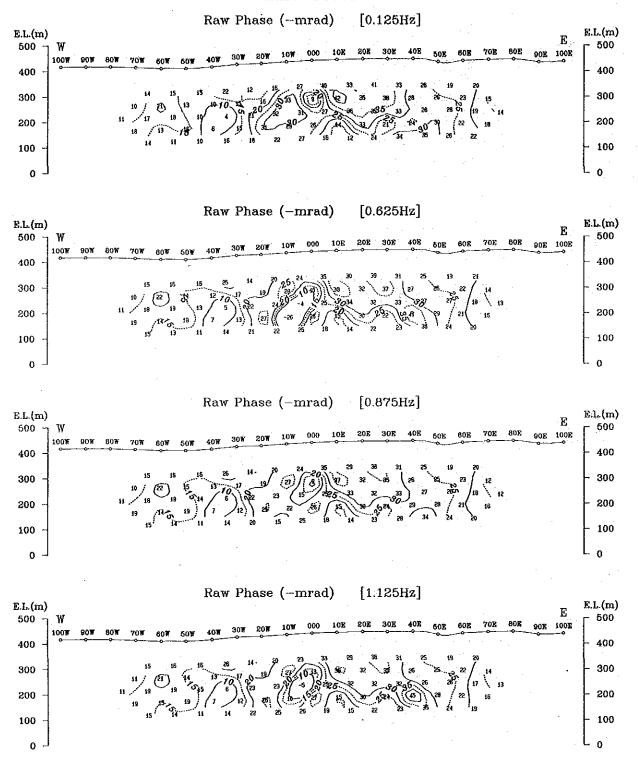




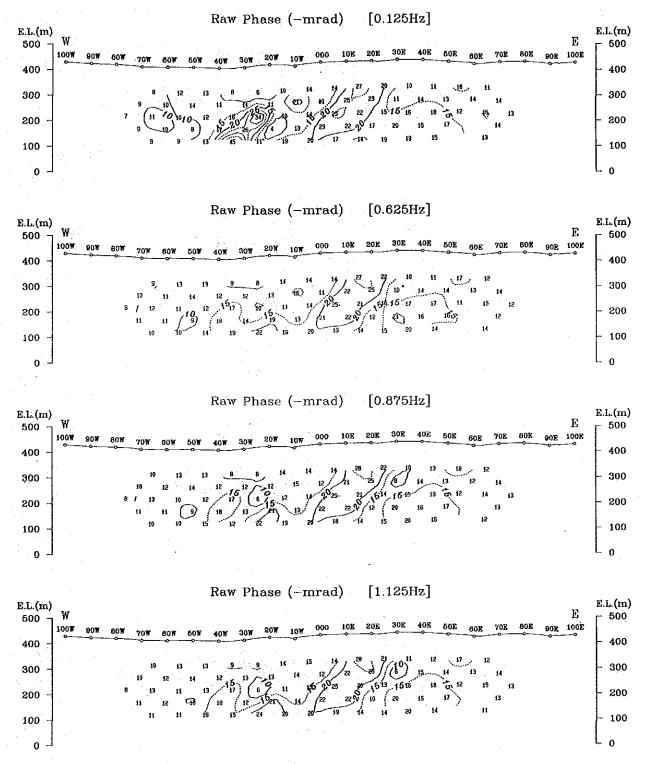
Line-1430S

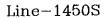






Line-1450S





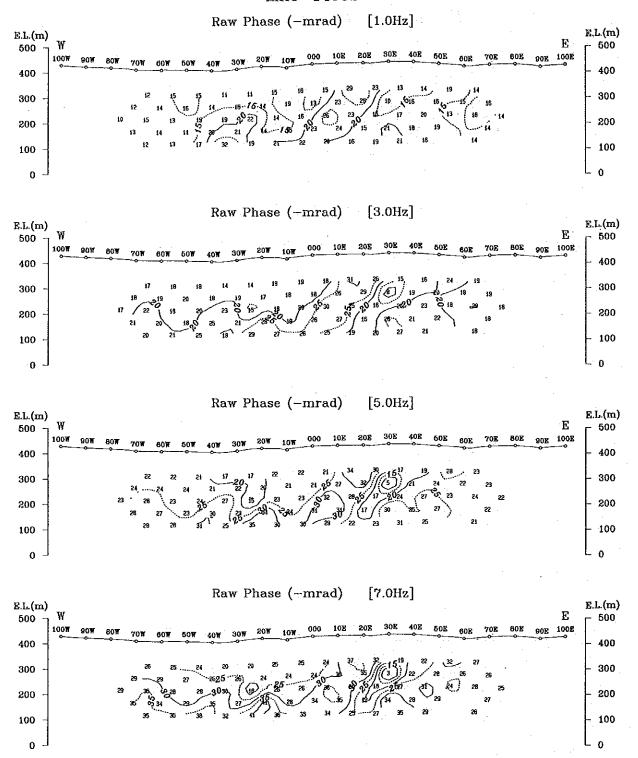
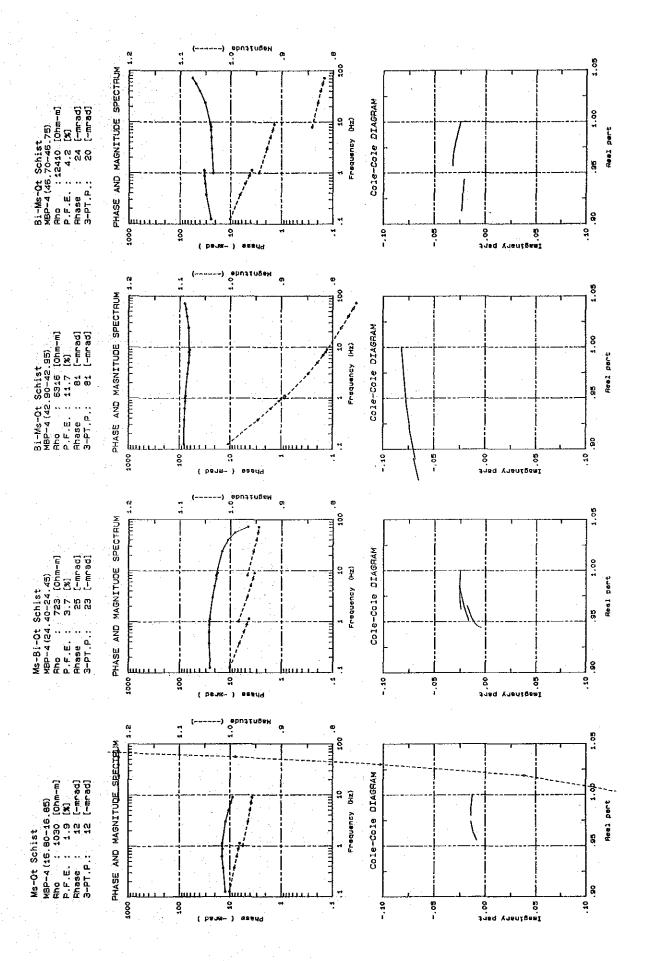
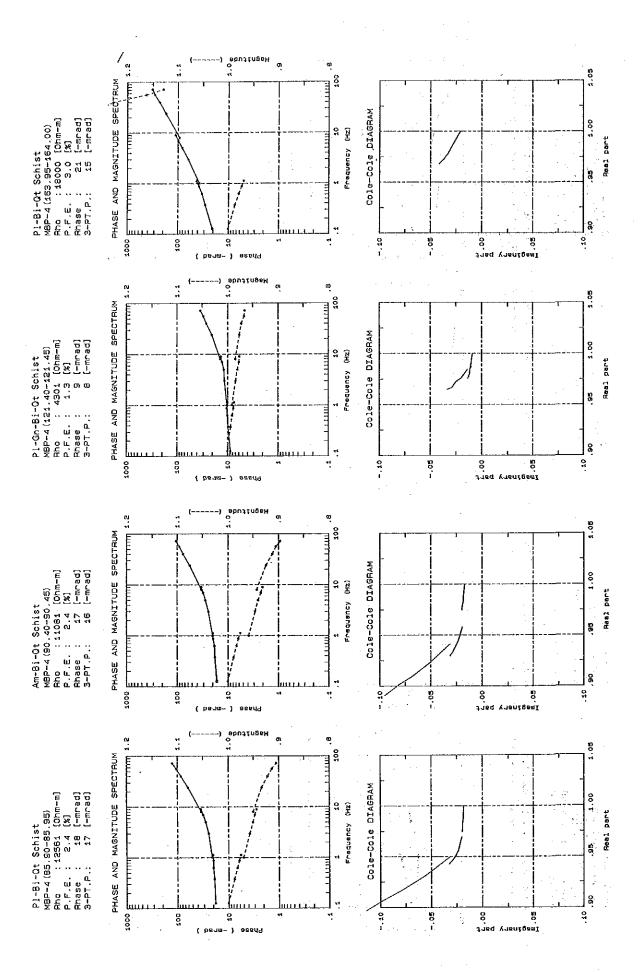
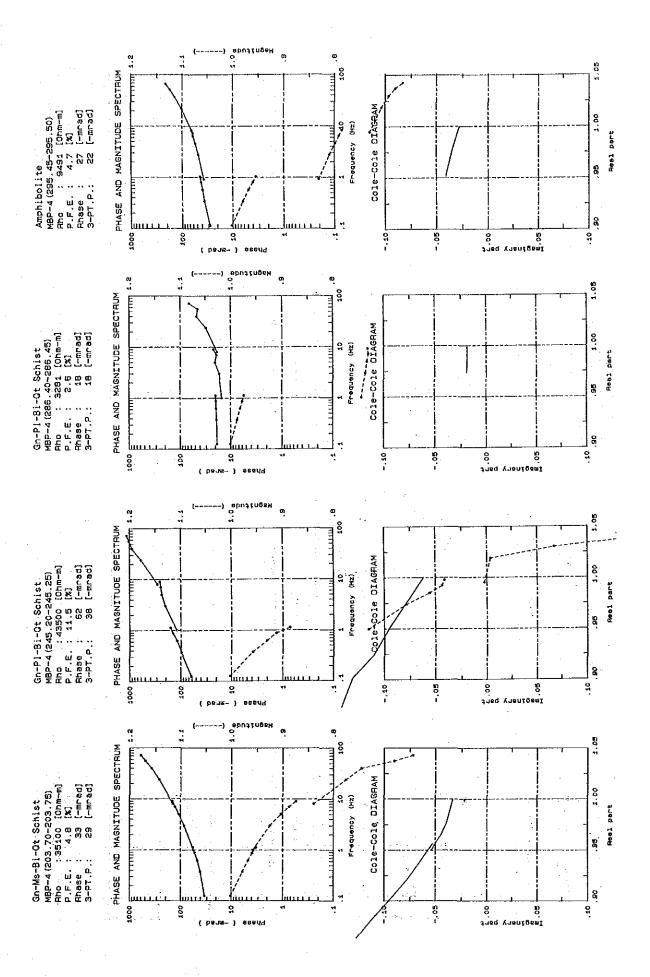
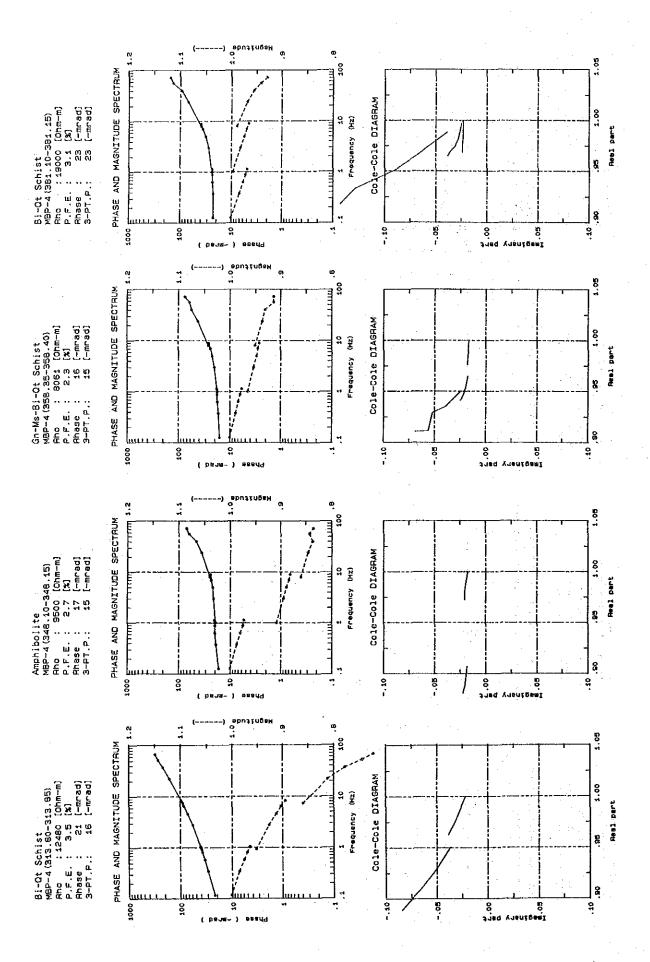


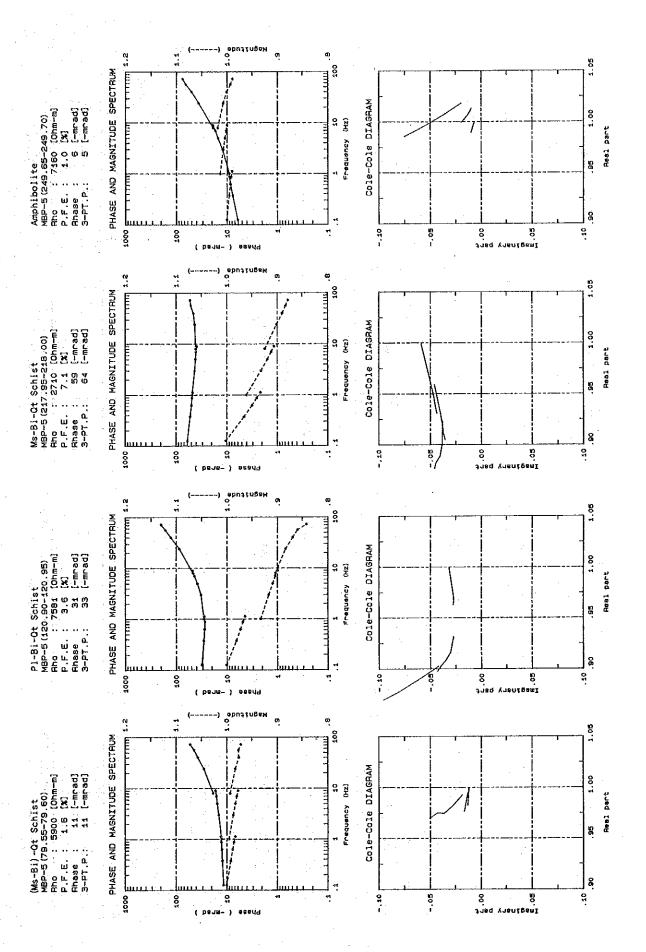
Fig. A-2 Spectra of Drilling Cores (26 Samples)

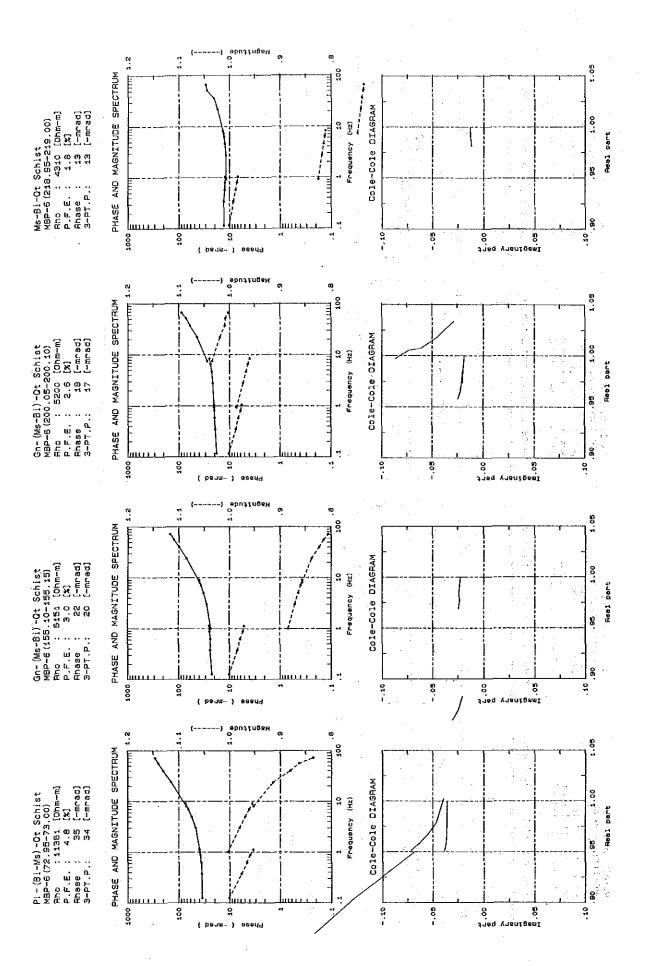












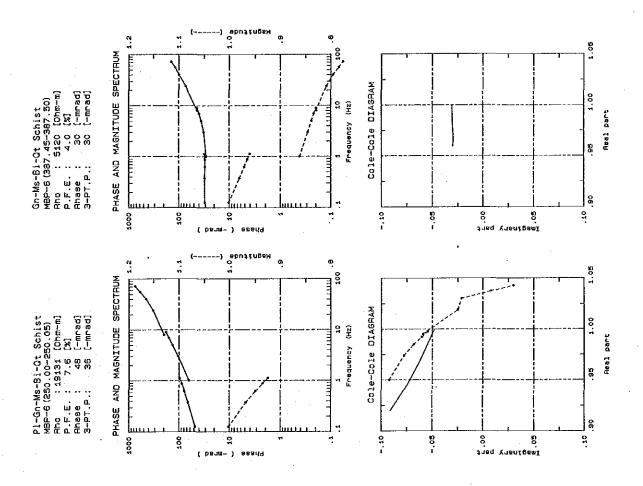


Fig. A-3 Lithologic Logs of Drilling Cores (1:200)

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LITHOLOGIC LOG HOLE NO. MBP-4 (3)COORDINATES : $\underline{E792.62}$, $\underline{N8548.36}$ INCLINATION : $\underline{-90}$ LOCATION <u>Palmeiropolis</u> area DIRECTION FINAL DEPTH: 400.00 m **PRINCIPAL** PORPHYRO **ORE** ore) OTHER BLAST MINERAL CONSTITUENTS E COLUMN DEPTH ROCK plagioclase REMARKS K-feldspar schistosit y pyrrhotite 2 staurolit plagioal calcite chlorite garnet pyrite ğ 80.40 O ō 80 f đ 0 75.20-80.40 80.90-81.25 O 0 0 80 f d Ô 81.70-82.20 0 o 80 f d 0 strong chloritization PI-Bi-Qt-Sch 0 0 f đ hydrothermally 0 0 85 f d 85 0 d 0 m (S) 86.00 0 Fd f 0 Bi-Qt-Sch 85 f 87.50 * đ a 0 ٠ 0 0 80 f 0 Am-Bi-Sch 87.50-97.00 0 0 0 80 f d 90 epidote occurs as (S) ٥ 80 f d ٥ • 0 stringers 87.50-92.50 V O o **(4)** O 65 d m amphiboles occurs as lenticular shape 70 92.60 0 ۹ O 0 m ď 0 80 0 . m 0 80[0 ٠ m d 92.50-92.60 mass at with py 0 0 0 o 70 m d 70 0 93.40 - 93.55 0 m (PI)-Bi-Qt-Sch mass qt 0 Fd 0 m 94.60 - 94.87 0 70 m mass at with py 75 m d fr 0 Q 100 55 0 m ď o stickenside 455°, rake 65° O đ 0 0 0 f d ٥ 85 102.30~102.32 102.50 102.35~102.40 0 . 80 f d 0 qt , mass ٥ f 80 0 d 103.75 -103.95 0 ~ 0 80 d qt, with py L55° ٥ m 0 85 0 m 0 80 0 m 0 85 m Ð (Gn) - PI - Bi 0 85 0 0 . m 110 -Qt-Sch 11 2.40 - 112.47 80 K-fed in gt O ٠ m 0 0 113.90-114.00 0 O 80 d 0 m more siliceous 80 O O ٥ • 0 m O 0 85 m o O 0 85 117.40 - 119.00 m

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0

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Fracture

Zone

117.40

119.00

120

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fracture zone, upper boundary L35° rake L70°

lower boundary L40° rake L35°

119.80 - 120.05

qt , mass

irregular shape

85 m

85 m

85 m

40| m

LITHOLOGIC LOG HOLE NO. MBP-4 (4)COORDINATES : <u>E792_62</u> , <u>N8548.36</u> INCLINATION : <u>-90</u> ° LOCATION <u>Palmeiropolis</u> area DIRECTION FINAL DEPTH: 400.00 m **PRINCIPAL** PORPHYRO ORE OTHER ore MINERAL BLAST CONSTITUENTS E COLUMN chalcopyrite plagioclase ROCK REMARKS K-feldspar ≄ ibole muscovite staurolite pyrrhotite schistosi chlorite sphalerit cite 6 garnet galena amphi miner bioti 8 O 0 85 f 120.45 -120.50 qt mass ms occurs 85 f S 0 0 around at O 0 80 f 120.10-122.25 0 0 Fd f ٥ only bi, pl O Q Fd f 129.00-129.25 0 0 40 o 0 asput appropriate 0 0 80 f irregular shape 0 O 80 0 calcite occurs mainly as stringer 0 0 80 f 0 0 80 f 130 130.25 - 130.45 o only bi,am **①** 0 80 0 m (bi>am) 0 0 85 m 130.45-130.50 0 0 • 80 m qt mass o O O Fd f • irregular shape 0 0 0 80 m 130.60 - 130.80 only bi, am 0 • Fd m (bi>am) (PI)-Gn-Bi 0 Ð f 75 131.65-131.80 -Q1-Sch О 0 ٥ 80 f qt mass irregular shape 0 0 85 m 0 132.15-132.80 O 0 o 85 m 140 fracture with cal o 0 0 . 85 m 135.33 -135.43 0 0 f . 85 135.65 -135.70 o O qt , mass 0 80 f irregular shape ٥ 80 f 0 ٥ 138.23-138.30 O 0 85 f chi K-feld occurrs as 0 0 0 85 f hydrothermolly 0 o 0 90 f altered products 0 0 90 f chl mainly follows O 0 • 90 f schistosity 0 **(** 80 ş. 150 0 152.95-153.00 qt bed.py, bi in qt Ô 0 Fd ·f 0 am around at 0 O 85 f o 0 O 80 f d 15 1.50 ~154.55 more siliceous 0 O 85 f 0 153.25 - 153.35 154.50 0 0 80 · f include am O 0 Fd f 155.35 -160.00 O 0 . 85 ·f limonite occurs in PI-Bi-Qt-Sch 0 0 85 f fracture a as dissem 0 0 • 80 f 156.95-157.10 Ó 0 more siliceous 85

LITHOLOGIC LOG HOLE NO. MBP-4 (5) COORDINATES: E792.62 , N8548.36 INCLINATION: -90 ° LOCATION Palmeiropolis area DIRECTION FINAL DEPTH: 400.00 m PORPHYRO OTHER PRINCIPAL ORE (ore) CONSTITUENTS BLAST MINERAL ٤ COLUMN DEPTH plagioclase chalcopyrite ROCK plagioclase REMARKS K-feldspar schistosit y staurolite sphalerite chlorite calcite mineral pyrrhoti galena quartz grain 160.50~161.50 Ō 0 85 m wh clay mineral O 0 80 m in fracture O 0 85 m 160.30-160.50 qt mass O 0 75 m (\$) irregular shape O 80 0 m 162.30-162.40 0 0 80 m at mass irregular shape, including py O 0 80 m PI-Bi-Qt-Sch 163.50 -163.80 75 O 0 m cal, str Fd O 0 m 165.32 -165.80 0 70 Ó m 170 wh clay mineral Ō 85 0 ٠ m in frácture 0 0 80 m 167.00 - 168.00 K-feld arocind chl O 0 Fd m 167.90 - 167.95 170.25 - 171.00 173.70 - 173.75 85 O 0 m 173.50 0 0 0 80 f PI-Gn-Bi qt , K-feld , chl 80 f O 0 O - Qt - Sch ٥ 75 0 174.70-175.00 at ,mass irregular shape, include bi O f 0 80 O • 177.50 0 m 0 70 O • O . ٠ m 0 70 O 0 0 chl occures as hydro-. . m 180 * thermally altered 0 O 0 70 • m product cal, usually occurs 0 70 O 0 m (Pi)-Gn-Ms as stringers O 0 o 65 0 m -Bi - Qt -Sch 0 O 0 0 65 m 186.90 - 187.50 65 fracture zone (fault), 0 0 0 m ٥ including cal 0 70 0 0 m O 0 . 75 • m 186.90 Fracture O 0 0 80 9 m 187.50 ۰ 0 Zone O 0 O 80 . m 0 O 75 0 . m 190 0 193.95-194.20 O Ø 60 m qt v, w=5cm 0 O 0 0 65 m ۷30° 0 0 0 50 m 0 (PI)-Gn-Ms 194.70 - 195.00 O 0 0 . 60 m -Bi - Qt -Sch qt v, w=1~2cm 55 O 0 ٠ m 50 O 0 . m ٥ O 9 65 . ٠ m ٥ ō ō 0 196.80 - 197.00 ٠ Fd m at mass O Ó 0 60 • ٥ m irregul shape O 0 65 m 200

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LITHOLOGIC LOG HOLE NO. MBP-4 (7)LOCATION COORDINATES : E792.62 , N854836 Palmeiropolis area INCLINATION: -90 ° DIRECTION FINAL DEPTH: 400.00 m PORPHYROOTHER **PRINCIPAL** ORE (ore) MINERAL **BLAST** CONSTITUENTS ٤ COLUMN lase DEPTH ROCK REMARKS K-feldspar schistosit y sphalerite amphibole staurolite plagiock chlorite plagioci ineral galena calcite pyrrhoti garnet pyrite quartz 0 ø O 243.70 - 244.05 PI-Ms-Bi 70 O . m fr at mass -Qt-Sch irregular shape 0 o 80 f 0 0 80 f 244.00 243.00-272.00 0 0 0 f more siliceous ➂ 0 o m 245.65 -246.05 o cal v.lets L40° f O 0 . O f 0 244.20-244.80 ٥ many at mass 0 ٠ f đ ٠ 0 irregul shape 0 o f đ 0 0 . 250 ٥ 246.50-247.50 0 60 f đ 0 0 ٠ ٥ cal strs O 0 60 f 247.15 -247.40 \\ 250.00-250.25 \) o Ø O 0 60 f d many qt mass 0 0 0 • 80 f d 0 247.95-248.40 . f 80 đ 0 O 0 qt mass 0 irregular shape 0 50 f ٥ cut schistosity 0 0 80 f 0 253.85 - 254.30 0 O d • at mass 0 O ٥ f 0 80 Gn-PI-Bi 261.30 - 261.70 O O 0 80 f chloritization 0 260 -Qt-Sch hydrothernal alteration 0 ٥ 0 0 m 0 262.05 - 262.30 0 80 f đ 0 0 262.90 qt mass L60° O O 0 ٠ o d 263.65 262.90 - 263.65 0 0 75 0 0 O ٠ o m d bi-am schist (bi>am) include cal str /intercalate \ 0 f 0 80 0 (Am - Bi-Sch/ 0 265.20 265.55 O 265.20-265.55 V o 0 0 m ditto O 0 0 0 65 m d o 268.70 - 269.15 0 o o o f 60 d 0 ditto 0 o 65 0 0 m d 268.70 269.15 270 272.40 - 272.50 0 0 0 55 đ m cal str O ÷ 70 f 0 o 75 0 O ٥ m 272.70 - 273.00 am bi schist 0 0 0 m d 272.70 273.00 0 0 m 269.15 -272.70 80 0 0 m many qt mass irregular shape 0 O 70 o m 0 0 65 m 0 0 70 0 0 f 279.40-279.55 0 ٥ 70 f ø rich in bi 0 70 0 . 280

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	V V	Amphibolite	0		\dashv			•				•	$\dot{\cdot}$	•	-					m f	q	
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	V							•				٠		٠					70	m	d	
	v v	-\$						•				٠		٠					70	-	d	349.40-350.10
750	V .		$\vdash\vdash$			0		•				•		•				_	65 70		d	irregular banded strudure of qt e am
350 350.10	~ ~		0			0	•	_	_	-	$\vdash \vdash$		-			\dashv			70 70			350.10 - 350.60
	ĺ	Ms-Bi-Qt-Sch	0			0	•						\cdot						75	m		rich in qt seg- regations
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			CATION : RECTION :	<u>Pal</u>	me i	rop	olis	<u>a</u>	rea		•	U	NÇI UÜH	NIU: Ani	AIL Tio	И:	<u>5/3</u>	92. 0°	<u> 62</u>	1	NSC	948	36_
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		Ě	ROCK		ė	ž						se					te			χ	a,	type	REMARKS
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۵	·	ت		quartz	gio	fek	biotite	SCO	phil	garnet	22	oj	cit	chlorite	r bo	pyrite	alco	galena	ale	iist	grain	mineral	
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-	0	~		0			0	0							•					65	m	đ	361.05-361.25
			Ca Ma Di	0			٠	0		•					•			!		60	w	đ	many irregular at mass, sub parrallel
	~	٥	Gn-Ms-Bi -Qt-Sch	0			0	٠		٠					٠					65	f	d	to the schistosity
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367.80	Ĺ,			0			0	•		•				٠	•		٠			70	f	d	more siliseous
369.15	8	Ş.	Bi-Am - Sch	0			0								٠		٠				W	d	367.80-369.15 bi am schist
370	~	۰	;	0			٥								•	_					m	d	
				0			•		_			0		٠						60	f		367.90-368.00 qt segregation v.
l	٥	~		0			0					•			_	,					f		accompanied by, pr cp
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			(Gn) - Bi - Qt	0			0			•				0		•			•		m	d	spotted pl p max=5mm
	0	~	-Sch	0			0							٥	•	•			_	60		d	373.00-374.70
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38 <u>1.00</u>	Ľ	~		0	_	-	0	-		•		•		•	•	٠					w W	4	co · gr am
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			Bi-Qt-Sch	0		-	0						•	•						85		u	many qt mass
_	~	~		0	-		٥						•	0	_	_			-	85			387.50 - 389.40
390	,	~		0			0						-	0						85			rich in chl
330				0			0	-				 	•	•				-		85	_		altered products 389.20-389.80
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39470	~	~		0			0		0						•					60	f	d	include qt ,pr 394.80-395.45
395.45	<u> </u>		Bi-Am - Sch	0			0		0						•					60	С	đ	bi am schist
	\	✓		0					0												f		39985 - 400.00
	V	V	Amphibolite	0					0												f		bi am gt
399.85	,		Bi-Am - Qt	0					0								L				f		schist with pr in schistosities
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		NAL DEPTH:	400).45	m										·							
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E	<u> z</u>]						-	-													
ОЕРТН	COLUMN	ROCK		3Se	par		au	ę.		ø	gse			e)		rite		9	t y	size	type	REMARKS
130	93		2	plagiociase	K-feldspar	te	muscovite	amphibole	e :	staurolite	plagiociase	e i	chlorite	pyrrhotite	9	chalcopyrite	ם יוס	sphalerite	schistosity	S	mineral	
			quartz	g	(- fe	biotite	Janu	ldu	garnet	ton	ā	0	hloi	yrr	pyrite	halc	galena	phq	chis	grain	nine	
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	Y///		٥			·	0													f		2100 7200
20			٥			٠	의							_								21.90-32.00 weathered along
			0				0					ļ										fracture & schistosity
21 <u>.90</u>	~ ~		0			0	0							-				-	65			26.00-26.35 micro folding at part
-	,,		ő	\dashv		0	0									\dashv		\dashv	70	m		is thicker than mica part 26.85-27.20
	~.		0			0	0												70			rich in qt (lx3∞4cm)
	~ ~	Ms-Bi-Qt-Sch	0			٥	0	┪											70	m		28.45 - 28.50
			٥			٥	٥	╗											Fd	m		fault, argillized 30.05 - 30.30
	~		0			0	0												Fd	f		rich in small qt
28,50	\sim 0		0			٥	0		•											m		not along schistosity 28.50-47.00
30		•	0		_	0	٥		٥										Fd			include garnet
 	° ~	:	0			0	0	_	0						•			_	Fd	i	đ	30.90-31.10 qt include very small
	~ 0		0		-	의	의		0			-						_	70 50	С		pyabi, ms as lenses
			٥		-	9	0	-4	0									\dashv	50	C		32.00 - 32.10 qt
-	° ~	(St)-Gn-Ms	0			0	°		0			\vdash	$\vdash \vdash$	\dashv	_		-	\dashv	Fd 70			32.95 - 33.00 qt 36.50 - 38.50
-	~ 0	-Bi-Qt-Sch	o		\dashv	0	0	\dashv	0	0		Н		\dashv	\dashv	-		-	60	m c		strona microfoldina
	。 ~		0	\dashv	-	0	0		0	0							\neg	1	Fd	c	\dashv	36.90 — 37,20 large garnet Ø≦2 mm 35.00 – 38.00
			0		\dashv	۰	ō		o	0				1				+	Fd	c		55.00−58.00 stauhärite ø i + 1.5mmx − 1mm
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40	o ~		0			٥	0		Ö	•									Fd	m		rich in small at frag along schistosity

a tagankar a Maha			LITH CATION :			G I (C	OOR	DIN	ATE	S:	BP- E79 -90	€2.			<u>N85</u>	548.	(2) 46_
			IAL DEPTH:	400	0.45	<u>m</u>						1	NVL	,IIIA	110			<u> </u>					
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ОЕРТН (т	COLUMN		ROCK	quartz	plagiocíase	K-feldspar	biotite	muscovite	amphibole	garnet	staurolite	plagioclase	calcite	chlorite	pyrrhotite	pyrite	chalcopyrite	galena	sphalerite	schistosity	graín size	al type	REMARKS
	~	٥		0			0	0		0	•										m		42.40 ~ 42.60
42.40	0	~		0		_	٥	0		٥											m		bi-am schist
4 <u>2.60</u>				0			0	0		0					\sqcup					50	<u> </u>		42.70-42.28
	~	٥	(St)-Gn-Ms- Bi-Qt-Sch	L			0	٥		0		_								70			at mass
	0	~	DI-01-3011	0			0	0		٥	ļ		ļ						_	Fd	-	ļ	44.50 – 44.55 qt include py
	~	0		0		ļ	0	0		٥			_		_					70		<u></u>	45.85 - 45.90
4 <u>7.00</u>	0	~		0	_	 	0	0		۰	-	ļ				0				Fd	_	d	qt include py
	~	~		0			0	0		<u> </u>		<u> </u>	_			0			_	70		d	46.90 - 48.00
				0			0	0					<u> </u>			0				Fd	m	q	py following schistosity
50	~			0		_	٥	0					_		_	•			_	Fd	f	d	48.00 48.10
				0			0	٥						_		•					f	đ	ot include py
	~	\sim		0			0	٥					<u> </u>		_					Fd	m		49.60 - 49.70 py in schistosity
				٥			0	0								•				Fd	f	d	
***************************************	~	ŀ		의			0	0												Fd			35.00— strong microfolding
				의			0	0	_												m		49.90 - 50.00
	~	\sim		P			0	0											_		m		py in schistosity
		1		0			0	0	_			_			_	_	\sqcup		_	-	W	d	50.50 - 50.75
	~			l °			0	0							_			·		-	m		91
				٥			٥	0							_			_		Fd	M		
60	~	\sim		°			٥	0	_	·			<u></u>		_				_	۴d	W		
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	~		MBP5-I	0			0	٥	_						_	٠		٠	_		m	-	sph≯gō>py dissem following
				0			0	٥	_							•	\Box				m	d	schistosity
	~	\sim		0			٥	0					ļ								m	Ш	64.98 - 65.03
				0			٥	0								•	\Box	Щ		_	កា	đ	qt , ∠ 60°
	~	ļ	(Ms-Bi)-Qt	0			0	0												Fd	-		67.70 -68.55 siliceous, include py
			-Sch	0			٥	٥				_			_	•					f	d	
	~	~	9011	0				0		_		_		Щ	_	0				70		d	66.65 secondary chl, £60°
				0	_			0					ļ			0				Fd		₫	67.05 - 67.15
70	~			0			٥	0				<u> </u>	ļ								f		silicified, include py
		ĺ		0			0	٥		<u> </u>	<u> </u>	_	_		_	0				Fd		đ	72.80 - 72.82
	~	~		0			0	٥		_		ļ	<u> </u>		_	·			_		m	d	am , garn, qt
				0		$\mid \perp \mid$	0	0		_	H	L	L		_	0				80	_	d	74.70 - 74.80
	~	1		0		_	0	0					<u> </u>						_	75			bleached, py
				0			0	0		<u> </u>	_	<u> </u>		Щ		0	\dashv				f	4	73.38 - 73.40 lenticular, qt., am
	~	~		0			0	0		ļ	<u> </u>	<u> </u>	<u> </u>	Ц	4	•				70		d	ionitioniary 42 y ann
		- [0			0	0		ļ			<u> </u>			٠				75		d	
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		LITH												NO.				<u>.</u>				(3)
		CATION : RECTION :	Pal	me i o	rop	olis	0	<u>re a</u>			C	OOR Nici	NIO!	ATE:	S:	E79	<u>}2</u> ∩ 0	<u>95</u>	1	N85	48.4	<u>16</u>
	FIN	NAL DEPTH	400).45	m						1	IVOL	,IINA	1110			¥					
	<u> </u>			_		-	C		POF	ייים כ	VC^	T			~~~	, D. C.		ON SOR	·	-		
			1	RIN		'AL TUE	NTS			крн "А\$		OTI	IER			RE VER					(ore)	
E	-		<u> </u>	,VIX.	J 11	, UL		,	-"				r	Т		, <u>, , , , , , , , , , , , , , , , , , </u>						
	ا يُخ	ROCK		o	ī						မွ					e e			۸	as	type	REMARKS
ОЕРТН	COLUMN	""		plagioclase	K-feldspar		muscovite	ole		staurolite	plagioclase	۱.,	o	ite	.	chalcopyrite	_	sphalerite	schistosity	size		TE MATING
۵	٥	-	quartz	ġ.	felc	biotite	SCO	phit	rne	uro	gío	calcite	chlorite	pyrrhotite	pyrite	읦	galena	ale	isto	grain	mineral	
	ŀ		ğ	吕	¥	<u>8</u>	mu	Ē	garnet	STC	ם	8	동	ă.	ă	픙	ga	sp	သူ	gro	Ē	
	~ ~		0		-	0	0								╌			- ASSESSMENT	75	m	d	0000 0010
			0			0	0		-			 			•				75	m	d	80.00-80.10 qt mass, <u>L</u> 40°
-	~		0			0	0					····			•				Fd	m	d	include py
			0			0	٥												70	f		84.55 – 85.20 almost bi
	~ ~		0			0	0							•	•				Fd	С	d	ulinosi pi
_			٥			®	0								•		,		Fd	Ç	đ	84.85 <i>-</i> 84.94
	~		0			0	0								٠				75	m	đ	19
			0			0	0													m		85.20 -85.50
	~ ~		0	:		0	0								•				Fd	m	đ	4 irreg qt mass
90			0			0	0	-						Ш					80	m		
l	~		0	_		٥	•					L			٠				Fd	m	ď	90.60-91.30 weak alteration
9 <u>1.40</u> 9 <u>1.65</u>	<u> </u>		0			•	0	0							٠				70	m	d	weak chi, py included
l	~ ~		0			٥	0	•					<u> </u>		•				70	f	q	
l		(Ms-Bi)-Qt	0				0				_				•				75	f	d	91.40 - 91.65 am · bi·schist, ∠60°
 	~	-Sch	0			٥	0				_			\sqcup	•				80		d	92.50 – 92.55
			0			0	0	_	<u> </u>						•	.			80	m	d	chi secondary
97.25	~ ~		0			0	٥	_	.	_		ļ	ļ	$\vdash \vdash$	-				Fd	m	đ	92.70 - 94.20 silicified
9 <u>7.55</u>	VV		0	-		0	•	0			ļ	-			•			-	Fd	m	d	acconpanied by py
	~		0	-		٥	_				\vdash			\vdash	•			_	Fd Fd		ď	95.05 -95.25 weak silicified
100			၂ၜ			٥	•				_			┝─┤	•				Fd	_	b	
	~ ~		0			0	•	0		-		0		\vdash	÷						d	97.25-97.55 bi-am schist, folded
101.70 102.05	V V		0			-	۰	9				Ľ	0	\vdash	•				Fd 65		d	98.40-99.70
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118.50	~ ~	OLD: 0: 0:	0			٥	٠				Ш								80	f		with width of few mm to 2cm
120	<u>^</u> ~	Pi-Bi-Qt-Sch	0			٥									•				80	f	С	

LITHOLOGIC LOG HOLE NO. MBP-5 (4)COORDINATES : E792 95 , N854846 INCLINATION : -90 ° LOCATION Palmeiropolis area DIRECTION FINAL DEPTH: 400.45 m PORPHYROOTHER ORE PRINCIPAL (ore) CONSTITUENTS BLAST MINERAL E COLUMB DEPTH chalcopyrite ROCK REMARKS schistosity sphalerite muscovite amphibole plagiocle chlorite pyrrhotit plagioci calcite ō pyrite grain K-fel biotit 큖 0 0 120.25 w=5cm 0 ٥ . 80 f d **(S)** qt , include am O ٥ f 0 0 80 ď 120,80-121.30 O • ď ø chloritization 0 O f 0 d acconganied by v. little cal, py O 80 f 6 0 126.45 - 126.50 0 0 ٠ 80 f đ qt 0 0 0 80 f 127.90-127.93 0 O 80 f qt , lenticular 0 Fd o 0 . 0 f 128.65-128.70 qt irregular shape O 85 0 130 o 0 O 0 80 132.20 py in fissure 0 0 0 80 f 132.60 - 132.63 O 85 f 0 0 ď at irregular shape 0 o O 80 f with pyams O O 0 80 f d 135.65 qt ,cal, py, ms chlorite 75 f O 0 đ w= 2cm, L60° PI-Bi-Qt-Sch 75 0 0 Q 0 f 145.60 - 145.65 0 85 0 O 0 m qt ,chi,py w = 3 cm, $L45^o$ 80 f 0 0 0 0 O 70 f M9.90-150.30 140 0 rich in bi 0 85 ·f 0 O 151.90 w=3cm ø 70 f 0 qt , am 0 o 0 80 f d 151.90 - 152.65 ٠ 0 80 f þ qt frags 0 0 80 f 152.05-154.15 0 0 0 70 f am , bi schist include qt ,cal str 0 70 0 f 154.25-154.35 0 70 ٥ O f om , bi 0 0 80 f 0 ď ballshape 7x15cm upper purt:am 0 85 0 m ď 150 154.10-154.15 0 O • 80 d m ditto 5x2cm 0 65 f d 154.70-154.95 152.05 (70 f ď richin bi, include amph Amph-Bi-Sch 0 ٥ . 0 f d upper part: qt irregular shape 154.15 d 0 0 ٠ 0 m 158.55 - 158.70 ٥ d 0 0 Fd m bi » am , am ; lenticular, in bi o 0 Fd f 0 đ (PI)-Bi-Qt 158.80 o 0 Fd d -Sch m bi,at am w=2cm 0 O 0 Fd f 159.50 w=3cm rich in bi, include chl Ø 70 160

LITHOLOGIC LOG HOLE NO. MBP-5 (5) COORDINATES : $\underline{\text{E792.95}}$, $\underline{\text{N8548.46}}$ INCLINATION : $\underline{-90}^{\circ}$ LOCATION <u>Palmeiropolis</u> area DIRECTION FINAL DEPTH : 400.45 m PORPHYROOTHER **PRINCIPAL** ORE (ore) MINERAL CONSTITUENTS BLAST ٤ COLUMN DEPTH chalcopyrite ROCK Size REMARKS K-feldspar schistosity amphibole staurolite muscovite pyrrhotit plagiocl chlorite sphalerit 5 biotite calcite galena garnet pyrite Ō O f 160.10 70 ď secondary chl O 0 f 70 d o L90° crosses schist 0 0 60 f: d 0 163,85 -163,95 (PI)-Bi-Qt cogr am < bi 163.85 0 0 0 0 Fd d f -Sch 164.02-164.05 ō ō (0) Fd 164.75 . f đ am < bi V 165.05 • f 60 d 164.75 - 165.05 am in schist, schst changes gradually • d • f in am • f d 168.75-169.00 170 • f d cal strs (network) & chi (Gn)-Amphibolite 1 • . f d oornet **ø** < lmm • d ٠ . 0 f (f ٠ 0 đ 176.00-176.40 qt , Bi, amoh **(** f 0 0 d 176.70-177.25 **(1)** o f o đ bi am schist • Ģ f d 0 76.00 177.35 - 177.55 0 0 70 f ditto O 0 80 ď 177.65 - 177.80 ō ditto 0 80 f. 178,40 177.97-178.15 0 ٠ 85 f d 180 Bi - Qt - Sch ditto 0 ō 0 . Fd d m 178.30 -178.40 O 0 Fd 0 f d ditto Bi-Amph-Sch 0 0 ٠ đ m 178.10 - 179.10 cal. chl, w=0.5cm 0 40 f d 178,85 -179,10 Ó 0 0 f d Fd siliceous 0 0 . 85 f d 180.00 - 180.30 include am ≺ bi 0 0 0 85 đ f 181.90 - 183.20 0 0 0 f d 187.70 include am < bi 0 0 o . ٠ Fd d m 184.60 - 187.70 Ō 0 65 d . m 190 schist qt. <bi<am 0 Fđ 0 m ď 188.00-188.20 O ٥ **(** Fd m am < bi schist Ó Fd m d 190.15 ~190.35 Ms-Bi-Qt-Sch bleached alteration with chl 0 ó Fd m 191.30 - 192.10 o 0 . Fd d m included mo >id 0 Ø . d m 122,45-122.80 0 0 • ٠ Fd ď m qt , irregular masses Q O 0 m d 192.95 - 193.05 0 O 0 d . Fd m chl, epid, infissure O Fd

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225 <u>.93</u> 226.15	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		⊚		•			•			-	-			•						d d	chl in fissures 223.15—223.93
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			0	-		0			•	-		 - -		•					-	-		bi am sch ,qt include
	~ ~		6	-	-	0	0		Ļ			-		•	•				85 75		d	311.15 -311.40
700	~		6	-	 	0	0	├		-		-	\vdash	•	<u> </u>	-	_	- 1	(5) 85	m	d	bleached chloritized
320	ı	3	1 "	1	F	. ~	. ~		f		t ·	r	ı (· -	i .	. 1			n:) l	i mil	d I	i '

						- Carlos			materia									,		-		
	10	LITH CATION :							•		0					8P-				RIOS	340	(9)
		RECTION :	<u>.rq1</u>	me i	<u>.vp</u>	V!IŞ	0	160		•						-9(_1	iio;	/4Q	46
		NAL DEPTH:	40	0.4	<u>5 m</u>						-				٠							
				RIN	ماداد	ΑΙ.		-	pΛi	opu.	VP/	Γ-		-		RE			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Γ	
_			1	ON			NT:	5	BI	LAS	T	OTH	ΙER			VER			,		(ore)	
E	z		-	<u> </u>				Γ					П) e	
H	∑ ⊃	ROCK		se	ar		١,	41	l	61	Ise					<u>£</u>		63	×	a)	1yp(REMARKS
EPT	COLUMN			plagioclase	K-feldspar	a)	muscovite	amphibole	<u>+-</u>	staurolite	plagioclase	(a)	ie.	pyrrhotite		chalcopyrite	0	sphalerite	schistosit y	size		
^			quartz	agíc	- fe	biotite	SCO	Hdt	garnet	qur	agie	calcite	chlorite	rrhc	pyrite	25	galena	hal	hist	grain	mineral	
			=	ď	χ	Ď	Ē	8	õ	st	ā	22	ភ	p	g	ទ	ð	Sp	SC	ğ	Ē	
	~ ~		٥			٥	O							•					75	Е	d	320.70 -320.95 \
			0			٠	0							•					Fd	m	d	321.50-321.70) weak chloritized
İ	~		0			0	0								٠	·			70	m	d	321.95 - 322.20
	~ ~		0			۰	0		٠					•	•				80	m	d	bi <ms a="" frag<br="" qtz="">irregular shape</ms>
<u> </u>			0			٠	٥		٠			L.		•	•				80	E	d	333.90-337.95
	~	(PI)-(Ms-Bi)				0	0	<u> </u>						•					Fd	m	d	altered & fractuated
	~ ~	-Qt-Sch	ō			0	0								•				Fd	m	ď	fracture filled with limonite a wh clay
			0	\vdash		0	0	-						•	•				80		q	333.90 - 335.30
	~		0	<u> </u>		0	0	.						•	٠	-1			80 85		d	silicified, k-feld
330	~ ~	ļ	00	-	Н	0	0							•					85	-	q	334.50 fault brec(clay) w=2cm, L50°
-	~		0			0	-		H		-	-	\vdash	•	•	\vdash			85		d	w = 2cm, 250°
			0			•			H		0			•	•				85	_	ď	334.50-338.00
	~ ~		6			0			\vdash		Ť			•	•				85		d	fractuated a fragile
333,90	177		0		0	•	0		-				0						00	W :::	d	335.30 fault brec, w=2cm slickenside, ∠50°
		Altered	0				Ť						0							f	u	
-		Rock	0		0								0					П	85			335.30-336.30 silicified, chloritized
337.95			0		٥								0					\exists		f		336.30 -337.95
338.18 338.64	$\hat{\nabla} \sim \hat{\nabla}$		٥		٥			•	•					•	•				80	f	d	silicified, chl, k~feld
340	~ ~		0		•		•		•				0	•	٠				80	f	d	337.95 -338.18
	~		0			0							0		٠				Fd	f	d	ms bi sch
	~ ~		0			0			٠				0		٠		_	_	Fd	-	d	338.18 -338.64 bi am sch
1 _			0			٥							0		•		_		80			338.64 - 338.70
1 _	~		0			•					0	•	0		•				75			qt sch. include garnet
l _	~ ~		0			0	•				0		٥	•	•			-	70	-	d	chloritized
			©			•	۰		•				٥	_	0				45		đ	339,85-341.65 silicified. chloritized
	. ~		0			•			•						0				40 40		d	341.65 - 341.85
	~ ~		0				•			-	\vdash		0		•			-	40 45	-	d	am · bi·chl sch
		(Pi)-(Ms-8i)	0			0 0	•						0	\dashv	•		-	-	45 Fd	ın f	d	340.00-352.18
350		-Qt-Sch	0			•	<u> </u>				0		0	\dashv	÷	\vdash		\dashv	ı u	- <u> </u> -	d	chloritized at intervals
	~ ~		0			•	•				0		0	-	•		\dashv	\dashv	$-\dagger$	<u>'</u>	d	345.45 - 346.40
	~~		0			•	•				0		H		0				Fd		d	silicified with py achl
			0	\vdash		٥	0												55			
	~ ~		o			0	0	\vdash	_					\dashv	0				60		đ	355.05-355.60
355.05 355.60	$\nabla \sim \nabla$		П			0	٥.	0							•				70		d	am ∢ bi schist
33,00			0			0	0								•				65		d	
			0			0	0								0				80	f	d	
	~		0			0	0								0					m	d	
360	_ ~		0			٥	0								•			- 1	70	f	đ	

	DIR	LITHOCATION : RECTION :	Pal	mei o	rop	olis					C	OOR	DIN	ATE	S: N:	E.79)2 (-1	N85	48.4	(10) 16
(EE)	A ANALOWANIA CONTRACTOR OF THE PARTY OF THE			RIN				}	POI BI	RPH _AS	YRO T	OTł	IER		MIN	RE			10 July 10 Jul		(ore)	
ЕРТН (1	COLUMN	ROCK		clase	K-feldspar	40	vite	bole		olite	plagioclase	÷.	te	ntite		chalcopyrite	ŋ	erite	osity	size	ał type	REMARKS
C	C		quartz	plagic	K-fel	_	muscovite	amphibole	-	staurolite				pyrrhotite	pyrite	chalc	galena		schistosity	j grain	mineral	MACRICO AND PORTO CONTRACTOR AND
	~ ~		(9)			0	0		•		•		•	٠.	0	-			75 85	_	q	360.55 - 360.80 bleached with py
	~		0			0	0				0				•				85	m	đ	
	~ ~		0			0	٠		-			. '			•						d	361.10-361.45
			0			0	•								٠					m m	d	rich in bi
			0			0	٥								•			_		m	d	361,45-362,10
	~ ~		0			0	0				0				٠					m		chloritized
	~		0			٥	٥		٠						٠			_		m		with py
370	~ ~		0			0	٥								•	\dashv		-		m	-	367.70-368.00 weak chlorifized
	~		0			0	•			-					•				_	m (c)		with py
			0			0	٠								•					m		372.45-372.50
	~ ~		0			0	•								٠				80	m	d	rich in bi with at mass
	~		0			0	٥								•					m		with 41 mass
	~ ~		0			0	0						-		•				-	9 9		
	~		0			0	0	_							•			1		m	d	
		(PI) (Ms-Bi)				•	0								•			_	_	m		
380	~ ~	-Qt-Sch	0			0	0								٠				-	'n	ď	
	~		0			0	0												80			
	~ ~		00			0	•								•		· ·	_	/5 70	f	d	
	~		6			0	0	_							•				75		d	
			o			0	0			-									70		d	
	~		0			٥	•								0				70	-	d	387.20-387.25
	~		0			0	•		•		٥				•				70	$\overline{}$	d ·	chloritized
	~ ~		0			0	•		-		0		-		•			-	70	f	ď	387.85 – 389.90 chloritized
390	~		0			0	•		-	-	•	-			•					f	d	at intervals
	~ ~		ि			ō	0		•		0				0					m	d	·
			0			0	0			<u> </u>	0				٠					9		
	~		0	_		0	٥		<u> </u>	<u> </u>	<u> </u>	-		<u> </u>	•					m		
	~ ~		6	-	ļ	0	0	-			_	-			•					m		·
	~ 1		0			0	0		-		-	-			•		H	_	_	m		399.05 - 399.20
	~ ~		0			0	0												Fd	m		qt . mass with
			0			0	0	ļ	<u> </u>	ļ					٠					m		ms a py 396.70397.00
400	~		0		ļ	0	0		-	-	-		-	ļ	•	-	$\left \cdot \right $		65 60	m	q	limonite stained
400.45	~~~		Ϊ́		ļ		<u> </u>	L	J				<u> </u>	<u> </u>	<u> </u>	<u></u>	Li		50	L'''.	L. <u>"</u>	

MOSE MANAGEMENT						ledanský st			13840-G-*C	Zir Salegla Kirksalı	sembjeca e				active state of the	armen.		a de la companya de	and the contract of the contra	AN MATE	ways o	
	inc	LITHC : CATION) L Pali		*****						c	HOI	LE DIN	NO. ATE	MI S	BP~ F79	6	93	. 1	N85	49.2	() 215
	DIR	ECTION :		0			<u></u>	<u> </u>		4.4	I	VCL.	INA	TIO	N:	-9() °	I.J.,	-) ·			GLY
	FIN	AL DEPTH:	<u>401</u>	<u>.32</u>	m																comment.	
				RIN			-		POF	PH\ Δς	/R0	OTŁ	ĭFR			RE					e)	
(E)			C	ON	STI	TUE	NTS	}	Bi	AS	T				MIN	VER	AL				(ore)	
	Z Z	ROCK		a)	ú						a					o o					type	REMARKS
ОЕРТН	согими	RUCK		plagioclase	K-feldspar		/ife	amphibole		staurolite	plagioclase		e	ite		chalcopyrite	_	sphalerite	schistosity	size		REMARKS
۵	Ü		quartz	ıgio	felo	biotite	muscovite	iphi	garnet	auro	gio	calcite	chlorite	pyrrhotite	pyrite	읞	galena	hale	hist	grain	mineral	
			Вb	plo	Α.	ă.	Ē	00	90	ts	ā	DO	당	λd	à	ភូ	9	sb	SC	ź	Ë	
					THE PERSON NAMED IN	- Control																0-1.60 dark brown
1.60																						~ brown soil
		· ·																		<u> </u>		1.60-8.50
				_	-								_									strong weathered rock, f,grained
																						a orgillized, verysoft
																						only mica is defined
		Soil																				0.50.10.10
10		,										_										8.50-19.10 strong weathered a argillized rock,
														_								a argillized rock, very soft, f-m
		,			_	_						┝	<u> </u>					_				grained, ms, bi, qt are defined
			-		-							\vdash	一	-								are dernied
																				·		01.91-00.81
												L										same structure with underlying
ļ , <u>—</u>			Ŀ		_							ļ								_	-	lithology
19 <u>.10</u>			۰			0	0		0			L	_						45	m	<u> </u>	19.10 - 27.50
20	~ °		٥		<u> </u>	C	0	_	0		•	-		-					Fd.			limonite in schistosity
	0 ~	(PI) - Gn - Ms	٥		-	0	0		0		•						_		Fd			10 10 . 24 3 0
-	~ 0	- Bi-Qt-Sch	0			0	٥	_	0							,			Fd	-		19.10 - 24.30 garnet, ø< lmm
] ~		0			0	0		٥		٠								70	m		25.65 - 27.40
24.30	~~		٥			0	0		٠				_				_		70	_		strong limonitization partly argillized
_			0			0	•				<u> </u>	<u> </u>	_	_		_	H		70 75	m m	\vdash	26.20-26.50
	~ ~		0			0	•		•			-		-	•		H	\vdash		m	ч	brecciated
	~	,	© C	-		0	0		Ť	-		-		-	•		-		Fd			28.20-28.50 wh_mossive qt
30	~ ~	<i>'</i>	0			0	0		 			\vdash		-					60	_	Ť	29.00-29.10
	1 .		0			0	0				٠				۰				65	m		strong limonitization with clay, in contact
] ~	Ms-Bi-Qt-Sch				0	0					٠			0				-	m	d	slickenside
	~ ~		0		ļ	0	•		_			Ŀ			٥				75		d	32.90-34.00
	~		0	ļ		0	0	<u> </u>						_	•			_	60 65	-	d	cal str: w=l+2mm ∠5°
			00			,0 0	•	•					-		•			\vdash	65 70	m f	d	35.50-37.20
_	 		6			0	5	•	<u> </u>			-							Fd	$\overline{}$,	mostly bi include am
	~		0			0								H	•				75		d	39.25-40.85
	~ ~		0			0	•								٠				70			silicified
40	1	,	0			•									0				65	f	d	

Diguyla daş alşının vendikalın	MACHINE THE THE STATE OF THE ST	LITH								0 0-c			LE							MARKET.		(2)
	DIF	CATION : RECTION : NAL DEPTH :	<u>Pal</u>	0			0	rea		•	II	NCL	DIN INA	ATE TIO	.S . N :	<u>-9</u> 6	0°	<u>95</u>	-1	NBC	X19. 2	<u> </u>
					ICIP STI		NTS	3	POI BI	RPH AS	yR0 T	οτι	IER			RE				A-14-14	(ore)	
ОЕРТН (т	COLUMN	ROCK	quartz	plagiociase	K-feldspar	biotite	muscovite	amphibole	garnet	staurolite	plagiociase	calcife	chlorite	pyrrhotite	pyrite	chalcopyrite	galena	sphalerite	schistosity	grain size	mineral type	REMARKS
4 <u>0.85</u>	~ ~		•			•									0		-		80		d	40.85-42.20 am < bi sch
42.20 43.00		⊭-Am - Bi-Sch	0			8		0	_								-		Fd Fd	m	ď	43.00-43.25 am < bi sch
43.25	× × ×		0			0		0							•					m	q	am is spherical
	~ ~		٥			0									٠					Э	d	43.80-45.00 fracture, £5°
	~		٥		<u> </u>	0	•													m		filled with clayapy
	~ ~	Ms-Bi-Qt-Sch	0			0	•				•				•				70 60	m	d	47.10-47.30
	~		0			0	0							\vdash	_				60		H	3 qt masses irregular shape
50			0			0	0											_	65			ms surrounding qt
50.50	~ ~		0			0	0		•		·				•				70	m	d	51.15-51.30 silicified
	~ °		0		<u> </u>	•	•		٥		•				٥				60		d	50.50-51.50
	• ~		(O)			•	•		0		_			_					55			garnet, ø< 1mm
	~ 0		0		-	•	•		(a)	-	•									f		51.50-59.30 garnet, ø≦3mm
		(PI)-Gn-(Ms-Bi)	L		-	•	0		0		•									f		pink
	° ~	- Qt-Sch	0			•	•		0		•									f		56.70-56.75 chloritized
	~ °		0			·			0		•									f		58.80-59.15
	° ~		0			٠	٠		0		•									f		cal.v, w≤5mm, ∠20° with py
60	~ 。		0			•	٠		٠									_		f	,	61.05-61.90
61.05		Bi-Am ~ Qt-Sch	0			•	•				٠	•			•	-1			_	f m		bi <am ,upperpart<br="" sch="">bit qt</am>
61.90	~ ~	DI PAIT OF COL	0			0	0						_		•			_	_	m		61.90-6325
			0			0	٥								0				Fd		d	rich in qt mass
	~		0			0	0								٥			_	Fd		d	66.30-66.40 qt mass
_	~ ~		٥			0	0				•				•					m		irregular shape
	~					0	0	\Box	•						•					m	đ	75.60-75.90 rich in bi, with
	_		0			0	0 0				0		\exists						Fd Fd			qt mass
70	~	(PI) - (Bi-Ms)	0			0	0	\dashv			0								Fd			75.90-76.85 pr dissem, medium
	~	-Qt-Sch	0			0	•				•			•				_		ſ	d	76.85-77.40
	~ ~		0			0	0				٠			٠					85	_	d	qt mass
	~	(S)	0			0	٥							0	•				Fd		d	77.50-77.57
		@MBP6-1 ~ 2		_		•	0 (•			0					-	m	—	qt mass 78.00-78.13
_	~ ~		0			0	00							•	•		$ \cdot $			m		bi <am sch<="" td=""></am>
_	~		0			0	٥				\vdash			0	0					f	d	f,gr, with py
78.00	~ ~		0			0	٠		•					•	•				75		ď	78.75-78.84 include bi, am
78.13			0			0		0			•			•	•				70	~~~~	đ	•
80	~	!	0			0	0				•				٠				Fd	m	d	

- CONTRACTOR					-				-cocum	-	maian (Accessed to	4.796726P	- CONTRACTOR	nonement	ro-mone	N-COSCHI'	No.			PRANCISCO	
	io	LITH!														BP-		-		MOE	: AO	(3)
		CATION :	Pai	me I	rop	<u>oliş</u>	g	<u>re a</u>		•	U II	UOR NCL	NIOI ANI.	AIL TIO) N	-9	9 <u>2.</u> 0°°	93	t	N8;	549.	<u> 215</u>
		VAL DEPTH	40	<u>ī.32</u>	<u>m</u>						•	101										
			T .	RIN	ICIO	Α.	,,, ,,,		200	יו זים כ	VD0		****			RE	-					
1						TUE	NTS	;	POI BI	AS.	T T	OTH	IER			VER					(ore)	
Ē	2				<u> </u>								Γ					****				
Ξ	¥. ⊃	ROCK		şe.	<u>اء</u> ا			_		الما	se					j.			_	e)	type	REMARKS
DЕРТН	COLUMN			cla	dsp		vite	bole	ļ	lite	cia	e	e	tite		pyr	n	rite	osit	size		
	C		quartz	plagioclase	K-feldspar	biotite	muscovite	amphibole	garnet	staurolite	plagiociase	calcite	lori	pyrrhotite	pyrite	chalcopyrite	galena	sphalerite	schistosity	grain	mineral	
			8	ā	×	jq	Ē	B	ga	sŧ	ď	00	Сh	ру	ρý	5	99	sp	SC	ቅ	Ē	
	~ ~		O			0	0							<u> رون ده ده د</u>	•	-		****	Fd	m	d	
	~ ~		0			0	٥								٠				Fd	m	d	Í
	~	(PI)-(Bi-Ms)-	0			0					•				•				70	f	d	
,	~ ~	Qt-Sch	0			٥													70	f		
			0			0													Fd	f		
25.05	~		0			0									٠				75	f	d	86.25-92.35
86.25	V V]			•		◉				_	٠	•	٠	Ш			\perp	V C	ď	amphibolite with very few bi
_			┖					•					•	٠	•					m	d	,
	V .	Amphibolite	ļ					①					•	٠	٠					m	ď	86.25-86.50) 89.30-90.60)
90	v v	Mithtiboure				•		®					•	·	•					m	d	very co gr.
			<u> </u>					•				_			•				90		d	
92.35	V					^		•			•	_			•	_	_		90 70	c	d	87.60-87.85 gt mass in
	~ ~		0			0					0				-	_			80	m f	u	amphibolite
-	~ .		0			0					0								85	f		
	,0		6			0					٥			_					85	f		
	~ ~		6			0					0				۰				85	- <u>'</u> - f	ď	99.75 - 99.85 cblorite
	~		0	-		0					0		_	Н	•				85	- <u>'</u> -	q	netwarky str.
-			0			0	_				•		9			-			85	f		
100	~ ~		0			0													85	f		101.00-116.00
100	~	-®	0			0													80	f		scattered miaceous mineral, wh metalic
	•		0			٥							-						75	f		luster crossing schistosity
	~ ~		0			0									٠				Fd	f	d	·
	· ~	(PI)-Bi-Qt	0			0	۰								•				Fd	f	d	107.75 -107.90 chl, str. secondary
	یخ یہ	-Sch	0			0													Fd	f		L20°
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120	。 ~		0			0			٥						•				70	f	d	silicified, chi?

LITHOLOGIC LOG HOLE NO. MBP-6 (4) COORDINATES : E792.93 , N8549.215 INCLINATION : -90 ° LOCATION <u>Palmeiropolis</u> area DIRECTION FINAL DEPTH: 401.32 m PORPHYROOTHER ORE PRINCIPAL ore) **BLAST** MINERAL CONSTITUENTS E COLUMN chalcopyrite DEPTH REMARKS ROCK size schistosit y sphalerite amphibole pyrrhotite chlorite plagioch plagiocl 5 garnet stauroli pyrite calcit E E 9 0 121.10 -121.45 0 Fd f silicified, chloritized 0 0 Fd f Gn-Bi-Qt-Sch 123.20-123.50 o 0 Fd f rich in bi 0 0 Fd f 123.70 123.70-125.05 Qt (4) wh. qt : meta chert? 125.05 0 0 0 0 Fd m 126.25-125.40 O O 0 Fd 1p . W d o Ö O 75 ď 127.00 0 m. very few amphibole $\overline{\circ}$ O 80 m 0 d leuticular 75 f 0 o 130 120.00-132.00 0 0 0 • 80 f garnet, ∮≤05mm |3|.20|-|3|.70 |32|30|-|32.60 |33|.15|-|33.45 O O Fd o . f d O 0 o Fd d m 0 rich in bi with cal, chl 0 Fd f ď 134.35-136.00 silicified, strong 0 o 0 Fd f 0 Fd f chloritized d o 136.30 - 136.40 O O 80 f cal str. wslmm 430° Gn - (Ms-Bi)-٥ 0 O 85 f d 136.60 - 136.75 Qt-Sch 0 0 0 ٠ Ø 70 f cal. druse 136.75 - 139.00 0 O Fd f 140 chloritized at intervals ٥ ~ 0 0 0 Fdlm 138.75-138.90 0 O 0 0 Fd m đ l strong chloritized 0 O 0 0 . Fd m 139.10 - 139.50 rich in bi, cal, ch! 0 Ö 0 • Fd ŧ ď O O ٥ O Fd d m 14 1.65 - 141.85 0 O O 0 Fd m rich in bi, chl 0 O 0 0 Fd m þ 143.00-144.77 chl at intervals O 0 Fd m 0 144.12-144.27 0 0 0 Fd f silicified, chloritized 0 0 o Fd f d 150 ٥ ٠ 145.00-158.50 0 0 Fd O d m o qt: , bedded like 0 O 0 w< Icm at intervals
mostly folding within
core, crossing schistosity
lower contact:at qt Fά d m ٥ 0 O 0 Fd d m 0 0 Fd f upper: gradually 0 0 ٠ Fd m **(** 147.75 - 147.95 Q o 0 0 0 Fd f d rich in bi 0 O O • Fđ d m ٥ 158.50-158.63 0 0 0 . f Fd d light brownish wh. qt. ٥ ~ old faultplane? 0 • o Fd 0 m đ 0 O 0 85 160

LITHOLOGIC LOG HOLE NO. MBP-6 (5) COORDINATES : $\underline{6792.93}$, $\underline{N8549.215}$ INCLINATION : $\underline{-90}$ LOCATION <u>Palmeiropolis</u> area DIRECTION FINAL DEPTH: 401.32 m PORPHYRO OTHER **PRINCIPAL** ORE (ore) MINERAL BLAST CONSTITUENTS E COLUMN DEPTH chalcopyrite ROCK plagiaclase plagioclase REMARKS feldspar size sphalerite staurolite mineral garnet calcite pyrrhoti pyrite grain O 0 85 f d 0 85 f 0 0 đ 0 f 168.15-168.45 0 85 168.60-168.75 169.10-169.20 ٥ o 85 0 0 f o rich in at mass bedded like O 0 85 f 0 0 0 O 85 m 168.30 -168.45 0 Ó 0 Fd m d bi > amph, 0 80 d 0 0 m 168.30 168.45 0 80 d 0 o m 0 169.70 -169.80 pole brown qt 0 50 d 0 m ٥ 170 170,00-170,30 170.60 170.85 0 O f. 0 Fd brecciated 0 0 Fd f d slickenside on breccio Ó ٥ Fd f 170.60-170.85 0 am < bi sch 0 ٠ 80 f 0 173.92 irregular contact 174.00 174.55 Fd f 0 0 d 173.92 - 174.00 V ~ ∨ -Am - Bi • O Fd m 175,85 am < bi schist -Sch 0 Ö Fd f ٥ d 174.55 - 175.85 ditto 0 0 0 d Fd m 175.85 -176.10 Fd f d 0 . 0 rich in bi,qt 0 0 Fd f ٥ 176.25 - 176.35 at mass 180 180.25 180.50 ō 0 0 Fd f ď 180.25 -180.50 0 O o Fd d m bi,qt (lower half) o 0 0 55 include amph m |Gn-(Ms-Bi)-Fd ٥ 0 O 0 m 180.80-181.36 qt mass, ms in it Qt-Sch 0 Fd 0 0 f o 182.05 - 182.42 0 80 f 0 qt mass 0 Fd o 0 f d o ~ 186.45 - 186.60 0 O 85 f qt , L 15° o 0 f 0 Fd ms around at 0 70 f 186.75 - 186.85 190 0 qt mass, L65° 0 0 Fd f d 186.55 -186.70 0 ٠ 0 85 f chloritized with py 0 0 0 0 90 f 194.55 - 194.75 0 0 o . o f 0 strong chloritized ٥ O 80 f 0 ٠ 75 O f 0 • 0 0 Q Fd f đ 0 o Ø Fd o m o 0 • 85 f 0 d 0 • Fd 200

LITHOLOGIC LOG HOLE NO. MBP-6 (6) COORDINATES : E792.93 , N8549.215 INCLINATION : -90° LOCATION Palmeiropolis area DIRECTION FINAL DEPTH: 401.32 m PORPHYRO OTHER PRINCIPAL ORE (ore) CONSTITUENTS **BLAST** MINERAL E COLUMN chalcopyrite DEPTH ROCK REMARKS K-feldspar schistosít y amphibole staurolite sphalerite plagiocl mineral calcite plagioc pyrrhot pyrite 틉 ₽ 0 0 85 S 0 o Fd 0 0 ٥ 0 m d 0 Fd o ٥ đ . m 0 207.45-207.60 0 0 ۴d m qt , translucent 0 0 f 0 Fd Gn-(Ms-Bi) Fđ f O 0 207.70 - 207.95 o ~ -Qt-Sch at , translucent irregular shape. 0 0 0 0 Fd f 0 O Fd fd O ٠ 0 Fd: f ď Fd O 0 ٥ 0 . d 210 210.80-210.85 o Fd O 0 . ٠ f chloritized 211,00 O f d o Fd 211.55 -21160 0 f 0 0 • Fd đ chloritize d O 0 Fd f d 0 45°, w=3cm Ms-Bi-Qt-Sch O Fd f d o folding occurrs 0 0 Fd f 0 ď inside the core 0 0 f d o ₽ď (O)MBP6-3-5 0 0 Fd f d 0 Fd O f d ٥ 0 0 **(S)** 0 Fd d 0 o • 220 220.00-221.25 \ 223.00-223.30 \ ◐ O 0 • 0 Fd f d Q 221.00 0 silicified 0 0 0 0 f đ Fd chloritized 0 O ٥ 0 0 Fd f d 221.80 -222.00 0 Fd f fracture, LIO°-20° 0 0 ď o filled with cal, chl. 85 f d 0 • o • 0 0 o Fd f d. 85 f 0 ٥ • 223.30-223.45 qt mass 0 Fd f ۰ 0 • d translucent with pale yell gra minerals (garnet?) 0 o 85 f d ٠ . 0 0 . 55 f d 0 230 225.15 - 225.50 70 0 0 ٠ 0 f d 0 PI-Gn-Mspale yell arn 0 0 0 0 60 f d Bi-Qt-Sch minerals 0 0 0 ٠ f đ 228.15 - 229.40 fracture, 45° 0 0 ٥ f Fd đ filled with yell grn o 0 0 ٠ Fd f d mineral . (garnet?) a py 0 o Fd • f d o ٥ 0 0 0 . Fd f ď 238.00-241.70 0 0 0 Fd chloritized at intervals O 0 85 o 0 f d o 0 0 55 240

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LITHOLOGIC LOG HOLE NO. MBP-6 (9) COORDINATES : $\underline{\text{E792.93}}$, $\underline{\text{N8549.215}}$ INCLINATION : $\underline{-90}^{\circ}$ LOCATION <u>Palmeiropolis</u> area DIRECTION FINAL DEPTH : 401.32 m PORPHYRO OTHER **PRINCIPAL** ORE ore MINERAL BLAST CONSTITUENTS Ē COLUMN DEPTH plagioclase plagiociase REMARKS ROCK K-feldspar schistosity ibole staurolite sphalerite chalcopyri chlorite mineral calcite pyrrhoti garnet pyrite 322.50 - 322.75 0 f 0 Fd bi<am , qt ,sch 0 O Fd f d 324.25 - 324.30 0 Fd f d O 0 bi<am sch 0 Fd 0 f 325.50-325.65 Fd f 324.25 324.30 0 O ٠ . ď o bikam sch 0 0 0 Fd 325.50 325.65 0 ٠ f 327.63 - 328.50 am. < bi,qt, sch with garnet, folded Fd 0 Q ď m Fd f d O 0 327.63 0 o pale yell grn mineral $\vee \sim \overline{\vee}$ ←Am – Bi Fd with of 0 0 328.50 0 m -Sch 328.75-328.80 Fd f O đ 0 330 am < bi sch Fd . f 0 đ 0 327.05 - 327.10 Fd O f d 0 o weak chloritized 70 0 f d 0 0 331.00-331.05 70 f om < bi sch 0 0 0 d with garnet 0 65 O ď 0 0 m 334.80 331.70 ~ 332.30 335.10 ? 60 f d 0 0 0 0 chl, K-feld, py o 70 O ? o o f 332.70-333.30 0 chloritized at intervals ? 0 70 f O o o 332.75-332.85 70 f O ٥ ď (Gn)-PI-Bí qt v.w=2cm, L30° o 70 ? f ¢ ď 340 - Qt-Sch O 334.70-334.80 70 f d O ? O O weak chi o \sim 334.80 - 335.10 ? 70 f 0 0 O am < bi sch 0 ? 70 f o d O 335.70-335.90 wh, qt translucent 75 f đ 0 o o chl in fissures 70 f d 0 0 0 337.90-337.95 f d qt ,am , chl,bi 0 O 0 335.60 - 342.10 0 ٥ 0 70 f o 0 chloritized at intervals 70 f O O ď 0 ٥ 343.40 - 343.60 o 60 f d 0 0 o at with chl, py 0 ∠80~70° 65 f 0 0 0 ď ٥ 350 \sim 344.10 - 346.10 . 65 o f 0 0 0 silicified, chloritized 0 0 0 0 346.10 - 347.85 85 f 0 0 0 0 o ditto, at intervals O 85 0 0 f 0 347.85 - 349.40 o 0 O f silicified, chloritzed đ 0 O 0 0 0 O 85 f d 352.40~353.50 chloritized at intervals 0 0 0 0 o 0 353.50~ 0 0 f 70 weak chloritized 0 85 f o 0 0 O ٠ ď silicified O 90 0 0 0

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