"Cherty Dolomite": 454.50 to 476.90m. The main component of this units is white massive dolomite with pelitic dolomite, mica bands, pelitic bands and anhydrite. There are many quartz veins and also weak pyrite-chalcopyrite dissemination is observed.

"Arenite, Argillite and Dolomite with Anhydrite": 386.60 to 454.50m. The upper part is composed mainly of green micaceous to dolomitic argillite with intercalation of thin dolomite layers. The lower part consists of greenish grey argillite with sandstone lenses and grit. Anhydritized patches, veinlets and lenses occur throughout the unit. In the lower part of this unit, weak pyrite-chalcopyrite dissemination is observed at 439.3-442,6m and 443.8-445.0m.

"Interbedded Argillite and Dolomite with Tectono-Breccias": 59.00 to 386.60m. The upper part is composed mainly of greyish white dolomite with considerable amount of conglomerate and small amount of thin argillite layers. The conglomerate is composed of dolomitic argillite and dolomite pebbles and biotitic pelitic matrix. The lower part is composed of green argillite and dolomite alternation with local intercalation of clayey argillite and sandy rocks. The upper part is locally strongly silicified and weakly pyritized. Limonitization by weathering is observed throughout the unit and gossan occurs in some localities.

#### 5-3 Discussions

This borehole is located on the near crest of the rise of the basement (Figs. 1-7, 2-5-2).

As the "Ore Shale horizon" is dolomitic and the "Footwall Formation" is very thin, it is inferred that the basement of this part was palaeo-basement high at the time of ore deposition. Although the deposit is believed to belong to the bornite zone of the zonal distribution of sulfides (Fig. 1-9), the deposit is underdeveloped and it is concluded to have formed very close to the shore.

It is seen from the geologic profile (Fig. 1-7) that the formations higher than the "Ore Shale horizon" is folded harmoniously with the basement. Thus the present topography of the

- 101 -

basement is strongly affected by folding after the deposition of the "Upper Roan Group".

102 -

Results of Microscopic Observation of Thin Sections Table 2-6-1

				Phenocryst/
Sample	Locality	Forma-	Rock Name	Crystal Fragment Texture
No.	· • • • • •	tion		Qz Kf P1 Ca Do Ng Bi Mc Hb To Ti Ab Ep Ch Zr Op Tc
T-101	-	BSG	Granite	<b>0</b> $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ gramlar
T-102	T-102 MJZC-1. 645.20	ß	Amphibolite	$\bigcirc$
T-103	T-103 NJZC-1, 648 70	BSG	Granite	
T-501	MJZC-5, 716, 00		Magnesite-talc-rock	$  \mathbf{O}   \mathbf{O} $
T-509	1.1		te	
T-601	1	1111	Dolomite	O O O O O O O O O O O O O O O O O O O
T-602	T-602 MJZC-6, 828,80	UIL	Netasandstone	$\mathbf{O}$
T-603	T-603 MJZC-6, 1010.70	BSC	Granite	$\mathbf{O}$ $\Delta$ $\mathbf{O}$
T-701	T-701 NJZC-7, 909.50	THI	Metasandstone	$\mathbf{O}$ $\mathbf{O}$ $\mathbf{O}$ $\mathbf{\Delta}$ $\mathbf{\Delta}$ $\mathbf{O}$ $\mathbf{O}$ $\mathbf{A}$ $\mathbf{O}$ $\mathbf{O}$ $\mathbf{A}$ $\mathbf{O}$ $\mathbf{O}$ $\mathbf{A}$ $\mathbf{O}$ $\mathbf{O}$ $\mathbf{A}$
T-702	MJZC-7, 964,00	LFC	Argillite*	0 44 6 6 1 1 1 44

Abbreviations

Abundance of minerals: O ; abundant,  $\bigcirc$ ; common,  $\bigtriangleup$ ; a few,  $\cdot$  ; trace

Mc;Muscovite, Hb;Hornblende, To;Tourmaline, Ti;Titanite, Ap;Apatite, Ep;Epidote, Ch;Chlorite, Zr;Zircon, Wineral : Qz;Quartz, Kf;Alkali feldspar, Pl;Plagioclase, Ca;Carbonate, Do;Dolomite, Mg;Magnesite, Bi;Biotite, Op;Opaque minerals, Tc:Talc

\*: Biotite matrix of conglomerate

Table 2-6-2 Results of Microscopic Observation of Polished Thin Sections (1)

																		· .			1.	
	T.	5	<u>т</u>	T				T	Т	1	÷ T	T			1	· 1		.		1	ol	0
	ł	CD Py Po Bo Co Gn Bs Ni Sp No Hs Qz Kf P1 Ca D1 Bi Nc To Ti Ap Ch Zr Tc Gt A1 Ru An				†				-1	-+	-			-	-+		· · ·			-1	<u> </u>
	H	-	-	ব		-+		-	-+	+			- +	~ †		+					÷	٩
	┢	新		귀	-+	+	-	-						-								~
	ŀ	읽	-							-	-+											
	_  -	Ĕ			·	_		_	÷					_						_	-	0
	L	칭			•					<u>.</u>		-			∴l	<u> </u>	<u>.</u>	_		_		
2	Ĺ	5	4	·		4	4	4	$\triangleleft$	ব	ব		4	•			_	⊲	4	0		
Gangue Mineral		8	•	·	•		·	1	•			·	·	•	·		4	•	<u> </u>		4	
1		Z.	•			۰I	•	•	•	•		- 1	•	•		·		•	$\triangleleft$			
E.	Г	2	•		4		•	•		•		Ī		:			÷					
an	Γ	2	· Ö		⊲ 0			•			.	0	0	<u>0</u>	0	0	<b>⊲</b> 0	0	0	О	0	
9	T	5	•	0		0	0	0	0	0	0	Ō	0	0	0	0	0	0	0	0	0	0
	ŀ			-	-1	0	-			-	· .		-		-	-	-	· .		0		
	ŀ	8	0	1	히	-	0	0	0	0	ot	o ⊲	0	o	ol	ol	٩	0	÷	-		0
	ŀ	딁	0	0	ਨੀ		5	ñ	ਨੋ	<del>ă</del> l	0	2	0	ŏ	ਨੋ	<del>ă</del>	A	4	0			
	. F	끏	$\sim$	허	허		000	0 0 0	0 0 0	0 0 0 0		-	~	허	허	ŏ		-	~		•	
	ŀ	N	0	000	0000	0	히	0	0	히	0	ō	0	0000	0000	0000	Õ	0	Ô	ব		0
	-+	3	4	×	-	끡	2	9	9	쒸	억	~	-	-	-	-	-		-	~		<u>0</u>
	ŀ											-									· · ·	
	ŀ	ä				ব	•	•		_	.				╾┯┨	<u>.</u>		لينب		•		
	. F	5	÷.,			긱									·				· ·		<u> </u>	
5		s	_									-	<u>.</u>	<u>.</u>				<del>-</del>		ļ		
E.	ł	<u> </u>	_									-	-		-			_			2	<u> </u>
Ore Kineral	ł	0		ব	ব							-		-			·			i	┝┶╶┥	
e S	ŀ	0		거	~				-		0	ব	4	÷	ব	4	0	⊲	· ·			0
ð	ŀ	8	-				~	Ň	~	3	2	7	<u>N</u>		7	7	9	2			$\vdash$	$\vdash$
	ł	<u>F</u>	긝		4	9			2	2	<u>·</u>	;				•			-	·		┝
	. }	4	000	<b>⊘</b> 0	000	000	o 🛆 o	0 0 0	000	2 0 D	0		0	Δ	ব	0	•	0	0 0	0	0	0
		0	4	~	Υ	~	2	-	4	7	Ч	_	4	. 1	7		•	2	17	Р	Р	4
																			]			l
		Ċ.					•	ΥL	~									, i				ŀ
			50				50	÷	Arg	80												
					1 I		~	0												I 1	00	1
			-Ar		, grk		VA	a do	-10	τ¥-											Arg	
	ä		dol-Ar		ol-Arg		-sov-Az	ob ni c	-lob r	tol-Ar	· X			а.	SS		~			,	ous Arg	
	iptic		n dol-Ar		dol-Arg	and	IN-YDS-IO	ion in do	in dol-	n dol-Ar	Arg.	Ss	Ss	Ss '	ol-Ss	Ss	Arg	S	1		ICEOUS Arg	ens
	scriptic		. in dol-Ar	g1	in dol-Arg	o band	n dol-sày-Az	mation in do	ens in dol-	. in dol-Ar	ol-Arg	ol-Ss	olSs	ol-Ss	n dol-Ss	ol -Ss	dy-Arg	n Ss	n sl	0	icaceous Arg	o-lens
	Description		iss. in dol-Ar	ı Cgi	ens in dol-Arg	Do band	in dol-sày-Az	meination in do	o lens in dol-	iss. in dol-Ar	9 dol-Arg	1 dol-Ss	n dol~Ss	a dol-Ss	in dol-Ss	o dol-Ss	sdy-Arg	in Ss	in sl	a Do.	h micaceous Arg	n Do-lens
	Descriptic		diss. in dol-Ar	in Cgl	b lens in dol-Årg	ss. Do band	ss. in dol-sày-Az	lamination in do	-Do lens in dol-	diss. in dol-Ar	in dol-Arg	in dol-Ss	in dol~Ss	in dol-Ss	ss. in dol-Ss	in dol-Ss	in sdy-Arg	ss. in Ss	ss in sl	in Do.	in micaceous Arg	in Do-lens
	Descriptio		-Py diss. in dol-Ar	ss. in Cgl	-Do lens in dol-Arg	diss. Do band	diss. in dol-sdy-Az	-Do lawination in do	-Po-Do lens in dol-	>Cp diss. in dol-Ar	ss in dol-Arg	ss. in dol-Ss	ss, in dol-Ss	ss in dol-Ss	diss. in dol-Ss	ss. in dol-Ss	ss in sdy-Arg	diss. in Ss	diss in sl	ss. in Do	ss in micaceous Arg	ss in Do-lens
	Descriptic		-Po-Py diss. in dol-Ar	diss. in Cgl	Po-Do lens in dol-Arg	-Po diss. Do band	Po diss, in dol-sáy-Az	-Po-Do lamination in do	-Py-Po-Do lens in dol-	-Py>Cp diss. in dol-Ar	diss in dol-Arg	diss. in dol-Ss	diss in dol-Ss	diss in dol-Ss	-Cp diss. in dol-Ss	diss. in dol-Ss	diss in sdy-Arg	-Bo diss. in Ss	Op diss in sl	diss in Do	diss in micaceous Arg	diss in Do-lens
	Descriptic		Cp-Po-Py diss. in dol-Ar	Cp diss. in Cg1	Cp>Po-Do lens in dol-Arg	Cp-Po diss. Do band	Cp>Po diss, in dol-sdy-Az	Cp-Po-Do lamination in do	Cp-Py-Po-Do lens in dol-	Po-Py>Cp diss. in dol-Arg	Cp diss in dol-Arg	Bo diss. in dol-Ss	Cp diss, in dol-Ss	Cp diss in dol-Ss	Bo-Cp diss. in dol-Ss	Cp diss. in dol-Ss	Bo diss in sdy-Arg	Cp-Bo diss. in Ss	Py>Cp diss in sl	Cp diss in Do	Cp diss in micaceous Arg	Cp diss in Do-lens
			Cp-Po-Py diss. in dol-Arg	Cp diss. in Cg1		Cp-Po diss. Do band	Cp>Po diss, in dol-sdy-Arg	Cp-Po-Do lawination in dol-Arg	Cp-Py-Po-Do lens in dol-Arg		Cp diss in dol-Arg	Bo diss. in dol-Ss	Cp diss. in dol-Ss	Cp diss in dol-Ss	Bo-Cp diss. in dol-Ss	Cp diss. in dol-Ss	Bo diss in sdy-Arg		<u> </u>	Cp diss in Do	Cp diss.	Cp diss in Do-lens
-		6									lin <del>,</del>				<u> </u>				<u> </u>	<del> </del>	Cp diss.	t
	Forma- Descriptio	tion	LOS Cp-Po-Py diss. in dol-Ar	LFC Cp diss. in Cg1	LOS Cp>Po-Do lens in dol-Årg	LOS Cp-Po diss. Do band	LOS Cp>Po diss, in dol-sdy-Az	LOS Cp-Po-Do lamination in do	LOS CP-Py-Po-Do lens in dol-	LOS Po-Py>Cp diss. in dol-Ar	UCD Cp diss. in dol-Arg	LOS Bodiss. in dol-Ss	LOS Cp diss. in dol-Ss	LOS Cp diss in dol-Ss	IOS Bo-Cp diss. in dol-Ss	LOS Cp diss. in dol-Ss	LOS Bodiss in sdy-Arg	LFQ Cp-Bo diss. in Ss	<u> </u>	LOS Cp diss in Do	LOS Cp diss in micaceous Arg	LOS Cp diss in Do-lens
-		tion	LOS	LFC	FLOS	503	LOS	SOL	LOS LOS	Sai	ĝ	SOL	501	ros T	SOL	SOI	S01	LF0	201 201	31	LOS Cp diss.	SOL
		tion	LOS	LFC	FLOS	503	LOS	SOL	LOS LOS	Sai	ĝ	SOL	501	ros T	SOL	SOI	S01	LF0	201 201	31	LOS Cp diss.	SOL
			LOS	LFC	FLOS	503	LOS	SOL	LOS LOS	Sai	ĝ	SOL	501	ros T	SOL	SOI	S01	LF0	201 201	31	LOS Cp diss.	SOL
	Forma-		LOS	LFC	FLOS	503	LOS	SOL	LOS LOS	987.40 LOS	ĝ	SOL	984.20 LOS	ros T	SOL	SOI	S01	LF0	201 201	31	LOS Cp diss.	SOL
	Forma-		LOS	LFC	FLOS	503	LOS	SOL	LOS LOS	987.40 LOS	ĝ	SOL	984.20 LOS	ros T	SOL	SOI	S01	LF0	201 201	31	LOS Cp diss.	SOL
	Forma-		LOS	LFC	FLOS	503	LOS	SOL	LOS LOS	987.40 LOS	ĝ	SOL	984.20 LOS	ros T	SOL	SOI	S01	LF0	201 201	31	LOS Cp diss.	SOL
		Depth (m) tion								Sai	lin <del>,</del>		501		<u> </u>				201 201	31	LOS Cp diss.	t
-	Locality Forma-		XJ2C~1, 517.80 L0S	NJZC-1, 522.70 LFC	NIZC-5, 973.30 LOS	NJZC-5, 977.40 LOS	NJZC-5, 979.40 LOS	NJ2C-5, 982.10 L0S	MIZC-5, 985, 60 LOS	NJZC-5, 987.40 LOS	NJZC-6, 875.20 UCD	MJZC-6, 981.10 LOS	XJZC-6, 984.20 L0S	WIZC-6, 985.70 LOS	MJZC-6, 988.10 LOS	MJZC-6, 993.10 LOS	MJZC-6, 995.00 LOS	MJZC-6, 1006.20 LFQ	NJZC-7, 931.70 L0S	MJZC-7, 950.60 LOS	MJZC-7, 958.50 LOS Cp diss.	NJZC~7, 962.90 10S
	Locality Forma-	Depth (m)	XJ2C~1, 517.80 L0S	NJZC-1, 522.70 LFC	NIZC-5, 973.30 LOS	NJZC-5, 977.40 LOS	NJZC-5, 979.40 LOS	NJ2C-5, 982.10 L0S	MIZC-5, 985, 60 LOS	NJZC-5, 987.40 LOS	NJZC-6, 875.20 UCD	MJZC-6, 981.10 LOS	XJZC-6, 984.20 L0S	WIZC-6, 985.70 LOS	MJZC-6, 988.10 LOS	MJZC-6, 993.10 LOS	MJZC-6, 995.00 LOS	MJZC-6, 1006.20 LFQ	NJZC-7, 931.70 L0S	MJZC-7, 950.60 LOS	MJZC-7, 958.50 LOS Cp diss.	NJZC~7, 962.90 10S
-	Forma-		LOS	LFC	FLOS	503	LOS	SOL	LOS LOS	987.40 LOS	ĝ	SOL	984.20 LOS	ros T	SOL	SOI	S01	LF0	NJZC-7, 931.70 L0S	31	MJZC-7, 958.50 LOS Cp diss.	SOL

104

Abbreviations

Abundance of minerals: () ;abundant, O;common,  $\Delta$ ;a few, •;trace

Rock : Do;Dolomite, Arg:Argillite, Cgl:Conglomerate, Ss:Sandstone, Sl;Shale, diss:dissemination, Cp:Chalcopyrite,

dol;dolomitic, sdy:sandy Mineral: Py.Pyrite, Po.Pyrrhotite, Bo:Bornite, Co:Cobalt pentlandite, Gn:Galena, Bs:Mative Bismuth, Mi:Mittichenite,

Sp;Sphalerite, Ko;Nolybdenite, Hs;Hessite, Qz;Quartz, Kf:Alkali feldspar, P1;Plagioclase, Ca;Carbonate, Bi;Biotite, Kc;Nuscovite, To;Tourmaline, Ti;Titanite, Ap;Apatite, Ch;Chlorite, Zr;Zircon, Tc;Talc,

Al;Allanite, Ru:Rutile, Am;Amphibole

			· · · · · · · · · · · · · · · · · · ·		
Hole No.	MJZC-1	MJZC-5	MJZC-5	MJZC-6	MJZC-6
Sample No.	P102	P501	P504	P603	P608
wt.%			÷		
S	33.29	32.45	33. 43	32.99	33.14
Fe	0.51	6.79	9.24	0.33	3. 69
Cu	1.75	0. 13	0.19	0. 44	10.42
Со	63. 28	52.46	51.22	65.94	50.23
Zn	0.14	0.11	nd	nd	0.56
As	nd	nd	nd	nd	0. 31
Ni	1.24	7.17	6.49	0.45	0. 92
Total	100.21	99.11	100. 57	100.15	99.27
Atom. %					
S	47.80	47.08	47.59	47.45	48.20
Fe	0.42	5.66	7. 55	0.27	3. 08
Cu	1.27	0.10	0.14	0. 32	7. 65
Со	49.44	41.41	39.67	51.60	39.75
Zn	0.10	0.08	0.00	0.00	0.40
As	0.00	0.00	0.00	0.00	· · · · · · · · · · · · · · · · · · ·
Ni	0.97	5.68	5.05	0.35	0.73
Mineral	*Co-Pen	*Co-Pen	*Co-Pen	*Co-Pen	*Co-Pen
	÷		by El	DS of Link	Systems

### Table 2-6-2 Results of Microscopic Observation of Polished Thin Sections (2)

\* Co-Pen: Cobalt Pentlandite

### Table 2-6-3 Results of Chemical Analysis of Ore Samples (1)

### MJZC-1

Smaple No.	Depth (m)	T-Cu (%)	AS-Cu (%)	I-Co (%)	Width (w)	Depth (m)	T-Cu (%)	AS-Cu (%)	T-Co (%)
LC14323	499 53 ~ 500.0	L D ARLINGTON & UN	0.01		2.85	522 18 ~ 525.03	0.62		<0.01
LC14324	500.03 ~ 500.5	3 <0.01	<0.01	<0.01					
LC14325	500 53 ~ 501 0			<0.01					
LC14326	<u>501.03 ~ 501.5</u>			<0.01					1.00
LC14327	501.53 ~ 502.0			<0.01	1.1		÷.,		
LC14328	502.03 ~ 502.5			.<0.01	19 A. 19		1		
LC14329	<u>502.53 ~ 502.9</u>			<0.01	1				
LC14330	<u>502.90 ~ 503.4</u>			<0.01		1. A.			
LC14331	503.40 ~ 503.9						•		
LC14332	$503.90 \sim 504.4$ $504.40 \sim 504.9$								
LC14333	504.40 ~ 504.9 504.90 ~ 505.5			1	at a s	and the state of the	* +	1.1	•
LC14335	505.53 ~ 506.0			0.02				1	
L014336	506.03 ~ 506.5			0.02	1 · •				
L014337	506.53 ~ 507.0			0.02	1				· ·
LC14338	507.03 ~ 507.5								
LC14339	507.53 ~ 508.0			0.02					1.5
LC14340	508.03 ~ 508.2								· .
LC14341	508.20 ~ 508			0.05	1				
LC14342	508.70 ~ 509.2		1		1	and the second	· . ·		
LC14343	509.20 ~ 509.7				1 12	and the second			•
LC14344	509.70 ~ 510.2				1				
LC14345	510.20 ~ 510.	0 <0.01	<0.01	0.03	<b>1</b> · · · ·				
LC14346	510.70 ~ 511.2		2 <0.01	0.04	a				
LC14347	511.20 ~ 511.5		<0.01	0.04			·. · · ·		
LC14348	511.53 ~ 512.0								1.1
LC14349	<u>512.03</u> ~ 512.0				1	the second s			
LC14350	512.53 ~ 513.0				ł.	e et et en et e			1.1
LC14351	513.03 ~ 513.				1				
LC14352	513.53 ~ 514.0				. I ·				1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
LC14353	514.03 ~ 514.						· .		100
LC14354 LC14355	<u>514.53 ~ 515.1</u> 515.03 ~ 515.1								1
LC14356	515.26 ~ 515.				4 ·				
LC14357	515.76 ~ 516.								
LC14358	516.26 ~ 516.							4	· .
LC14359	516.76 ~ 516.				-1				
LC14360	516.99 ~ 517.						•	1.1.1	
LC14361	517.53 ~ 518.	0.19	0.01	0.02					- 1 F
LC14362	518.03 ~ 518	i3 0. 12	2 <0.01	0.05					
LC14363	518.53 ~ 519.								
LC14364	<u>519.03 ~ 519.</u>							1.1	1. 1. E.
LC14365	519.53 ~ 520.					and the second second			
LC14366	<u>520.03</u> ~ 520.							$(1,p) \in \mathcal{F}$	
LC14367	<u>520.53 ~ 520.</u>							- 1	÷ 5.
LC14368	520.93 ~ 521								
LC14369 LC14370	521.18 ~ 521. 521.68 ~ 522.				-	and the second second		1.1.1.1.1.1	
L014370	522.18 ~ 522.						· .	1.1	
L014372	522.68 ~ 523.					1			. 1
LC14373	523, 18 ~ 523.		_			·.		$r \in \{1, \dots, n\}$	1 1
LC14374	523.53 ~ 524.					1			
LC14375	524.03 ~ 524								· · · ·
LC14376	524:23 ~ 524.								
LC14377	524.53 ~ 525.								
LC14378	525.03 ~ 525.							-	
LC14379	525.53 ~ 526.		5 <0.0	1 <0.01		1. State 1.			
LC14380	526.03 ~ 526.					et a second			
LC14381	$526.53 \sim 527.$								100
	527.03 ~ 527.								
LC14382	527.53 ∼ 528.	03 0.2	3 <0.0						
LC14383									
LC14383 LC14384	528.03 ~ 528.	53 0.0						1	
LC14383 LC14384 LC14385	528.03 ~ 528. 528.53 ~ 529.	53 0.0 03 0.0	9 <0.0	1 <0.01					
LC14383 LC14384 LC14385 LC14385 LC14386	528.03         ~         528.           528.53         ~         529.           529.03         ~         529.	53 0.0 03 0.0 53 0.0	9 <0.0 8 <0.0	1 <0.01 1 <0.01					
LC14383 LC14384 LC14385 LC14386 LC14387	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	53 0.0 03 0.0 53 0.0 03 0.0	9 <0.0 8 <0.0 9 <0.0	1 <0.01 1 <0.01 1 <0.0		at e e a e e a e a a e			
LC14383 LC14384 LC14385 LC14385 LC14386	528.03         ~         528.           528.53         ~         529.           529.03         ~         529.	53 0.0 03 0.0 53 0.0 03 0.0 53 0.0	9 <0.0 8 <0.0 9 <0.0 7 <0.0	1 <0.01 1 <0.01					

## Table 2-6-3 Results of Chemical Analysis of Ore Samples (2)

#### MJZC-5

Smaple	Dept	h		AS-Cu		Smaple	De (II	pth	T-Cu (%)	AS-Cu (%)	T-Co (%)
No.	<u>(m)</u> 962.91 ~	963.41	0.02	0.02	(%)	No.	1001.97 ~				0.03
LC14390 LC14391	963.41 ~	963.91	<0.01	<0.01	<0.01	LC18071	1002 47 ~	1003.4	2.68		
LC14392	963.91 ~	964.41	<0.01	<0.01		LC18072	1003.46~				<u>0.02</u> 0.03
LC14393	964.41 ~	964.91	<0.01	<0.01	<u>&lt;0.01</u>	LC18073	1003.96 ~ 1004.23 ~				
LC14394	964.91 ~	965.41 965.91	<0.01 <0.01	<0.01 <0.01	<u>&lt;0.01</u> <0.01		1004.73 ~				
LC14395 LC14396	965.41 ~ 965.91 ~	966 41	<0.01			LC18076			3 0.08		
LC14397	966.41 ~	966.91	<0.01	<0.01	<0.01	LC18077					
LC14398	966.91 ~	967.21	<0.01			LC18078 LC18079	1005.68 ~				
LC14399	967.21 ~	967.77 968.15	<0.01 <0.01			LC18080					
LC14400	968.15 ~	968.65				LC18081	1007.33 ~	1007.8			
LC18002	968.65 ~	969.15	<0.01			LC18082					
LC18003	969.15 ~	969.65				LC18083	1008.43 ~ 1008.98 ~	1008.9			
LC18004 LC18005	969.65 ~ 970.15 ~	970.15							<u> </u>	_	
LC18005	970.65 ~	971.15			<0.01						
LC18007	971.15 ~	971.65				Hidth		epth m)	T-Cu (%)	AS-Cu (%)	(%)
LC18008	971.65 ~	972.15				(m) 3.10		982.6		3 0.02	
LC18009 LC18010	972.15 ~ 972.65 ~	972.65				7.88		987.4	3 1.1	8 0.0	1 0.03
LC18010	973.15 ~	974.1				2.64	1000.82	1003.4			
LC18012	974.15 ~	974.69						1004.			
LC18013	974.69 ~	975.2					555.51	1004	<u>vi</u> 1. j	1 (3.0	
LC18014 LC18015	975.23 ~ 975.77 ~	976.3								•	
LC18016	976.31 ~	976.8	5 0.4	2 <0.0	1 0.01		· · · · · ·	- 1		•	
LC18017	976.85 ~	977.3						-1	1		
LC18018 LC18019	977.39 ~ 977.93 ~	977.9 978.4									
LC18020	978.47 ~	979:0									
LC18021	979.01 ~							;			5
LC18022	979.55 ~	980.0 980.1					1	1	·		1 e
LC18023	980.09 ~								11		÷.,
LC18025	980.65 ~	981.1	5 1.4	2 0.0						•	. *
LC18026	981.15 ~			38 0.0 51 0.0							
LC18027 LC18028	981.65 ~ 982.15 ~										· ·
LC18029	982.65 ~	983.	5 0.	67 <0.0							-
LC18030											
LC18031 LC18032	983.65 ~ 984.15 ~						1.1.1	1			
LC18033	984.65 ~	985.	5 0	03 <0.	01 0.0						
LC18034	985.15 ~	985.	31 0				4. 4	с., с.		•	
LC18035 LC19036	985.31 ~										
LC18037							÷.			· · ·	
LC18038	985.90 ~							· ·			
LC18039			0 69	13 <0. 30 <0.	01) <u>&lt;0. (</u> 01) <0. (			· .	1.00		
LC18040				14 <0.				3			ta en la
LC18042	989.02 ~	989.		09 <0.					1		
LC18043				10 <0. 10 <0.	01 0.0 01 <0.0				· ·	14 - L	
LC18044		NA 10 10 10 10 10 10 10 10 10 10 10 10 10		08 <0.							
LC18046	991.14 -	991.	31 0.	17 <0.					· .		
LC1804					01 <0 (		1	÷ .			1.1
LC18048					01 <0.						11 - 14
LC1805(					01 <0.				:		
LC1805	993.31 -	- 993.			01 0						
LC1805					01 <0. 01 <0.		1. A.		1.11		
LC1805					01 <0.			1.1			
LC1805		~ 995.	81 0		.01 0.				1.12		
LC1805	6 995.81 ·				01 (0.		· · · · ·			· · · ·	· · · · ·
LC1805 LC1805					.01 <0. .01 <0.						
LC1805	9 997.31	~ 997		. 05 <0	. 01 <0.	01		•			
LC1806	0 997.81	~ 998	31 0	. 03 <0	. 01 <0.				i e	· · · .	e e e
LC1806	1 998.31	~ 998			01 0	02		 			an a girth
LC1806						01				a si dan	
LC1806			. 97 (	. 23 <0	. 01 0.	01		1.5.5			
					0.01 <0.			1.5	· .		1997 - P
101806			DC -	001 0	Λ11 /A						-
LC1806	6 1000.47	~ 1000				01	:				1
	6 1000.47 7 1000.82	~ 1000 ~ 1001 ~ 1001	12 2	2.74 <0	0.01 0	01 02 02	: : :				

### Table 2-6-3 Results of Chemical Analysis of Ore Samples (3)

#### MJZC-6

No.	Depth (m)			AS-Cu (%)	T-Co (%)	Smaple No.	Dep (m)	in a star	-Cu (%)	AS-Cu (X)	(%)
19794		4.38	0.51	0.01	<0.01	LC14274	988.85 ~	989.53	0.10	<0.01	<0.0
C19795		4.73	0.47	0.02	0.01	LC14275	989.53 ~	990.03	0.25	<0.01	<0.0
C19796		5.23	0. 18	0,03	0.01	LC14276	990.03 ~	990.53	0.16	<0.01	<0.0
C19797		5.73	0.01	0.01	0.01	LC14277	990.53 ~	990.96	0.11	<0.01	<0.0
		6.23	0.01	<0.01	0.01	1.014278	990.96 ~	991.46	0.42	<0.01	<0.0
C19798					0.01	LC14279	991.46~	991.96	0.29	(0.01	<0.0
C19799		16.73	0.03	<0.01						<0.01	<0.0
C19800		17.23	0.01	<0.01	<0.01	LC14280	991.96 ~	992.46	0.32		
C14201		77.60	0.19	0.03	0.03	LC14281	992.46~	992.79	0.32	<0.01	<0.0
C14202		78.05	0.07	0.04		LC14282	992.79 ~	993.29	0.38	<0.01	<0.0
LC14203	955.15 ~ 95	55.65	<0.01	<0.01	<0.01	LC14283	993.29 ~	993.79	0.17	<0.01	
LC14204		56.15	0.01	<0.01	<0.01	LC14284	993.79 ~	994.29	0.41	<0.01	<0.0
LC14205		56.65	0.02	0.01		LC14285	994.29 ~	994.79	0.50	<0.01	<0.0
C14206			<0.01	<0.01		LC14286	994.79 ~	995.00	0.58	0.01	0.0
LC14207		57. 65	0.04	0.02		LC14287	995 00 ~	995.68		<0.01	0.0
						LC14288	995.68~	996.18			<0
LC14208		58.15	0.05	0.02	<0.01						
LC14209		58.65	0.01	0.01	<0.01	LC14289	996 18 ~	996.68			<0.
LC14210		59.15	0.12	0.01	<0.01	LC14290	996 68 ~	996, 96			<0:
LC14211	959.15 ~ 99	59.35	0.10	0.01	<0.01	LC14291	996.96 ~	<u>997.46</u>	0.61	0.01	<0.
LC14212	959.35 ~ 95	59.73	1.84	0.04	<0.01	LC14292	997.46 ~	997.96	0.03	<0.01	<0.
LC14213		61.15	0.02	<0.01	<0.01	LC14293	997.96~	998.46	0.05	<0.01	<0.
LC14214			<0.01	<0.01	<0.01	LC14294	998.46~	998.96			<0.
	901.10 - 5					LC14295	998.96~	999,46			<0.
LC14215			<u>&lt;0.01</u>	<0.01							
LC14216		62.65	<0.01	<0.01		LC14296	999.46~	999.96			
LC14217		63.15	<0.01	<0.01	<0.01	LC14297		1000.46			
LC14218		63.65	<0.01	<0.01	<0.01	LC14298	1000.46 ~	1001.05			<0
LC14219		64. 15	<0.01	<0.01		LC14299	1001.05 ~	1001.55	.0.27	<0.01	0.
LC14220		64.65	<0.01	<0.01		LC14300	1001.55 ~	1002.05	0.10	<0.01	0.
LC14221		65.15	0.13	<0.01		LC15901		1002.96			0.
LC14222		65.65	0.38	<0.01		LC15902	1002.96 ~	1003.10			
	000.10 ~ 8		<0.01			LC15903	1002.30 ~	1003.60			
LC14223		66.15		<0.01							
LC14224		66.65	0.01	<0.01		LC15904	1003.60 ~	1004.10			
LC14225		66.95	0.01	<0.01		LC15905	1004.10 ~	1004 60			
LC14226	966.95 ~ 9	67.45	<0.01	<0.01	<0.01	LC15906	1004.60 ~				
LC14227	967.45 ~ 9	67.95	<0.01	<0.01	<b>(</b> <0.01	LC15907	1005.10 ~	1005.60	0.08	3 <0.0	<0.
LC14228	967.95 ~ 9	68.45	<0.01	<0.01	<0.01	LC15908	1005.60 ~	1006.10	0.08	3 <0.0	I <0.
LC14229		68.95	0.04	<0.01		LC15909	1006.10 ~	1006.60	0.18		
LC14230		69.45	<0.01	<0.01		LC15910		1005.43			
LC14231		69.56	<0.01	<0.01			1006.43 ~	1006.93			
			10.01	<0.01		LC15912	1006.93 ~	1007.35			
LC14232		70.06	0.01								
LC14233		70.56	0.01	<0.01		LC15913					
LC14234		71.06	<0.01	<0.0		LC15914		1008.3			
LC14235	971.06 ~ 9	)71.56		<0.01		L015915	1008.35 ~	1008.90	6 <0.0	ij <0.0	I <0.
LC14236		72.06		<0.01	1 <0.01				÷.,	· · ·	2.5
LC14236	971.56 ~ 9		0.04				· · · ·				
LC14236 LC14237	971.56 ~ 9 972.06 ~ 9	72:56		<0.0	1 <0.01	Width	T De	pth	T-Cu	AS-Cu	
LC14236 LC14237 LC14238	971.56 ~ 9 972.06 ~ 9 972.56 ~ 9	72.56 72.96	0.04	<0.0 0.0	1 <0.01 1 <0.01	Width (m)		epth		AS-Cu	
LC14236 LC14237 LC14238 LC14239	971.56 ~ 9 972.06 ~ 9 972.56 ~ 9 972.96 ~ 9	972: 56 972: 96 973: 46	0.04	<0.0 0.0	1 <0.01 1 <0.01 1 0.01	(m)	(	)	(%)	(%)	(%)
LC14236 LC14237 LC14238 LC14239 LC14240	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	972:56 972:96 973:46 973:76	0.04	<0.0 0.0 0.0	1 <0.01 1 <0.01 1 0.01 1 <0.01	(m) 3.35	(n 981.10	984.4	(%) 5 1.1	(%) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14239 LC14240 LC14241	971.56 ~ 9 972.06 ~ 9 972.56 ~ 9 972.96 ~ 9 973.46 ~ 9 973.76 ~ 9	972.56 972.96 973.46 973.76 974.06	0.04 0.07 0.08 0.08	<0.0 0.0 0.0 0.0 0.0	1 <0.01 1 <0.01 1 0.01 1 <0.01 1 <0.01 1 <0.01	(m)	(n 981.10	)	( <b>%</b> )	(%) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14239 LC14240 LC14241 LC14241 LC14242	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	972.56 972.96 973.46 973.76 974.06 974.36	0.04 0.07 0.08 0.08 0.26	<0.0 0.0 0.0 0.0 0.0 0.0 0 0.0 0 0.0	<0.01	(m) 3.35	(n 981.10	984.4	( <b>%</b> )	(%) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14239 LC14240 LC14241	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	972.56 972.96 973.46 973.76 974.06	0.04 0.07 0.08 0.08	<0.0 0.0 0.0 0.0 0.0 0.0 0 0.0 0 0.0	<0.01	(m) 3.35	(n 981.10	984.4	( <b>%</b> )	(%) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14239 LC14240 LC14241 LC14241 LC14242	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	972.56 972.96 973.46 973.76 974.06 974.36	0.04 0.07 0.08 0.08 0.26	<0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1         <0.01	(m) 3.35	(n 981.10	984.4	( <b>%</b> )	(%) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14239 LC14239 LC14240 LC14241 LC14242 LC14243	971.56 ~ 9 972.06 ~ 9 972.56 ~ 9 972.96 ~ 9 973.46 ~ 9 973.76 ~ 9 974.06 ~ 9 974.36 ~ 9 974.86 ~ 9	972.56 972.96 973.46 973.76 974.06 974.36 974.86	0.04 0.07 0.08 0.08 0.26 0.29	<0.0	$\begin{array}{c ccccc} 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & 0 & 0 \\ 1 & 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0 & 0 \\ 1 & < 0$	(m) 3.35 1.39	(n 981.10	984.4	( <b>%</b> )	(%) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14239 LC14240 LC14240 LC14241 LC14242 LC14243 LC14244 LC14245	971.56 ~ 9 972.06 ~ 9 972.06 ~ 9 972.56 ~ 9 973.46 ~ 9 973.46 ~ 9 974.06 ~ 9 974.36 ~ 9 974.86 ~ 9 974.86 ~ 9 975.36 ~ 9	972,56 972,96 973,46 973,76 974,06 974,06 974,36 974,86 975,36 975,86	0.04 0.07 0.08 0.08 0.26 0.25 0.21 0.21	<0.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(m) 3.35 1.39	(n 981.10	984.4	( <b>%</b> )	(%) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14239 LC14240 LC14240 LC14241 LC14242 LC14243 LC14244 LC14244 LC14245 LC14246	971.56 ~ 9 972.06 ~ 9 972.56 ~ 9 972.96 ~ 9 973.46 ~ 9 973.76 ~ 9 973.76 ~ 9 974.06 ~ 9 974.36 ~ 9 974.86 ~ 9 974.86 ~ 9 975.86 ~ 9	972 56 972 96 973 46 973 76 974 06 974 86 974 86 975 86 975 86 975 86	0.04 0.07 0.08 0.26 0.26 0.21 0.21 0.21 0.4	<0.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(m) <u>3.35</u> 1.39	(n 981.10	984.4	( <b>%</b> )	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14239 LC14240 LC14240 LC14241 LC14242 LC14243 LC14244 LC14244 LC14245 LC14246 LC14247	971.56 ~ 9 972.06 ~ 9 972.96 ~ 9 972.96 ~ 9 973.46 ~ 9 973.76 ~ 9 973.76 ~ 9 974.06 ~ 9 974.36 ~ 9 974.36 ~ 9 975.36 ~ 9 975.36 ~ 9 975.36 ~ 9	972 56 973 46 973 46 973 76 974 06 974 36 974 86 975 36 975 86 976 86 976 86	0.04 0.07 0.08 0.26 0.26 0.22 0.21 0.21 0.21 0.21 0.41	<0.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(m) <u>3.35</u> 1.39	(n 981.10	984.4	( <b>%</b> )	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14239 LC14239 LC14240 LC14241 LC14242 LC14243 LC14243 LC14245 LC14245 LC14246 LC14247 LC14248	971.56 ~ 9 972.06 ~ 9 972.56 ~ 9 972.56 ~ 9 973.46 ~ 9 973.76 ~ 9 973.76 ~ 9 974.06 ~ 9 974.06 ~ 9 974.86 ~ 9 975.86 ~ 9 975.86 ~ 9 975.86 ~ 9 976.36 ~ 9	972.56 973.46 973.46 973.76 974.06 974.36 974.86 975.36 975.86 975.86 975.86 975.86 976.86 977.36	0.04 0.07 0.08 0.26 0.22 0.21 0.21 0.21 0.21 0.21 0.21 0.21	<0.0	(0,01           (0,01	(m) 3.35 1.39	(n 981.10	984.4	( <b>%</b> )	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14239 LC14240 LC14240 LC14242 LC14242 LC14244 LC14244 LC14246 LC14247 LC14248 LC14248	971.56 ~ 9 972.06 ~ 9 972.56 ~ 9 972.56 ~ 9 973.46 ~ 9 973.46 ~ 9 973.76 ~ 9 974.06 ~ 9 974.06 ~ 9 974.86 ~ 9 975.86 ~ 9	972.56 973.46 973.46 974.06 974.06 974.86 975.36 975.86 975.86 976.86 976.86 977.36 977.86	0.04 0.07 0.08 0.26 0.22 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.	<0.0	(0,01)           (0,01)	(m) 3.35 1.39	(n 981.10	984.4	( <b>%</b> )	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14239 LC14240 LC14240 LC14242 LC14242 LC14243 LC14244 LC14244 LC14245 LC14248 LC14248 LC14248 LC14248	971.56         9           972.06         9           972.56         9           972.66         9           973.76         9           973.76         9           974.06         9           975.86         9           974.36         9           975.86         9           976.36         9           977.86         9	972.56 973.46 973.46 974.06 974.66 974.86 975.36 975.86 975.86 976.36 976.86 977.36 977.86 977.86	0.04 0.07 0.08 0.26 0.29 0.21 0.21 0.21 0.21 0.21 0.21 0.21 0.67 0.65	<0.0	$\begin{array}{c} \hline (0,01) \\ \hline (0,01) \hline \hline (0$	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14238 LC14240 LC14240 LC14242 LC14242 LC14242 LC14242 LC14242 LC14242 LC14242 LC14246 LC14248 LC14240 LC14220 LC14220 LC14251	971.56         9           972.06         9           972.06         9           972.56         9           972.96         9           973.46         9           973.76         9           974.06         9           974.66         9           974.36         9           975.86         9           976.36         9           977.86         9           977.36         9           978.16         978.16	972.56           972.96           973.46           973.46           973.76           974.06           974.86           975.36           975.86           976.86           977.86           977.86           977.86           977.86           977.86           978.46           978.46	0.04 0.07 0.08 0.26 0.21 0.21 0.21 0.21 0.21 0.21 0.21 0.21	<0.0	$\begin{array}{c} \hline (0,01) \\ \hline (0,01) \hline \hline (0,01) \\ \hline (0,01) \hline \hline (0,01) \\ \hline (0,01) \hline \hline (0$	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14239 LC14239 LC14240 LC14241 LC14242 LC14242 LC14244 LC14244 LC14244 LC14245 LC14245 LC14247 LC14248 LC14249 LC14252	971.56         9           972.06         9           972.56         9           972.56         9           973.46         9           973.76         9           974.06         9           975.36         9           975.36         9           976.86         9           977.36         9           977.86         9           977.86         9           978.16         9           978.46         9	972:56 972:96 973:46 973:46 974:06 974:06 974:36 974:86 975:36 975:86 975:86 976:36 976:86 977:36 977:86 977:86 978:16 978:46 978:95	0.04 0.07 0.08 0.08 0.26 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.22	<0.0	I         CO         01           1         CO         01	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14237 LC14238 LC14238 LC14240 LC14240 LC14242 LC14242 LC14242 LC14242 LC14242 LC14242 LC14240 LC14240 LC14240 LC14240 LC14240 LC14251	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	972.56 973.46 973.46 974.06 974.36 974.36 975.36 975.36 975.86 975.86 976.86 976.86 977.86 978.46978.46 978.46 978.46 978.46978.46 978.46 978.46978.46 978.45 9788.45 9788.45 9788.45 9788.45 9788.45 9788.45 9788.45 9788.45 9	0.04 0.07 0.08 0.08 0.26 0.29 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.22	<0.0	$\begin{array}{c} \hline \hline$	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14239 LC14239 LC14243 LC14241 LC14241 LC14242 LC14244 LC14244 LC14244 LC14244 LC14245 LC14245 LC14247 LC14248 LC14249 LC14252	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	972:56 972:96 973:46 973:46 974:06 974:06 974:36 974:86 975:36 975:86 975:86 976:36 976:86 977:36 977:86 977:86 978:16 978:46 978:95	0.04 0.07 0.08 0.08 0.26 0.29 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.22	<0.0	I         CO         01           1         CO         01	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14238 LC14240 LC14240 LC14241 LC14242 LC14244 LC14244 LC14243 LC14244 LC14244 LC14245 LC14249 LC14249 LC14248 LC14249 LC14252 LC14251 LC14252 LC14254	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	972         56           973         46           973         46           973         46           973         46           973         46           973         46           974         36           974         36           974         36           975         36           975         86           976         86           977         86           977         86           977         86           977         86           977         86           977         86           977         86           977         86           977         86           977         86           977         86           978         16           978         45           979         95	0.04 0.07 0.08 0.26 0.22 0.21 0.27 0.41 0.22 0.67 0.67 0.67 0.65 0.55 0.14 0.12 0.41	<0.0	$\begin{array}{c} \hline & (0, 01) \\ \hline & (0, 0$	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14239 LC14238 LC14240 LC14240 LC14240 LC14241 LC14242 LC14243 LC14244 LC14244 LC14247 LC14247 LC14247 LC14248 LC14247 LC14251 LC14254 LC14253	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	72         56           772         56           773         46           773         46           773         46           773         76           974         36           974         36           974         86           975         36           975         86           976         86           977         36           978         16           978         46           978         97           978         97           979         45           979         95           979         45           979         95           980         45	0.04 0.07 0.08 0.26 0.22 0.21 0.27 0.41 0.22 0.67 0.65 0.55 0.14 0.12 0.41 0.22 0.21	<0.0	1         (0, 01           1         (0, 01	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14238 LC14240 LC14240 LC14240 LC14242 LC14244 LC14244 LC14244 LC14244 LC14244 LC14244 LC14248 LC14246 LC14250 LC14250 LC14255 LC14255 LC14255 LC14255	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	972         56           972         56           973         46           973         46           973         46           973         46           974         36           974         36           974         36           975         36           975         86           976         86           977         36           978         16           978         46           978         95           979         95           979         95           979         95           979         95           979         95           979         95           979         95           979         95           980         45           980         95	0.04 0.07 0.08 0.26 0.29 0.21 0.22 0.22	<0.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14239 LC14240 LC14240 LC14240 LC14241 LC14244 LC14244 LC14244 LC14244 LC14245 LC14244 LC14245 LC14246 LC142247 LC14250 LC14250 LC14253 LC14256 LC14256 LC14255 LC14256 LC14257	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	72         56           772         96           773         46           973         46           973         46           974         96           974         96           974         96           974         86           975         86           976         36           977         86           977         86           977         86           978         16           978         95           979         45           979         95           980         45           980         95           980         95           980         95           980         95           980         95           980         95           981         10	0.04 0.07 0.08 0.26 0.29 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.21 0.22 0.22	<0.0	$\begin{array}{c} \hline & (0,0) \\ \hline & (0,0) \\$	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14240 LC14240 LC14240 LC14241 LC14242 LC14244 LC14243 LC14244 LC14243 LC14244 LC14245 LC14249 LC14249 LC14253 LC14255 LC14255 LC14255 LC14255 LC14255 LC14257 LC14257 LC14257 LC14257	971.56         9           972.06         9           972.56         9           972.56         9           973.76         9           973.76         9           973.76         9           973.76         9           973.76         9           974.66         9           975.86         9           976.86         9           977.86         9           978.16         9           978.46         9           978.46         9           978.65         9           979.95         9           979.95         9           979.95         9           980.95         980.95           981.10         9	772 56 772 96 773 46 773 46 774 06 774 06 775 06 775 06 775 06 775 06 775 06 777 06 7770 06 770 06 770 000 000 000 000 0000000000	0,04 0,07 0,08 0,26 0,26 0,27 0,27 0,27 0,27 0,41 0,27 0,67 0,67 0,57 0,57 0,14 0,12 0,44 0,11 0,27 0,44 0,12 0,44 0,14 0,57	<0.0	$\begin{array}{c} 1 & \hline (0,0) \\ 1 & \hline (0,$	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14248 LC14249 LC14240 LC14244 LC14242 LC14244 LC14244 LC14244 LC14244 LC14244 LC14244 LC14247 LC14248 LC14249 LC14250 LC14253 LC14255 LC14255 LC14256 LC14256 LC14258 LC14258 LC14258 LC14259	971.56         9           972.06         9           972.06         9           972.56         9           972.96         9           973.46         9           973.76         9           973.86         9           974.06         9           974.86         9           975.36         9           976.86         9           977.86         9           978.46         9           977.86         9           978.45         9           978.45         9           978.45         9           978.85         9           978.45         9           978.95         9           978.95         9           980.45         9           980.05         9           981.10         9           981.10         9           981.10         9           981.10         9           981.40         9	772 56 772 96 773 46 773 774 06 774 06 774 06 774 06 774 06 775 86 775 86 775 86 775 86 775 86 775 86 775 86 776 86 776 86 777 86 777 86 778 85 779 95 58 880 45 59 79 95 59 880 45 59 89 81 40 981 40 981 40 981 40 981 40	0,04 0,07 0,08 0,26 0,26 0,27 0,41 0,27 0,41 0,27 0,41 0,27 0,41 0,27 0,41 0,27 0,41 0,27 0,41 0,27 0,41 0,27 0,41 0,27 0,41 0,27 0,41 0,57 0,41 0,57 0,41 0,57 0,41 0,57	<0.0	$\begin{array}{c} \hline & (0,0) \\ \hline & (0,0) \\$	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14238 LC14240 LC14240 LC14240 LC14241 LC14242 LC14244 LC14244 LC14244 LC14244 LC14244 LC14244 LC14244 LC14248 LC14245 LC14255 LC14255 LC14255 LC14256 LC14258 LC14256	971.56         9           972.06         9           972.06         9           972.56         9           972.96         9           973.46         9           974.06         9           974.66         9           974.66         9           974.86         9           975.36         9           976.86         9           976.86         9           977.86         9           978.46         9           978.46         9           978.46         9           978.46         9           978.46         9           979.95         9           980.95         980.95           981.10         9           981.40         9           981.90         9	772 56 772 56 773 76 773 76 773 76 773 76 773 76 773 76 773 76 774 86 774 86 775 86 775 86 775 86 775 86 775 86 777 86 778 778 778 778 778 778 778 778 778 778	0 04 0 07 0 08 0 28 0 29 0 22 0 62 0 22 0 62 0 22 0 62 0 72 0 62 0 72 0 62 0 72 0 72	<0.0	$\begin{array}{c} \hline & (0,0) \\ \hline & (0,0) \\$	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14248 LC14249 LC14240 LC14244 LC14242 LC14244 LC14244 LC14244 LC14244 LC14244 LC14244 LC14247 LC14248 LC14249 LC14250 LC14253 LC14255 LC14255 LC14256 LC14254 LC14257 LC14258 LC14258 LC14259	971.56         9           972.06         9           972.06         9           972.56         9           972.96         9           973.46         9           974.06         9           974.66         9           974.66         9           974.86         9           975.36         9           976.86         9           976.86         9           977.86         9           978.46         9           978.46         9           978.46         9           978.46         9           978.46         9           979.95         9           980.95         980.95           981.10         9           981.40         9           981.90         9	772 56 772 96 773 46 773 774 06 774 06 774 06 774 06 774 06 775 86 775 86 775 86 775 86 775 86 775 86 775 86 776 86 776 86 777 86 777 86 778 85 779 95 58 880 45 59 79 95 59 880 45 59 89 81 40 981 40 981 40 981 40 981 40	0 04 0 07 0 08 0 28 0 29 0 22 0 62 0 22 0 62 0 22 0 62 0 72 0 62 0 72 0 62 0 72 0 72	<0.0	$\begin{array}{c} \hline & (0,0) \\ \hline & (0,0) \\$	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14238 LC14240 LC14240 LC14241 LC14244 LC14244 LC14244 LC14244 LC14244 LC14244 LC14244 LC14248 LC14246 LC14250 LC14250 LC14250 LC14255 LC14255 LC14255 LC14255 LC14255 LC14256 LC14254 LC14255 LC14255 LC14255 LC14255 LC14255 LC14254 LC1425	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	772 56 772 56 773 76 773 76 773 76 774 66 774 86 774 86 775 86 775 86 775 86 775 86 776 36 776 36 777 86 877 78 778 16 877 86 777 86 877 86 777 86 877 86 878 95 778 16 878 95 778 16 878 95 778 16 888 95 779 95 788 16 898 95 979 95 978 16 978 16 977 16 978 16 977 16 978 16 977 16 978 16 977 16 978 16 977 16 978 16 977 16 978 16 978 16 978 16 978 16 978 16 978 16 978 16 978 16 978 16 978 16 97	0 044 0 07 0 08 0 08 0 08 0 08 0 08 0 08 0 08	<0.0	$\begin{array}{c} 1 & \hline (0,0) \\ 1 & \hline (0,$	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14240 LC14240 LC14240 LC14242 LC14244 LC14244 LC14244 LC14244 LC14244 LC14244 LC14245 LC14246 LC14247 LC14255 LC14253 LC14255 LC1425	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	772         56           772         56           773         76           774         56           774         56           774         56           774         56           774         56           774         56           774         56           774         56           775         56           775         56           775         56           777         86           777         86           777         86           777         86           777         86           777         86           777         86           777         86           777         86           777         86           797         85           979         85           979         85           979         85           979         85           979         85           981         90           981         90           981         90      982         90	0 04 0 07 0 08 0 02 0 22 0 22 0 22 0 44 0 12 0 44 0 12 0 44 0 12 0 44 0 12 0 44 0 12 0 22 0 22 0 44 0 12 0 22 0 44 0 12 0 22 0 22 0 44 0 12 0 12 0 44 0 12 0 12 0 12 0 44 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12	<0.0	$\begin{array}{c} 1 & \hline (0,0) \\ 1 & \hline (0,$	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14248 LC14249 LC14249 LC14242 LC14242 LC14244 LC14242 LC14244 LC14244 LC14244 LC14244 LC14244 LC14247 LC14248 LC14249 LC14255 LC14255 LC14255 LC14256 LC1425	971.56         9           972.06         9           972.06         9           972.56         9           972.96         9           973.46         9           973.76         9           973.86         9           974.36         9           975.36         9           976.86         9           977.86         9           977.86         9           978.45         9           976.86         9           977.86         9           978.45         9           979.95         9           979.95         9           980.45         9           981.10         9           981.20         9           982.40         9           983.40         9	772         56           772         96           773         76           774         96           774         96           774         96           774         96           774         96           774         96           774         96           774         96           774         86           775         86           775         86           976         86           977         86           978         16           979         95           979         95           979         95           9880         45           981         10           981         90           982         90           982         40           983         40           983         40           983         40	0 04 0 00 0 08 0 02 0 22 0 22 0 22 0 22 0 22	<0.0	$\begin{array}{c} \hline & (0, 0) \\ \hline & (0, 0) $	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14240 LC14240 LC14240 LC14240 LC14241 LC14242 LC14244 LC14244 LC14244 LC14244 LC14244 LC14245 LC14246 LC14250 LC14255 LC14255 LC14255 LC14255 LC14256 LC14256 LC14256 LC14253 LC14254 LC14253 LC14254 LC14254 LC14254 LC14254 LC14254 LC14254 LC14254 LC14254 LC14255 LC1425	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	772 56 772 96 773 46 773 46 773 76 774 96 774 96 774 96 774 96 774 96 774 96 774 96 775 96 775 96 775 96 775 96 775 96 777 96 777 96 778 95 779 95 778 95 779 95 779 95 778 95 779 95 778 95 779 95 778 95 779 95 778 95 779 95 778 95 779 95 779 95 778 95 779 95 778 95 779 95 778 95 779 95 779 95 778 95 779 95 778 95 779 95 778 95 779 95 778 95 779 95 778 95 778 95 779 95 778 95 779 95 778 95 779 95 778 95 778 95 778 95 778 95 779 95 778 95 77	0 044 0 07 0 088 0 0 02 0 22 0 22 0 22 0 22 0 22 0	<0.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14240 LC14240 LC14240 LC14241 LC14241 LC14243 LC14243 LC14243 LC14244 LC14244 LC14244 LC14245 LC14246 LC14250 LC14250 LC14250 LC14256 LC1425	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	772         56           772         56           773         76           774         56           774         56           773         76           774         56           774         56           774         56           774         56           774         56           775         56           775         56           775         56           775         56           775         56           777         86           777         86           777         86           777         86           777         86           777         86           777         86           777         86           778         978           978         95           980         95           980         95           981         10           982         40           982         40           983         45           984         45	0 04 0 07 0 08 0 08 0 22 0 41 0 41 0 44 0 3 0 55 0 44 0 3 0 5 0 44 0 3 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5	<0.0	$\begin{array}{c} 1 & \hline (0,0) \\ 1 & \hline (0,$	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14238 LC14240 LC14240 LC14241 LC14244 LC14244 LC14244 LC14244 LC14244 LC14245 LC14246 LC14247 LC14248 LC14249 LC14251 LC14251 LC14253 LC14254 LC14254 LC14254 LC14254 LC14254 LC14255 LC14256 LC14266 LC1426	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	772         56           772         56           773         76           774         56           774         56           774         56           774         56           774         56           774         56           774         56           775         56           775         56           775         56           775         56           777         86           777         86           777         86           777         86           777         86           777         86           777         86           777         86           777         86           778         89           797         978           978         955           979         955           979         955           981         90           981         90           981         90           982         90           983         960      984         962	0 04 0 07 0 08 0 08 0 08 0 22 0 22 0 22 0 22 0 22	<0.0	$\begin{array}{c} \hline & (0,0) \\ \hline & (0,0) \\$	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14238 LC14240 LC14240 LC14241 LC14242 LC14244 LC14244 LC14244 LC14244 LC14245 LC14247 LC14247 LC14247 LC14247 LC14247 LC14250 LC14250 LC14250 LC14255 LC14255 LC14255 LC14254 LC14254 LC14254 LC14254 LC14254 LC14254 LC14254 LC14254 LC14254 LC14254 LC14254 LC14254 LC14254 LC14254 LC14254 LC14254 LC14254 LC14255 LC14255 LC14255 LC14255 LC14255 LC14254 LC14255 LC1425	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	372         56           372         96           373         76           373         76           374         96           373         76           373         76           373         76           373         76           374         96           373         76           374         96           374         86           375         86           375         86           377         86           378         16           377         86           378         16           379         35           379         35           379         35           379         35           379         35           379         35           379         35           379         35           379         35           379         35           379         36           379         35           379         36           381         40           383         395	0 04 0 00 0 08 0 02 0 22 0 22 0 22 0 22 0 22	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} \hline & (0, 0) \\ \hline & (0, 0) $	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14240 LC14240 LC14240 LC14241 LC14242 LC14244 LC14244 LC14244 LC14244 LC14245 LC14245 LC14246 LC14251 LC14251 LC14251 LC14253 LC14254 LC14254 LC14254 LC14255 LC14255 LC14256 LC14256 LC14256 LC14256 LC14256 LC14265 LC1426	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	772         56           772         56           773         76           774         56           774         56           774         56           774         56           774         56           774         56           774         56           775         56           775         56           775         56           775         56           777         86           777         86           777         86           777         86           777         86           777         86           777         86           777         86           777         86           778         89           797         978           978         955           979         955           979         955           981         90           981         90           981         90           982         90           983         960      984         962	0 04 0 00 0 08 0 02 0 22 0 22 0 22 0 22 0 22	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} \hline & (0, 0) \\ \hline & (0, 0) $	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14240 LC14240 LC14240 LC14242 LC14242 LC14244 LC14242 LC14244 LC14244 LC14244 LC14244 LC14245 LC14248 LC14246 LC14252 LC14255 LC14255 LC14255 LC14255 LC14256 LC14256 LC14256 LC14256 LC1426	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	772         56           772         596           773         76           774         596           774         596           774         596           777         76           777         76           773         76           777         76           777         76           777         76           777         75           775         86           775         86           777         86           978         46           978         46           978         46           979         95           981         90           982         40           982         40           982         40           983         95           984         45           985         483           985         483           985         483           985         483           985         485           986         455           986         455           986         455	0 04 0 07 0 08 0 08	<0.0	$\begin{array}{c} \hline & (0,0) \\ \hline & (0,0) \\$	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14238 LC14240 LC14240 LC14241 LC14241 LC14244 LC14244 LC14244 LC14244 LC14244 LC14248 LC14248 LC14248 LC14248 LC14255 LC14255 LC14255 LC14255 LC14255 LC14255 LC14255 LC14256 LC1426	971.56         9           972.06         9           972.06         9           972.56         9           972.66         9           972.756         9           973.76         9           973.76         9           974.66         9           975.36         9           975.86         9           977.86         9           977.86         9           977.86         9           978.16         9           979.95         9           979.95         9           979.95         9           981.40         9           981.40         9           982.40         9           983.45         9           983.45         9           983.45         9           983.45         9           983.45         9           983.45         9           983.45         9           983.45         9           983.45         9           983.45         9           983.45         9           985.85         9 <td>372         56           373         76           373         76           373         76           373         76           373         76           373         76           373         76           373         76           373         76           373         76           373         76           373         76           373         76           374         86           375         36           375         36           377         36           378         97           378         97           378         97           379         95           980         95           980         95           981         10           982         90           982         90           982         40           982         90           983         45           984         45           984         36           985         466      986           986</td> <td>0 04 0 07 0 08 0 08 0 08 0 22 0 41 0 65 0 65 0 55 0 41 0 41 0 44 0 3 0 65 0 55 0 41 0 44 0 3 0 65 0 55 0 44 0 44 0 3 0 65 0 55 0 44 0 3 0 65 0 55 0 44 0 3 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8</td> <td>&lt;0.0</td> 0.0           0.0           0.0           0.0           0.0           0.0           0.0           <0.0	372         56           373         76           373         76           373         76           373         76           373         76           373         76           373         76           373         76           373         76           373         76           373         76           373         76           373         76           374         86           375         36           375         36           377         36           378         97           378         97           378         97           379         95           980         95           980         95           981         10           982         90           982         90           982         40           982         90           983         45           984         45           984         36           985         466      986           986	0 04 0 07 0 08 0 08 0 08 0 22 0 41 0 65 0 65 0 55 0 41 0 41 0 44 0 3 0 65 0 55 0 41 0 44 0 3 0 65 0 55 0 44 0 44 0 3 0 65 0 55 0 44 0 3 0 65 0 55 0 44 0 3 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8	<0.0	$\begin{array}{c} 1 & \hline (0, 0) \\ 1 & \hline (0, 0) \\$	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14238 LC14240 LC14240 LC14244 LC14244 LC14244 LC14244 LC14244 LC14245 LC14244 LC14245 LC14246 LC14247 LC14251 LC14251 LC14252 LC14253 LC14254 LC14255 LC14256 LC14255 LC14256 LC14255 LC14256 LC14255 LC14255 LC14255 LC14255 LC14255 LC14255 LC14255 LC14256 LC14269 LC14274 LC14269 LC14274 LC14269 LC14274 LC14274 LC14274 LC14274 LC14275 LC1427	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	772         56           772         56           773         76           774         56           774         56           774         56           774         56           774         56           774         56           774         56           775         36           775         36           775         36           775         36           976         377           377         86           977         36           977         36           978         95           979         95           979         95           979         95           979         95           979         95           979         95           979         95           981         10           982         90           983         40           984         96           985         46           985         84           986         85           986         86	0 04 0 07 0 08 0 08 0 08 0 22 0 22 0 22 0 22 0 22	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 1 & \hline (0,0) \\ 1 & \hline (0,$	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14248 LC14249 LC14249 LC14242 LC14242 LC14244 LC14244 LC14244 LC14244 LC14244 LC14244 LC14244 LC14246 LC14246 LC14255 LC14255 LC14255 LC14255 LC14256 LC14257 LC14256 LC14257 LC14256 LC14257 LC14256 LC14257 LC14256 LC14257 LC1425	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	372         56           372         56           373         76           373         76           374         66           373         76           373         76           373         76           373         76           374         66           373         76           374         86           374         86           374         86           375         36           375         36           377         86           378         86           377         86           377         86           377         86           378         86           377         86           378         86           379         95           380         95           391         10           392         40           392         40           393         45           3984         45           3985         85           3986         85           3987         32	0 04 0 00 0 08 0 02 0 22 0 22 0 22 0 22 0 22	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 1 & (0, 0) \\ 1 & (0, 0) $	(m) 3.35 1.39	(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.
LC14236 LC14237 LC14238 LC14238 LC14240 LC14240 LC14244 LC14244 LC14244 LC14244 LC14244 LC14245 LC14244 LC14245 LC14246 LC14247 LC14251 LC14251 LC14252 LC14253 LC14254 LC14255 LC14256 LC14255 LC14256 LC14255 LC14256 LC14255 LC14255 LC14255 LC14255 LC14255 LC14255 LC14255 LC14256 LC14269 LC14274 LC14269 LC14274 LC14269 LC14274 LC14274 LC14274 LC14274 LC14275 LC1427	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	772         56           772         56           773         76           774         56           774         56           774         56           774         56           774         56           774         56           774         56           775         36           775         36           775         36           775         36           976         377           377         86           977         36           977         36           978         95           979         95           979         95           979         95           979         95           979         95           979         95           979         95           981         10           982         90           983         40           984         96           985         46           985         84           986         85           986         86	0 04 0 07 0 08 0 0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} \hline & (0,0) \\ \hline & (0,0) \\$		(n 981.10	984.4	(%) 5 1.1	( <b>%</b> ) 4 <0.0	(%) 1 <0.

108 -

MJZC-7

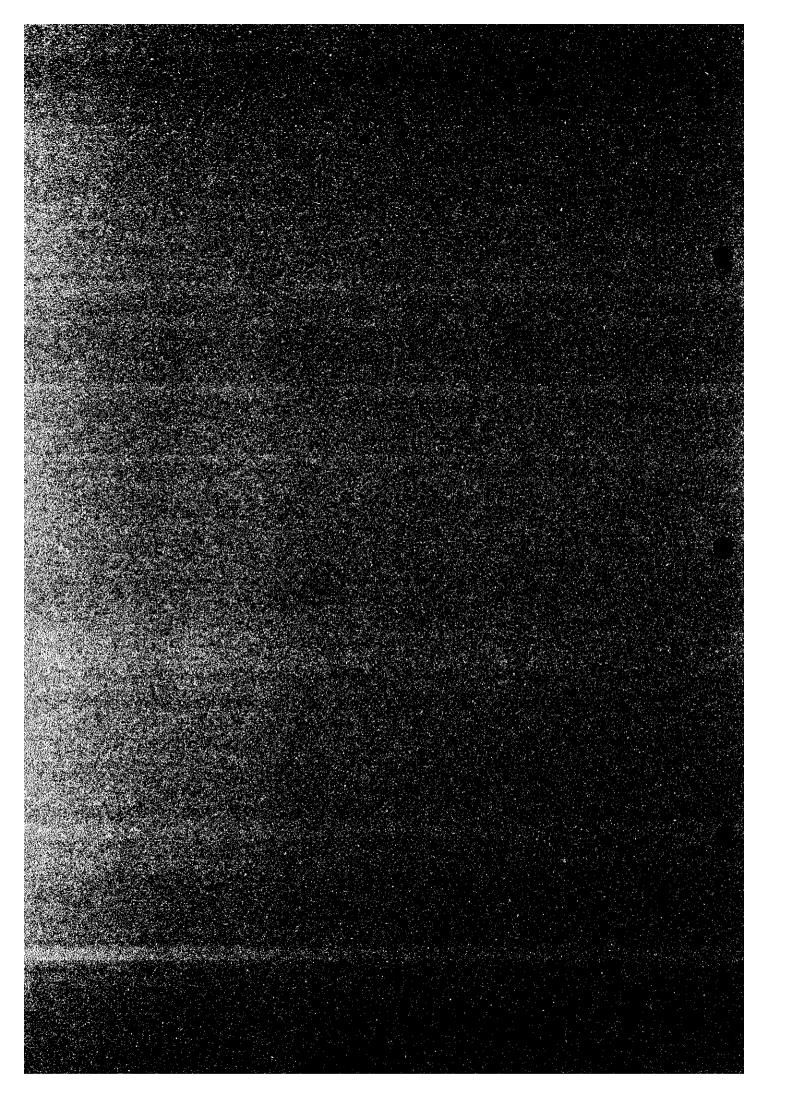
	MOLO					<u>.</u>				
· ·	Smaple No	Depth (m)	T-Cu (%)	AS-Cu (%)	T-Co (%)	Smaple No.	Depth (m)	1-Cu (%)	ASCu (%)	T-Co (%)
	No. 1015917	918, 96 ~ 919, 46	(0)	<0.01		LC15997	954.96 ~ 955.48	0.82	<0.01	
	LC15918	919.46 ~ 919.96	<0.01	<0.01		LC15998	955.48 ~ 956.00	0.36	<0.01	<0.01
	LC15919	919.96 ~ 920.46	<0.01	<0.01		LC15999	956.00 ~ 956.52	0.51	<0.01	0.01
	LC15920	920.46 ~ 920.96	<0.01	<0.01		LC16000	956.52 ~ 957.04	0.28	<0.0 <u>1</u>	<0.01
	LC15921	920.96 ~ 921.46	<0.01	<0.01		LC14301	957.04 ~ 957.56	0.11	<0.01	<0.01
	LC15922	921.46 ~ 921.96	<0.01	<0.01		LC14302	957 56 ~ 958.08	0.41	<0.01	<0.01
	LC15923	921.96 ~ 922.46		<0.01		LC14303	<u>958.08 ~ 958.60</u>	0.50	(0.01	
	LC15924	922.46 ~ 922.96	0.12	<0.01		LC14304	958.60 ~ 959.12	0.14	<0.01	
	LC15925	922.96 ~ 923.46	0.19			LC14305	<u>959.12 ~ 959.64</u> 959.64 ~ 960.16	0.57	<0.01 <0.01	
	LC15926	923.46 ~ 923.89	0.40	<0.01 <0.01		LC14306 LC14307	<u>960.16</u> ~ 960.56		<0.01	
	LC15927	$923.89 \sim 924.19$ 924.19 $\sim 924.69$	0.1/			LC14307	960.56 ~ 961.11			
	LC15928 LC15929	924. 69 ~ 924. 96	0.24			LC14309	961.11~ 961.66		<0.01	
	LC15930	924.96 ~ 925.46	0.10	<0.01		LC14310	961.66 ~ 962.06		<0.01	
	LC15931	925.46 ~ 925.96				LC14311	962.06 ~ 962.39		<0.01	<0.01
	LC15932	925.96 ~ 926.46			<0.01	LC14312	962.39 ~ 962.84			
	LC15933	926.46 ~ 926.96	0.12	<0.01	<0.01	L014313	962.84 ~ 963.39			<0.01
	LC15934	926.96 ~ 927.46				LC14314	963.39 ~ 963.84			
	LC15935	927.46 ~ 927.96				LC14315	963.84 ~ 964.39			<u>&lt;0.01</u>
	LC15936	927.96 ~ 928.46				LC14316	964.39 ~ 965.09			<0.01 <0.01
	LC15937	928.46 ~ 928.96				LC14317	965.09 ~ 965.39 965.39 ~ 965.84	<0.01		
	LC15938	928.96 ~ 929.46 929.46 ~ 929.96				LC14318 LC14319	965.84 ~ 966.39			
	LC15939 LC15940	929.46 ~ 929.96 929.96 ~ 930.46				LC14320	966.39 ~ 966.96			
	LC15941	930.46 ~ 930.58						1	1	
	LC15942	930.58 ~ 931.08						_		
	LC15943	931.08 ~ 931.58				Width	Depth	T-Cu	AS-Cu	
	LC15944	931.58 ~ 932.08	0.06	<0.0	1 <0.01	(m) ·	<u>(m)</u>	(%)	(%)	(%)
	LC15945	932.08 ~ 932.58	0.10			2.98	948.45 951.43			
	LC15946	932.58 ~ 933.08				8.07	948.45 956.52	1.13	<0.01	0.01
	LC15947	933.08 ~ 933.58				1				
	LC15948	933.58 ~ 933.88								
	LC15949	933.88 ~ 934.18								
	LC15950 LC15951	<u>934.18 ~ 934.48</u> 934.48 ~ 934.98				-				
	LC15952	934.98 ~ 935.48								
	LC15953	935.48 ~ 935.98								
· .	LC15954	935.98 ~ 935.4					1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -			
	LC15955	936.48 ~ 936.64	4 <0.0							
	LC15956	936.64 ~ 937.14								
6 B. 1	LC15957	937.14 ~ 937.64								
	LC15958	937.64 ~ 937.9								
	LC15959 LC15960	937.94 ~ 938.44 938.44 ~ 938.9								
	LC15961	938.94 ~ 939.4								•
	LC15962	939.44 ~ 939.9								
1.	LC15963	939.94 ~ 940.4								
	LC15964	940.44 ~ 940.9	4 < 0.0	1 <0.0	1 <0.01	1				
s	LC15965	940.94 ~ 941.4								
	LC15966	941.44 ~ 941.9								
	LC15967	941.94 ~ 942.4						· · .		
	LC15968	<u>942.44 ~ 942.7</u> 942.73 ~ 943.2	^							
12.00	LC15969 LC15970	942.73 ~ 943.2 943.23 ~ 943.7			1 <0.0					
	LC15971	943.73 ~ 944.2					1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -			
	LC15972	944.23 ~ 944.7								
	LC15973	944.73 ~ 945.2	3 0.0	2 <0.0	1 <0.0	ī				
	LC15974	945.23 ~ 945.7								
	LC15975	945.73 ~ 946.2					÷.,			
	LC15976	946.23 ~ 946.7								
	LC15977	946.73 ~ 947.2 947.23 ~ 947.7								
· · · · ·	LC15978 LC15979	947.73 ~ 948.4					· · ·			
	LC15980	948.45 ~ 948.7								
5.	LC15981	948 76 ~ 949 0								
	LC15982	949.06 ~ 949.5	6 1.9	0 <0.0	0.0				1 - E	
. <u> </u>	LC159B3	949.56 ~ 949.7								
	LC15984							6 <u>1</u> 1 1		
	LC15985									
	LC15986									
5.000	LC15987								· • •	1.1
1911 - L	LC15988 LC15989							2		•
1.1.1	LC15989								•	
1997 - A. A.	LC15991									
	LC15992									
	LC15993	953 33 ~ 953 6	3 0.	70 <0.0	01 <0.0	1	and the second second	•		
je s s	LC15994	953.63 ~ 954.1								
	LC15995						1. J. J. C. S. S. S.			19 J. 1
	LC15996	954.67 ~ 954.9	0, 4	<u>+1 (n (</u>	01 <0.0	Щ	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			
· · · · · · · · · · · · · · · · · · ·		and the second			-					

Cashier.

3450-12 1

# PART III CONCLUSIONS AND RECOMMENDATIONS

T



#### PART III CONCLUSIONS AND RECOMMENDATIONS

#### Chapter 1 Conclusions

Drilling was carried out during the second-phase of the Chambishi Southeast area mineral exploration. All five boreholes drilled during this phase attained their objectives by penetrating the ore horizon. The four boreholes designed to obtain basement data reached the basement. The geology and mineralization of the vicinity of known deposits were thus clarified and the following conclusions were reached.

1. MJZC-5 drilled in the northwestern part of this area encountered relatively good ore (width 3.10m T-Cu 1.93% T-Co 0.03%, width 2.64m T-Cu 2.32% T-Co 0.03%). This orebody is believed to be the northwestern extension of the Northern Area Shoot which is the major ore shoot of this area. From this, extension of the northern part of the Northern Area Shoot in the west-northwest direction has become a possibility to be considered seriously.

2. MJZC-6 and MJZC-7 drilled to the west-northwest of MJZC-5 encountered relatively low grade ores and they are considered to be located near the palaeo-basement high at the time of ore deposition. The ore shoot confirmed by NN-75 located between these two boreholes is inferred to be developed in the local depression to the south of NN-75, MJZC-6 and MJZC-7, namely on the southern limb of the palaeo-basement high.

3. MJZC-1 drilled in the southern part of the area encountered relatively low-grade ore. This mineralization, however, is developed immediately below the "Ore Shale" and is believed to be of the same type as that of the currently operating Chibuluma mine. To the east of MJZC-1, MJZC-2 confirmed relatively high-grade ore last year. This brings out the possibility that ore shoot may exist in the unexplored areas to the south of the above two boreholes.

4. MJZC-8 drilled in the southeastern part of the Northern Area Shoot encountered only weakly mineralized zone. This is most likely located at the crest of the palaeo-basement high and is considered to be barren.

#### Chapter 2 Recommendations for Third Phase Survey

It is concluded from the results of the drilling reported above that the most promising area for discovering new ore deposits is; the area northwest of the Northern Area Shoot, namely south of NN-75, south of MJZC-6 and south of MJZC-7. Next in line of prospectivity is the area south of MJZC-1 and MJZC-2.

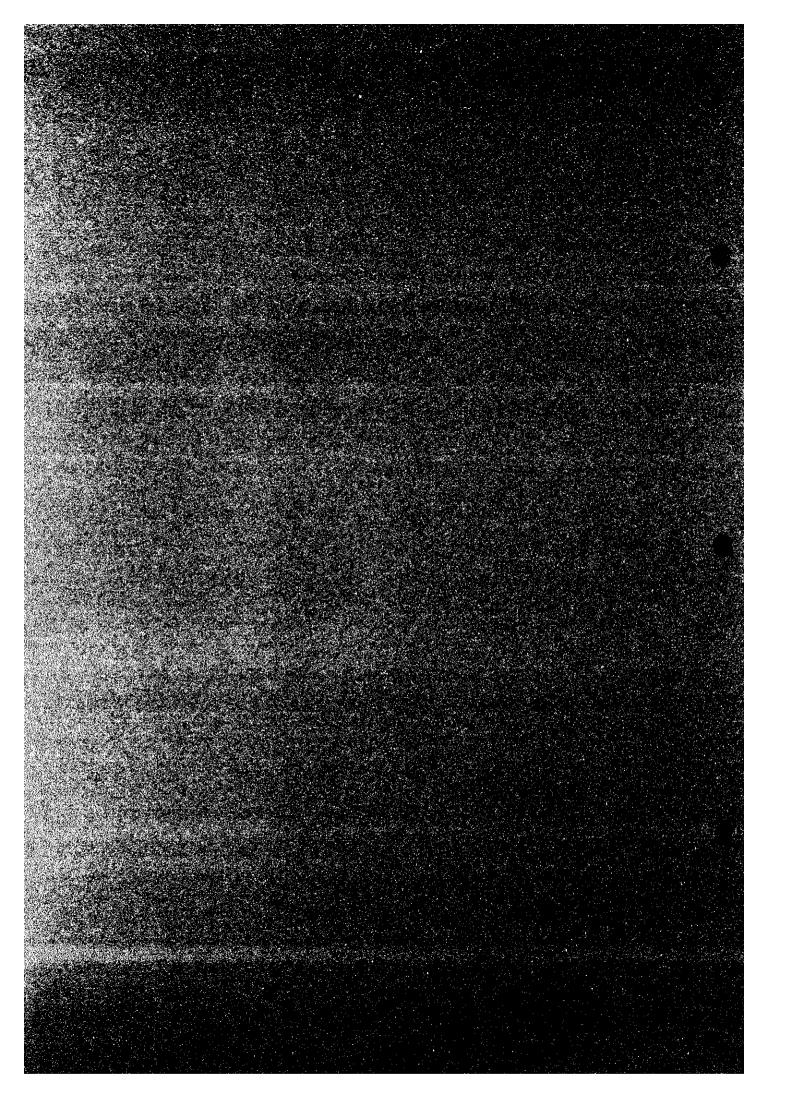
The Northern Area Shoot, the most important deposit of the project area, however, has not been prospected sufficiently and drilling along the periphery of the deposit is necessary in order to evaluate the ore reserve of this deposit accurately.

With the above consideration, drilling plan as shown in Figure 1-12 has been formulated for the third phase. The planned depth of the drilling is that of the basement for new areas, but for those with known basement depth, the figures are those designed to reach the footwall of the orebodies.

It is thus recommended that drilling be carried out with high priority for the search for new deposits and that the ore reserves of this area be accurately evaluated by integrated study of the drilling results.

# REFERENCES

T



#### REFERENCES

Fleischer, V.D., Garlick, W.G. and Haldane, R. 1976. Geology of the Zambian Copperbelt, Handbook of Strata-bound and Stratiform Ore Deposits (K. H. Wolf, ed.), Elsevier, Amsterdam, vol.6, p.223-350

Fleischer, V.D. 1983. Discovery of a New Copper-Cobalt Sulphide Occurrence in the Chambishi Basin, Zambia, Central Africa. Paper presented at "Proterozoic '83", Lusaka, Zambia

Garlick, W.G. 1964. Association of Mineralization and Algal Reef Structures on Northern Rhodesian Copperbelt, Katanga, and Australia. Econ. Geol., vol.59, p.416-427.

Lowe, D. R. 1975. Water escape structures in coarse-grained sediments. Sedimentology, vol.22, p.157-204.

Malan, S.P. 1964. Stromatolites and Other Algal Structures at Mufulira, Northern Rhodesia. Econ. Geol., vol.59, p.397-415.

Mendelsohn, F. 1961. The Geology of the Northern Rhodesian Copperbelt, ed. F. Mendelsohn. Macdonald and Co. London. 523 pages.

Sugawara, M., Sato, K., Sato, S. and Nagasaki, N. 1982a. Mode of Occurrence of the Shakanai Kuroko Deposits with Special Reference to Some Sedimentological and Diagenetic Features -Studies on Diagenesis of Kuroko Deposits (Description). Mining Geology, vol.32, p.305-322 (in Japanese).

1982b. An Attempt to Reconstruct the Diagenetic Evolution History of the Shakanai Kuroko Deposits -Studies on Diagenesis of Kuroko Deposits (Discussion). Mining Geology, vol.32, p.405-415 (in Japanese).

Zambia Consolidated Copper Mines Limited 1993. Proposal for a Mineral Exploration Project to be Carried out by the Metal Mining Agency of Japan and the Japan International Co-operation Agency on the Chambishi Southeast Deposit, Copperbelt Province, Republic of Zambia.

Constant -

学校部

# PHOTOGRAPHS

T

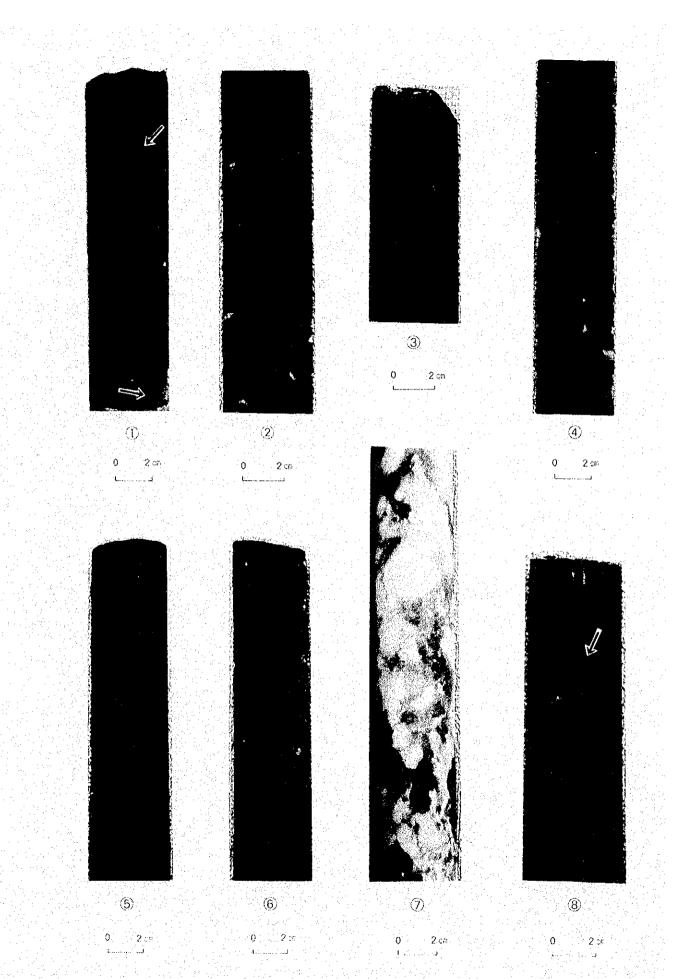


Photo 1 Photograph of Drilling Cores (1)



--

-

¥ .

t.

: .



ч

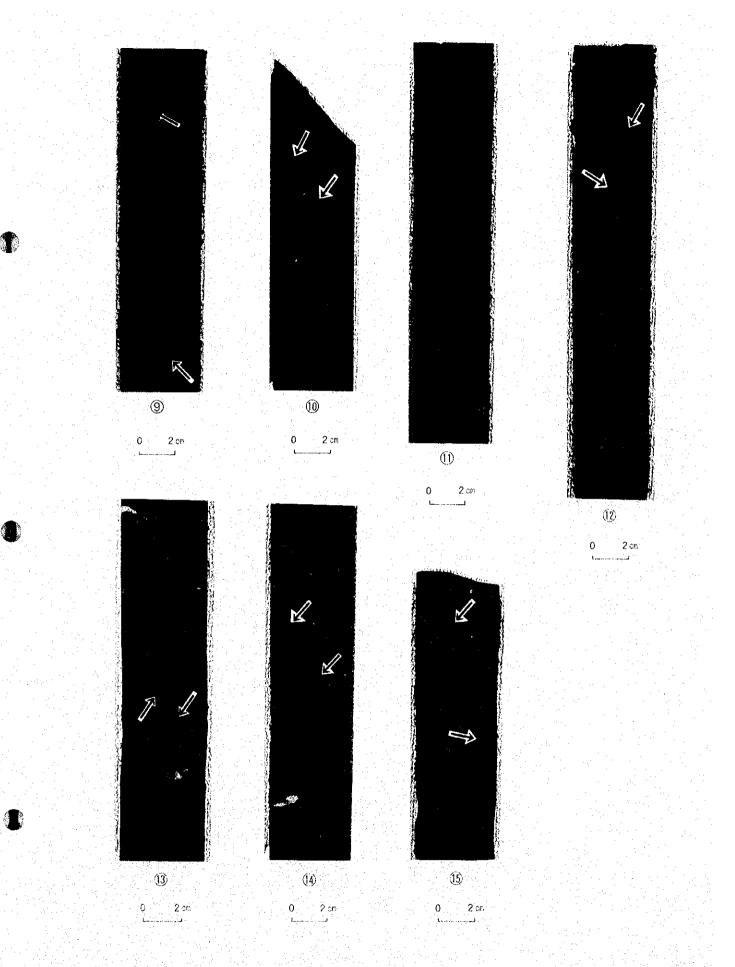
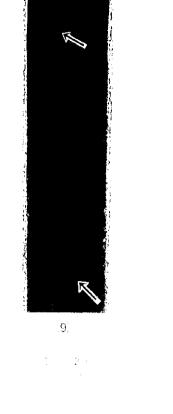


Photo 1 Photograph of Drilling Cores (2)





 $\swarrow$ 





R

• /

(

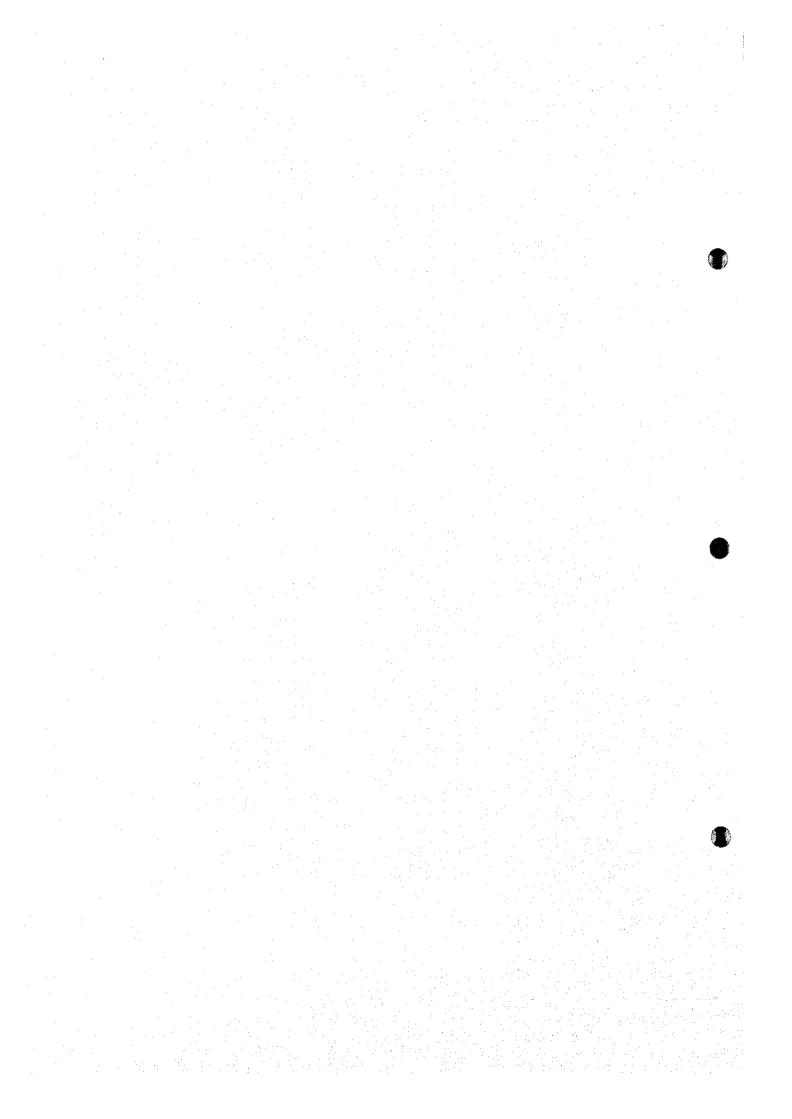


1.7



(p) A. D. Personal and A. S. Martin, and G. S. Martin, Phys. Rev. Lett. 19, 1000 (1997).

j w Kileren



#### PHOTO CAPTIONS

(DDissemination of chalcopyrite in pebbly quartzite (MJZC-1, 523.8m, LFQ).

(2)Conglomerate consisting of granite pebbles (MJZC-1, 589.3m, LQG).

③Pelitic rock with thin dolomitic bands (MJZC-1, 617.3m, LQG).

(4)Brecciated granite (MJZC-1, 631.4m, BSG).

(5)Amphibolite (MJZC-1, 646.5m, GB?).

@Granite (MJZC-1, 648.3m, BSG).

(7)Anhydritic dolomite (MJZC-5, 701.5m, UIL).

®Dish structure developed in sandy and dolomitic pelitic rock (MJZC-5, 708.4m, UIL).

@Lenses to laminations of chalcopyrite-pyrrhotite-pyrite and dolomite lenses with

chalcopyrite-pyrrhotite-pyrite (MZJC-5, 1002.4m, LOS).

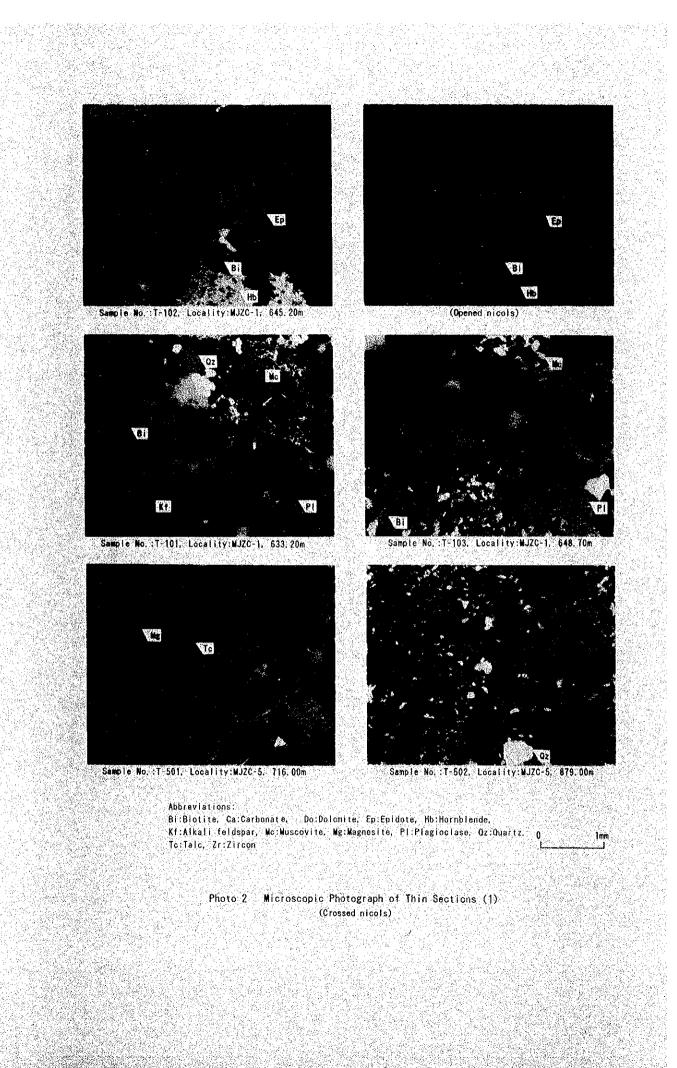
①Laminated dolomite considered to be stromatolite (MJZC-6, 758.1m, UIL).

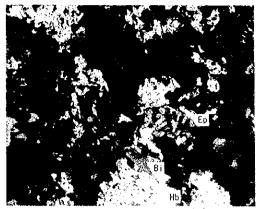
12Dissemination of minute chalcopyrite grains in dolomitic sandstone (MJZC-6, 983.7m, LOS).

<sup>(1)</sup>Segregation vein of dolomite. Pyrite-chalcopyrite occur in the vein (MJZC-7, 858.4m, UIB).

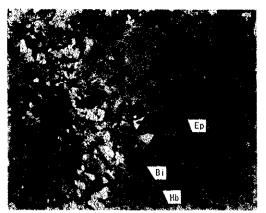
(Dissemination of chalcopyrite in Ore Shale (MJZC-7, 958.4m, LOS).

(Dissemination of euhedral pyrite and chalcopyrite in sandy pelitic rock (MJZC-8, 444.7m, UIL).

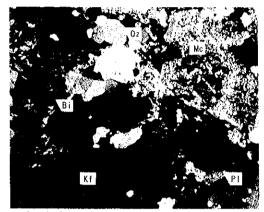




Sample No.: T-102, Locality: MJZC-1, 645,20m



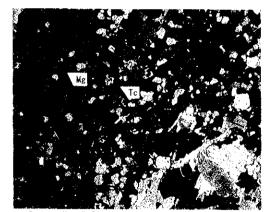
(Opened nicols)



Sample No.: T-101, Locality: MJZC-1, 633.20m

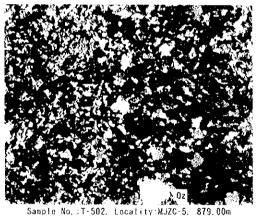


Sample No.: T-103, Locality: MJZC-1, 648.70m



Sample No.: T-501. Locality: MJZC.5. 716.00m

#### Abbrev:ations:



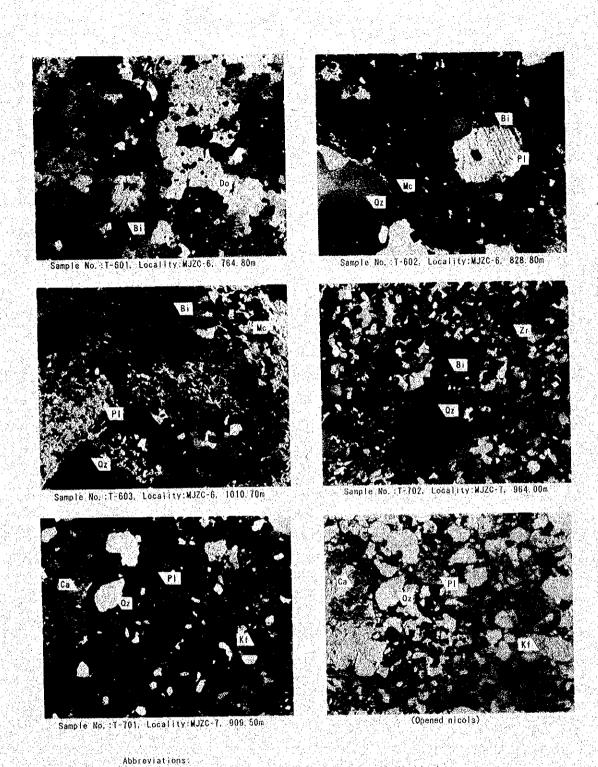
BitBiotite, CatCarbonate. Du.Dolomite, Ep:Epidote, HbtHornbiende, Kf:Alkali feidspar. Mc:Muscovite, Mg:Magnesite, Pl:Plagioclase, Oz:Ouartz, O ាភា To:Tate, Zr:Zircon 1

Photo 2 Microscopic Photograph of Thin Sections (1) (Crossed nicols)

-

Stanner 2 .

1 Dates

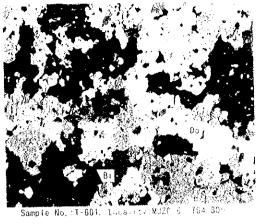


0.01

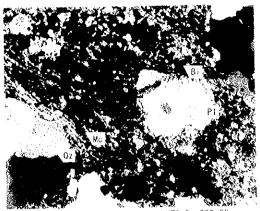
100

nuoreviations. Bi-Biotite, Ca:Carbonate, Do:Dolomite, Ep:Epidote, Hb:Hornblende, Kf:Alkali feldspar, Mc:Muscovite, Mg:Magnesite, Pl:Plagioclase, Oz:Quartz, O To:Talc, Zr:Zircon

> Photo 2 Microscopic Photograph of Thin Sections (2) (Crossed nicols)



6 764.30



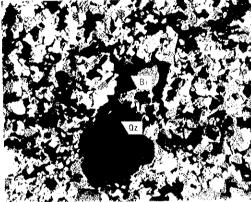
(30.5Z)

5 KAR

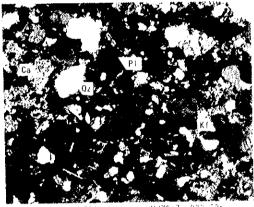
VJZC 6. 828,80m 1.622 11 5450



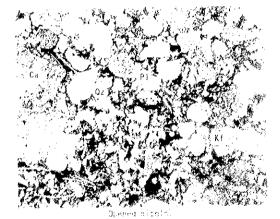
Sample No. : T-603. Locality: MUZC 6 1010.



Light L.MUZC 7. 964 00rs 1 792. N -

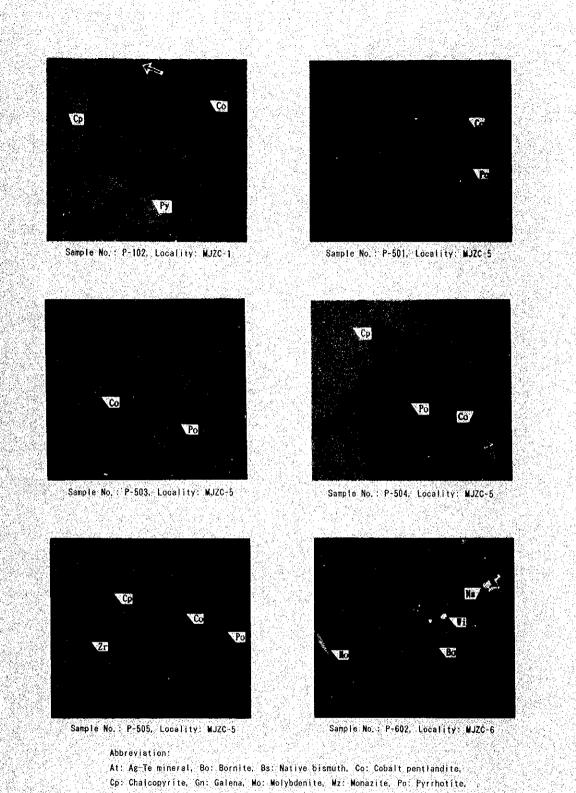


Sample No. :T-701. Locality.MJZC 7. 908.50



Abbrevistion BelBestribuilte Automation of Brazilian (Brazilian Statistica) REAleutomentulum (M. M. Schelmer M. Brazilian Brazilian Statistica) Builleve Villian (Brazilian)

ingen komplet i generen generen generen 1. Generen generen 1. −



C

Py: Pyrite, Wi: Wittichenite, Xn: Xenotime, Zr: Zircon 'X: Point analyzed quantitatively by electron probe microanalysis ( — )

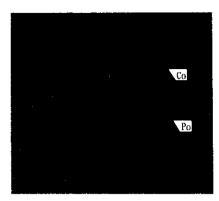
Photo 3 Microscopic Photograph of Polished Sections (1)



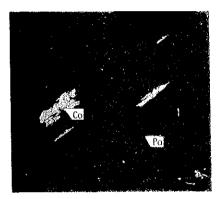
Sample No.: P-102. Locality: MJZC-1

A SUSPECT

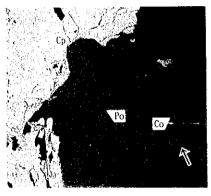
familie .



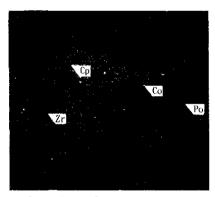
Sample No.: P-501, Locality: MJZC-5



Sample No.: P.503. Locality: MJZC-5

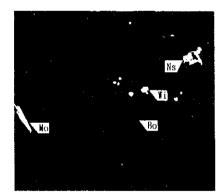


Sample No.: P-504. Locality: MJZC-5



Sample No.: P-505. Locality: MJZC-5

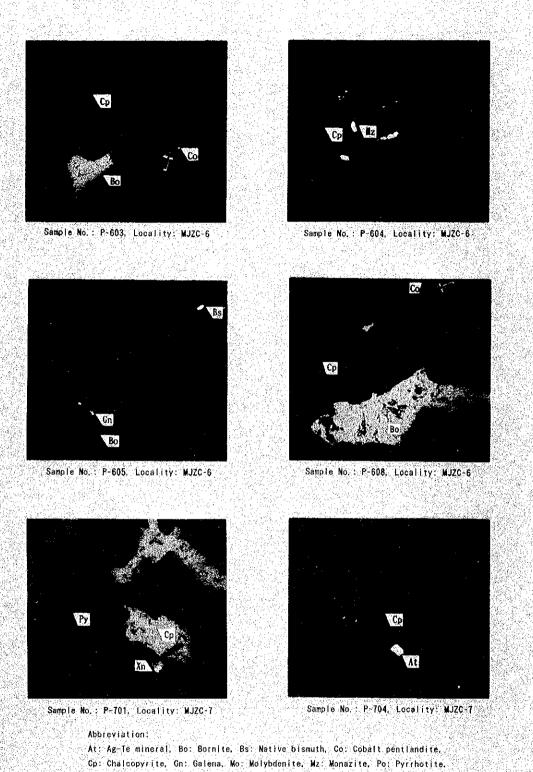
Abbrev:ation:



Sample No.: P-602, Locality: MJZC-6

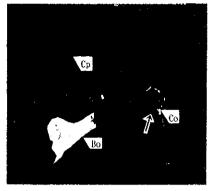
- At: Ag-Te mineral. Bo: Bornite, Bs: Native bismuth, Co: Cobalt pentlandite.
- Cp: Chalcopyrite, Gn: Galena, Mot Molybdevite, Mrt Monarite, Por Pyrihotile,
- Py: Pyrote, Will Wittenenite, Xnl Xenotime, Zr. Zircon

Photo 3 Microscopic Photograph of Polished Sections (1)

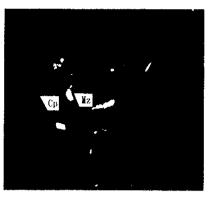


- Py: Pyrite, Wi: Wittichenite, Xn: Xenotime, Zr: Zircon
- imes: Point analyzed quantitatively by electron probe microanalysis (  $\leftarrow$  )

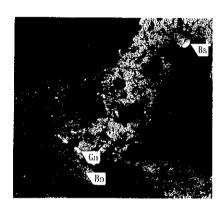
Photo 3 Microscopic Photograph of Polished Sections (2)



Sample No.: P-603. Locality: MJZC-6



Sample No.: P-604. Locality: MJZC-6



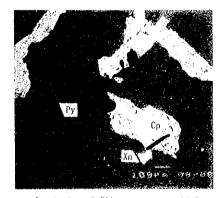
Sample No.: P-605. Locality: MJZC-6



Sample No.: P-608, Locality: MJZC-6

Αt

Sample No.: P-704. Locality: MJZC-7



Sample No.: P-701, Locality: MJZC 7

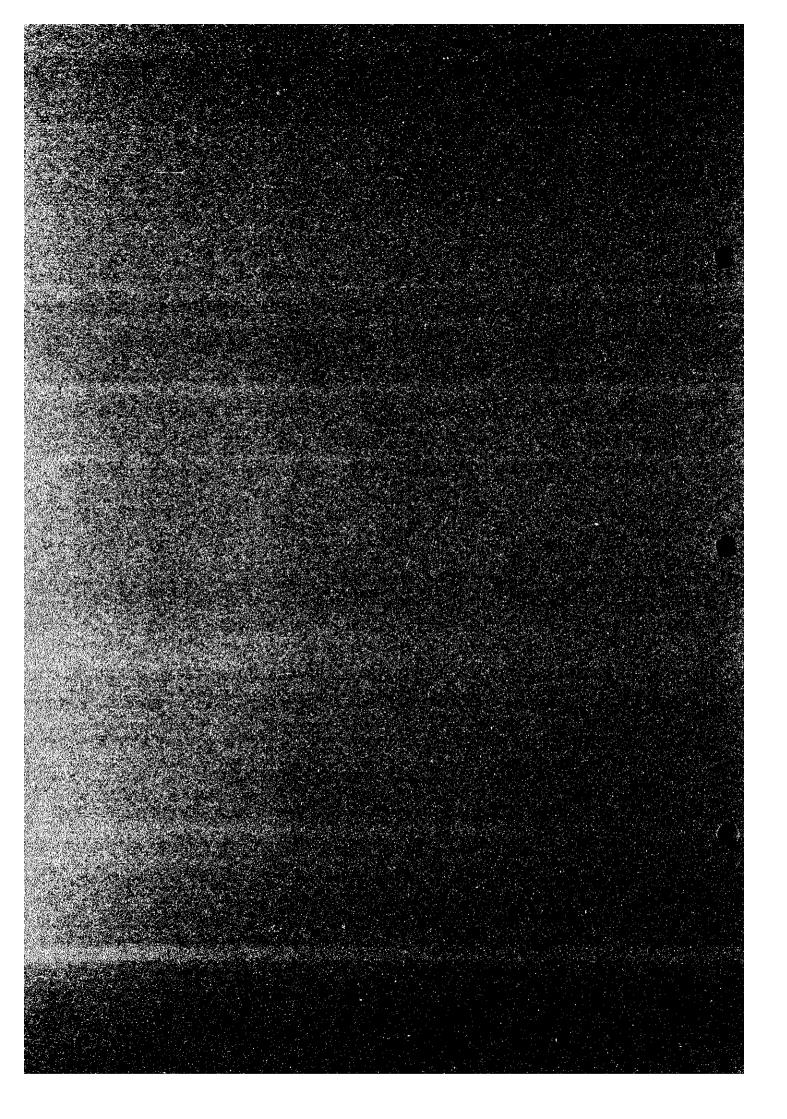
#### Abbreviation:

- At: AgeTe mineral. But Bornite, 8s. Native bismuth. Co. Cobalt pentlandite.
- Op: Chaldonyrite, Gui Galena, Me Molybdenite, Mz: Monazite, Poi Pyrzhotite,
- Pv: Pyrate, Wit Watt chemite, Xn. Xenotime, Zri Zardon
- imes. Point analyzed quantitatively by electron probe microanalysis (  $\leftarrow$  )

Photo 3 Microscopic Photograph of Polished Sections (2)

# APPENDICES

I



### Geologic Log of MJZC-1, 5 $\sim$ 8

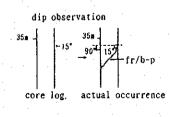
#### Abbreviations

#### Lithology

# Mineralization / Alteration

AGL: argillite	SH: shale
alt: altered	sh: sheared
AMP: amphibolite	sil: siliceous
aren: arenaceous	SS: sandstone
arg: argillaceous	str: structure
ark: arkose	whi: white
b: bedding	yel: yellow
bk: black	
b-p: bedding plane	
bre: breccia	
brwn: brown	
CGL: conglomerate	
comp: compact	
conv: convolute	
cos: coarse	
cryst: crystalline	, ,
dk; dark	
dol: dolomitic	
DM: dolomite	
feld: feldspar	
<pre>fr(s) : fracture(s)</pre>	
Gab: gabbro	
grn: green	
gry: gray	
hd; hard	• • • • • • • • • •
ig.r: igneous rock	
la/1: lamination	
LAT: laterite	
LS; limestone	
mass: massive	
medi: medium	d
mdy: muddy	
mica: micaceous	35∎ ∽
peb: pebble	
QZT/Q: quartzite	
qzose: quartzose	CO
r: rock	
sdy: sandy	
seri: sericitic	
	1 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (

Anhyd: anhydrite
Bio: biotite
Bo: bornite
Cal: calcite
carb: carbonate
circ: circulation
Cp: chalcopyrite
diss: dissemination
f: fine
F/W: footwall
Gyp: gypsum
Hem: hematite
Ho: hornblende
H/W: hangingwall
irreg: irregular
Limo: limonite
m: mineral
oxi: oxidized
Po: pyrrhotite
Py: pyrite
Qz: quartz
sca: scapolite
str: strong
tex: texture
tremo: tremolite
v: very
w: weak



۲

S. 32

Direction : Longitude : (true north)

Inclination : -

Elevation :

•

...

Depth		Lithology	Mineralization / Alteration	Samp.	-	Au	T.Çu	S.Cu	Co	Zn		
(m) Om	Log.		Alteration	No.	(m)	ppm	%	%	%	%		
- UM	L.	<cuttings></cuttings>								· .		1997 - 1997 1997 - 1997
	l L	ved haterite with Bio, feldgen	Linonite									
-						<u>.</u>						
5m												
_									-			
<u> </u>	L	yel-brown LAT.										
· -	L L											
10m	L											
101	ייי גי ו											
	l <sup>-</sup> i	frown red LAT				1						
	L _											
-	<u>ι</u> Γ						:					
15m											•	
-	<u> </u>											
											· .	· .
	1	brown LAT			ан 1							
20m	] 											
· .					· · .							
		-										
		in weathered wartly	, · · ·									
25m	- L	w-weathers of partly Blo, rich Ather SS			· ·			1				
	]L .					1			· .	ſ		
						·						1
	<u> ∽</u>											
30m	-											
	- L	brown LAT			·							
	- 			н н.,		4						
	], L											
78		+ Coring	e e la companya de la					ľ				
35 m	Gab	dk. grn-gry. v hd.										
	-	dk.gen-gry. v. hd. Gabbro/Amphibolit	L						1 I.			
	1	to shift	weathered along fractine		1	· .						а. н. П
	Gab											
40m	]				1		· · · .					
	-	475 sh.fr							ŀ			
	Gob		<ul> <li>An and the second se Second second secon</li></ul>									
	-											
15m	-	=-alt.zone whichaye	<b>7</b>									
	Gab											
		Rational										
	-	prownish whi mass	cal. utts									
	- DM	provisish whi mass silicified DM										
<u>50</u> m		<b>← 80,</b> v	Cal v.	<u> </u>	<u>la ser</u>				<u> </u>	1		

Drill hole No. : MJZC- /

Direction : Longitude : (true north) Inclin

Inclination : --Elevation :

(2)

				·				·		<u>.</u>	<u>منت</u>	(2)
Depth (m)	Core Log.	Lithology	Mineralization / Alteration	Samp. No.	Depth (m)	Au ppm	T.Cu %	S.Cu %	Co %	Zn %		
50m												
-	ÐM.	1			-				:			19 A.
-		+75, V.	n A wh									
5		· · · · · · · · · · · · · · · · · · ·	cal vH. weathered, lino, diss in DM.									
	Gab	gen alt. Gabbro + 10 fr limo				<b>.</b>						
55m	Gab	← 55 V.	cal vits			ļ			·			
-								:		. /	÷.	
	Gab	Bio.rich							-	· .		
	X					·						
1	$\sum $		silica film met									
60m		4	Cal. film net. Py w. diss v. sil, cal vit,			} .		· ·		1.		
	ÐМ	s:/ ÐM	V. Sil, cal vit,	1								
-												
						Į			· ·	. · .		
-						1				· .	1.1	
_	Gab	ана. Алана — Ала					· .				.    .	.
65m					· ·			· ·		• .		
						1	, i	1			1	
	1									:	1	
					1	ŀ		ŀ			· '	···
	Gab	<del>(</del> 80 Y.	cal v/t with w.s.l. zone							1		
-		€60 ¥	cal it.									
70m_		1							1.14	· · :	1	
-									1.1	·		· ·
-	Gab				· ·			1 ·		1		
	н <sup>с</sup>					Ì.	· ·					
	S		silica films									· ·
- 75m	<b> </b>	465 fr. gin. dayey	stree fries		· ·							1. A. A.
	Gab	the sin mass come.		1.				1 . ·		÷ .		· ·
-	4000	dk. gin mass comp. Bio, - alt. Gallro										
-		<del>(</del> 60 v.	silva vit with w. py. diss.									
·	Gab				· ·						· ·	
. –						1		· ·				
80 m <sup>4</sup>	DM	+ 80 hownish whi. s.l P.M.						. '				1
4	DM	l v.	large orystal Cal-vein								•	
.2	Gab	1	Q2 - lino irreg. vHs.		· · · ·							1.1
	Gab		Ľ.							· .		
-	1	<b>*</b>	large cryst. Cal vit with druse	1					1			
85m	Gab				1 . ·		- · ·		1		· .	
0.)«I	$1^{\prime}$	4.45 sh. fr.				1		1.	1 : .	1		ľ
· -	Gab	· · ·							1 :-			1.
	90.6	4.80 v. 80 sh. fr.	@2, vite with py diss,	:								
	-	11. 14		1.	<b>∤</b> . **			1.				
	-			1				<b>.</b>		1		
90 m	Gab			•   • . *				1				1 · .
:						1.		1		1.1	·	
	]				· .	:   · ·			· ·			
	1									1.1	:	
	1	1										
95m	1			· .	1.00				1		i la p	
	1			ľ	· .					1.1		
	-				1 ·						1 - 1997 1 - 19	
	4			- 1 × 1	1 j							
	_		Bio & confirmate patch									
			Junio Internet			1.1		1.1				
		1 1 1		1		4	11 12	1 10 10	1	1.1	11 H C	1

ten er

Direction : Longitude :

(true north)

Inclination : -Elevation :

٠

Depth (m)	Core Log.	Lithology	Mineralization / Alteration	Samp. No.	Depth (m)	Au ppm	T.Cu %	S.Cu %	Co %	Zn %	
100m	$\sim$	gry-dk.grn GAB. conbonate rich	Bio, irreg. films.								
	Gab	conbonate rich	•								
ۍ.		-ым <i>длу. sili,</i>									
.4 105m	Gab		1 A Butt Com								
	1	KHŚ Y.	large cryst. Cal VIt (3 cm)								
	4										
	<b>\$</b> ~>		Blo, Irreg. vlts		1						
110m											
	┣╱		culifilm								
	4								· ·		
	Gab										
115	- n		no poste irres satch with								
	17×		carbonate irreg. patch ~vlts. Blo. irreg. vlts.								
	-										
	-	4.30 Y.	large cryst. Cal-Bio >py vtts,								
120	<u> </u>					ter en					
	Gab		line of t								
	Gab		cal-Bib, film net								
125	-										
	T Gab	×	Qz - lino, film out, weathered.	z, 1							
	.5 DM	~	limo diss.								
		22 portly silicified									
130	)m 	muscov, -PM,	porous, str. weathered,								
	- <b>f</b>										
	-> 55	Try. hd.ss.	cal-limo, Irreg. Vlts								
	- <b>1 1 1</b>										
135	5m	2 ginish giy dol- AG	himonitized. pol. vlfalens.								
	<u></u> ] <del>∠</del>						1				· .
	<u>_</u> ^	t dol. lfms.									
14	0m 				-						
	.3 D	4 brown whi DH	silicified partly limonitized Cal. longe cryst. vtt.			- · · ·					
	.#]	goy. dol-sil. alt. GA	18								
14	- <b>60</b> 15m								•		
			cal vit.								
	- Gr	ц <u>́</u>	dol ineq . vits with line diss ,		ар С. С. С.						
	- ×	( brewinted									
1	50m	A brewiels	dol. film met.								

Direction : Longitude : (true north) Inclination : -

Elevation

		and a second sec	Longitude .	•••		LICYA				<del></del>	;		
Depth (m)	Core Log.	Lithology	Mineralization / Alteration	Samp. No.	Depth (m)	Au ppm	T.Cu %	S.Cu %	Co %	Zn %		(4)	
150m	1	Jk. gry elt. GAB.		110.						/0			
	Gab		silicon film, met.										
-	- <i>40</i>	11 / 1	cal.film net.									· ·	
		bleached zone +75 V.	silicified lange cryst. cal vlt. with py-limo,										
155m		gry. alt partly			н. 1911 - Алтан					. :			
			silica-cal film net.				н н П						
· .	Gab	· · ·			· .								
160m		gry alt					1.4						
	1	¥-50 ¥-	silica, cal. films							1. 			
	Gab		siller, cal. films					а 1					
						1 · · ·							
165m	alt.	gry. altered 2.	dol. net.						·				н. 1
			cal. films									÷.,	
	Gab					1						· .	
	1												
170m	-		silica film met.	1.1							. :		
	9ab												
		¥ 60 Y	cal. v/t										
	Gab		silica film					1					
175m	Gab	K 5D V	Bio, -dol. irreg. films										
_	]	gy bleached alt. 2.	pro, ceop mag ( )			1					1. 1		
	Gab												
	a art	ny-whi. alt. Gab.				1							
180m	400	445 Y.	cal vtt.					•					
1004	1	gry si), Heached Gal	silicification (H.)					· · ·	· ·			н. н. 	
	Gab				н н н								
	$\frac{1}{2}$		Blo. irreg. films										
185	Gab	whill str sill, bleached	str. sili with limo, diss,										
	-	2 											
	<u> </u> +	dk.grn. onica-AGL	dol.filma irregilens,							:			
	Aqi		•										
190		grnish uhi, alt. 30 b, ang- 027;	Limo- (R2) filmmet , weathered					÷.,					
		and to the											
	- \$\$;	" dol- \$5, with pore									t sa Sinta	e Lines	
	ÐM		A /				1. 1.						
195	464		wenth. limo,										
	- A	97% f~m. Q27,	1 min - del - Bo Ju da										
		-K /0 V	Linio, - dd Oz. in frs. Carb Oz limo vit:										
		@27/c. partly	1.0 - 01										
200	35	+ 60. v. Gab.	Inl-Bio. vills.										
								-		-		-	

Direction : Longitude : (true north)

Inclination : --Elevation :

٠

1.51

												(5)
Depth (m)	Core Log.	Lithology	Mineralization / Alteration	Samp. No.	Depth (m)	Au ppm	T.Cu %	S.Çu %	Co %	Zn %		
200m	1	dle, gin alt. GAB.			· · · · · · · · · · · · · · · · · · ·						····	
	Gab											
-	L.	4 40 V										
	Gab Gab	€15V.	cal-Blo. vHs (30m)								:	
205m		bleached alt. GAB		'								
	940/	4.15 √. - 60 x.	silicified - cal vtts. (10cm)									
]	]/_											
· .	Gib						1		. ·	· ·		
_		· ·										
210m												
	L,											
	all	whi. spotted altered r.	str. sil calcitized, limo. diss	<b>I</b> .								
	0.0											<sup>-</sup>
	Geb		cal. vits				1		·			
215 <u>m</u>	Gab	db. grn. alt. GAB.			ļ					1.		ŀ
	<b> </b>											
	alt	whi. altered GAB,			Į .				1.1			
	-G.6		sil-cal-Bio,-limo.		ĺ							1
	4 🕖		cal vHs.				1				·	
220 <u>m</u>	1								· ·			
	Gab											
		+70 frs.	lime in fs.		,							
	Gob											
225.	-				· ·							
	alt	Agradually altered	al-bio, vtts.		1.1.1							
	14	+70 V. str. alt. s: ]-cal, r	large cryst. cal-limo drugy vits				1.2					
	- alt	gtr. alt, sif-cal, r	irrey. silica viten patches						}			
			(may since viter parties									
230	- "	brown Ish gry alt, y									· ·	
-		<b>X V</b> .	eal vein (20 cm), (ino. diss.									
	alt	comp. hd. alt.r.	cal ulter									
	-(Gab?		car vits.									
	- DM	sillimo-PH.										• 1.
235		Uncertancen :										
	a/t	-					·	·				
	DM alt											
	- X-	dh gen brecciated AG	L Limonitization	*   .								
	AGL					1.1						
240	1 16	gin alt. Bio rich		1.								
	2 1.777	e.ss.6.	ste, sil,	1.								·
	ÐM	with grn ang lower	n and a second	а 1 ал		<b> </b>					1.	
	-	precision, ohusy par	st / y									
	° 773	\$ 917. V. sil. T. Cors- say	lino-cal-Vlts.									
245	• <i>\//</i>	partly dolomitic										
	90.0	CGL (AGE bebbles )	str. sil.									
	2/1	CGL (AGL pebbles ) commented by limonit										
	AG	any strates )										
250	4		limo, diss.									
L_200	1. <u>1</u> . <u>1</u> . <u>1</u> .	LAGE sil.		ند اب		<u> </u>				<u> </u>		<u> </u>

Direction : Longitude : (true north) Inclination : --

Elevation

÷.

.

								· .		<u> </u>		(6)	
Depth	Core	т	Mineralization /	Samp.	Depth	Au	T.Cu	S.Cu	Co	Zn		<u> </u>	
(m)	Log.	Lithology	Mineralization / Alteration	No.	(m)	ppm		%	%	%			
250m		+ 30.6. gmish giy. sil-AQL	str. sili,			1							
]	AGL	- DM parting	Limo-dol. Vits.			ļ					-		
	X.	- on price g			4		. 1						- ·
1	14		Limo disconnet							. :			
255 m	AGL	• •	preciated by silicification.	· · ·							14 A.	1	
. 1	X• [					·					ал С		
-	У.							ļ					
-	14	+ 45.6. laminated					1	1					
	K.	an du Al											
260m		919. soly. AGL 645.6. with @27.6 logger		ļ		ļ						1977	-
· · ·		445.6. With Carle (1994				. 							· · · ·
, <u>-</u>	DM	-40 AQL ) -20 TY 511.7. (DM?)							10 AS		1.1		100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100
.8 .7	iait Ael	+20 TY SILT. (DM ()	Limo diss					· ·					
	(OM?)	giy-whi silir.											
265 <u>m</u> 5.		grn-whi. w. sil. Afr		].		1.					÷		
	∌н		str. limo.			1							
-	1	gry mass. AM with muscor.						н. н. 1					
	ÐM	With accessory											
- 270m											- 1 A. 1		
	ł.												
. –	, a/\$,	sty. sil.	limo, str.				-			· ·	·		
-										· :		·	
		while Henched AGL w-sil, -limo-dol.										· ·	
275m	l' > l			· · ·		1 .							
	AGL			÷					1. 1. 1.			1.1	
· _		· .	limo, films										
-	X					-	. •						
-	ľ		· · ·									÷.,	
280m_	alt	4-15.6. 954. str. sil.								· . ·			
-	AGL	giy str. sil. ginish giy w-sil. Atr			· · · ·	1							
-						· · ·				$0 \leq 1$			
	DH		str. limo.					1.14	А. А.		- t.e		
,• - -	AGL				1 ·		· . ·	1	10	l' :	1.00	ŀ .	
285 <u>m</u>		-DM											·
-	AGL											-	
-	5 77777	alt porous sil.r.		1 :									
	AGL		str. /imo.					19					
290m	10.	proun oxi, DM.	211, [1mo,										
-	₽M	pointly sili,											
		ang. partly.		1.					1				
	]												
	AGL	+5.6. grn. soft. mica-Afre	Limo, diss.										and the second
295 <u>m</u>	<u> </u>	brownish whi, oxi, Di											
	DM.	with sil. for supatch											
	¥///	strisil party										11.00	
	AGL	grn. AGe											
	ÐM	ORI-SIL DH		·   ·			1		<b> </b>				
<u>300m</u>	AQL	4.5.6. with dot layer	- Limo partly.	1	<u> </u>		<u> </u>						l
					and the second				1.1	1 A (11 A A) (14			

10

Direction : Longitude : (true north)

Inclination : --Elevation : ٠

													(7)
Depth (m)	Core Log.	Lithology	Mineralization / Alteration	Samp. No.	Depth (m)		Au ppm	T.Cu %	S.Cu %	Co %	Zn %		
300m		+5.6. gen AGL											
-	Ðн	Hown whi. oxi . DH.											
.4		brecciated PM.	str. limo,			ľ							
.3	° 275	ganish whi. ang-DH.			· •								
305m	DM L	4-5.6											
	1	olive grn. AbrL with dal. layors											
-	AGL	and and organ											
		4-5.6											
9	ÐM	Whi, sil-PM	interbedded (5~10 mm interval)										
310m.	AGL	sdy. DH with angel argons											
	AGL	Las fr lol-line.								1			
	AGL	gin mass. Aler.	Limo diss weathered.		ļ				÷	l.			
	+	brown - whi oxi. DM											
	4	Association and association	Limo. In pores				2						1
015	-	and the second						1					
315ײַ	ÐM										1. 1		
	-						1 A.					·	
		with gin. ang. layers	• • • • • • • • • • • • • • • • • • •		1								
													: · · .
		<i>←5.6</i> .					1						
320m	AGL	•	Limo, diss.								1.1		
	, 	brown-whi. oxi-PM											
	- DM	with pores			<b>.</b>							· · ·	
	-		a Han han	.						1.			
		genish gry.	weathering										
325m	AGL	dol-AGL											
	DM ACI												
	4	in dati Ned	gyp. layer dominant									· .	
	AQL	giy art that	0/1 0				1 -			1. •			1
	-					÷.,	ļ						
330	<b>n</b>	gy-whi ang-pM.		1							· ·		
	+	with ong layers		· .			ľ						
	- 04						ļ			1 ·	 	1.00	
	AG	gry dol-AGL					1						
005	4-1	+ s.6. with dot lons PM. porting	gyp. rich								A .		
3337		ginish giy, dol-AG	4		1.								
	AGI	<del>(</del> \$,6.											
	1		Anhyd. patch - 3yp, layers	· .					÷				
	1-												
340		parther Sil DM	gyp, layer rich (flat) Anhyd, patch rich (338. n		· . · ·								
040	™∌^	whi antyd - PM.	Anhyd, patch rich. (338.'~	2									
	-					1. 	5			<b>.</b>			
	F PI										1.		
	AG	L +5.6. dol AGL.	and ALJ LAI				1.				· • •		-
345	-	-	gyp, layer, Anbyd, patch				÷.						
	""		nlens, dominant.			• • •		·   · · ·			. 1.		1.1
	-	+5.5. with ang layer								3 B <sup>4</sup>			
	- 01	,											
n len	-												
350		+ 5~10.b. arg. layon							1.2				
	<u>""  </u>	1	[14] A. C. M. A. A. M. R. B. M.		- <b>1</b>				بخداخ	ر المراجد المر مراجد المراجد ال	<u>- 11- 11-</u>		<u>, 19, 33</u>

Drill hole No

Latitude :

Depth

(m)

350m

355m

.8

360m

365m

370<u>m</u>

.6

375me

380m

385<u>m</u>

7

390m

395m′

400m4

.3

.3 d.

Core

Log.

ÐH

AGL.

<u>S</u>S

SS

DM . 5

ÄGL

<u>\_\_\_\_</u>

ÐМ

AGL

ÐM

4

.

rill hole No. : MJZC- atitude :	/ Direction : Longitude :	(true	north)	Inclin Eleva	ation tion	: ·	•		
						÷.			ି (ଚି.)
Lithology	Mineralization / Alteration	Samp. No.	Depth (m)	Au ppm	T.Cu %	S.Cu %	Co %	Zn %	
whi analyd DM.			······································						
with dol. funs.			· ·						
917- whi, dol-ang. SS. -5. with ang. loyers =-Age interbedden	Analyd. patch hers								
1									
<del>(</del> -5.6.								. *	
giy, ang-PM. + 5.6. giy. sdydol. A62.					1. 				
4.5.6. with QZTie layer			· ·						
- WITH CH-INE PAYER			· · ·						
-	Anhyd, lens, flat.								
	py. w. diss.								- 14 - I
portly arg.									
-DM dol-AGL									 
979: dol-sdy. AGL +5.b, 1 Ang-anhyd. PM			1. L						
dol-Age									
Mg-DH									
. with dol. panting. -c.s. with Oztic Lans.		r an Art			5 g				
anhyd-DM. dol soly Abri									
giy ary - DM muscov rich	Anhyb. Lons.								
4-5.6. with any layor whi spotted, analysis motion				. ·					
dk. 974, 5dy. AGR. with & ZTiE layors dol-analys, lens, flat.									
ang-DM. 1 soly-dol. pontly. 1 with girls	gyp. layn, Anhyd. lens.								·
L with grits									
7 10 Mg - DM and lawer	Anhyd. flat lens								1.1

-DM dol AGL AGL 77. dol-K-5.6, DM Ang - am dol-Ac +5.5. AGL ÐМ AGL DM NJ-DH with dol AGL. es, with anhyd-D dol-sdy ·..... # DM # AGL giy any muscou ÐM -5.6. With whi spotted 0 ----dk. gry, si with Q= AGL dolankyo arg. DI ÐM AGL sdy-dol with g - ... -10 Mig- DH. with ang layer ÐМ ... dol-soly - AGL AGL - - arg-∄M ←5,6. ЭM Anhyd, - silica lens Jk gry dol-soly. AGL with 5.5 layer ÄĞĽ • • • whi. mass. DH ÐΜ gyp. Jayon 45.6. gry dol. AGL with soly. lens. • • • ~ • • • • AqL · · · · DM - fingmental Aft. DM - whi-red, bre- DM. SS +5-1 Anhyd, -gyp dominant in matrix.

Lithology

dot-35 the ging giy, soly-Add with soly-dol-027is t-5.6. dol, a antyol. Jayo

Direction : Longitude :

Alteration

Anhyd. Lens nult.

Annya vit

Anhyd. layers

(true north) Inclination : --Elevation (9) Mineralization / T.Cu S.Cu Samp Depth Au Co Zn No. (m) ppm % % % % Anhyd gyp layers a vite

.... +5.6. cos, BZTic ayer - -

. . 430m *.* . . . -----5 Ŧ Whi mass DH. эM

435m 7 gin-gry Adri with silica fens AGL while pune PM. with sillion lens, ÐМ Anhyd. 5-10.6. ang-PM. 440m whi, muscovi -DM.

AGL

1 \$5

445m

450m

442.5~443.0± minute pr-cp. w. diss Anhyd. protoh ~ lens.

## gyp. vHes.

interhedded +5. AGL dol-SS gin-giy dol-35 with ang - layers

Depth

(m)

400m

405m

410m

415m

420m

425<u>m</u>

Core

Log.

55

AGL

-

AĢI

AGL

464

. . .

AGL . 1.

. .

**.** .

..... AGL -----••

AGL

11. - - -

> ..... - - -

. . . ..

-DM + 5. b.

ÐМ soly AG1

- DM

+5~0

6-5 ≯. +\*5 ∨,

-DM., Mg.

gritty AGE

with dol-soly layers

gritty. AGL interbodded 55-AGL

-5. with cos, gritness layers

- 027 parting. +5.6. +65.47-911. + 04. +5.6.

Drill hole No. : MJZC- /

Direction : Longitude : (true north) Inclination

(20)

3 Š

						<b></b>				· · ·		(10)
Depth (m)	Core Log.	Lithology	Mineralization / Alteration	Samp. No.	Depth (m)	Au ppm	T.Cu %	S.Cu %	Co %	Zn %		
450m	\$5 1 H	dol-ss. with ong layer							1 2			
	55											
-	∌M	ang. DM.										
-	-	whi-gey dol-55.										
455m	55	with dopang. Jonyers				1						
40.081	- L			1								
-	55	-DM interbedded with ang.	the second s								· .	
.9-	1	ang. PM	py. w. diss.			1.		1		<u>і</u> .		
-	- <u></u>	with s.s./arg byers						ļ				
	Đ <u>M</u>	with silica lims.				1		l		·		
460m		£5.6.										
./-	*****	any dilace				1					ļ	
-	AGL	gry dol-AGL with silica lens										
<u>ج</u>	ÐM.		Anhyd. Jens		. •							
	AGL		1	· ·								
465m	D.M	soly. DM. with ang layer Affic with Offic layer										
	ЭM рм	Afec with Of The lower										
_	AGL	1										
	AGL								1			1
	AGL	grnish my soly-dol. Alt						ŀ	1 .		· ·	
470m		pinhish soly DH.										
	1	plate, @27, with Bio,										ľ
	1_	with ang . part.				1					1	
•												1
									1		1	
475m	<u>@</u> -			ľ	1. A. A.							
475												
•	4								ľ			1 · ·
		B's shuring of										
	-	Bio, obminant portly.										
;	_											·
480 <u>m</u>	AGL	45.6, AGL-027 Interbed.										
	- DM	anhyd-DM. 45. gry arz - dol- \$5.								1		
	- 55	with ang-layor										
	1		Anhyd, Kensnpatch			1				1		
	- DM	45.6. arg. DM	Mindae in the					1				:
485 <u>a</u>	55	ang-dol. \$\$,						1	1		4	
-	] ∌M							· ;				
	<u> </u>	-1		- <b>1</b>		- <b> </b>						
	- 55	dh.gry. ang-dol-SS,				1		· [ ·				
· .		with Oztic layers								1 14		
490n	-	- 45.6, ang. layor	silica layer, - liquefied intrusion					·   .				
	Q	gir-whi, ang-@27, with Bir layer		ł	· · · .			1 · · ·	100		1	
	4									· <b> </b>	1.1.19	• •
		145.6. with silica layer	MY. W. diss.							1.		
	- \$\$		·			1.1						
495	- 55	Z-BH. ong. ==K-s.6. AGL porting.				1						
100	" \$\$		gypAnhyd. vit.		1							
	-	arg: 22T.	ly wi diss partly									
	- 0											
	-	AGL portings										
		- SU.DI Mg-627										
500	- L O^	1 ang. DM.	Arrhyd, gyp. vtts.	6 <sup>°</sup>	1	1.	1 1.2 1	1.1	10.001	1. 122	11	21 (* )

Č,

Direction : Longitude : (true north)

Inclination :--Elevation !

•

epth	Core		Mineralization /	Samp.	Depth	Au	T.Cu	S.Cu	Co	Zn		
(m)	Log.	Lithology	Alteration	No.	(m)	ppm	%	%	%	%		
500m	- 55	dk.gry. dol-mg-85,										
.7	_	v argillacione.	Anhyd. flat lens,									
9	ÐM	45, ong- PH. ong-027~\$5, dol.										
505m	SS	ang-G27255, 001. With many ang layers brownish gry. dol Act ts. b. Jaminated thinly do gy.										
500m		ts. b. Jaminated thinly	py. w. diss. in rim of dol. spot									
-	1 .	dol, small spot ~lens.										
-		+s.k										
	<b>1</b> .⁺		508.3 n po-(cp) (diss, in dol. spot (rim), thin lons									1
510m			thin lons						:			
	·]	475.frohl-py.dus,	into a compatibility				1.					· · .
	<u> </u>	dol spot \$12 m. whi-gry. dol-AGL	511.6 , po-@2-(cp-py) vHs		-				Ì.			
		WIN-449. KUI-A4C	POW(Cp-Py). Tim of dol. spot small slongated blebs									
	4			ł			<u>.</u>					
515 <u>m</u>	2	bh, shale									:	
	4	45.b,	many silica - po - cop - py). this fare	s								
	AGL	whi.gry. dol-AGL	51% 22-10,-cp. longen (5 cm) po. d.ss. in. b.p. bless releas with @2. dol - (cp.)			-						
. '	~ ~	gry-whi. ang-DM.	with $a_2 \cdot dol = (cp.)$				- <b> </b>				· · ·	
520	- <i>DM</i> n 🗇											
•	<b>、</b>	with silica concretion	Alens with po-py-(up) rim.									
	/	any sil-CC+L	500, 9-527.4 cp. diss, in matri, Pebbles (4, 1~3cm2)	r								
	- CGL	ozt, Bio-schist, Aur granilic pebbles (pint febbly 027,	(P. /~3cm2) feldspon, @2.)				:				. :	:
· 1	ري م م	pebbly 027. with ang-layer, fla										
525	n @ Q											
	-	whi. cos. QZT, with Bl										
	AGI	+5 gy, AGE parting	is 527.6-530.6 Minute Cy. widiss									
		- A9L		1.								1
530	m) . Q	bb~ dk ary ang- 02	<b>T</b>		1.							
	.4	bh - th gry ang-Oz - AGL Bio, rich	T. Anhyd, tens. pour ayp. Alm									ł
	0	+5,6 ang layors.	* <i>II</i> . V									· •
	0											
		<u></u> − ∧ <del>4</del> ∟							1.		· ·	
535	m_ 0											
	·	CGL					.   •					
	1.		all set a set of second	<b>1</b>				:				
<b>I</b> .	_ CG	chent, granite ff	childes (\$ 11.3 cm), round a living sh	74					ľ			
54	Don	Jucan (148)				-	: .			ļ		
·	]	lea is	Anhyd, Irreg. vite, pour.									
		<del>( 4</del> 0 . V.									Ì	
			Q2-Andyd, vlt. Byn vlt.									
						· .					- <b> </b>	
54	5 <u>m</u> 20	<del>.</del>										
	: <b> </b> ``											
	1	#Inscm aint sil-Orthodo	₩						 	n an tainn An tainn		
	<b>- 1</b>	pink sil-Orthocle fragment rich.										
5	50m			in a la			5. L.S		<b>E</b> .			

Direction : Longitude : (true north)

Inclination : -- • Elevation :

(12)

Depth	Core	T 141 1	Mineralization /	Samp.	Depth	Au	T.Cu	S.Cu	Co	Zn		
(m)	Log.	Lithology	Mineralization / Alteration	Nó.	(m)	ppm	%	%	%	%		
550m		Cal		1		:						
		dh giy sili pabbles B2- anhyd, matrix		:							5	1.1
1	CGL	GL- unifer suberly						1				
-								н. 1			÷.,	
555m							. <sup>1</sup> .					
-		bk. AGL. pehble rich.				1	2.5	1.				
-	Q	1 h an ~ pinkish							· .			
-		dk.gry.~pinkish. arg-art.				1			ł	· ·		
-		kio. ang. layors pebbly pontly							1	. :	· .	
 560m				1 · · ·							11.1	
		Tpinkish pebby~ang-027		1								1 <sup>-</sup>
	ວ່	pebbly ang - @27.		- 1 ·				11 - 11 - 11 - 11 - 11 - 11 - 11 - 11				
							-					
-	• • •	765 dk.gen aug-227.	grp xlt.									
-			a tha an									
565m	• • •	petily partly						· · · ·		н. <sup>1</sup>		
	· ·	4.65	ave all	1		1.0						
-		dk. 974 ang-027.	ayp vit.									
_		17. 4										
		pebbly partly							l			
570 <u>m</u>		tors ang layers							÷.			
_	<b></b>	and a start					· .			·.		
	]											].
		petbly OZT									1	
	ŀ.	1			1997 - 1997 1997 - 1997							
575m	1 • •							· ·				
					1.0	1			·		1	
5		arg-@27.	gyp. v/t. Qz. vein							1 22		1
-		+10. Bio buers	V.L. vem								1	·
-		+10. Bio, byers dolomitic partly					1					
	÷?:	pio, diss. str.							· .			
JOUIN						·						
-	-	I-Pebbly. +8 with many ang lay	, Ma			1.1	· .					
;	<u> </u>	+8						· • •	1.9	· · ·		· .
-	<b>ا</b> ". •	· Ortho clase fragmon	el de la companya de						Į.,	li .		
	10	pebbly-ang- @27.										
585 <u>m</u>	Į	•					Į .	n i n				
i	-l:											
	-	pink-whi. CGL										
	-1 ·	Feldspathae pebbles		·   .								
· · · ·	_			1.1	· · ·				- 11 - 1 11 - 1			
590 m		small granitic pebb (\$ 0.8n1cm)	(Gz. Bio)									
	CGL	() Disicion()	V. 517.									
	1,1,1							1				
	-					1.						
۰	1						t <mark>la s</mark>	ľ	·   · · ·		· .	
595 <u>m</u>	1						- {· · · ·		1:			1 55
_												
	]											
	]	+45 sh. fr.	ankyd. ult.									
	1	whi, bleached.	str. silicified.	- <b>-</b>		·						
600	n CG	L so shifr,										
h	_	A.		_		<u> </u>	<u> </u>	- 4	<u></u>			1

Depth

(m) 600m

605m

.7

610m

615m

620 m

625m

630m

635m +

640<u>m</u>

J

.9

650m

Core

Log.

CGL

ĐÍ

AGL

-AGL

AGL

<u>مۍ د</u>

AGL

AGL

+

+

25 V.

175 V

+

AMP 645m

t

+

22 Bio rich (\$5mm 2)

Anhyd, films.

+

<del>(3</del>5,6,

**Direction**:

(true north)

Inclination :--

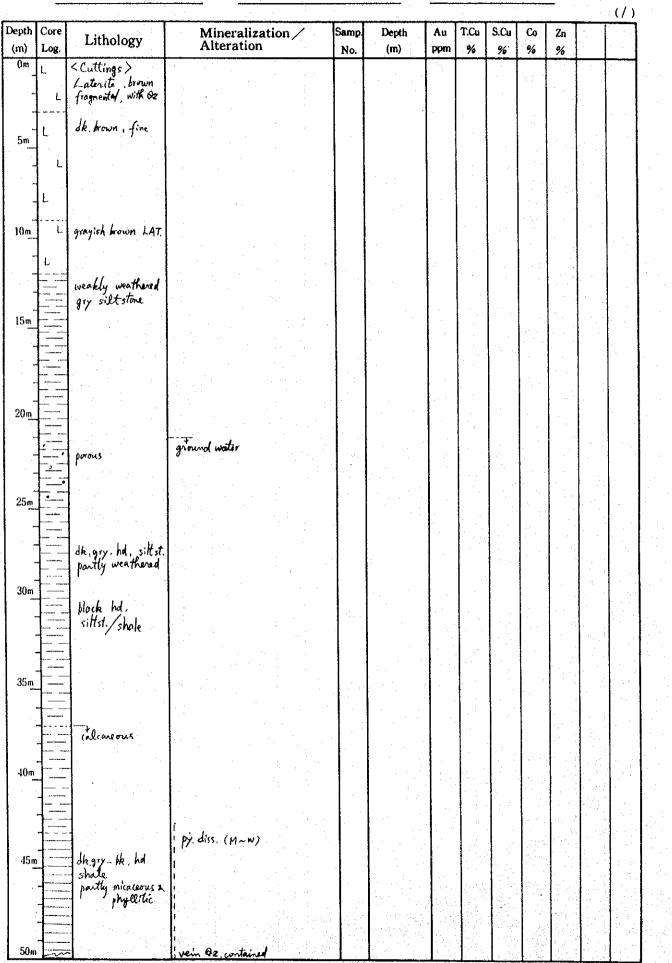
Elevation Longitude : • (13) T.Cu S.Cu Depth Λu Co Zn Mineralization / Samp Lithology Alteration (m)рулл % % No. % % granite peobles (\$ 3 cm ±) Anlyd. vlt. rare granite boulders with granite peoble AGL be petty-soly. AGT @2. vits silicified around its bleached ASTL whin reddish soft clayey alt.r. gypixlts. bk. Att. 55. b. mdy. lons. 70 shift. Q2-dol. v/6. pebbly AG2 , dol. with granite pebbles with many whi, small dol-band. bk-dk.grn.sdy, with dol.dotn.spot Anhyd, Mts. Fry-whi. showed granite Anhyd, vlts \$ 50 sheared plane str. silicified. while hed , Bistitized r cos grain crystal t Anhyd. dota film. Anhyd, -@z (colorkes, large crystal) vein including yn patod. Bio-gran alt. g yn patod. Sili, graish gry longe az Heached.

Direction : Longitude : (true north)

Inclination : -

Elevation

:



Direction : Longitude : (true north)

Inclination :--۰. Elevation :

	·		Longanne .			<u></u>						(2)
Depth (m)	Core Log.	Lithology	Mineralization / Alteration	Samp. No.	Depth (m)	Au ppm	T.Cu %	S.Cu %	Co %	Zn %		
50m		be shale be	y. w. diss. Vein @2.									
		bk shale, hd. calcaneous	Ven 62.									
55m	-		1 py. str. diss. with Cp. partly							-		
55m			1									
·   .	]		1							1		
	-	phyllitic	py w. diss.									
60 <b>m</b>		[ ¢						·				
1 ·	-											
	]					ſ						
	-											ŀ
65		micaceons (Bio)										
	-											
· · .	-			· ·								
· · .			py str diss partly Qz-py vein									
70	n	<b>a</b>	Qz py vein					- <u>-</u> -				
	+7-7	white Dolomite										
	五	WHITE DOLOWINE	py. w. diss.									•
		- · · · · · · · · · · · · · · · · · · ·										
75	<u></u>											
	17	<u>n</u> 	i 					• .				
		- JL arv			· ·							
- 80	)	dh gry dolomitic shale/ AGi										
		/ <i>ru</i> i										
	+ <u>T</u>	argilloieous DM										
	+7											
8	- <u>-</u>											
	-7-7	z										
	-1-	z									·   .	
	)m <u>7</u>	<u> </u>										
	1	whi. <i>ÐM</i> .										
	-77	$\overline{T}$						- 1.				
		7										
95	5m 77	417. ang. DM.										
	77	Z Statistics										
		7										
	臣	<b>]</b>										
1												
<u> </u>	<u>~"                                    </u>			<del>in la c</del>						1	-	 

Direction : Longitude : (true north)

Inclination :---

:

Elevation

	-					LICTA				·····			÷
·	· · · · ·	·										( <u></u> 3)	· · · ·
Depth	Core	T 241 - 1	Mineralization / Alteration	Samp	Depth	Au	T.Cu	S.Cu	Co	Zn :			- 14 - 14 - 14 - 14 - 14 - 14 - 14 - 14
(m)	Log.	Lithology	Alteration	No.	(m)	ppm	%	%	%	%			
100m	7-7							/4	. 74	19			
100m	EZ-	grylsh whi. ang-DH						1					l i i
	1.71	· ·			1. A. A.	1				· · ·			
	I = I	· · ·											
											1		
	<u></u>	gry. dolomitic Argillite		.	in a second	· ·							
105m		de l'amitie Arrillite											
	<u> </u>												
-						ł					1.11		
-		1944 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 -											<b>N</b>
				1		1							
		and the second second						· .			5 . S	- e e	
1 110 -	77					[					· ·		and the second second
110m	1/7	whi. DM				· · ·	1						
	1-74					1	12						
	ZZ					ļ	l .				1.		
	╆┷┯							· ·					
	ťŹ	<b>j</b> :					·					1.	
	$\mu$									ł		<b>.</b>	1 ·
115m	7-7	l e e				ľ		<b>.</b> .		· ·	· ·		
1 -	ľ,					1	1.	· ·		· .		ľ	
	1/7/			С. С. А.		ļ .				1 <sup>1</sup>	1 :		
	747						· .		1	ļ			1
	7,	1				1. 1		19 J.					
	14.74												
	1/1					1 · ·				<b>.</b>		<u>.</u>	
120m	<b>1</b> 77					1 A 4			ľ			10 C	
	7474						1.1						
	17.7						1			1.1		· ·	100 B
	$+t^{L}$							1.12		1.1			
	<u>17</u>	and de la	1						Ì	1 · ·			
	III	dialen mar				1.		1 1 1			1.1	1 A.	1
125m	<del>5/7</del>	qryish whi. arg- DM.			· · · ·								t state
120m	+7-				A State				ł			· ·	
Į	1-1	-				ľ					. ·		
	547				1	11					1 <sup>1</sup> .		
1	ÉZÉ										· .	1.1	1.4
	- <i>LL</i>	{								- 1 <u>.</u>		1.1	
	547	1.								1.			· · ·
130m	ET.	1				۱. I						1. T	
-	1474						÷.,	· ·	11.1		· ·		100 B
	1747		and the second									1.5	
	$-T_{-}$						1.1					· ·	
		-					1					1	
1	54	- <b>1</b>				1			1	1°		1.1	
135m	ť7-			Į				1 s		1			
100m	477			1	l.	1.	- · · .	· ·	·	ľ .		<b>1</b>	
	1745			192				1		1		1	
	1	/	r i		•		1.	. · .					
	1,7		py v.w. diss.	1 <sup>1</sup>				· · .		1.1	1		1 A.
	44.74	<u> </u>		· .				· ·	1	1.1			1 a 🛛 🚓 1
	17.7	Zwhi DM.	The second se			1		1 .					
140m	1 <del>74</del> 7	4		1	l . ·	1 .		1	Í	ļ		13	1
1 -	1 Z					1		[		1.2.1		<b> </b>	and the second second
	1-7-					1			.				
	17/7	1		ŀ ·			1	[ · _ ]			1		
	1	r · · ·			1								and the second second
1	ן'דַל	7										1.11	1
1.0	$\frac{1}{r}$		t	1					- N	1.2.1			i ana ini i
145m	<u>'</u>   <i>[</i>	I brownish whi. DM	weathered py widts.	· · ·	1	1			. ·	dia ta	1		
	17-	7				- I - I				·			
	17			1.1					1 · · · ·				
	1/	4		1				1.1		6			
	17/7			1.11	and the			1.00		· .			
	J-T	rl i i i		1.00									
150	LT'			- 13 E							-		
		( 1 · · · · · · · · · · · · · · · · · ·		1		1.655	1	1. 10 A	1	1 27	1	Photo A.	I the second second

Drill hole No. : MJZC-5

Direction : Longitude : (true north)

Inclination : --Elevation :

Latitude : (4) T.Cu S.Cu Co Au Zn Depth Core Mineralization / Samp Depth Lithology Alteration (m) ppm % % % % (m) Log. No. 150m brownish weath. PM py. str. diss. 155m weathered py. str. diss. dk.gry ang-DH PX M. diss. py str. diss. Whi. DM 160m Whi.-gry. Bio.rich micaceous PM w-ang, Py v str. diss 165m whi, mira - PM. py w diss. while gif w-ang\_milia. DM 170m while pure DM. py. v. w. diss. 175m Py M. diss. whi-gry ang-DM. whi. pure PM with mica. Py. w. diss. 180m gryish whi, w-ang-PM Py. M.w. alss. 35 b. gry. dol-AGL gry-whi, eng-DM comp. hd. coving 185m -30 hg - layer sil. ht. DH. Amily py. v.w. diss -30 b. laminated dol-AGL, id. DH-AGL Interstended 190m onv. Jamina. 6 R ly w. diss. gry-whi. sil. DM with ang lays 195m 20 1 dk.gry-gry, AGL. w.sil.hd, comp. dolomitic partly py-due verifiets by band diss. parallel to pedding 7 20 1. Inminated -200\*